



Full wwPDB X-ray Structure Validation Report ⓘ

May 24, 2020 – 04:20 pm BST

PDB ID : 4V4G
Title : Crystal structure of five 70s ribosomes from Escherichia Coli in complex with protein Y.
Authors : Vila-Sanjurjo, A.; Schuwirth, B.S.; Hau, C.W.; Cate, J.H.
Deposited on : 2004-10-06
Resolution : 11.50 Å(reported)

This is a Full wwPDB X-ray Structure Validation Report for a publicly released PDB entry.

We welcome your comments at validation@mail.wwpdb.org

A user guide is available at

<https://www.wwpdb.org/validation/2017/XrayValidationReportHelp>

with specific help available everywhere you see the ⓘ symbol.

The following versions of software and data (see [references ⓘ](#)) were used in the production of this report:

MolProbity : 4.02b-467
Mogul : 1.8.5 (274361), CSD as541be (2020)
Xtriage (Phenix) : 1.13
EDS : 2.11
Percentile statistics : 20191225.v01 (using entries in the PDB archive December 25th 2019)
Refmac : 5.8.0158
CCP4 : 7.0.044 (Gargrove)
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : 2.11

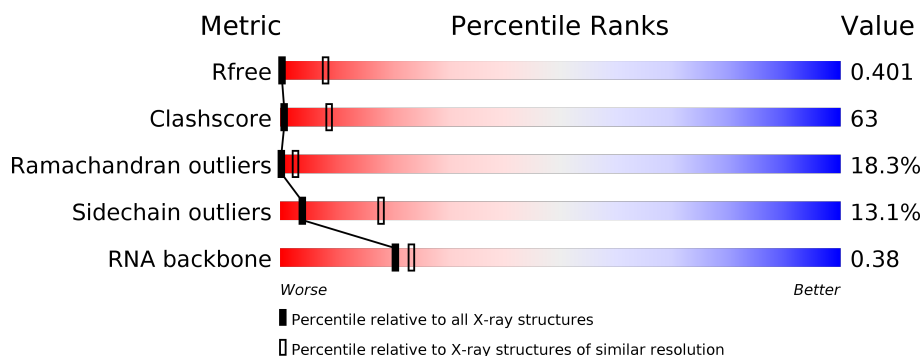
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 11.50 Å.

Percentile scores (ranging between 0-100) for global validation metrics of the entry are shown in the following graphic. The table shows the number of entries on which the scores are based.






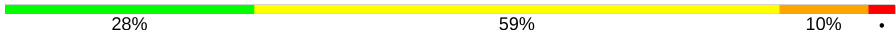
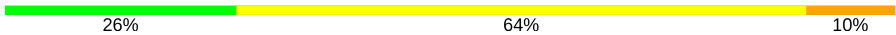
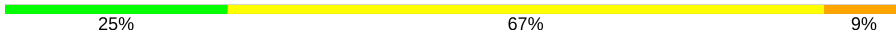
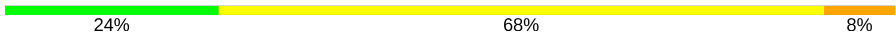
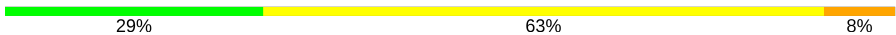
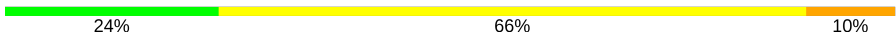
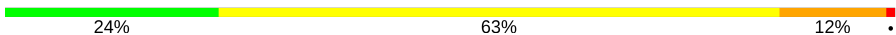
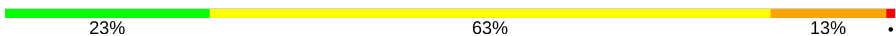
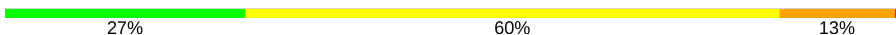
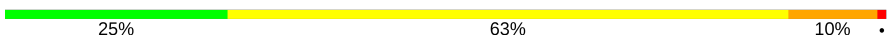












Metric	Whole archive (#Entries)	Similar resolution (#Entries, resolution range(Å))
R_{free}	130704	1005 (11.50-3.90)
Clashscore	141614	1071 (15.00-3.90)
Ramachandran outliers	138981	1003 (11.50-3.90)
Sidechain outliers	138945	1003 (11.50-3.86)
RNA backbone	3102	1079 (11.50-3.00)

The table below summarises the geometric issues observed across the polymeric chains and their fit to the electron density. The red, orange, yellow and green segments on the lower bar indicate the fraction of residues that contain outliers for ≥ 3 , 2, 1 and 0 types of geometric quality criteria respectively. A grey segment represents the fraction of residues that are not modelled. The numeric value for each fraction is indicated below the corresponding segment, with a dot representing fractions $\leq 5\%$.

Mol	Chain	Length	Quality of chain
1	AA	1526	20% 61% 19% .
1	CA	1526	20% 60% 19%
1	EA	1526	20% 60% 19%
1	GA	1526	20% 61% 19% .
1	IA	1526	20% 60% 19%
2	AB	234	29% 59% 10% .



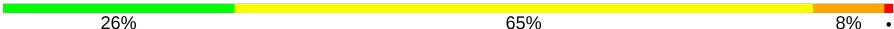
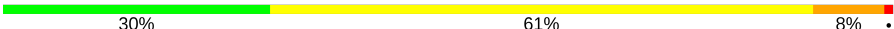
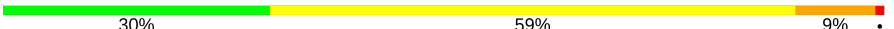
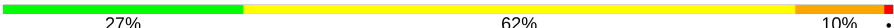
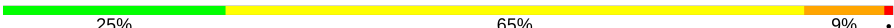


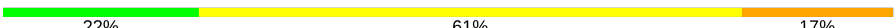
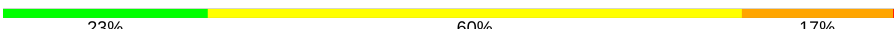
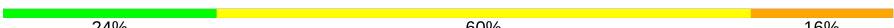

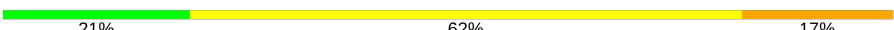

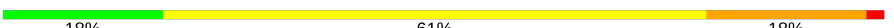
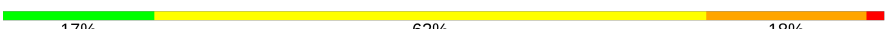
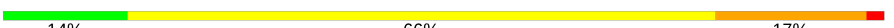
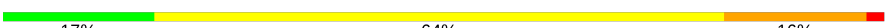
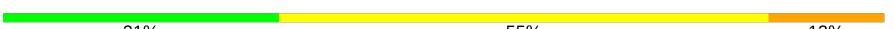
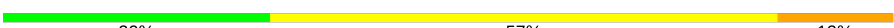

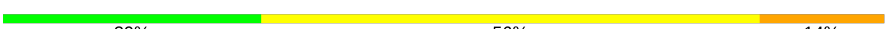


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Mol	Chain	Length	Quality of chain
2	CB	234	
2	EB	234	
2	GB	234	
2	IB	234	
3	AC	206	
3	CC	206	
3	EC	206	
3	GC	206	
3	IC	206	
4	AD	208	
4	CD	208	
4	ED	208	
4	GD	208	
4	ID	208	
5	AE	150	
5	CE	150	
5	EE	150	
5	GE	150	
5	IE	150	
6	AF	101	
6	CF	101	
6	EF	101	
6	GF	101	
6	IF	101	
7	AG	155	

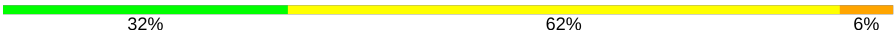

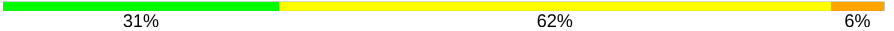

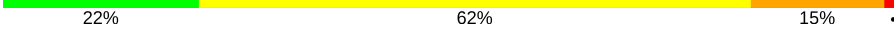
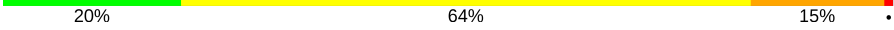

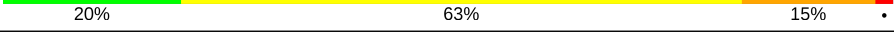



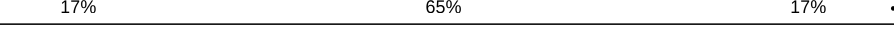
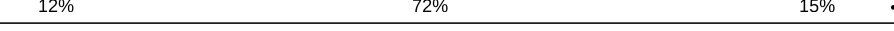
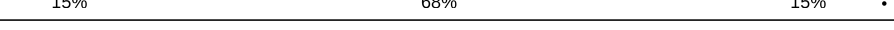


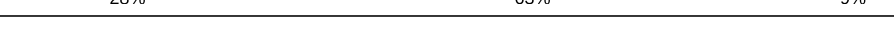

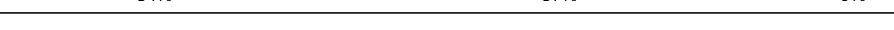
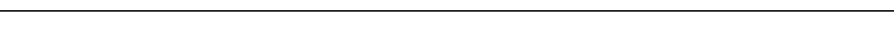
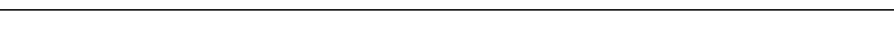
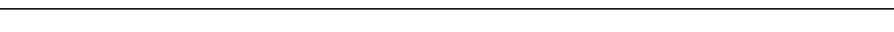
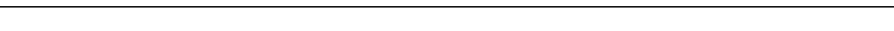
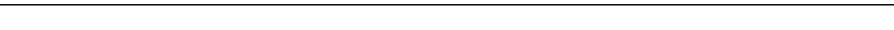

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Mol	Chain	Length	Quality of chain
7	CG	155	
7	EG	155	
7	GG	155	
7	IG	155	
8	AH	138	
8	CH	138	
8	EH	138	
8	GH	138	
8	IH	138	
9	AI	127	
9	CI	127	
9	EI	127	
9	GI	127	
9	II	127	
10	AJ	98	
10	CJ	98	
10	EJ	98	
10	GJ	98	
10	IJ	98	
11	AK	119	
11	CK	119	
11	EK	119	
11	GK	119	
11	IK	119	
12	AL	124	

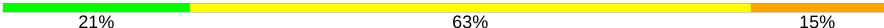
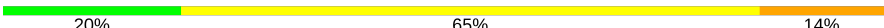
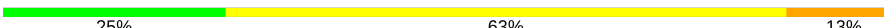

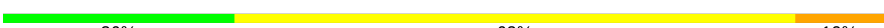
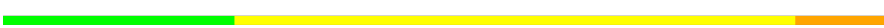



















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Mol	Chain	Length	Quality of chain
12	CL	124	
12	EL	124	
12	GL	124	
12	IL	124	
13	AM	125	
13	CM	125	
13	EM	125	
13	GM	125	
13	IM	125	
14	AN	60	
14	CN	60	
14	EN	60	
14	GN	60	
14	IN	60	
15	AO	88	
15	CO	88	
15	EO	88	
15	GO	88	
15	IO	88	
16	AP	83	
16	CP	83	
16	EP	83	
16	GP	83	
16	IP	83	
17	AQ	104	

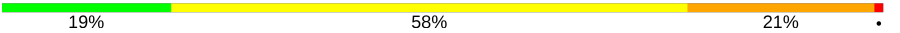
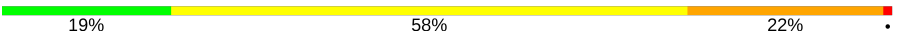
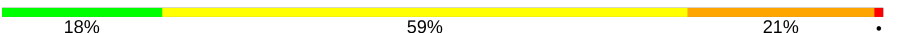
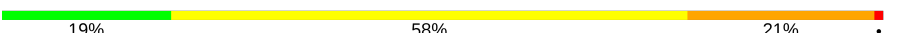
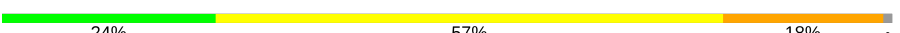
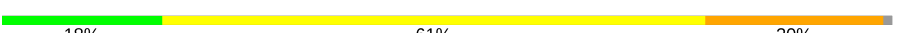
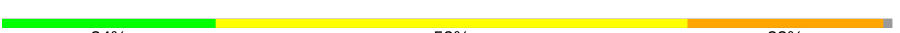




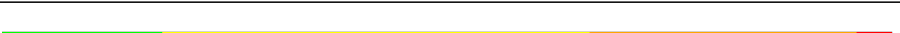


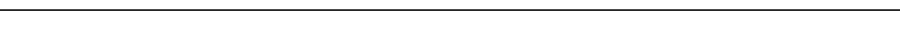
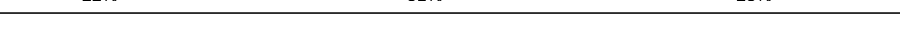
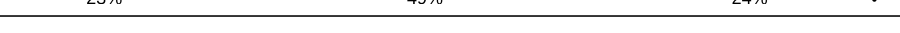
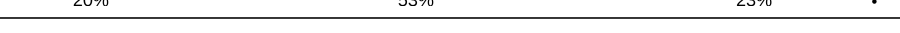
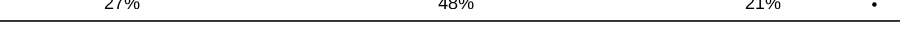
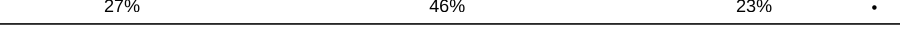

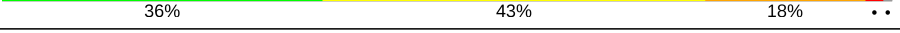


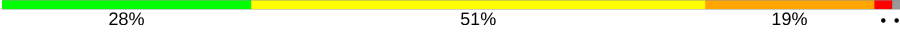
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Mol	Chain	Length	Quality of chain
17	CQ	104	
17	EQ	104	
17	GQ	104	
17	IQ	104	
18	AR	73	
18	CR	73	
18	ER	73	
18	GR	73	
18	IR	73	
19	AS	80	
19	CS	80	
19	ES	80	
19	GS	80	
19	IS	80	
20	AT	99	
20	CT	99	
20	ET	99	
20	GT	99	
20	IT	99	
21	Aa	90	
21	Ca	90	
21	Ea	90	
21	Ga	90	
21	Ia	90	
22	BB	2825	

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Mol	Chain	Length	Quality of chain
22	DB	2825	 19% 58% 21% .
22	FB	2825	 19% 58% 22% .
22	HB	2825	 18% 59% 21% .
22	JB	2825	 19% 58% 21% .
23	BA	119	 24% 57% 18% .
23	DA	119	 18% 61% 20% .
23	FA	119	 24% 53% 22% .
23	HA	119	 24% 56% 18% .
23	JA	119	 27% 50% 22% .
24	BD	270	 20% 46% 30% .
24	DD	270	 18% 50% 28% .
24	FD	270	 18% 48% 30% .
24	HD	270	 20% 47% 28% .
24	JD	270	 19% 47% 30% .
25	BE	205	 22% 51% 23% .
25	DE	205	 23% 49% 24% .
25	FE	205	 20% 53% 23% .
25	HE	205	 27% 48% 21% .
25	JE	205	 27% 46% 23% .
26	BF	198	 36% 43% 19% ..
26	DF	198	 36% 43% 18% ..
26	FF	198	 30% 49% 19% ..
26	HF	198	 34% 46% 18% ..
26	JF	198	 28% 51% 19% ..
27	BG	178	 20% 46% 29% 6%


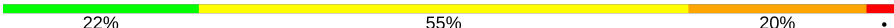
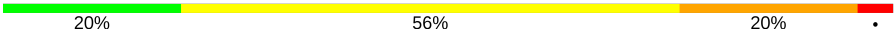
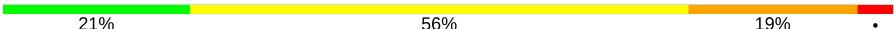
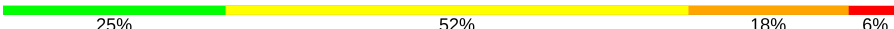
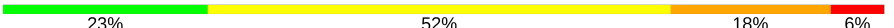
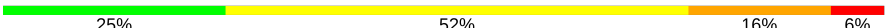
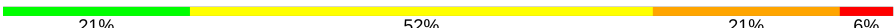
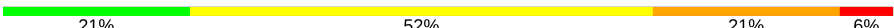
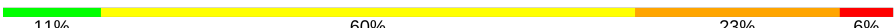
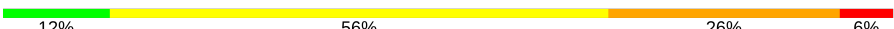
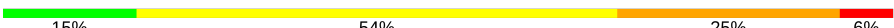


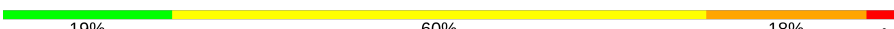
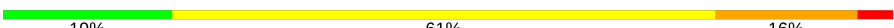
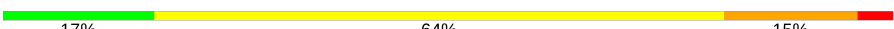
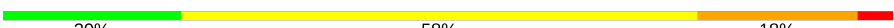
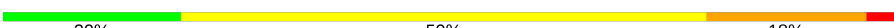
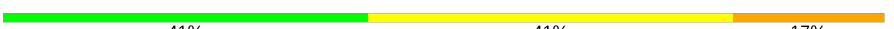
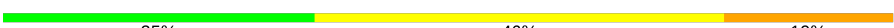

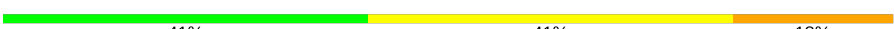


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Mol	Chain	Length	Quality of chain
27	DG	178	
27	FG	178	
27	HG	178	
27	JG	178	
28	BH	177	
28	DH	177	
28	FH	177	
28	HH	177	
28	JH	177	
29	BI	52	
29	DI	52	
29	FI	52	
29	HI	52	
29	JI	52	
30	BJ	143	
30	DJ	143	
30	FJ	143	
30	HJ	143	
30	JJ	143	
31	BK	143	
31	DK	143	
31	FK	143	
31	HK	143	
31	JK	143	
32	BL	132	

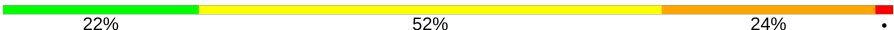
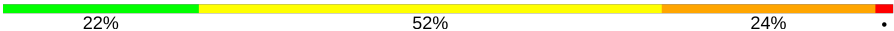
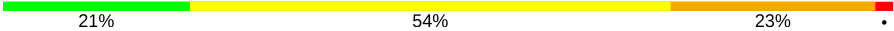


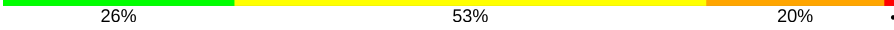
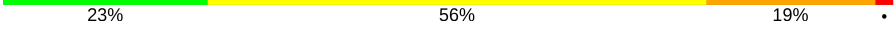



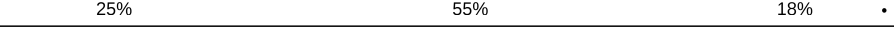





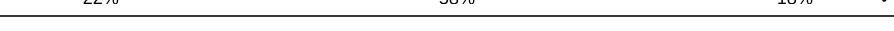
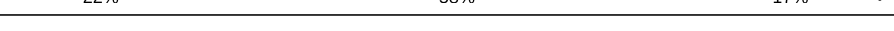
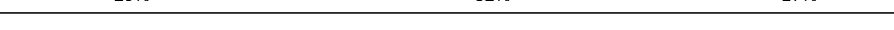
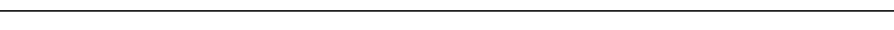
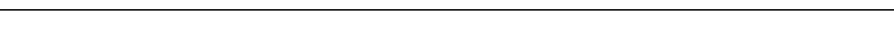
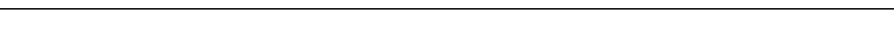
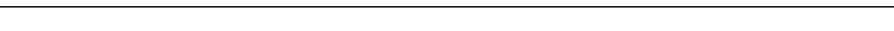
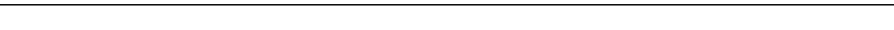

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Mol	Chain	Length	Quality of chain
32	DL	132	
32	FL	132	
32	HL	132	
32	JL	132	
33	BM	141	
33	DM	141	
33	FM	141	
33	HM	141	
33	JM	141	
34	BN	124	
34	DN	124	
34	FN	124	
34	HN	124	
34	JN	124	
35	BO	114	
35	DO	114	
35	FO	114	
35	HO	114	
35	JO	114	
36	BP	111	
36	DP	111	
36	FP	111	
36	HP	111	
36	JP	111	
37	BQ	125	

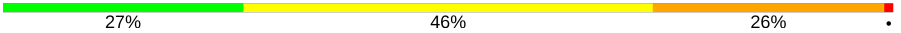
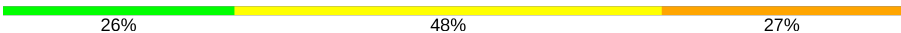
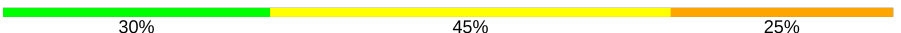


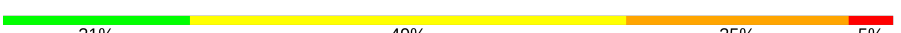
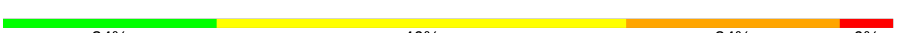




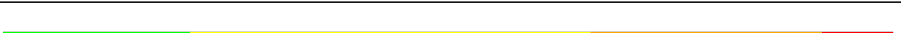


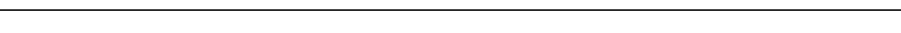
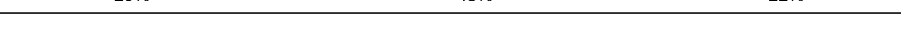
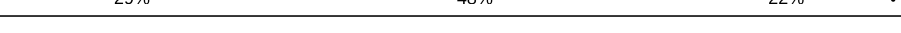
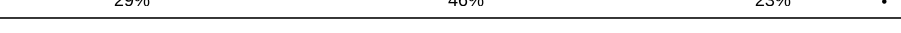
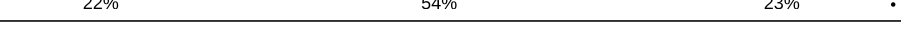
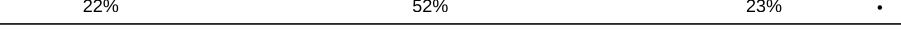

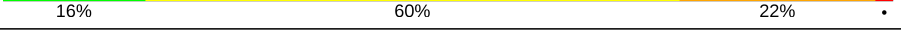



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Mol	Chain	Length	Quality of chain
37	DQ	125	
37	FQ	125	
37	HQ	125	
37	JQ	125	
38	BR	117	
38	DR	117	
38	FR	117	
38	HR	117	
38	JR	117	
39	BS	100	
39	DS	100	
39	FS	100	
39	HS	100	
39	JS	100	
40	BT	130	
40	DT	130	
40	FT	130	
40	HT	130	
40	JT	130	
41	BU	93	
41	DU	93	
41	FU	93	
41	HU	93	
41	JU	93	
42	BV	113	

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Mol	Chain	Length	Quality of chain
42	DV	113	
42	FV	113	
42	HV	113	
42	JV	113	
43	BW	173	
43	DW	173	
43	FW	173	
43	HW	173	
43	JW	173	
44	BX	86	
44	DX	86	
44	FX	86	
44	HX	86	
44	JX	86	
45	BY	65	
45	DY	65	
45	FY	65	
45	HY	65	
45	JY	65	
46	BZ	55	
46	DZ	55	
46	FZ	55	
46	HZ	55	
46	JZ	55	
47	B1	73	


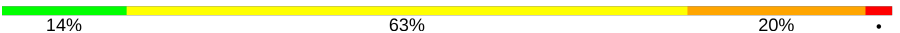
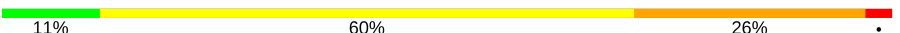


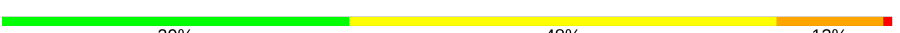
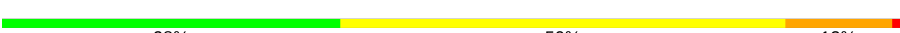


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Mol	Chain	Length	Quality of chain
47	D1	73	
47	F1	73	
47	H1	73	
47	J1	73	
48	B2	58	
48	D2	58	
48	F2	58	
48	H2	58	
48	J2	58	
49	B3	53	
49	D3	53	
49	F3	53	
49	H3	53	
49	J3	53	
50	B4	46	
50	D4	46	
50	F4	46	
50	H4	46	
50	J4	46	
51	B5	63	
51	D5	63	
51	F5	63	
51	H5	63	
51	J5	63	
52	B6	35	

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Mol	Chain	Length	Quality of chain
52	D6	35	 9% 66% 23% •
52	F6	35	 14% 63% 20% •
52	H6	35	 11% 60% 26% •
52	J6	35	 11% 63% 23% •
53	B7	217	 38% 49% 12% •
53	D7	217	 39% 48% 12% •
53	F7	217	 38% 50% 12% •
53	H7	217	 36% 51% 12% •
53	J7	217	 34% 54% 12% •

2 Entry composition

There are 53 unique types of molecules in this entry. The entry contains 717805 atoms, of which 0 are hydrogens and 0 are deuteriums.

In the tables below, the ZeroOcc column contains the number of atoms modelled with zero occupancy, the AltConf column contains the number of residues with at least one atom in alternate conformation and the Trace column contains the number of residues modelled with at most 2 atoms.

- Molecule 1 is a RNA chain called 16S ribosomal RNA.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	AA	1526	Total	C	N	O	P	0	0	0
			32799	14601	6082	10590	1526			
1	CA	1526	Total	C	N	O	P	0	0	0
			32799	14601	6082	10590	1526			
1	EA	1526	Total	C	N	O	P	0	0	0
			32799	14601	6082	10590	1526			
1	GA	1526	Total	C	N	O	P	0	0	0
			32799	14601	6082	10590	1526			
1	IA	1526	Total	C	N	O	P	0	0	0
			32799	14601	6082	10590	1526			

- Molecule 2 is a protein called 30S ribosomal protein S2.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
2	AB	234	Total	C	N	O	S	0	0	0
			1901	1213	341	342	5			
2	CB	234	Total	C	N	O	S	0	0	0
			1901	1213	341	342	5			
2	EB	234	Total	C	N	O	S	0	0	0
			1901	1213	341	342	5			
2	GB	234	Total	C	N	O	S	0	0	0
			1901	1213	341	342	5			
2	IB	234	Total	C	N	O	S	0	0	0
			1901	1213	341	342	5			

- Molecule 3 is a protein called 30S ribosomal protein S3.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
3	AC	206	Total	C	N	O	S	0	0	0
			1613	1016	314	282	1			
3	CC	206	Total	C	N	O	S	0	0	0
			1613	1016	314	282	1			

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
3	EC	206	Total	C	N	O	S	0	0	0
			1613	1016	314	282	1			
3	GC	206	Total	C	N	O	S	0	0	0
			1613	1016	314	282	1			
3	IC	206	Total	C	N	O	S	0	0	0
			1613	1016	314	282	1			

- Molecule 4 is a protein called 30S ribosomal protein S4.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
4	AD	208	Total	C	N	O	S	0	0	0
			1703	1066	339	291	7			
4	CD	208	Total	C	N	O	S	0	0	0
			1703	1066	339	291	7			
4	ED	208	Total	C	N	O	S	0	0	0
			1703	1066	339	291	7			
4	GD	208	Total	C	N	O	S	0	0	0
			1703	1066	339	291	7			
4	ID	208	Total	C	N	O	S	0	0	0
			1703	1066	339	291	7			

- Molecule 5 is a protein called 30S ribosomal protein S5.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
5	AE	150	Total	C	N	O	S	0	0	0
			1147	724	217	202	4			
5	CE	150	Total	C	N	O	S	0	0	0
			1147	724	217	202	4			
5	EE	150	Total	C	N	O	S	0	0	0
			1147	724	217	202	4			
5	GE	150	Total	C	N	O	S	0	0	0
			1147	724	217	202	4			
5	IE	150	Total	C	N	O	S	0	0	0
			1147	724	217	202	4			

- Molecule 6 is a protein called 30S ribosomal protein S6.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
6	AF	101	Total	C	N	O	S	0	0	0
			843	531	155	154	3			
6	CF	101	Total	C	N	O	S	0	0	0
			843	531	155	154	3			

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
6	EF	101	Total	C	N	O	S	0	0	0
			843	531	155	154	3			
6	GF	101	Total	C	N	O	S	0	0	0
			843	531	155	154	3			
6	IF	101	Total	C	N	O	S	0	0	0
			843	531	155	154	3			

- Molecule 7 is a protein called 30S ribosomal protein S7.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
7	AG	155	Total	C	N	O	S	0	0	0
			1257	781	252	218	6			
7	CG	155	Total	C	N	O	S	0	0	0
			1257	781	252	218	6			
7	EG	155	Total	C	N	O	S	0	0	0
			1257	781	252	218	6			
7	GG	155	Total	C	N	O	S	0	0	0
			1257	781	252	218	6			
7	IG	155	Total	C	N	O	S	0	0	0
			1257	781	252	218	6			

- Molecule 8 is a protein called 30S ribosomal protein S8.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
8	AH	138	Total	C	N	O	S	0	0	0
			1116	705	215	193	3			
8	CH	138	Total	C	N	O	S	0	0	0
			1116	705	215	193	3			
8	EH	138	Total	C	N	O	S	0	0	0
			1116	705	215	193	3			
8	GH	138	Total	C	N	O	S	0	0	0
			1116	705	215	193	3			
8	IH	138	Total	C	N	O	S	0	0	0
			1116	705	215	193	3			

- Molecule 9 is a protein called 30S ribosomal protein S9.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
9	AI	127	Total	C	N	O	0	0	0
			1011	639	198	174			
9	CI	127	Total	C	N	O	0	0	0
			1011	639	198	174			

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Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
9	EI	127	Total	C	N	O	0	0	0
			1011	639	198	174			
9	GI	127	Total	C	N	O	0	0	0
			1011	639	198	174			
9	II	127	Total	C	N	O	0	0	0
			1011	639	198	174			

- Molecule 10 is a protein called 30S ribosomal protein S10.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
10	AJ	98	Total	C	N	O	S	0	0	0
			795	499	156	139	1			
10	CJ	98	Total	C	N	O	S	0	0	0
			795	499	156	139	1			
10	EJ	98	Total	C	N	O	S	0	0	0
			795	499	156	139	1			
10	GJ	98	Total	C	N	O	S	0	0	0
			795	499	156	139	1			
10	IJ	98	Total	C	N	O	S	0	0	0
			795	499	156	139	1			

- Molecule 11 is a protein called 30S ribosomal protein S11.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
11	AK	119	Total	C	N	O	S	0	0	0
			885	549	168	165	3			
11	CK	119	Total	C	N	O	S	0	0	0
			885	549	168	165	3			
11	EK	119	Total	C	N	O	S	0	0	0
			885	549	168	165	3			
11	GK	119	Total	C	N	O	S	0	0	0
			885	549	168	165	3			
11	IK	119	Total	C	N	O	S	0	0	0
			885	549	168	165	3			

- Molecule 12 is a protein called 30S ribosomal protein S12.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
12	AL	124	Total	C	N	O	S	0	0	0
			971	611	195	164	1			
12	CL	124	Total	C	N	O	S	0	0	0
			971	611	195	164	1			

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
12	EL	124	Total	C	N	O	S	0	0	0
			971	611	195	164	1			
12	GL	124	Total	C	N	O	S	0	0	0
			971	611	195	164	1			
12	IL	124	Total	C	N	O	S	0	0	0
			971	611	195	164	1			

- Molecule 13 is a protein called 30S ribosomal protein S13.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
13	AM	125	Total	C	N	O	S	0	0	0
			997	617	207	171	2			
13	CM	125	Total	C	N	O	S	0	0	0
			997	617	207	171	2			
13	EM	125	Total	C	N	O	S	0	0	0
			997	617	207	171	2			
13	GM	125	Total	C	N	O	S	0	0	0
			997	617	207	171	2			
13	IM	125	Total	C	N	O	S	0	0	0
			997	617	207	171	2			

- Molecule 14 is a protein called 30S ribosomal protein S14.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
14	AN	60	Total	C	N	O	S	0	0	0
			492	312	104	72	4			
14	CN	60	Total	C	N	O	S	0	0	0
			492	312	104	72	4			
14	EN	60	Total	C	N	O	S	0	0	0
			492	312	104	72	4			
14	GN	60	Total	C	N	O	S	0	0	0
			492	312	104	72	4			
14	IN	60	Total	C	N	O	S	0	0	0
			492	312	104	72	4			

- Molecule 15 is a protein called 30S ribosomal protein S15.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
15	AO	88	Total	C	N	O	S	0	0	0
			734	459	147	126	2			
15	CO	88	Total	C	N	O	S	0	0	0
			734	459	147	126	2			

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
15	EO	88	Total	C	N	O	S	0	0	0
			734	459	147	126	2			
15	GO	88	Total	C	N	O	S	0	0	0
			734	459	147	126	2			
15	IO	88	Total	C	N	O	S	0	0	0
			734	459	147	126	2			

- Molecule 16 is a protein called 30S ribosomal protein S16.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
16	AP	83	Total	C	N	O	S	0	0	0
			701	443	139	118	1			
16	CP	83	Total	C	N	O	S	0	0	0
			701	443	139	118	1			
16	EP	83	Total	C	N	O	S	0	0	0
			701	443	139	118	1			
16	GP	83	Total	C	N	O	S	0	0	0
			701	443	139	118	1			
16	IP	83	Total	C	N	O	S	0	0	0
			701	443	139	118	1			

- Molecule 17 is a protein called 30S ribosomal protein S17.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
17	AQ	104	Total	C	N	O	S	0	0	0
			857	547	161	147	2			
17	CQ	104	Total	C	N	O	S	0	0	0
			857	547	161	147	2			
17	EQ	104	Total	C	N	O	S	0	0	0
			857	547	161	147	2			
17	GQ	104	Total	C	N	O	S	0	0	0
			857	547	161	147	2			
17	IQ	104	Total	C	N	O	S	0	0	0
			857	547	161	147	2			

- Molecule 18 is a protein called 30S ribosomal protein S18.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
18	AR	73	Total	C	N	O	0	0	0
			597	380	118	99			
18	CR	73	Total	C	N	O	0	0	0
			597	380	118	99			

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Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
18	ER	73	Total	C	N	O	0	0	0
			597	380	118	99			
18	GR	73	Total	C	N	O	0	0	0
			597	380	118	99			
18	IR	73	Total	C	N	O	0	0	0
			597	380	118	99			

- Molecule 19 is a protein called 30S ribosomal protein S19.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
19	AS	80	Total	C	N	O	S	0	0	0
			648	414	119	113	2			
19	CS	80	Total	C	N	O	S	0	0	0
			648	414	119	113	2			
19	ES	80	Total	C	N	O	S	0	0	0
			648	414	119	113	2			
19	GS	80	Total	C	N	O	S	0	0	0
			648	414	119	113	2			
19	IS	80	Total	C	N	O	S	0	0	0
			648	414	119	113	2			

- Molecule 20 is a protein called 30S ribosomal protein S20.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
20	AT	99	Total	C	N	O	S	0	0	0
			762	469	162	129	2			
20	CT	99	Total	C	N	O	S	0	0	0
			762	469	162	129	2			
20	ET	99	Total	C	N	O	S	0	0	0
			762	469	162	129	2			
20	GT	99	Total	C	N	O	S	0	0	0
			762	469	162	129	2			
20	IT	99	Total	C	N	O	S	0	0	0
			762	469	162	129	2			

- Molecule 21 is a protein called protein Y.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
21	Aa	90	Total	C	N	O	S	0	0	0
			719	452	131	133	3			
21	Ca	90	Total	C	N	O	S	0	0	0
			719	452	131	133	3			

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
21	Ea	90	Total	C	N	O	S	0	0	0
			719	452	131	133	3			
21	Ga	90	Total	C	N	O	S	0	0	0
			719	452	131	133	3			
21	Ia	90	Total	C	N	O	S	0	0	0
			719	452	131	133	3			

- Molecule 22 is a RNA chain called 23S RIBOSOMAL RNA.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
22	BB	2825	Total	C	N	O	P	0	0	0
			60635	27047	11190	19573	2825			
22	DB	2825	Total	C	N	O	P	0	0	0
			60635	27047	11190	19573	2825			
22	FB	2825	Total	C	N	O	P	0	0	0
			60635	27047	11190	19573	2825			
22	HB	2825	Total	C	N	O	P	0	0	0
			60635	27047	11190	19573	2825			
22	JB	2825	Total	C	N	O	P	0	0	0
			60635	27047	11190	19573	2825			

- Molecule 23 is a RNA chain called 5S RIBOSOMAL RNA.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
23	BA	118	Total	C	N	O	P	0	0	0
			2519	1124	464	813	118			
23	DA	118	Total	C	N	O	P	0	0	0
			2519	1124	464	813	118			
23	FA	118	Total	C	N	O	P	0	0	0
			2519	1124	464	813	118			
23	HA	118	Total	C	N	O	P	0	0	0
			2519	1124	464	813	118			
23	JA	118	Total	C	N	O	P	0	0	0
			2519	1124	464	813	118			

- Molecule 24 is a protein called 50S ribosomal protein L2.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
24	BD	270	Total	C	N	O	S	0	0	0
			2079	1294	417	365	3			
24	DD	270	Total	C	N	O	S	0	0	0
			2079	1294	417	365	3			

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
24	FD	270	Total	C	N	O	S	0	0	0
			2079	1294	417	365	3			
24	HD	270	Total	C	N	O	S	0	0	0
			2079	1294	417	365	3			
24	JD	270	Total	C	N	O	S	0	0	0
			2079	1294	417	365	3			

- Molecule 25 is a protein called 50S ribosomal protein L3.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
25	BE	205	Total	C	N	O	S	0	0	0
			1540	965	295	272	8			
25	DE	205	Total	C	N	O	S	0	0	0
			1540	965	295	272	8			
25	FE	205	Total	C	N	O	S	0	0	0
			1540	965	295	272	8			
25	HE	205	Total	C	N	O	S	0	0	0
			1540	965	295	272	8			
25	JE	205	Total	C	N	O	S	0	0	0
			1540	965	295	272	8			

- Molecule 26 is a protein called 50S ribosomal protein L4.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
26	BF	197	Total	C	N	O	S	0	0	0
			1507	935	287	283	2			
26	DF	197	Total	C	N	O	S	0	0	0
			1507	935	287	283	2			
26	FF	197	Total	C	N	O	S	0	0	0
			1507	935	287	283	2			
26	HF	197	Total	C	N	O	S	0	0	0
			1507	935	287	283	2			
26	JF	197	Total	C	N	O	S	0	0	0
			1507	935	287	283	2			

- Molecule 27 is a protein called 50S ribosomal protein L5.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
27	BG	178	Total	C	N	O	S	0	0	0
			1410	897	249	257	7			
27	DG	178	Total	C	N	O	S	0	0	0
			1410	897	249	257	7			

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
27	FG	178	Total	C	N	O	S	0	0	0
			1410	897	249	257	7			
27	HG	178	Total	C	N	O	S	0	0	0
			1410	897	249	257	7			
27	JG	178	Total	C	N	O	S	0	0	0
			1410	897	249	257	7			

- Molecule 28 is a protein called 50S ribosomal protein L6.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
28	BH	177	Total	C	N	O	S	0	0	0
			1316	828	243	244	1			
28	DH	177	Total	C	N	O	S	0	0	0
			1316	828	243	244	1			
28	FH	177	Total	C	N	O	S	0	0	0
			1316	828	243	244	1			
28	HH	177	Total	C	N	O	S	0	0	0
			1316	828	243	244	1			
28	JH	177	Total	C	N	O	S	0	0	0
			1316	828	243	244	1			

- Molecule 29 is a protein called 50S ribosomal protein L9.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
29	BI	52	Total	C	N	O	S	0	0	0
			401	251	73	75	2			
29	DI	52	Total	C	N	O	S	0	0	0
			401	251	73	75	2			
29	FI	52	Total	C	N	O	S	0	0	0
			401	251	73	75	2			
29	HI	52	Total	C	N	O	S	0	0	0
			401	251	73	75	2			
29	JI	52	Total	C	N	O	S	0	0	0
			401	251	73	75	2			

- Molecule 30 is a protein called 50S ribosomal protein L11.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
30	BJ	143	Total	C	N	O	S	0	0	0
			1039	660	178	196	5			
30	DJ	143	Total	C	N	O	S	0	0	0
			1039	660	178	196	5			

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
30	FJ	143	Total	C	N	O	S	0	0	0
			1039	660	178	196	5			
30	HJ	143	Total	C	N	O	S	0	0	0
			1039	660	178	196	5			
30	JJ	143	Total	C	N	O	S	0	0	0
			1039	660	178	196	5			

- Molecule 31 is a protein called 50S ribosomal protein L13.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
31	BK	143	Total	C	N	O	S	0	0	0
			1122	709	210	200	3			
31	DK	143	Total	C	N	O	S	0	0	0
			1122	709	210	200	3			
31	FK	143	Total	C	N	O	S	0	0	0
			1122	709	210	200	3			
31	HK	143	Total	C	N	O	S	0	0	0
			1122	709	210	200	3			
31	JK	143	Total	C	N	O	S	0	0	0
			1122	709	210	200	3			

- Molecule 32 is a protein called 50S ribosomal protein L14.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
32	BL	132	Total	C	N	O	S	0	0	0
			981	603	196	178	4			
32	DL	132	Total	C	N	O	S	0	0	0
			981	603	196	178	4			
32	FL	132	Total	C	N	O	S	0	0	0
			981	603	196	178	4			
32	HL	132	Total	C	N	O	S	0	0	0
			981	603	196	178	4			
32	JL	132	Total	C	N	O	S	0	0	0
			981	603	196	178	4			

- Molecule 33 is a protein called 50S ribosomal protein L15.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
33	BM	141	Total	C	N	O	0	0	0
			1068	655	216	197			
33	DM	141	Total	C	N	O	0	0	0
			1068	655	216	197			

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Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
33	FM	141	Total	C	N	O	0	0	0
			1068	655	216	197			
33	HM	141	Total	C	N	O	0	0	0
			1068	655	216	197			
33	JM	141	Total	C	N	O	0	0	0
			1068	655	216	197			

- Molecule 34 is a protein called 50S ribosomal protein L16.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
34	BN	124	Total	C	N	O	S	0	0	0
			986	631	182	167	6			
34	DN	124	Total	C	N	O	S	0	0	0
			986	631	182	167	6			
34	FN	124	Total	C	N	O	S	0	0	0
			986	631	182	167	6			
34	HN	124	Total	C	N	O	S	0	0	0
			986	631	182	167	6			
34	JN	124	Total	C	N	O	S	0	0	0
			986	631	182	167	6			

- Molecule 35 is a protein called 50S ribosomal protein L17.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
35	BO	114	Total	C	N	O	S	0	0	0
			886	546	179	159	2			
35	DO	114	Total	C	N	O	S	0	0	0
			886	546	179	159	2			
35	FO	114	Total	C	N	O	S	0	0	0
			886	546	179	159	2			
35	HO	114	Total	C	N	O	S	0	0	0
			886	546	179	159	2			
35	JO	114	Total	C	N	O	S	0	0	0
			886	546	179	159	2			

- Molecule 36 is a protein called 50S ribosomal protein L18.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
36	BP	111	Total	C	N	O	8	0	0
			834	512	168	154			
36	DP	111	Total	C	N	O	8	0	0
			834	512	168	154			

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Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
36	FP	111	Total	C	N	O	8	0	0
			834	512	168	154			
36	HP	111	Total	C	N	O	8	0	0
			834	512	168	154			
36	JP	111	Total	C	N	O	8	0	0
			834	512	168	154			

- Molecule 37 is a protein called 50S ribosomal protein L19.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
37	BQ	125	Total	C	N	O	S	0	0	0
			1008	625	204	178	1			
37	DQ	125	Total	C	N	O	S	0	0	0
			1008	625	204	178	1			
37	FQ	125	Total	C	N	O	S	0	0	0
			1008	625	204	178	1			
37	HQ	125	Total	C	N	O	S	0	0	0
			1008	625	204	178	1			
37	JQ	125	Total	C	N	O	S	0	0	0
			1008	625	204	178	1			

- Molecule 38 is a protein called 50S ribosomal protein L20.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
38	BR	117	Total	C	N	O	S	16	0	0
			978	608	210	159	1			
38	DR	117	Total	C	N	O	S	16	0	0
			978	608	210	159	1			
38	FR	117	Total	C	N	O	S	16	0	0
			978	608	210	159	1			
38	HR	117	Total	C	N	O	S	16	0	0
			978	608	210	159	1			
38	JR	117	Total	C	N	O	S	16	0	0
			978	608	210	159	1			

- Molecule 39 is a protein called 50S ribosomal protein L21.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
39	BS	100	Total	C	N	O	S	0	0	0
			787	495	146	145	1			
39	DS	100	Total	C	N	O	S	0	0	0
			787	495	146	145	1			

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
39	FS	100	Total	C	N	O	S	0	0	0
			787	495	146	145	1			
39	HS	100	Total	C	N	O	S	0	0	0
			787	495	146	145	1			
39	JS	100	Total	C	N	O	S	0	0	0
			787	495	146	145	1			

- Molecule 40 is a protein called 50S ribosomal protein L22.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
40	BT	130	Total	C	N	O	S	0	0	0
			1039	653	203	181	2			
40	DT	130	Total	C	N	O	S	0	0	0
			1039	653	203	181	2			
40	FT	130	Total	C	N	O	S	0	0	0
			1039	653	203	181	2			
40	HT	130	Total	C	N	O	S	0	0	0
			1039	653	203	181	2			
40	JT	130	Total	C	N	O	S	0	0	0
			1039	653	203	181	2			

- Molecule 41 is a protein called 50S ribosomal protein L23.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
41	BU	93	Total	C	N	O	S	0	0	0
			727	458	136	131	2			
41	DU	93	Total	C	N	O	S	0	0	0
			727	458	136	131	2			
41	FU	93	Total	C	N	O	S	0	0	0
			727	458	136	131	2			
41	HU	93	Total	C	N	O	S	0	0	0
			727	458	136	131	2			
41	JU	93	Total	C	N	O	S	0	0	0
			727	458	136	131	2			

- Molecule 42 is a protein called 50S ribosomal protein L24.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
42	BV	113	Total	C	N	O	S	0	0	0
			852	530	166	155	1			
42	DV	113	Total	C	N	O	S	0	0	0
			852	530	166	155	1			

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
42	FV	113	Total	C	N	O	S	0	0	0
			852	530	166	155	1			
42	HV	113	Total	C	N	O	S	0	0	0
			852	530	166	155	1			
42	JV	113	Total	C	N	O	S	0	0	0
			852	530	166	155	1			

- Molecule 43 is a protein called general stress protein Ctc.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
43	BW	173	Total	C	N	O	S	0	0	0
			1328	838	231	253	6			
43	DW	173	Total	C	N	O	S	0	0	0
			1328	838	231	253	6			
43	FW	173	Total	C	N	O	S	0	0	0
			1328	838	231	253	6			
43	HW	173	Total	C	N	O	S	0	0	0
			1328	838	231	253	6			
43	JW	173	Total	C	N	O	S	0	0	0
			1328	838	231	253	6			

- Molecule 44 is a protein called 50S ribosomal protein L27.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
44	BX	86	Total	C	N	O	S	0	0	0
			642	402	124	115	1			
44	DX	86	Total	C	N	O	S	0	0	0
			642	402	124	115	1			
44	FX	86	Total	C	N	O	S	0	0	0
			642	402	124	115	1			
44	HX	86	Total	C	N	O	S	0	0	0
			642	402	124	115	1			
44	JX	86	Total	C	N	O	S	0	0	0
			642	402	124	115	1			

- Molecule 45 is a protein called 50S ribosomal protein L29.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
45	BY	65	Total	C	N	O	S	0	0	0
			526	322	106	96	2			
45	DY	65	Total	C	N	O	S	0	0	0
			526	322	106	96	2			

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
45	FY	65	Total	C	N	O	S	0	0	0
			526	322	106	96	2			
45	HY	65	Total	C	N	O	S	0	0	0
			526	322	106	96	2			
45	JY	65	Total	C	N	O	S	0	0	0
			526	322	106	96	2			

- Molecule 46 is a protein called 50S ribosomal protein L30.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
46	BZ	55	Total	C	N	O	S	4	0	0
			424	264	82	76	2			
46	DZ	55	Total	C	N	O	S	4	0	0
			424	264	82	76	2			
46	FZ	55	Total	C	N	O	S	4	0	0
			424	264	82	76	2			
46	HZ	55	Total	C	N	O	S	4	0	0
			424	264	82	76	2			
46	JZ	55	Total	C	N	O	S	4	0	0
			424	264	82	76	2			

- Molecule 47 is a protein called 50S ribosomal protein L31.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
47	B1	73	Total	C	N	O	S	0	0	0
			604	382	110	108	4			
47	D1	73	Total	C	N	O	S	0	0	0
			604	382	110	108	4			
47	F1	73	Total	C	N	O	S	0	0	0
			604	382	110	108	4			
47	H1	73	Total	C	N	O	S	0	0	0
			604	382	110	108	4			
47	J1	73	Total	C	N	O	S	0	0	0
			604	382	110	108	4			

- Molecule 48 is a protein called 50S ribosomal protein L32.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
48	B2	58	Total	C	N	O	S	0	0	0
			458	281	94	78	5			
48	D2	58	Total	C	N	O	S	0	0	0
			458	281	94	78	5			

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
48	F2	58	Total	C	N	O	S	0	0	0
			458	281	94	78	5			
48	H2	58	Total	C	N	O	S	0	0	0
			458	281	94	78	5			
48	J2	58	Total	C	N	O	S	0	0	0
			458	281	94	78	5			

- Molecule 49 is a protein called 50S ribosomal protein L33.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
49	B3	53	Total	C	N	O	S	0	0	0
			432	274	80	77	1			
49	D3	53	Total	C	N	O	S	0	0	0
			432	274	80	77	1			
49	F3	53	Total	C	N	O	S	0	0	0
			432	274	80	77	1			
49	H3	53	Total	C	N	O	S	0	0	0
			432	274	80	77	1			
49	J3	53	Total	C	N	O	S	0	0	0
			432	274	80	77	1			

- Molecule 50 is a protein called 50S ribosomal protein L34.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
50	B4	46	Total	C	N	O	S	0	0	0
			384	230	91	61	2			
50	D4	46	Total	C	N	O	S	0	0	0
			384	230	91	61	2			
50	F4	46	Total	C	N	O	S	0	0	0
			384	230	91	61	2			
50	H4	46	Total	C	N	O	S	0	0	0
			384	230	91	61	2			
50	J4	46	Total	C	N	O	S	0	0	0
			384	230	91	61	2			

- Molecule 51 is a protein called 50S ribosomal protein L35.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
51	B5	63	Total	C	N	O	S	0	0	0
			496	312	101	78	5			
51	D5	63	Total	C	N	O	S	0	0	0
			496	312	101	78	5			

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
51	F5	63	Total	C	N	O	S	0	0	0
			496	312	101	78	5			
51	H5	63	Total	C	N	O	S	0	0	0
			496	312	101	78	5			
51	J5	63	Total	C	N	O	S	0	0	0
			496	312	101	78	5			

- Molecule 52 is a protein called 50S ribosomal protein L36.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
52	B6	35	Total	C	N	O	S	0	0	0
			285	172	64	45	4			
52	D6	35	Total	C	N	O	S	0	0	0
			285	172	64	45	4			
52	F6	35	Total	C	N	O	S	0	0	0
			285	172	64	45	4			
52	H6	35	Total	C	N	O	S	0	0	0
			285	172	64	45	4			
52	J6	35	Total	C	N	O	S	0	0	0
			285	172	64	45	4			

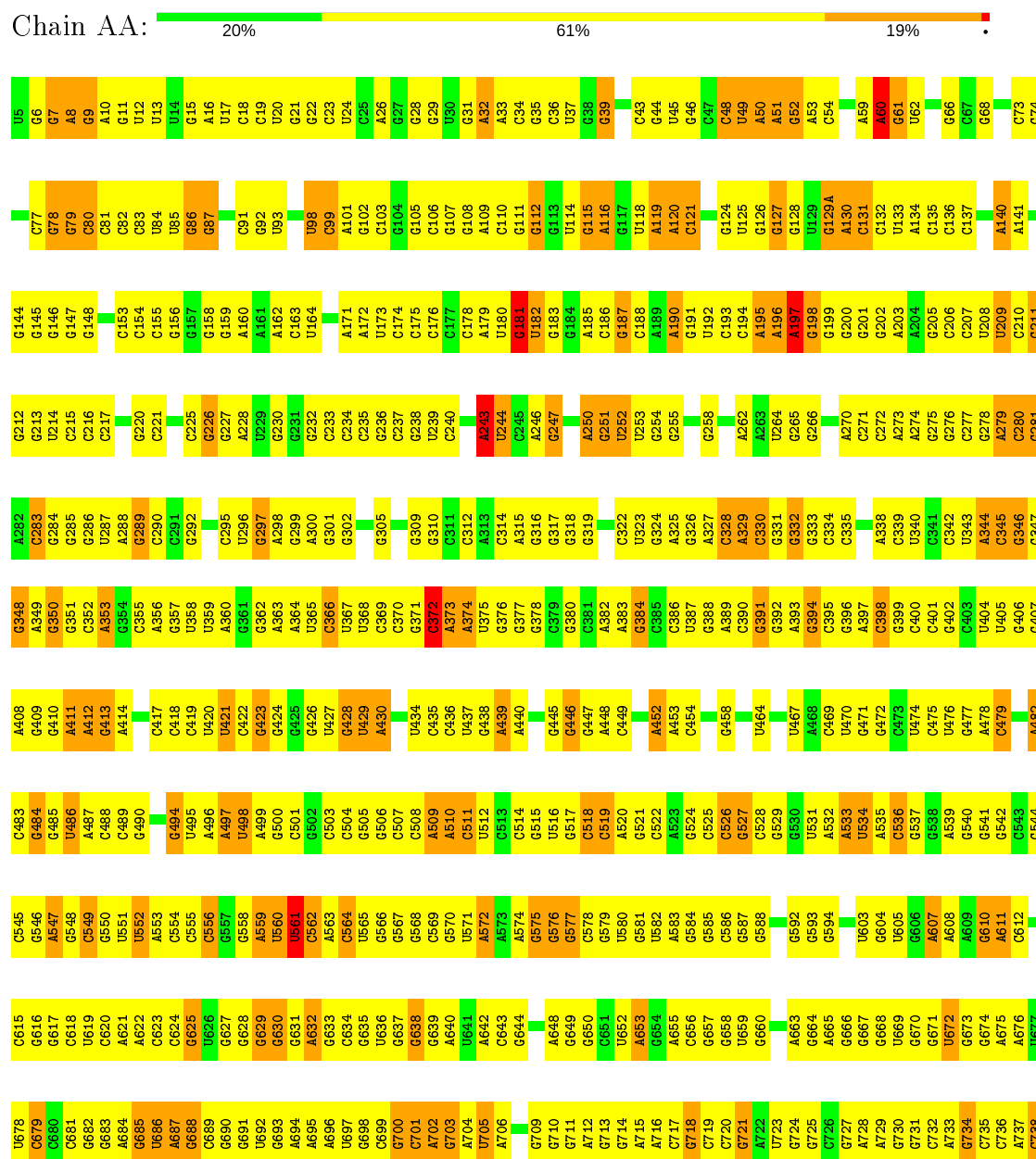
- Molecule 53 is a protein called 50S ribosomal protein L1P.

Mol	Chain	Residues	Atoms						ZeroOcc	AltConf	Trace
53	B7	217	Total	C	N	O	S	Se	0	0	0
			1720	1098	304	313	1	4			
53	D7	217	Total	C	N	O	S	Se	0	0	0
			1720	1098	304	313	1	4			
53	F7	217	Total	C	N	O	S	Se	0	0	0
			1720	1098	304	313	1	4			
53	H7	217	Total	C	N	O	S	Se	0	0	0
			1720	1098	304	313	1	4			
53	J7	217	Total	C	N	O	S	Se	0	0	0
			1720	1098	304	313	1	4			

3 Residue-property plots

These plots are drawn for all protein, RNA and DNA chains in the entry. The first graphic for a chain summarises the proportions of the various outlier classes displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry. Residues are color-coded according to the number of geometric quality criteria for which they contain at least one outlier: green = 0, yellow = 1, orange = 2 and red = 3 or more. Stretches of 2 or more consecutive residues without any outlier are shown as a green connector. Residues present in the sample, but not in the model, are shown in grey.

• Molecule 1: 16S ribosomal RNA



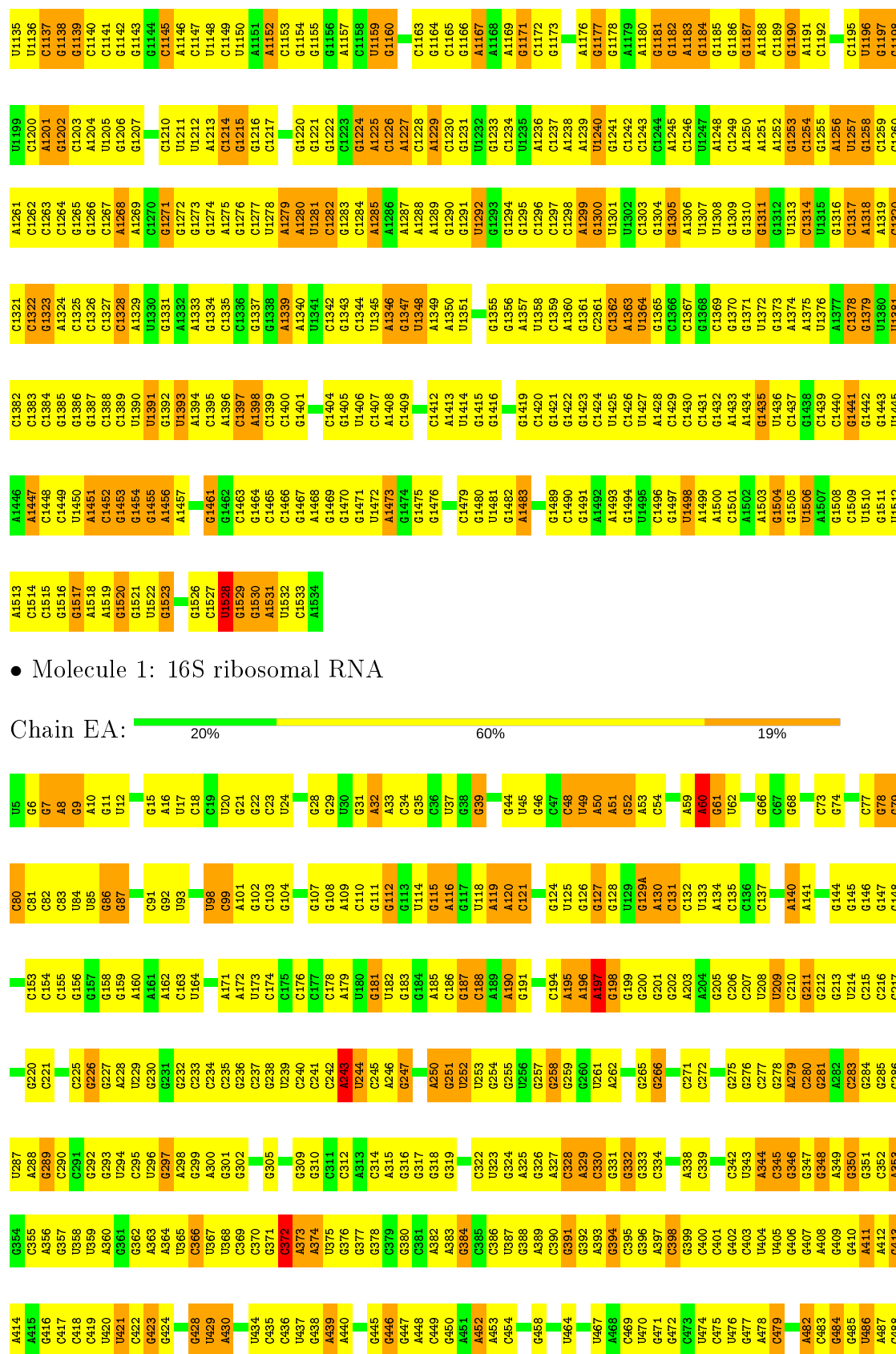
C1440	A1377	G1316	A1256	C1129	C1066	G1002	G939	G876	C809	C739
C1441	C1378	C1317	U1257	C1129	C1066	G1002	G939	G876	C809	C739
C1442	C1379	A1318	U1258	G1130	C1067	G1003	G940	C810	C810	U740
G4443	U1380	A1319	C1259	G1131	C1068	G1003	G941	C811	C811	G741
U1445	U1381	G1320	C1260	G1133	U1070	A1004	G942	C812	C812	G742
A1446	C1382	C1321	A1261	G1134	C1071	C1006	G944	C813	C813	
A1513	C1383	C1322	C1262	U1135	G1072	C1007	G945	A815	A815	C748
C1447	A1348	A1323	C1263	U1136	C1073		G946	A816	A816	C749
C1448	C1384	A1324	A1201	G1137	G1074		G947	C817	C817	U751
C1449	G1385	A1325	C1264	C1138	C1075		G948	G818	G818	G752
U4450	G1386	G1326	G1265	G1139	C1076		G949	A819	A819	A753
A4451	C1387	C1326	G1266	C1140	G1077		U950	G890	U820	A754
C1452	C1388	C1327	U1267	C1141	C1078		G951	G891	G821	G755
A1453	C1389	C1328	A1268	U1142	G1079		U952	C822	C822	C756
A1519	U1390	A1329	C1269	G1143	C1080		G953	C823	G823	U757
C1454	U1391	U1330	C1270	G1144	C1081		G954	G894	G824	G758
A456	G1392	G1331	G1271	C1145	G1082		U955	G895	G825	U759
A1457	U1393	A1332	G1272	A1146	U1083		U956	C896	C826	G760
	A1394	A1333	C1273	U1147	C1084		U957	C897	U827	G761
G1461	C1395	G1334	G1274	C1148	U1085		U958	G898	A828	
C1462	A1396	C1335	A1275	U1149	U1086		G959	C899	A900	G765
U1528	C1397	G1336	G1276	C1150	U1089		U960	A901	A901	U766
G1464	A1398	G1337	U1277	U1151	C1090		U961	G902	G834	A767
C1465	C1399	G1338	U1278	A1152	C1091		G962	G903	U835	
C1466	C1400	A1339	A1279	U1153	C1092		U963	G904	G836	G769
A1467	G1401	A1340	G1280	C1154	C1093		U964	U905	G837	C770
		U1341	U1281	G1155	A1093		A965	G906	C838	G771
C1468	C1404	C1342	C1282	G1156	C1094		G966	A907		U772
G1470	G1405	G1343	G1283	C1157	U1095		C967	A908		
A1471	U1406	A1344	C1284	C1158	C1096		A968	U909	U942	
U1472	C1407	U1345	A1285	C1159	C1097		A969	C910	C943	G775
A1473	C1408	A1346	U1286	G1160	C1098		C970	C911	G852	
G1474	C1409	C1347	A1287	C1161	C1099		G971	U911	C853	
G1475		A1348	A1288		C1100		C972	C912	A845	
G1476		U1349	A1289	C1163	C1101		G973	A913	C846	C779
	A1413	A1350	G1290	C1164	A1101		A974	A914		A780
C1479	U1414	U1351	C1291	C1165	A1102		A975	A915	G851	A781
G1480	G1415	C1352	U1292	G1166	C1103		G976	G916	C852	A782
A1481	G1416	G1353	A1293	A1167			A977	C853	C783	
G1482		C1354	G1294	A1168	G1106		A978	G917	G854	C784
A1483	G1419	G1355	C1295	U1235	C1107		C979	A918	G854	G785
C1484	C1420	G1356	C1296	A1236	G1108		A980	G919	G857	A786
	G1421	A1357	C1297	C1237	C1109		C981	U920		A787
	G1422	U1358	C1298	A1238	A1110		U981	U921	G858	
G1489	G1423	C1359	A1299		A1111		U982	G922	G859	A792
C1490	A1424	A1360	G1300	U1240	C1112		U983	A923	A860	U793
A1492	U1425	G1361	C1301	G1177	C1113		U984	C924	G861	A794
A1493	C1426	C2361	U1302	G1178	C1114		C985	G925	G862	C795
G1494	U1427	C1362	C1303	A1179	C1115		A986	G926	U863	C796
	A1428	A1363	G1304	U1180	C1116		G987	A864	C828	
U1495	C1429	U1364	A1305	G1181	C1117		C988	G928	A865	
C1496	G1430	G1365	C1306	G1182	C1118		C989	C929	G866	G799
A1498	C1431		U1307	U1247	G1119		C990	G867	G867	
C1499	G1432	C1369	U1308	G1184	G1120		C991	C930	C930	U801
A1500	A1433	G1370	G1309	G1185	U1121		U992	C932	G869	A802
A1501	A1434	C1371	C1310	G1186			G993	C933	G870	G803
A1502	G1435	U1372	C1311	U1251	G1124		U994	C934	U871	U804
A1503	U1436	G1373	G1312	A1252	U1125		C995	A935	A872	C905
G1504	C1437	A1374	U1313	C1253	U1126		A996	C936	C936	C906
U1505	G1438	A1375	C1314	G1190	G1127		G1064	A937	G874	A807
U1506	C1439	U1376	U1315	G1191	C1128		U1001	A938	C925	C908

● Molecule 1: 16S ribosomal RNA

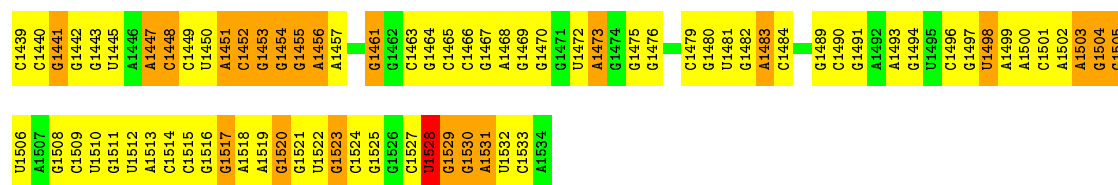
Chain CA: 20% 60% 19%

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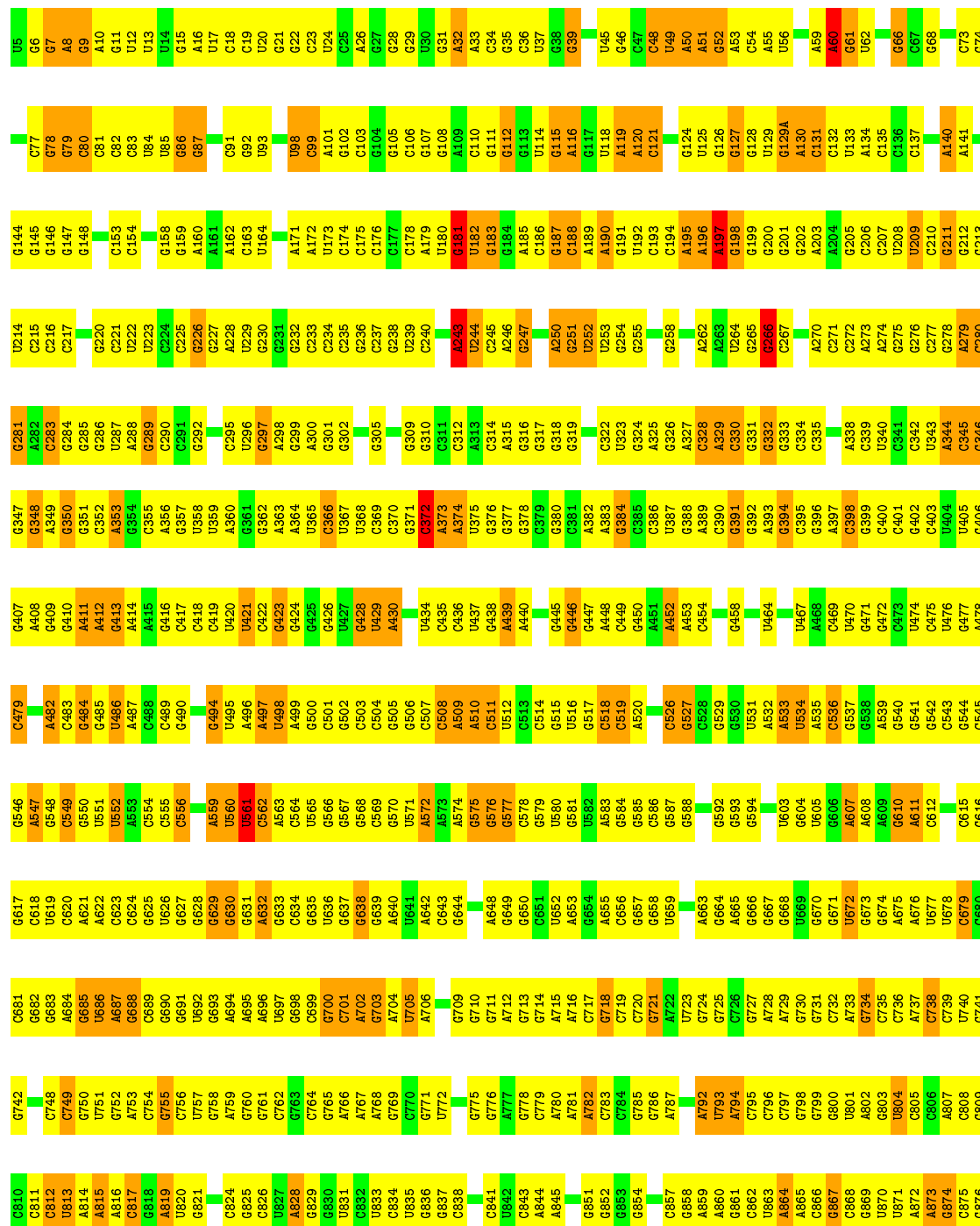
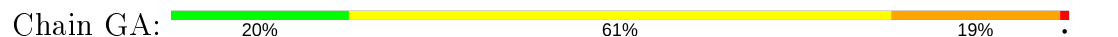
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G1074	G1013	G947	G888	A815	C748	G682	C554	G494	C418	A356	G289	C221	G146	C80
C1075	A1014	C948	A889	A816	C749	G683	C555	G495	C419	U358	C290	C225	C153	C81
G1077	A1015	U950	G890	G818	G752	G685	G557	U495	U420	U359	G291	G226	C154	C82
U1078	A1016	G951	G891	A819	A621	G686	G558	A497	U421	A360	G292	G227	G158	C83
U1079	C1017	U952	A892	U820	A753	G687	U559	U498	C422	A228	G293	A228	G159	U84
A1080	C1018	G953	C893	G821	C754	G688	U560	A499	G423	U229	G294	U229	A160	U85
G1081	C1019	G954	G894	G822	G755	C689	U561	U498	C424	G362	G297	G230	G161	U86
U1082	C1020	U955	G895	G823	C756	G690	A562	U499	G425	A363	G298	G231	A162	C91
U1083	C1021	U956	C896	G824	U757	G691	A563	C501	G426	A364	G299	G232	A163	G92
G1084	C1022	U957	C897	U827	G758	U692	A564	C502	U427	C366	A300	C233	C163	G93
U1085	G1023	A958	G898	A828	A759	G693	U565	C503	G428	C367	G301	C234	U164	U93
U1086	G1024	A959	C899	G829	G760	A694	G566	C504	G429	U367	G302	C235	U165	
	U1025	U960	A900	U833	G761	A695	G567	G505	A430	C369	G303	G236	A171	U98
G1089	C1026	U961	A901	U834	C762	A696	G568	C507	U434	C370	G371	G237	A172	C99
U1090	C1027	C962	G902	C834	G765	G697	C569	C508	C435	G372	G372	G238	U173	A101
U1091	C1028	G963	G903	G634	A766	G698	U571	A509	C436	A373	G373	U239	U174	G102
A1092	U1029	A964	C904	G837	A767	C699	A572	A510	U437	A374	G374	C240	C175	C103
A1093	U1030	A965	U905	C838	A768	G700	A573	C511	G438	U375	G375	C241	C176	G104
G1094	C1031	G966	G906	G839	A769	C701	A574	U512	A439	U376	C376	C242	C177	G105
U1095	G1032	C967	A907	G840	G770	A702	G575	C513	A440	G377	A377	A243	C178	C106
C1096	G1033	A968	A908	C841	C771	G703	G576	C514	G445	G378	A378	C245	A179	G107
C1097	G1034	A969	A909	U842	G772	A704	G577	C515	G446	G379	A379	C246	U180	G108
C1098	A1035	C970	C910	U843	U772	U705	G578	U516	G447	G380	G379	C247	G181	A109
G1099	G1036	G971	U811	A844	G775	A706	C579	G517	G448	G381	G380	G248	U182	C110
C1100	C1037	C972	C912	A845	G776	G709	G580	C518	G449	A382	G381	A250	G183	G111
A1101	C1038	G973	A913	C846	G777	G710	U581	C519	A448	A383	G382	G251	G184	G112
A1102	C1039	A974	A914	G847	C779	G711	G582	A520	C449	G384	G383	U252	C185	U114
C1103	U1040	A975	A915	G848	A780	A712	U583	G521	A452	C385	G384	U253	C186	G115
G1104	C1041	G976	G916	G849	A781	G713	U584	A523	A453	C386	G385	G254	C187	G116
A1105	C1045	A977	G917	G850	A782	G714	G585	C526	C454	U387	A325	G255	C188	G117
G1106	A1046	C979	A918	G851	A783	A715	C586	C527	G458	G388	A327	G256	C189	U118
C1107	G1047	C980	U920	G852	C784	A716	G587	G528	G459	A389	A327	G257	C190	A119
G1108	G1048	U981	U921	G853	C785	C717	G588	C529	U464	C390	A328	G258	C191	A120
C1109	U1049	U982	G922	C854	G786	G718	C589	G530	U465	C391	A329	A262	A195	C121
A1110	G1050	A983	A923	G855	A787	C719	C590	U531	U466	G392	A330	A263	A196	
A1111	C1051	C984	C924	G856	A788	C720	G592	U532	U467	A393	G331	U264	A197	G124
C1112	U1052	C985	G925	A860	A792	G721	G593	A533	A468	G394	G332	G265	C198	U125
C1113	G1053	A986	G926	G861	U793	A722	G594	A534	C469	G395	G333	G266	G199	G126
C1114	C1054	G987	G927	C862	A794	U723	G595	U534	U470	G396	C334	G270	G201	G127
C1115	A1055	G988	G928	U863	C795	G724	G597	A535	G471	A397	C335	A270	G202	U128
C1116	U1056	C989	G929	A864	C796	G725	U598	C536	G472	C398	G336	C271	G203	U129
G1117	G1057	C990	C930	A865	C797	C726	C599	G537	C473	G399	A338	C272	A204	G129A
C1118	C1058	U991	C931	G866	G798	G727	G599	G538	U474	C400	C339	A273	G204	A130
C1119	U992	U992	C932	G867	G799	G728	U603	A539	C475	C401	G342	A274	G205	C131
G1120	C1059	G993	G933	C868	G800	A729	G604	G540	U476	G402	G343	G275	G206	C132
U1121	C1060	A994	C934	G869	U801	G730	U605	G541	G477	C403	U343	G276	G207	U133
	G1061	C995	A835	U870	A802	G731	G606	G542	A478	U404	A344	C277	U208	A134
	U1062	A996	A836	U871	G803	C732	A607	C543	C479	U405	G345	G278	U209	C135
	C1063		C936	U872	U804	A733	A608	G544	G479	G406	G346	A279	C210	G136
	G1064		A937	A873	C734	C734	A609	C545	A482	G407	G347	A280	G211	C137
	C1065		A938	G874	G673	G673	A610	C546	C483	A408	G348	C281	G212	A140
	G1066		G939	G875	G674	G674	A611	G547	A484	G409	A349	A282	G213	A141
	C1067		C940	C876	A675	A675	A612	A548	G485	G410	G350	C283	U214	
	A1068		G941	G877	A676	A676	C613	C549	U486	A411	G351	G284	C215	
	C1069		G942	C877	U677	U677	A614	G550	A487	A412	C352	G285	C216	G144
	U1070		U943	G878	U678	U678	A615	U551	C488	G413	A353	G286	C217	G145
	C1132		C944	C879	C612	C612	C616	U552	C489	A414	G354	U287		G146
	G1133		G945	C880	G616	G616	G616							



A1374	U1313	G1253	G1190	G1127	C1066	G1002	G939	C874	C806	A737	U677	A614	U551	C489
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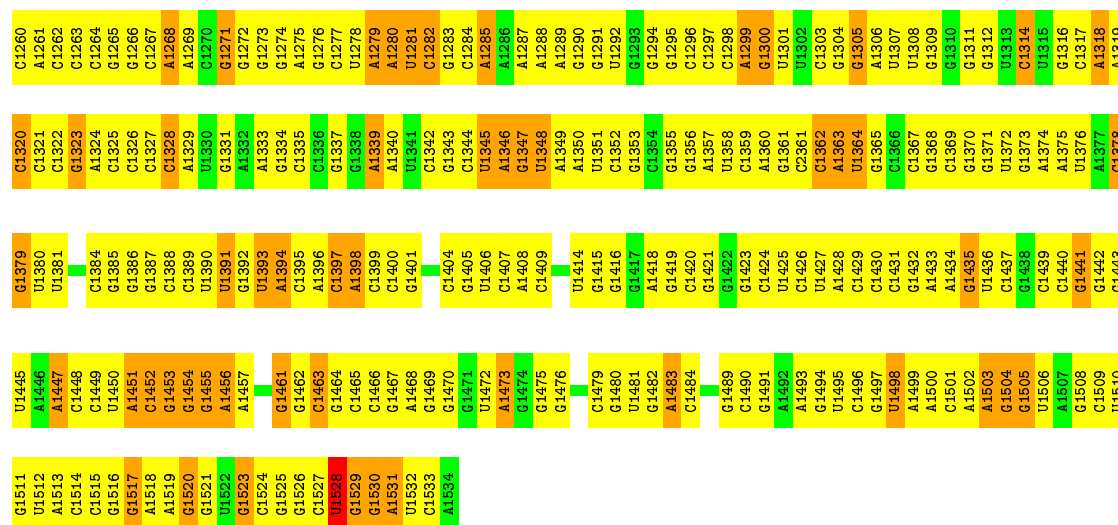


- Molecule 1: 16S ribosomal RNA



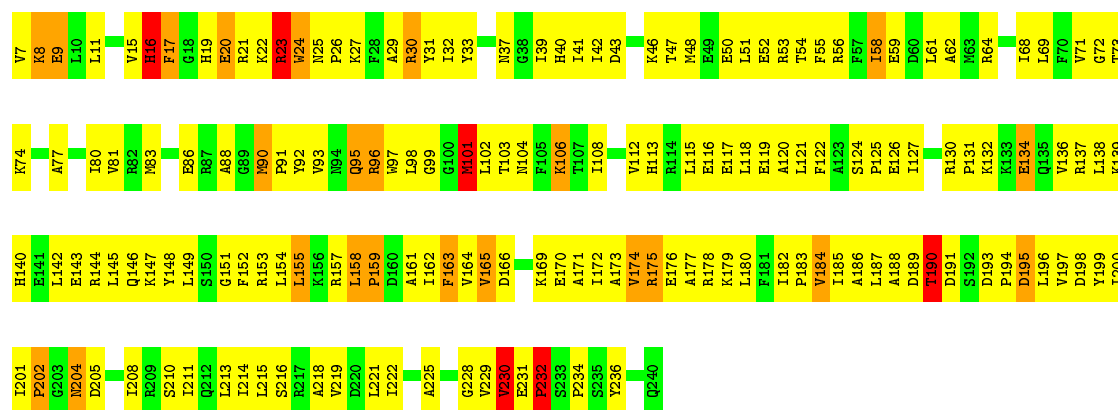
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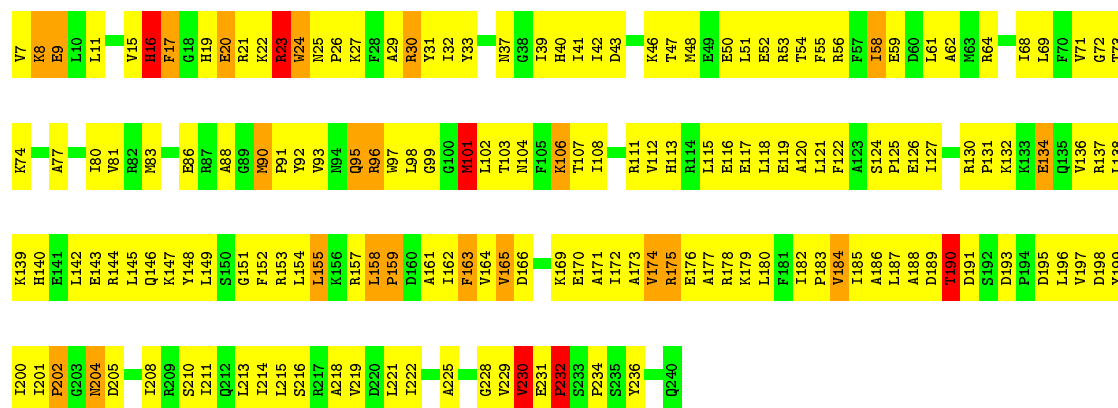
• Molecule 2: 30S ribosomal protein S2

Chain AB: 29% 59% 10%



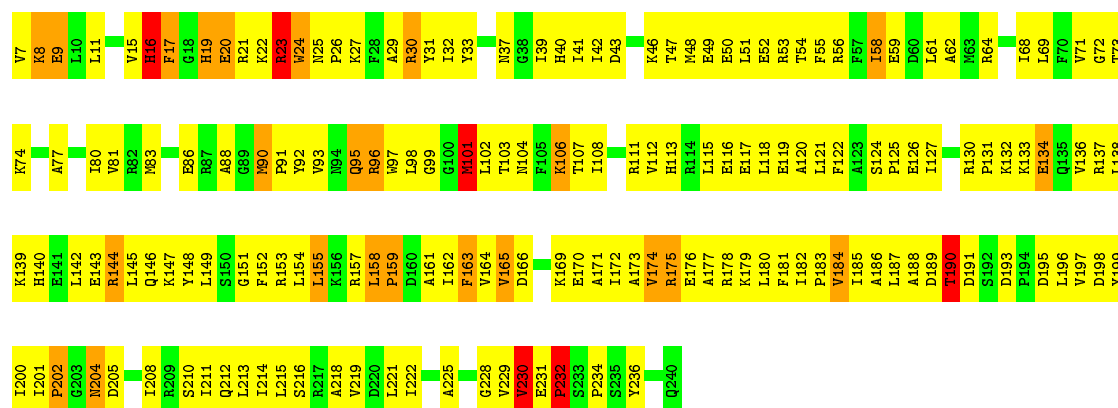
• Molecule 2: 30S ribosomal protein S2

Chain CB: 28% 60% 9%



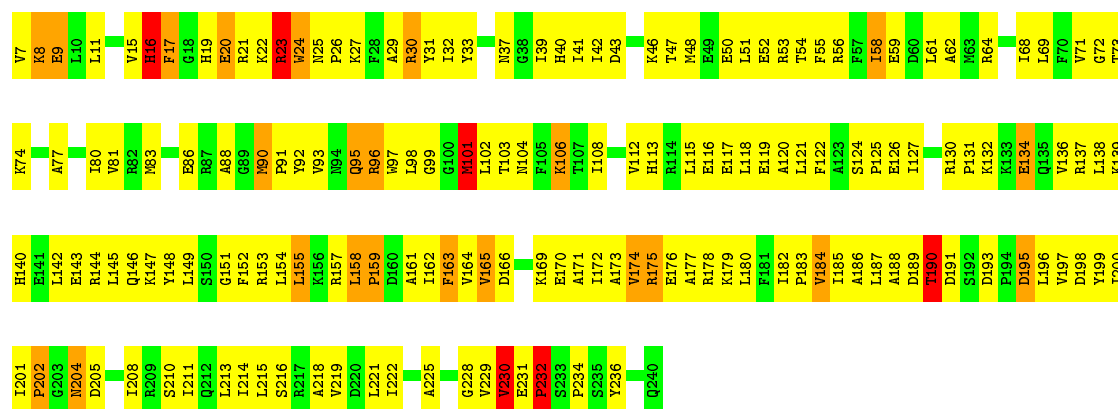
• Molecule 2: 30S ribosomal protein S2

Chain EB:  26% 61% 10%



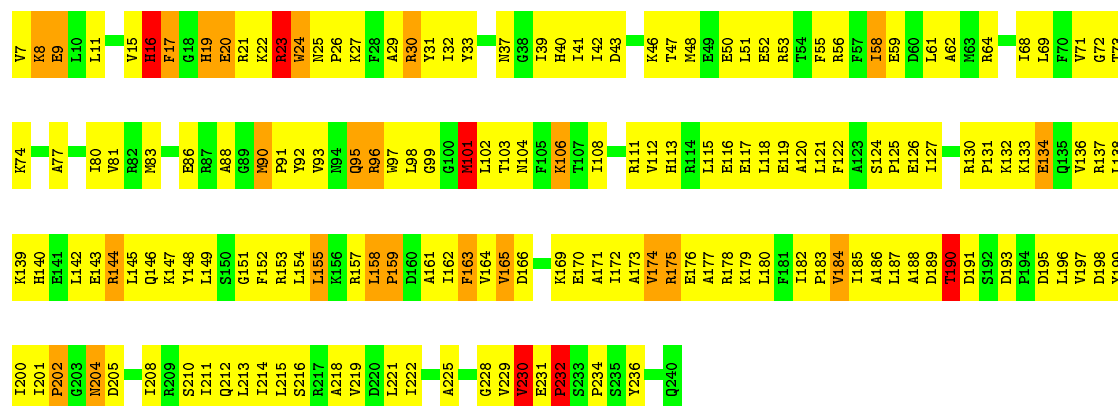
• Molecule 2: 30S ribosomal protein S2

Chain GB:  29% 59% 10%



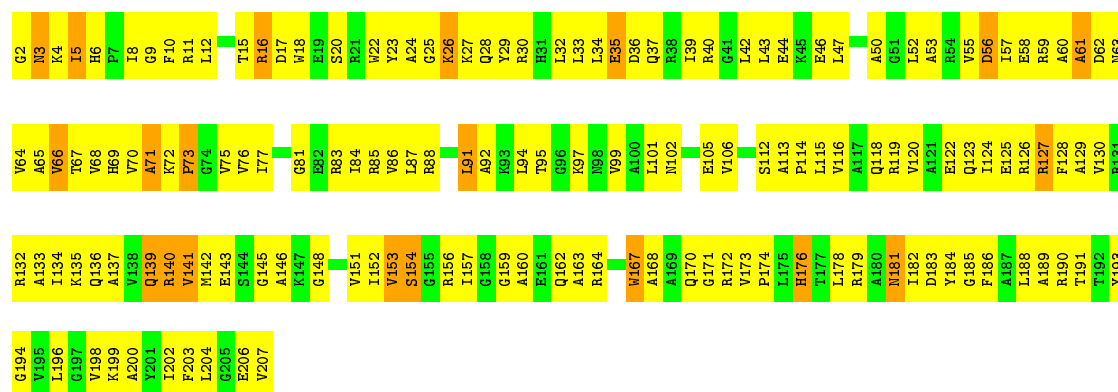
• Molecule 2: 30S ribosomal protein S2

Chain IB:  28% 59% 10%



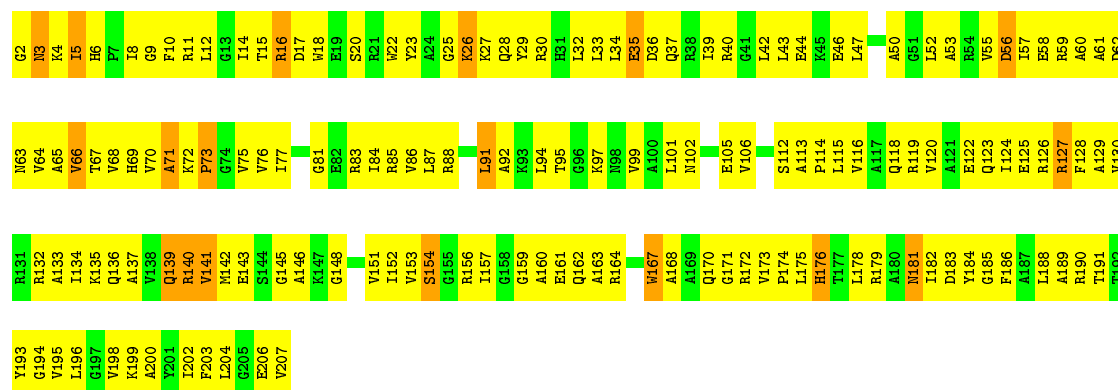
• Molecule 3: 30S ribosomal protein S3

Chain AC: 



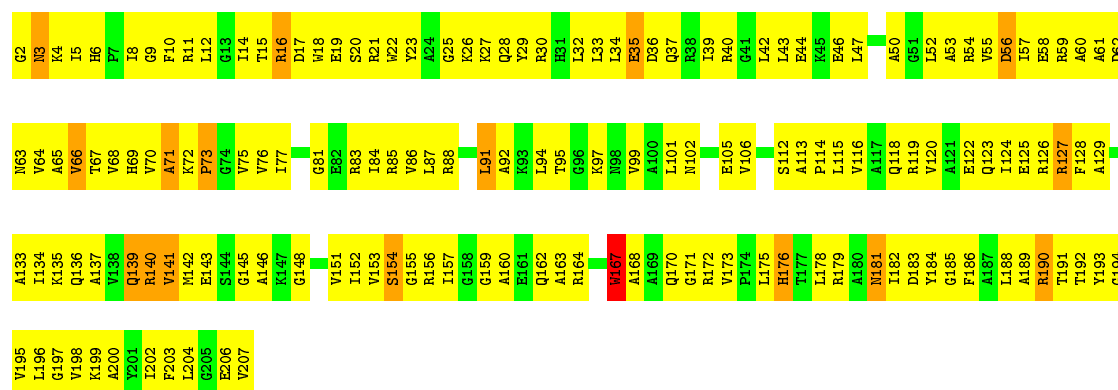
• Molecule 3: 30S ribosomal protein S3

Chain CC: 



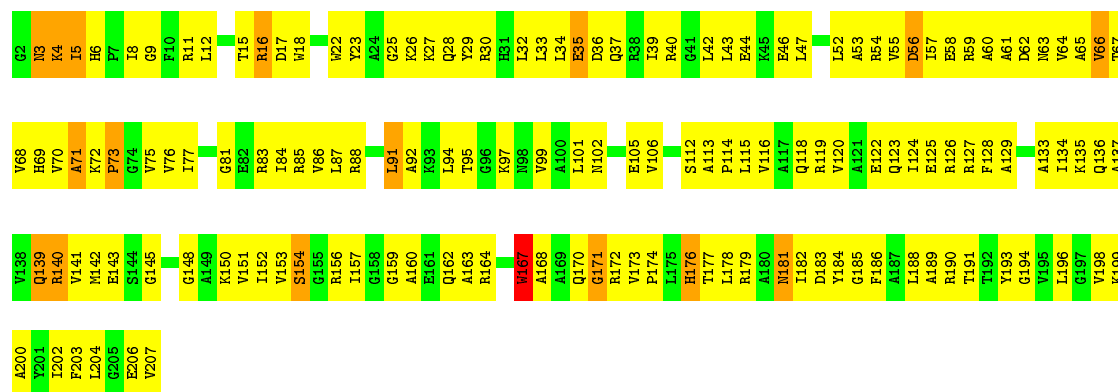
• Molecule 3: 30S ribosomal protein S3

Chain EC: 



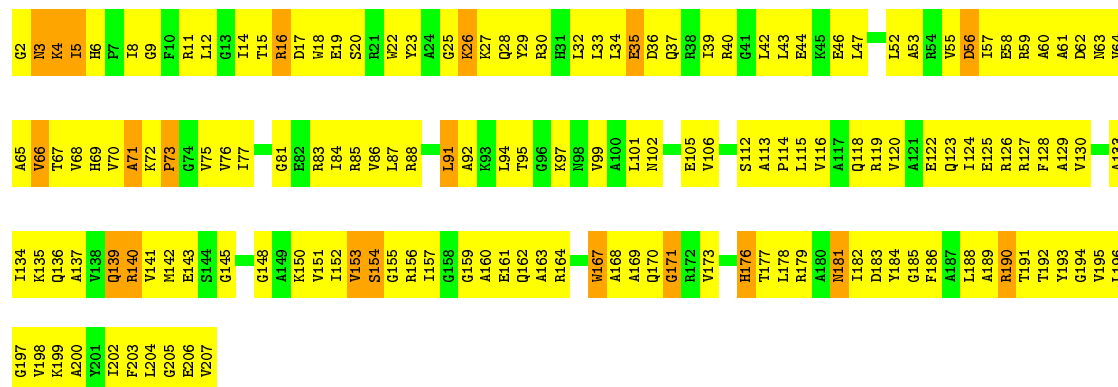
• Molecule 3: 30S ribosomal protein S3

Chain GC: 



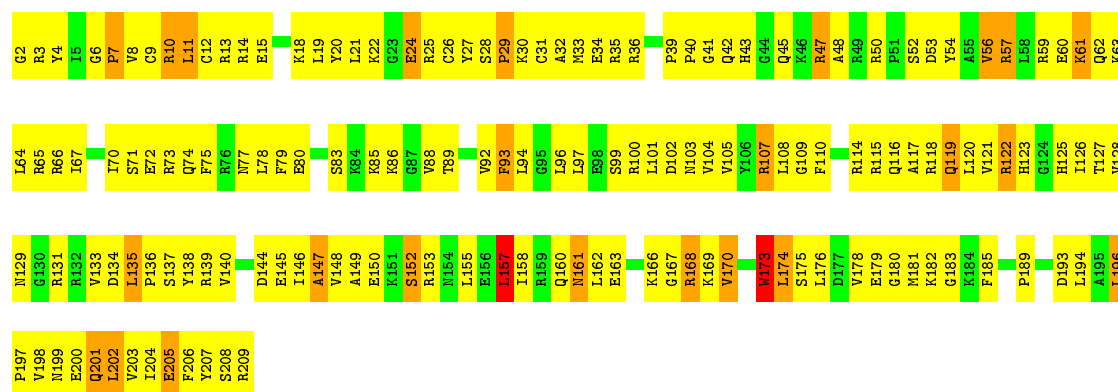
• Molecule 3: 30S ribosomal protein S3

Chain IC: 24% 66% 10%



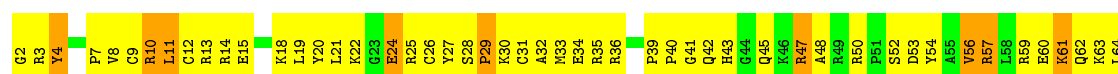
• Molecule 4: 30S ribosomal protein S4

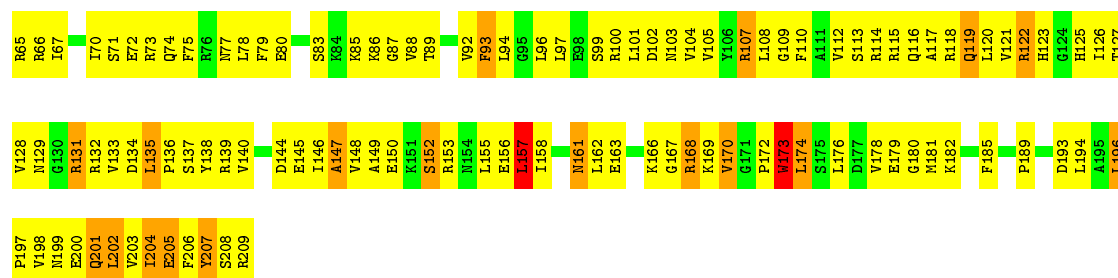
Chain AD: 24% 63% 12%



• Molecule 4: 30S ribosomal protein S4

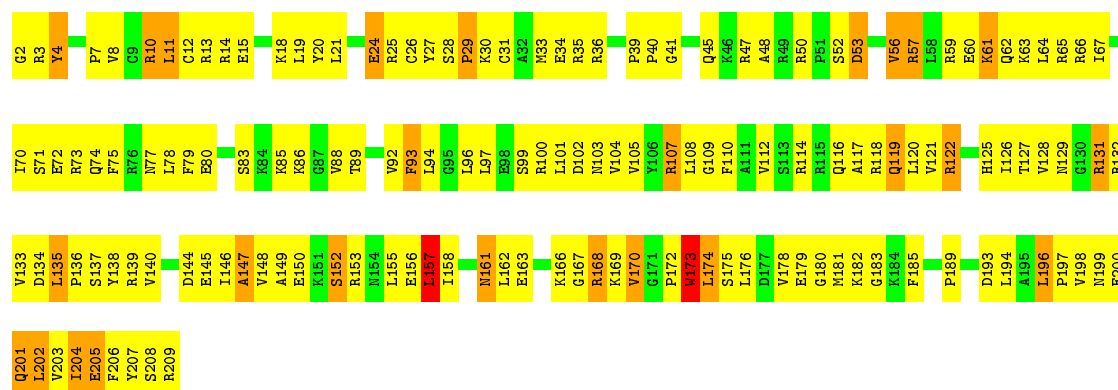
Chain CD: 23% 63% 13%





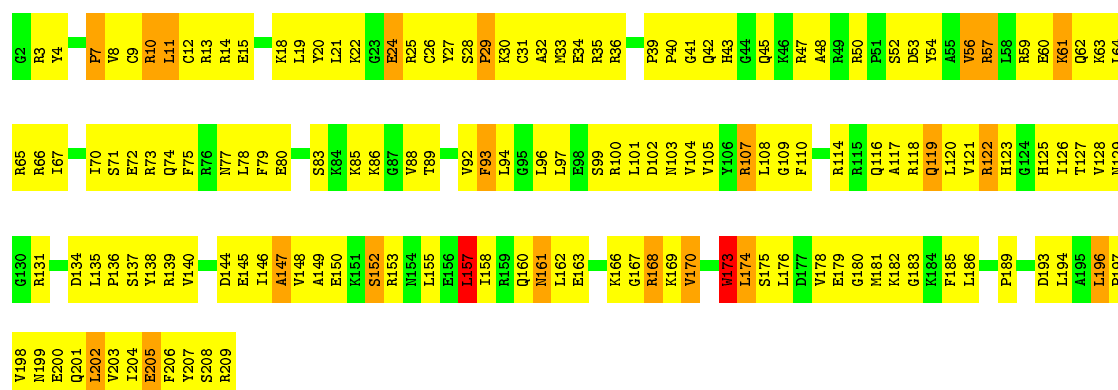
• Molecule 4: 30S ribosomal protein S4

Chain ED: 27% 60% 13%



• Molecule 4: 30S ribosomal protein S4

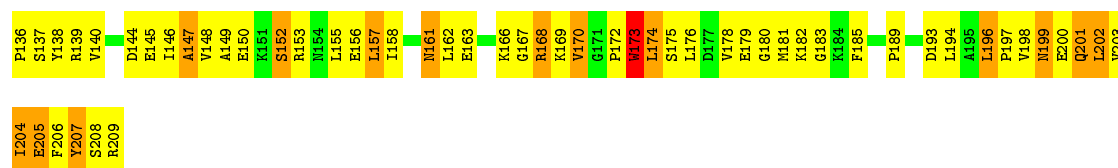
Chain GD: 25% 63% 10%



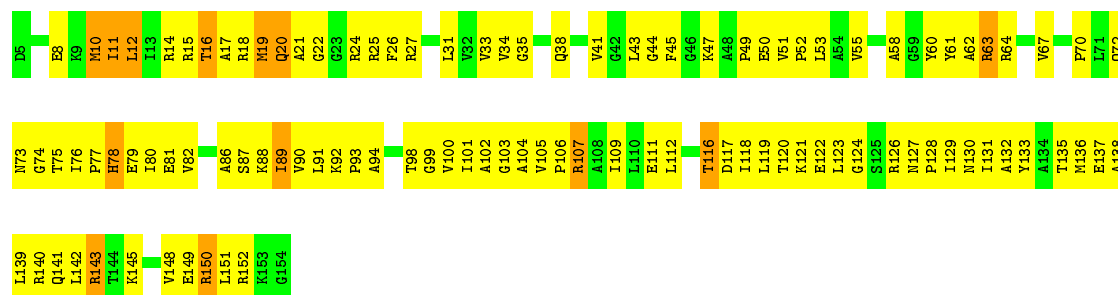
• Molecule 4: 30S ribosomal protein S4

Chain ID: 29% 59% 12%

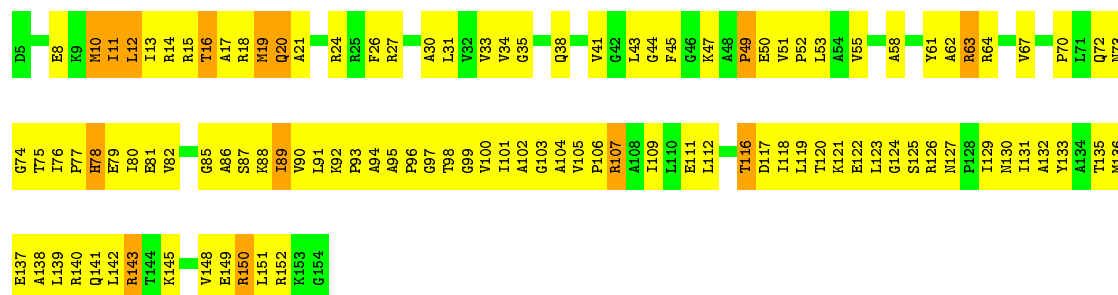
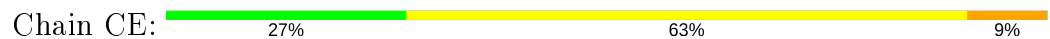




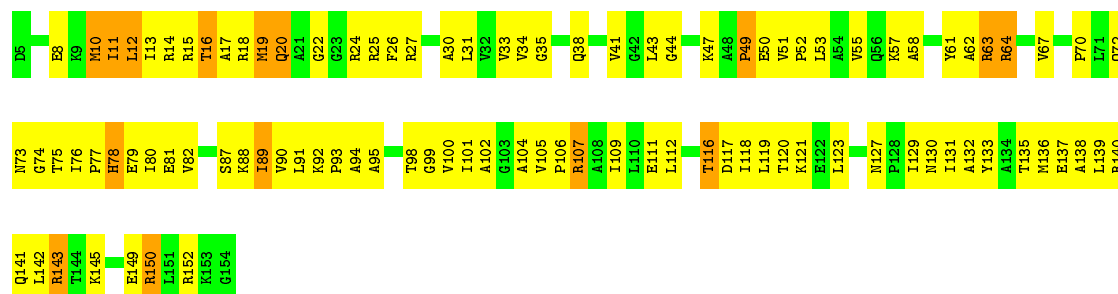
• Molecule 5: 30S ribosomal protein S5



• Molecule 5: 30S ribosomal protein S5

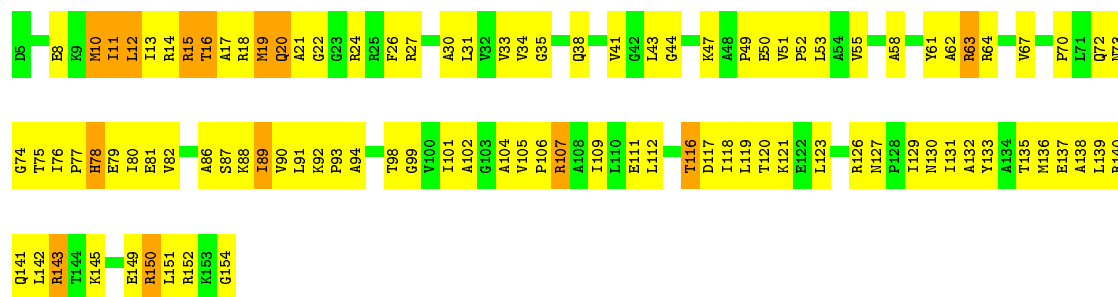


• Molecule 5: 30S ribosomal protein S5

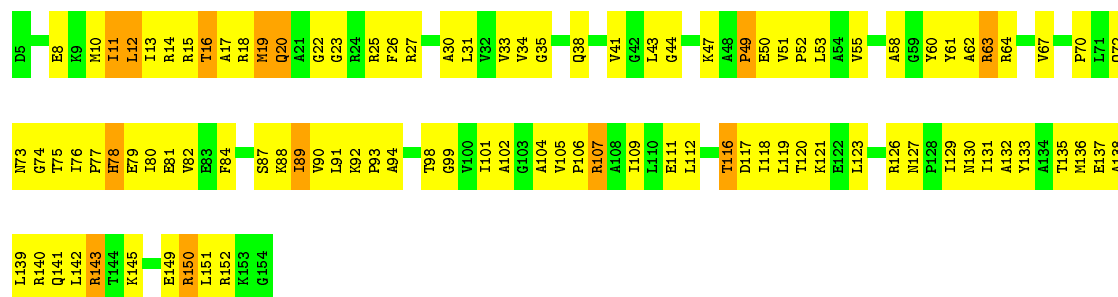


• Molecule 5: 30S ribosomal protein S5

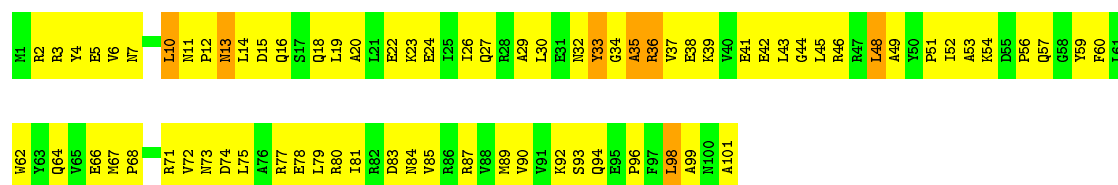




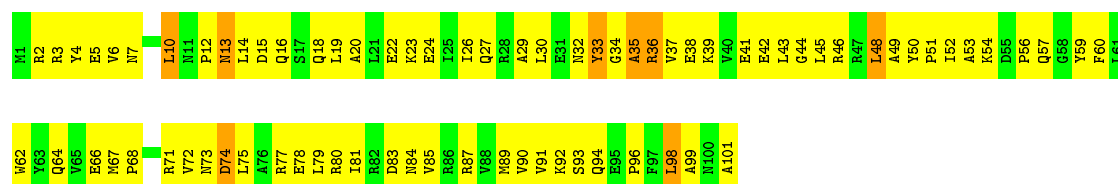
• Molecule 5: 30S ribosomal protein S5



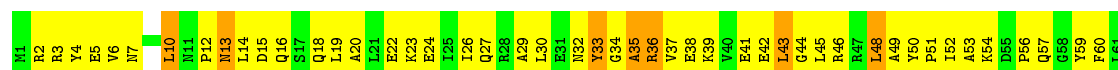
• Molecule 6: 30S ribosomal protein S6

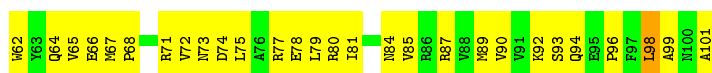


• Molecule 6: 30S ribosomal protein S6

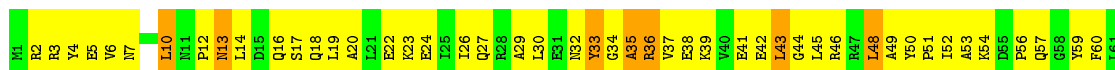


• Molecule 6: 30S ribosomal protein S6

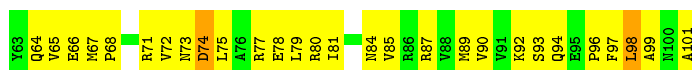
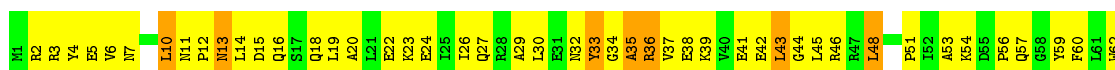




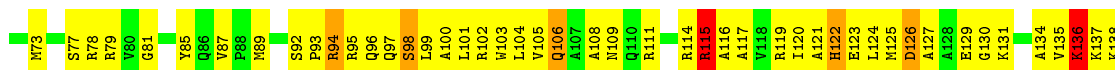
- Molecule 6: 30S ribosomal protein S6



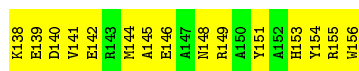
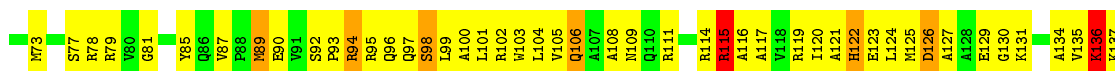
- Molecule 6: 30S ribosomal protein S6



- Molecule 7: 30S ribosomal protein S7

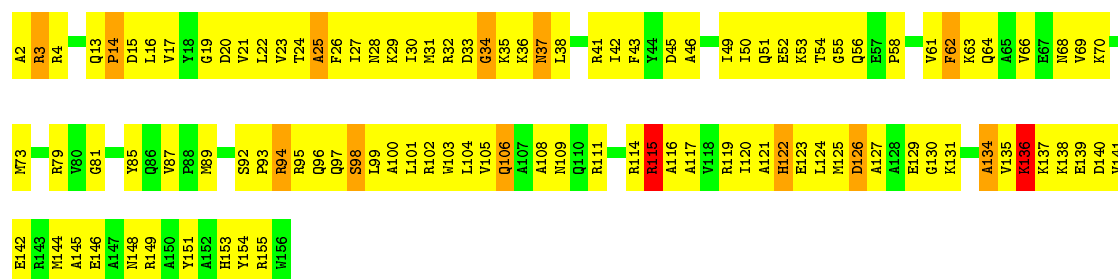


- Molecule 7: 30S ribosomal protein S7



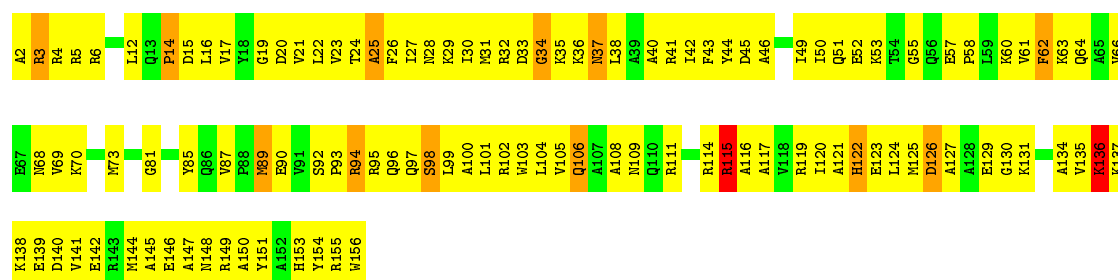
- Molecule 7: 30S ribosomal protein S7

Chain EG: 



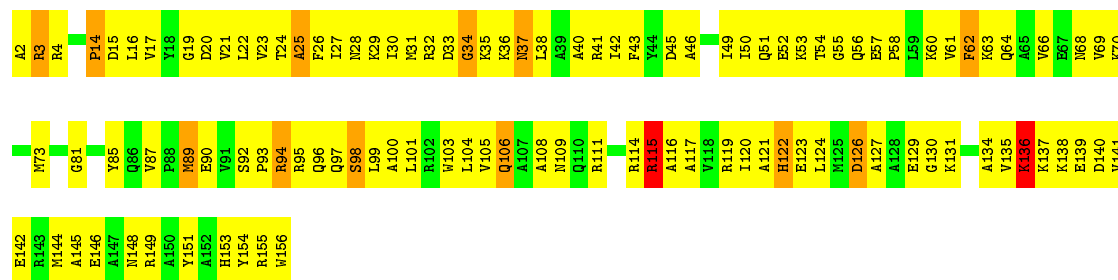
• Molecule 7: 30S ribosomal protein S7

Chain GG: 

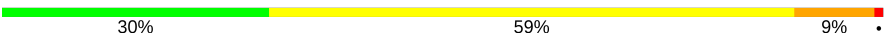


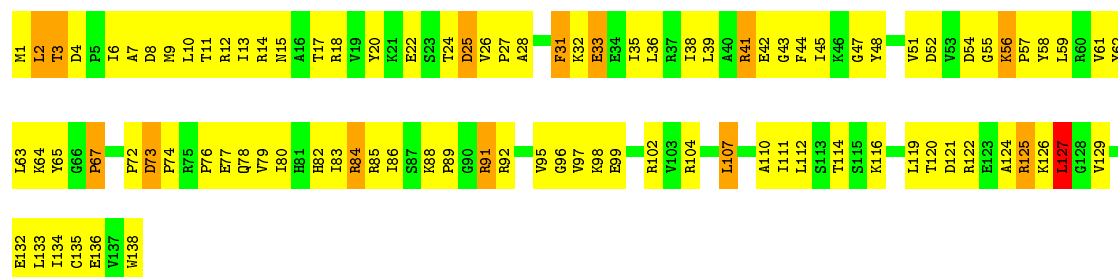
• Molecule 7: 30S ribosomal protein S7

Chain IG: 

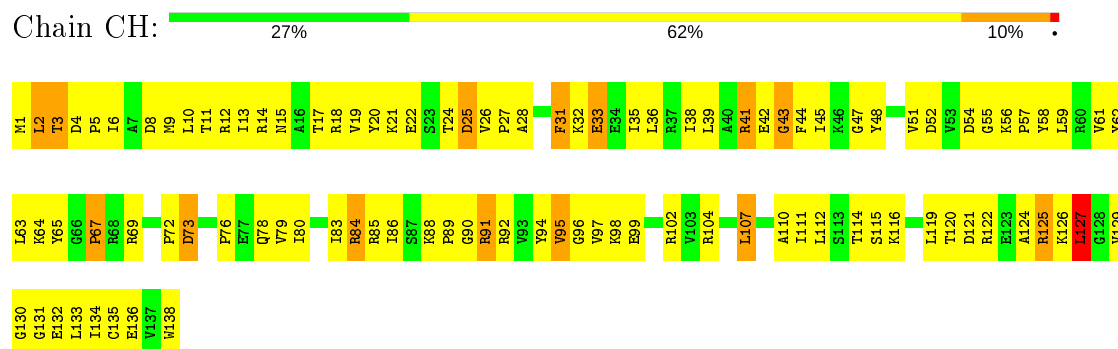


• Molecule 8: 30S ribosomal protein S8

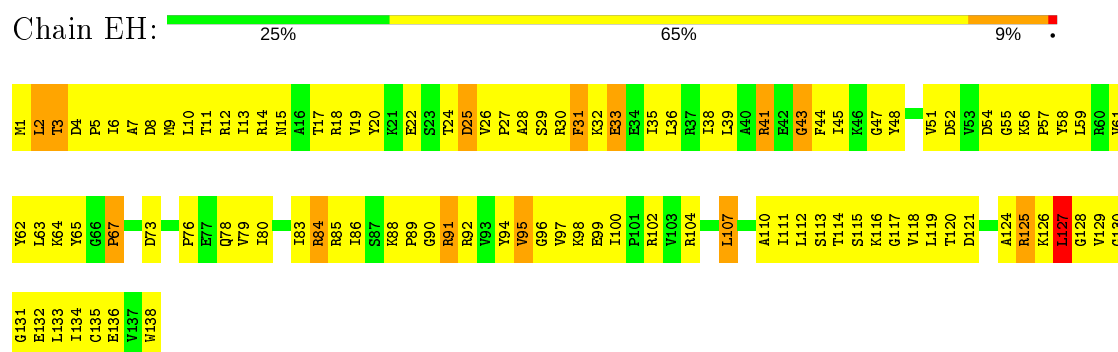
Chain AH: 



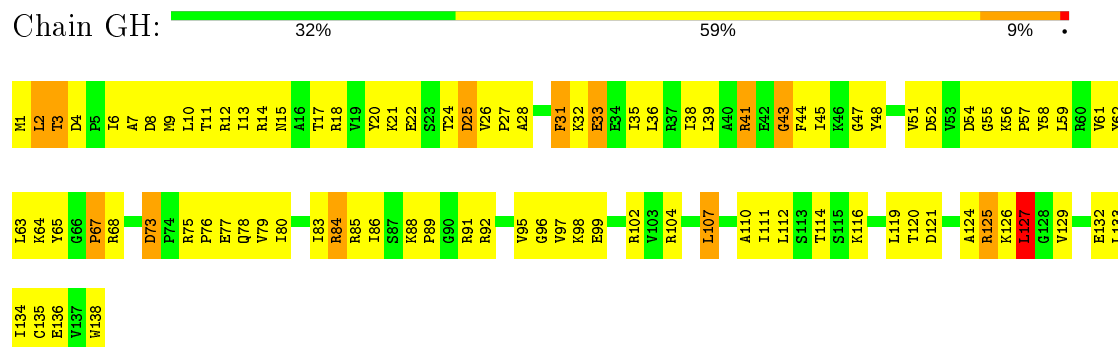
- Molecule 8: 30S ribosomal protein S8



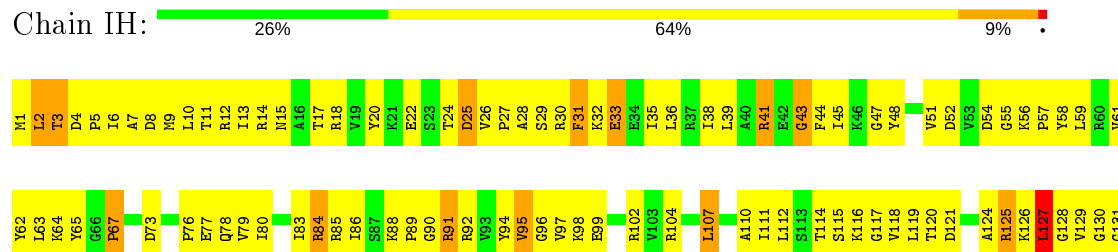
- Molecule 8: 30S ribosomal protein S8



- Molecule 8: 30S ribosomal protein S8



- Molecule 8: 30S ribosomal protein S8



E132
L133
I134
C135
E136
V137
W138

• Molecule 9: 30S ribosomal protein S9

Chain AI: 22% 61% 17%

E2 Q3 Y4 Y5 G6 T7 G8 R9 R10 K11 K12 E12 A13 A14 V14 A15 A16 R16 F17 V17 F18 F19 L19 R20 R21 G22 N23 G24 G25 R25 V26 T27 T28 V29 N29 N30 G31 Q31 D32 F33 F34 N34 E35 Y36 F37 F38 Q38 G39 L40 V41 A42 A43 A44 A45 A46 A47 E48 P49 L50 R51 A52 V53 D54 A55 L56 G57 A58 F59 D60 A61

Y62 I63 T64 V65 R66 G67 G68 G69 K70 S71 G72 G73 Q74 I74 D75 A76 A77 I77 F78 K79 L79 G80 I81 A82 R83 N84 G84 L85 V86 N89 Y92 R93 A94 K95 L96 R97 P98 L102 T103 R104 A106 A107 V108 V109 E110 R111 K116 H117 K118 A119 R120 A121 A122 P123 Q124 Y125 R128

• Molecule 9: 30S ribosomal protein S9

Chain CI: 23% 60% 17%

E2 Q3 Y4 Y5 G6 T7 G8 R9 R10 K11 K12 E12 A13 A14 V14 A15 A16 R16 F17 V17 F18 F19 L19 R20 R21 G22 N23 G24 G25 R25 V26 T27 T28 V29 N29 N30 G31 Q31 D32 F33 F34 N34 E35 Y36 F37 F38 Q38 G39 L40 V41 A42 A43 A44 A45 A46 A47 E48 P49 L50 R51 A52 V53 D54 A55 L56 G57 A58 F59 D60 A61

Y62 I63 T64 V65 R66 G67 G68 G69 K70 S71 G72 G73 Q74 I74 D75 A76 A77 I77 F78 K79 L79 G80 I81 A82 R83 N84 G84 L85 V86 N89 Y92 R93 A94 K95 L96 R97 P98 L102 T103 R104 A106 A107 V108 V109 E110 R111 K112 K113 K116 H117 K118 A119 R120 A121 A122 P123 Q124 Y125 S126

K127 R128

• Molecule 9: 30S ribosomal protein S9

Chain EI: 24% 60% 16%

E2 Q3 Y4 Y5 G6 T7 G8 R9 R10 K11 K12 E12 A13 A14 V14 A15 A16 R16 F17 V17 F18 F19 L19 R20 R21 G22 N23 G24 G25 R25 V26 T27 T28 V29 N29 N30 G31 Q31 D32 F33 F34 N34 E35 Y36 F37 F38 Q38 G39 L40 V41 A42 A43 A44 A45 A46 A47 E48 P49 L50 R51 A52 V53 D54 A55 L56 G57 A58 F59 D60 A61

I63 T64 V65 R66 G67 G68 G69 K70 S71 G72 G73 Q74 I74 D75 A76 A77 I77 F78 K79 L79 G80 I81 A82 R83 N84 G84 L85 V86 N89 Y92 R93 A94 K95 L96 R97 P98 L102 T103 R104 A106 A107 V108 V109 E110 R111 K112 K113 K116 H117 K118 A119 R120 A121 A122 P123 Q124 Y125 S126

K127 R128

• Molecule 9: 30S ribosomal protein S9

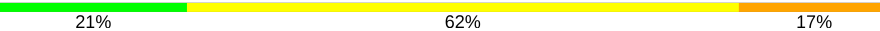
Chain GI: 23% 61% 16%

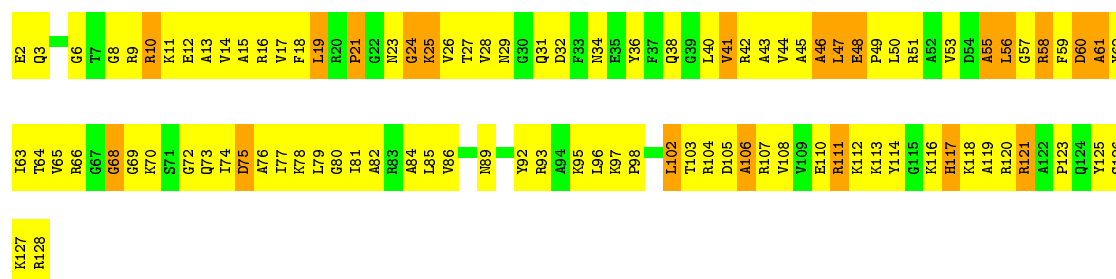
E2 Q3 Y4 Y5 G6 T7 G8 R9 R10 K11 K12 E12 A13 A14 V14 A15 A16 R16 F17 V17 F18 F19 L19 R20 R21 G22 N23 G24 G25 R25 V26 T27 T28 V29 N29 N30 G31 Q31 D32 F33 F34 N34 E35 Y36 F37 F38 Q38 G39 L40 V41 A42 A43 A44 A45 A46 A47 E48 P49 L50 R51 A52 V53 D54 A55 L56 G57 A58 F59 D60 A61

Y62 I63 T64 V65 R66 G67 G68 G69 K70 S71 G72 G73 Q74 I74 D75 A76 A77 I77 F78 K79 L79 G80 I81 A82 R83 N84 G84 L85 V86 N89 Y92 R93 A94 K95 L96 R97 P98 L102 T103 R104 A106 A107 V108 V109 E110 R111 K112 K113 K114 K115 K116 H117 K118 A119 R120 A121 A122 P123 Q124

R128

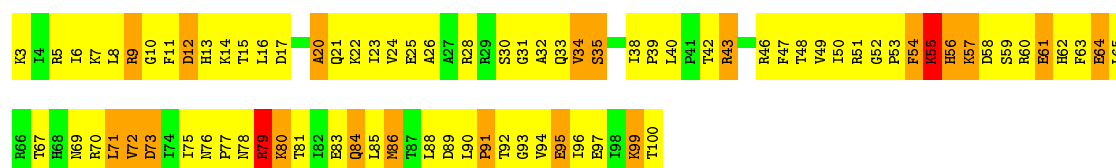
• Molecule 9: 30S ribosomal protein S9

Chain II: 



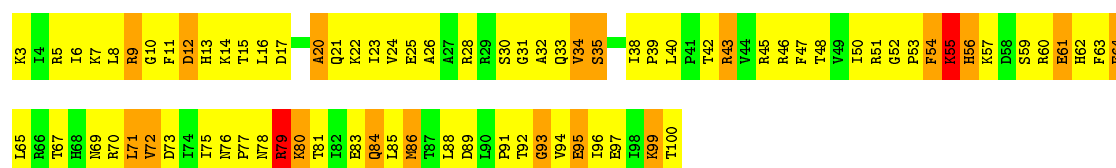
- Molecule 10: 30S ribosomal protein S10

Chain AJ: 



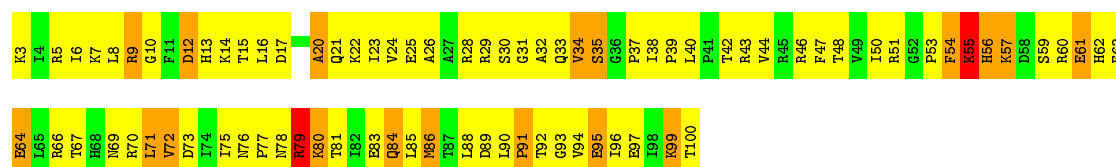
- Molecule 10: 30S ribosomal protein S10

Chain CJ: 

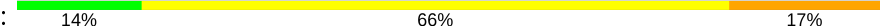


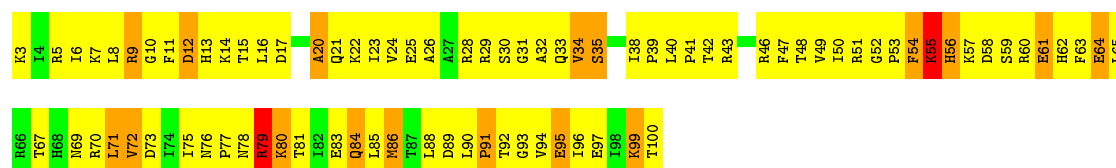
- Molecule 10: 30S ribosomal protein S10

Chain EJ: 

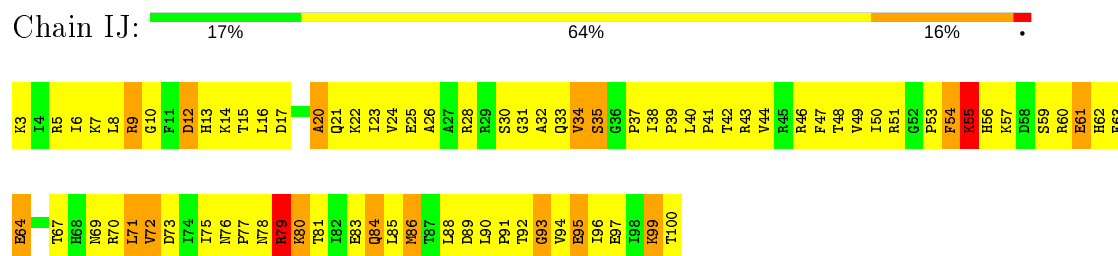


- Molecule 10: 30S ribosomal protein S10

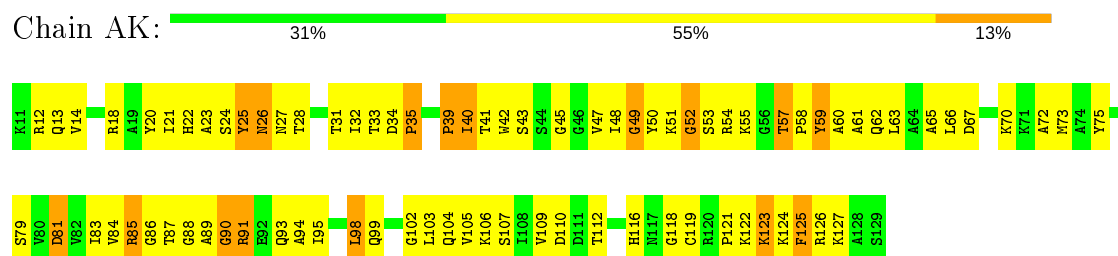
Chain GJ: 



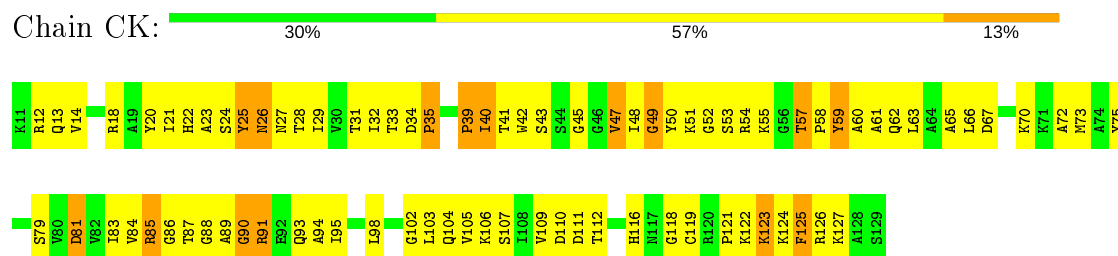
- Molecule 10: 30S ribosomal protein S10



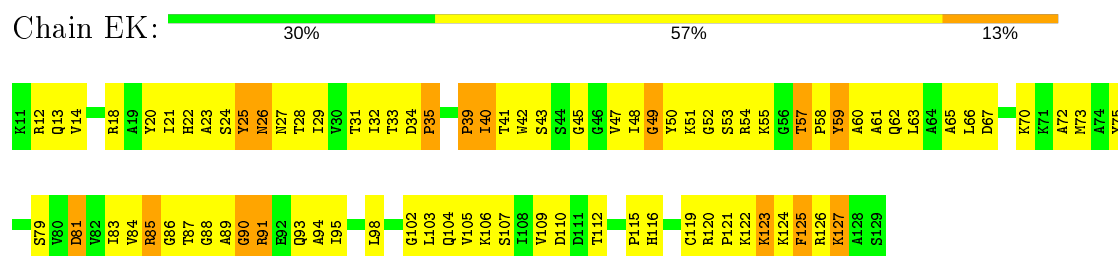
- Molecule 11: 30S ribosomal protein S11



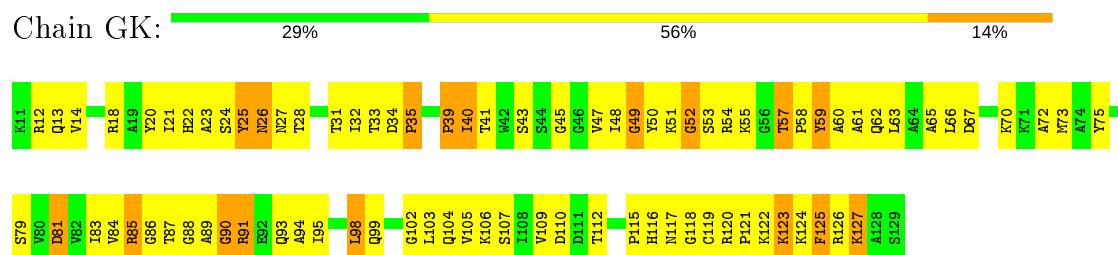
- Molecule 11: 30S ribosomal protein S11



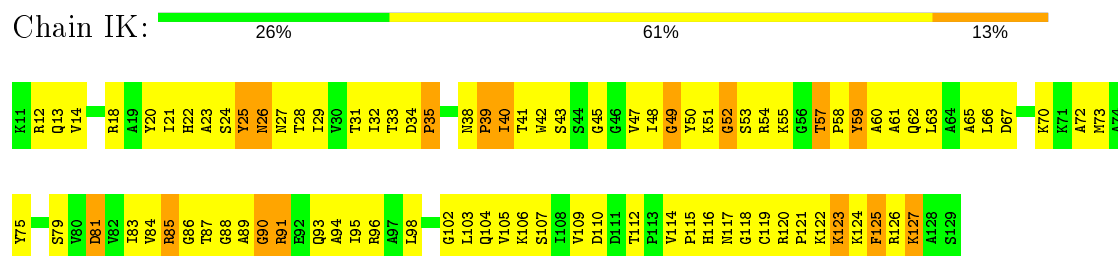
- Molecule 11: 30S ribosomal protein S11



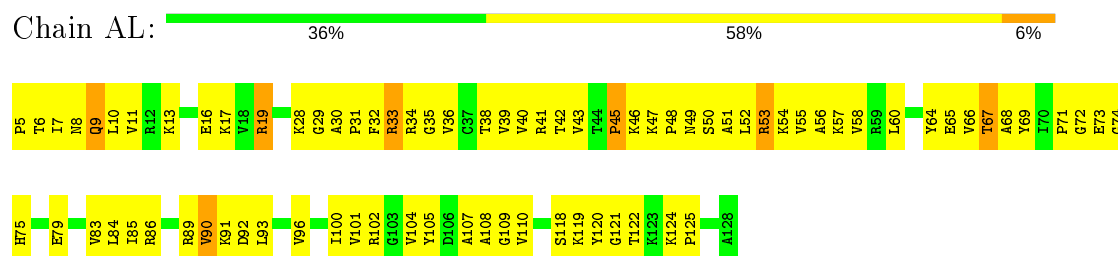
- Molecule 11: 30S ribosomal protein S11



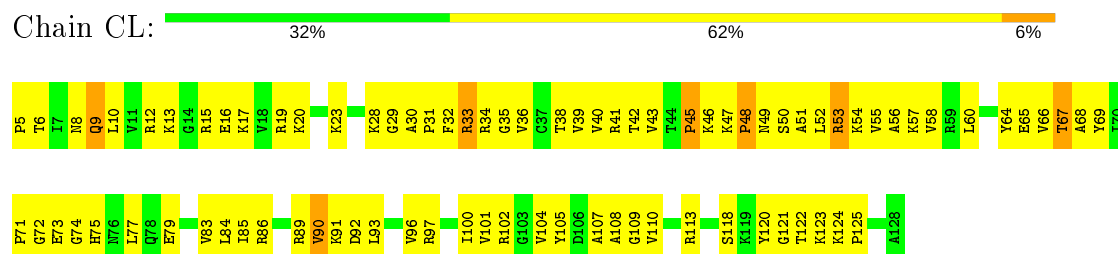
- Molecule 11: 30S ribosomal protein S11



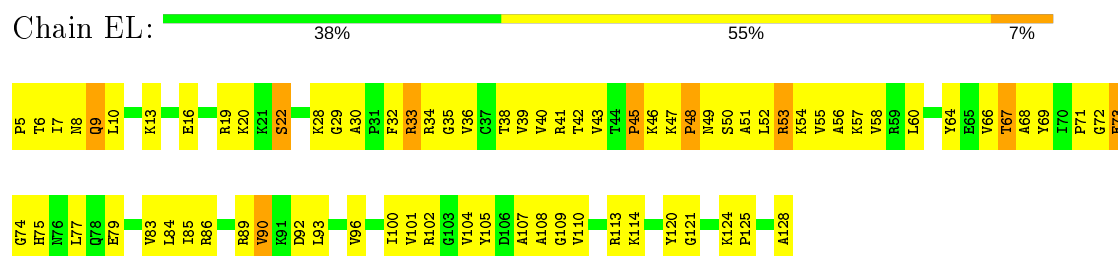
- Molecule 12: 30S ribosomal protein S12



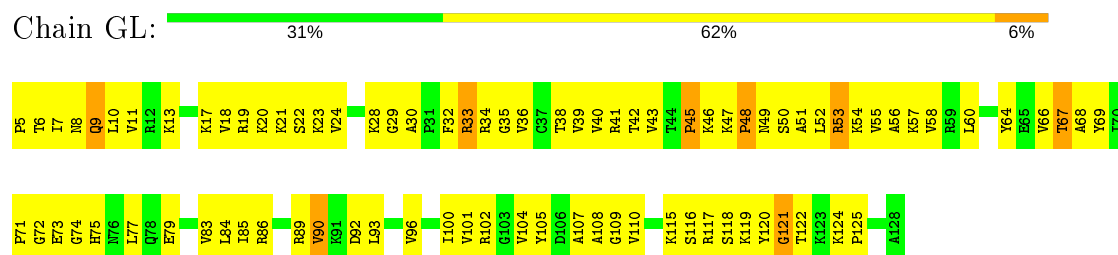
- Molecule 12: 30S ribosomal protein S12



- Molecule 12: 30S ribosomal protein S12



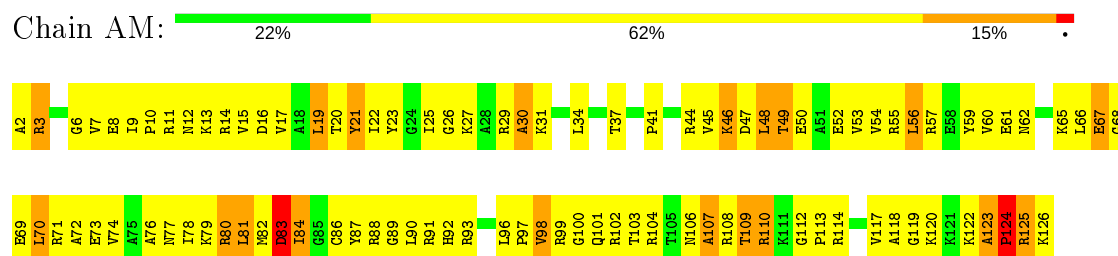
- Molecule 12: 30S ribosomal protein S12



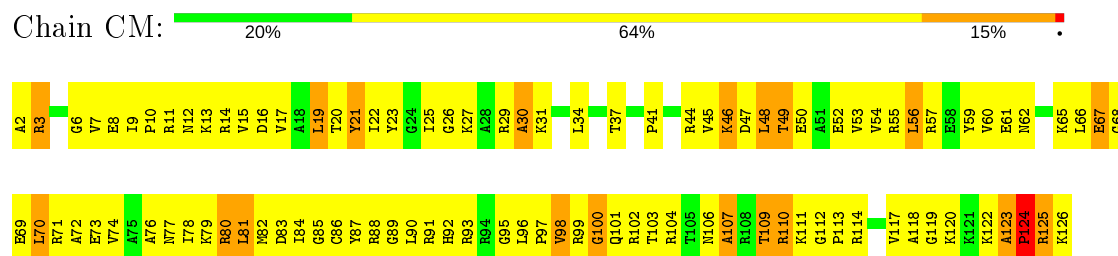
- Molecule 12: 30S ribosomal protein S12



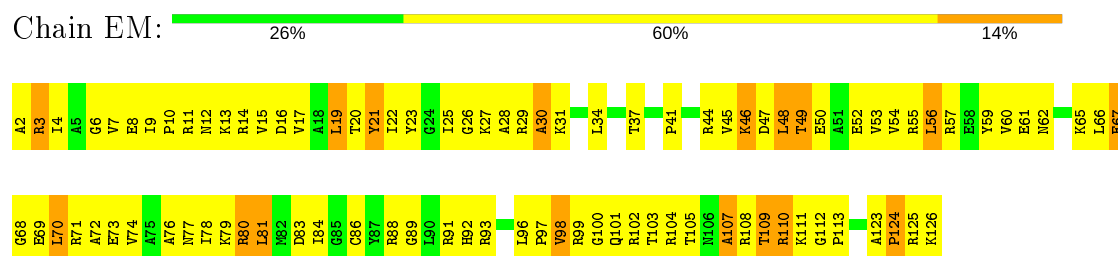
- Molecule 13: 30S ribosomal protein S13



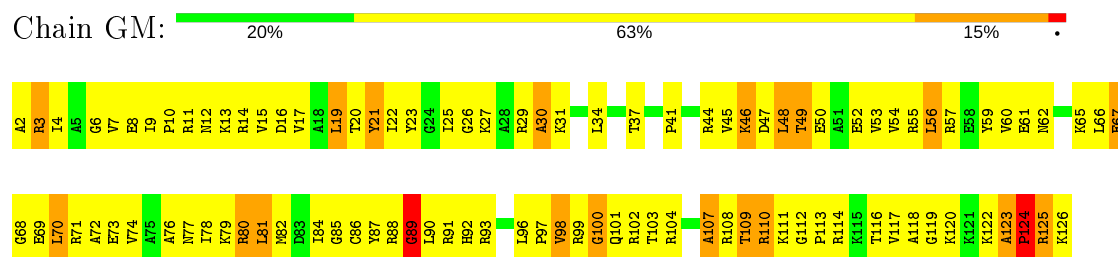
- Molecule 13: 30S ribosomal protein S13



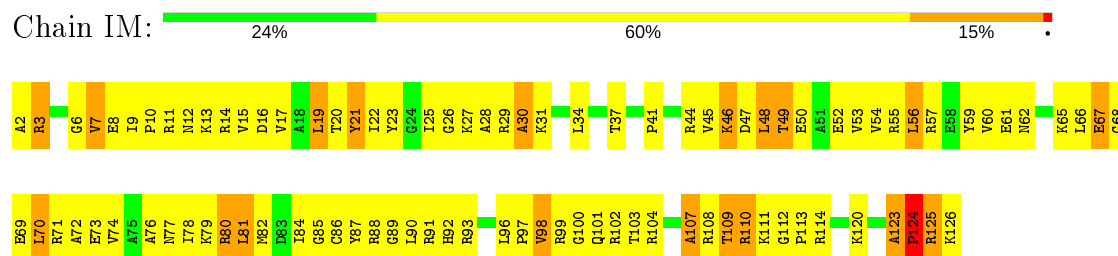
- Molecule 13: 30S ribosomal protein S13



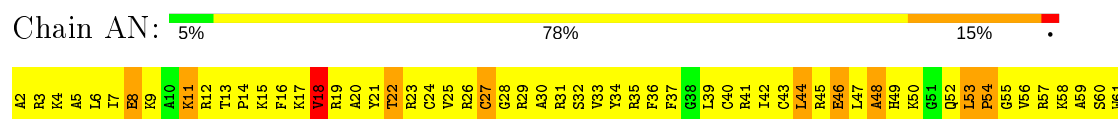
- Molecule 13: 30S ribosomal protein S13



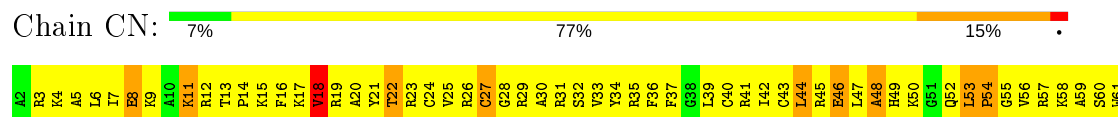
- Molecule 13: 30S ribosomal protein S13



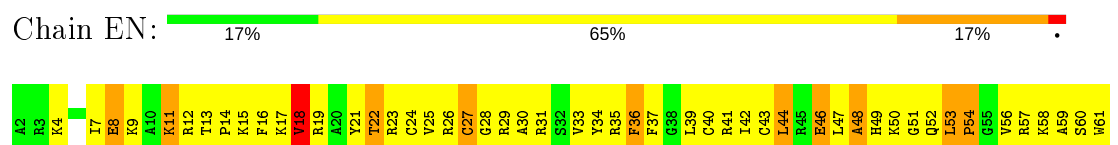
- Molecule 14: 30S ribosomal protein S14



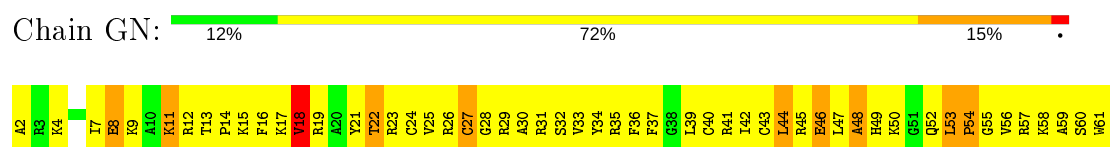
- Molecule 14: 30S ribosomal protein S14



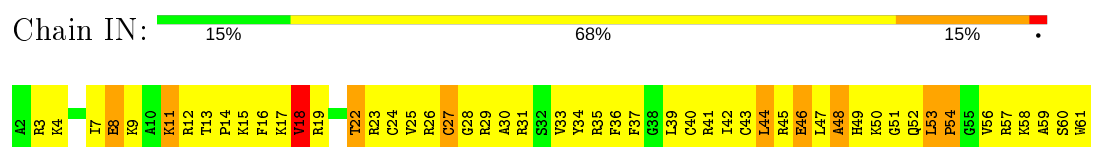
- Molecule 14: 30S ribosomal protein S14



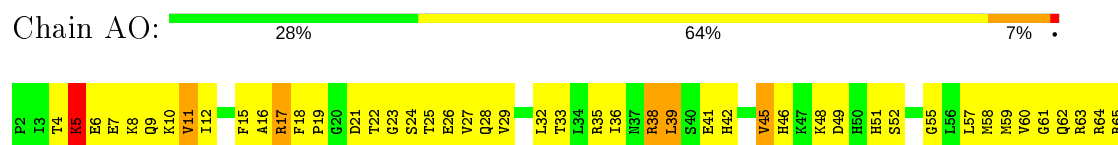
- Molecule 14: 30S ribosomal protein S14



- Molecule 14: 30S ribosomal protein S14



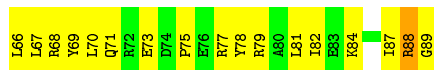
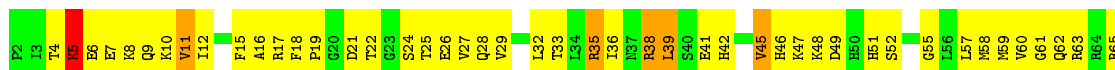
- Molecule 15: 30S ribosomal protein S15





- Molecule 15: 30S ribosomal protein S15

Chain CO: 28% 64% 7%



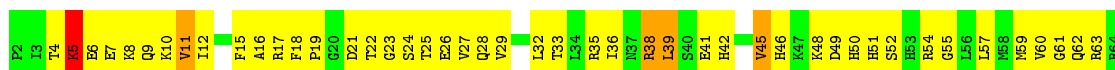
- Molecule 15: 30S ribosomal protein S15

Chain EO: 28% 63% 9%



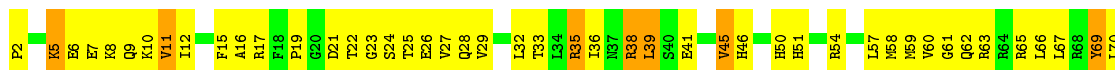
- Molecule 15: 30S ribosomal protein S15

Chain GO: 28% 64% 7%



- Molecule 15: 30S ribosomal protein S15

Chain IO: 34% 57% 9%



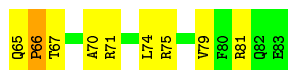
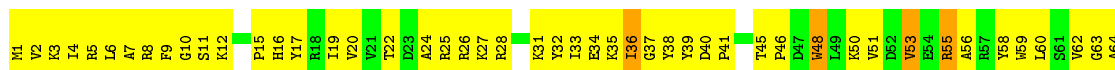
- Molecule 16: 30S ribosomal protein S16

Chain AP: 31% 61% 7%

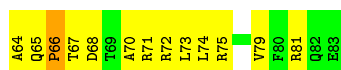




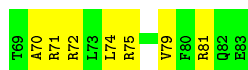
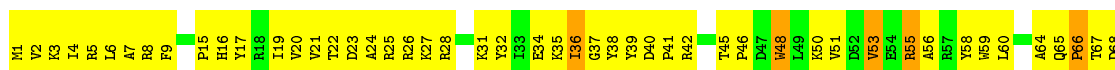
- Molecule 16: 30S ribosomal protein S16



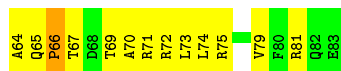
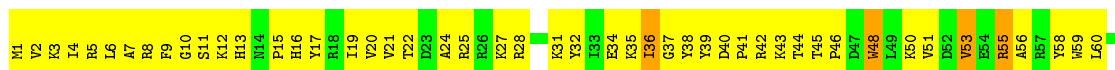
- Molecule 16: 30S ribosomal protein S16



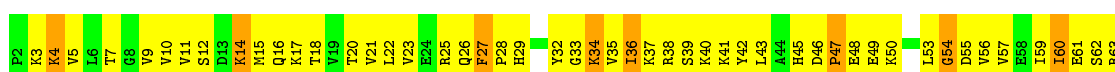
- Molecule 16: 30S ribosomal protein S16



- Molecule 16: 30S ribosomal protein S16

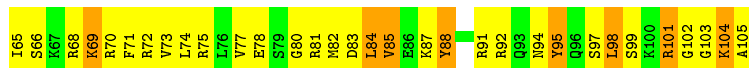
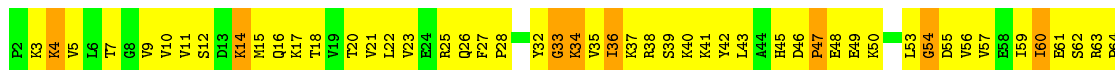


- Molecule 17: 30S ribosomal protein S17

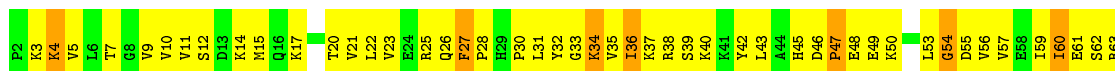




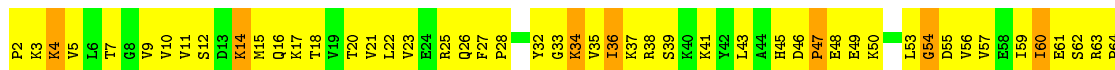
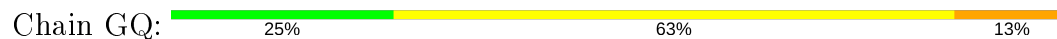
- Molecule 17: 30S ribosomal protein S17



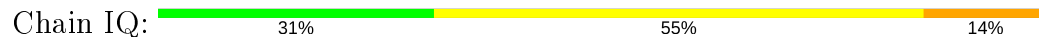
- Molecule 17: 30S ribosomal protein S17



- Molecule 17: 30S ribosomal protein S17

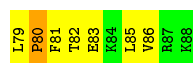


- Molecule 17: 30S ribosomal protein S17



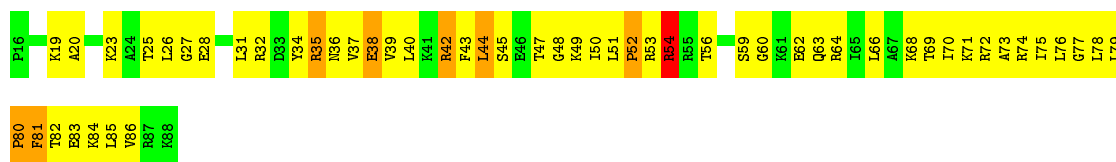
- Molecule 18: 30S ribosomal protein S18





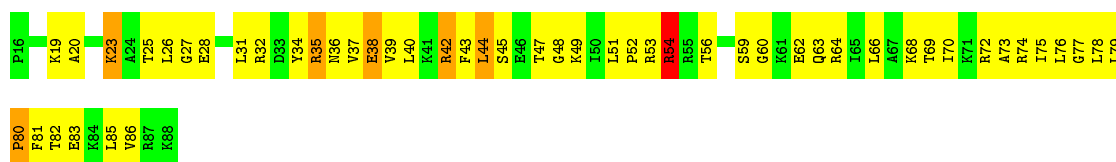
- Molecule 18: 30S ribosomal protein S18

Chain CR: 26% 63% 10% .



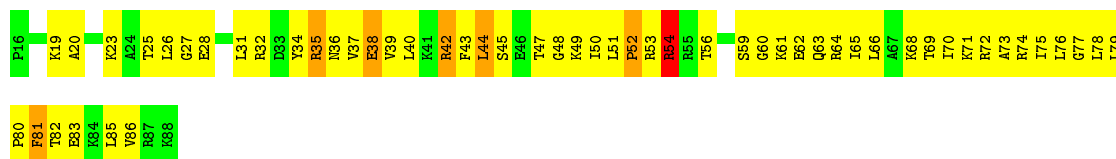
- Molecule 18: 30S ribosomal protein S18

Chain ER: 30% 60% 8% .



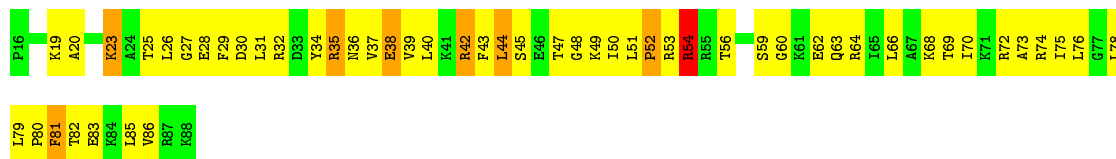
- Molecule 18: 30S ribosomal protein S18

Chain GR: 25% 66% 8% .



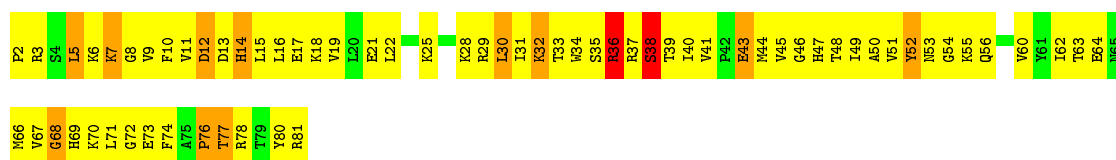
- Molecule 18: 30S ribosomal protein S18

Chain IR: 27% 62% 10% .

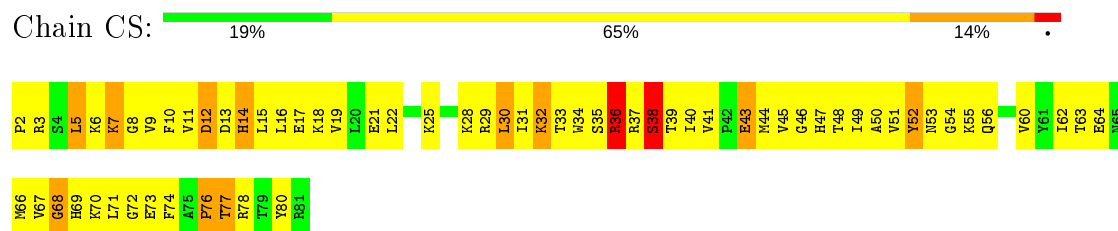


- Molecule 19: 30S ribosomal protein S19

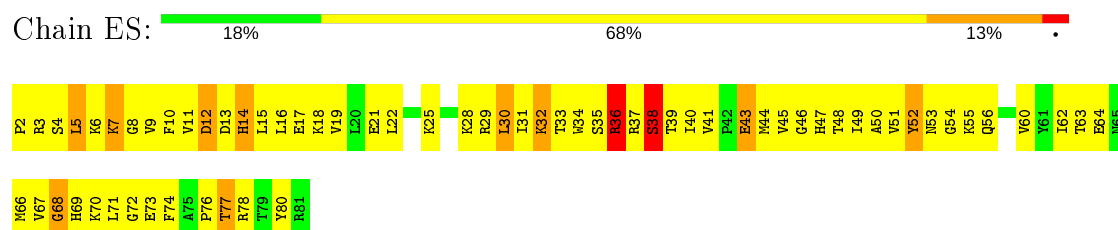
Chain AS: 18% 66% 14% .



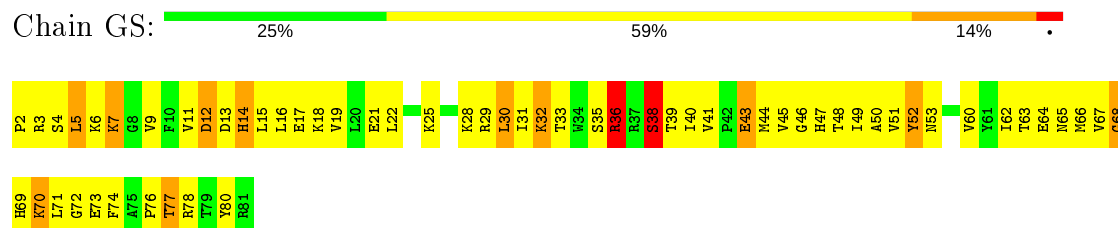
- Molecule 19: 30S ribosomal protein S19



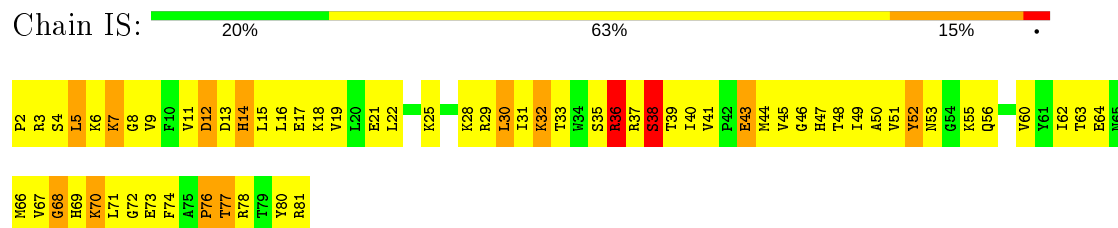
- Molecule 19: 30S ribosomal protein S19



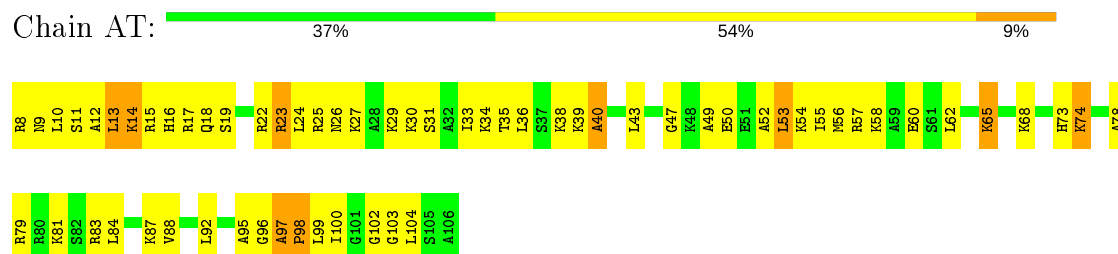
- Molecule 19: 30S ribosomal protein S19



- Molecule 19: 30S ribosomal protein S19

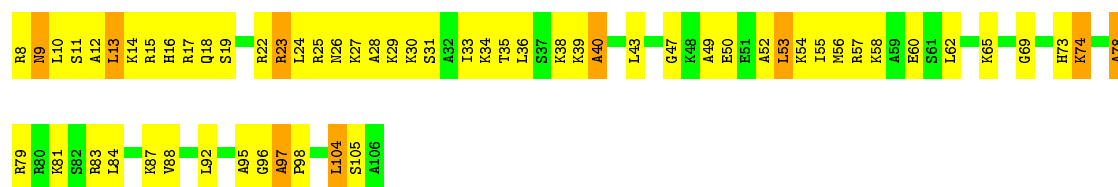


- Molecule 20: 30S ribosomal protein S20

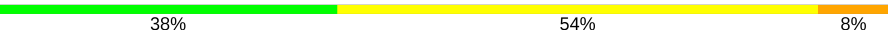


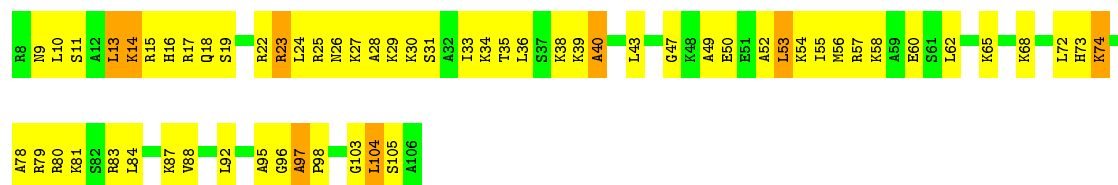
- Molecule 20: 30S ribosomal protein S20

Chain CT:  39% 52% 9%



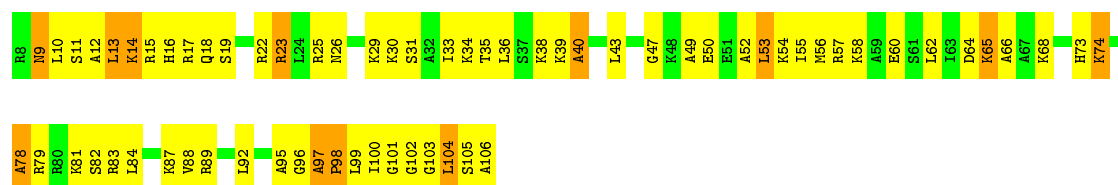
- Molecule 20: 30S ribosomal protein S20

Chain ET:  38% 54% 8%



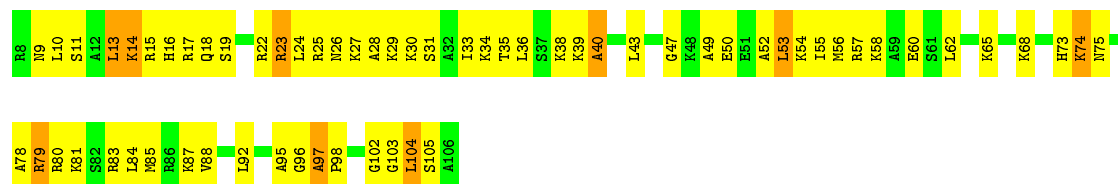
- Molecule 20: 30S ribosomal protein S20

Chain GT:  33% 55% 12%




- Molecule 20: 30S ribosomal protein S20

Chain IT:  36% 55% 9%




- Molecule 21: protein Y

Chain Aa:  79% 21%

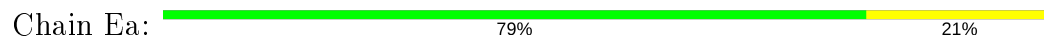


- Molecule 21: protein Y

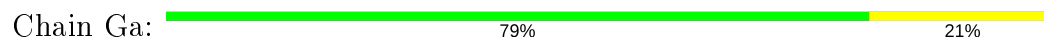
Chain Ca:  79% 21%



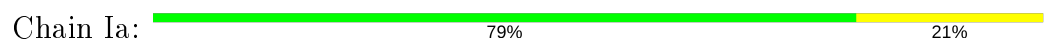
- Molecule 21: protein Y



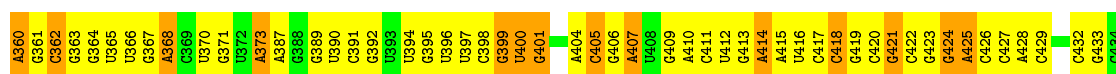
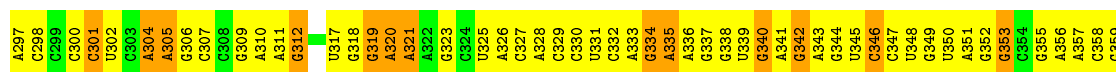
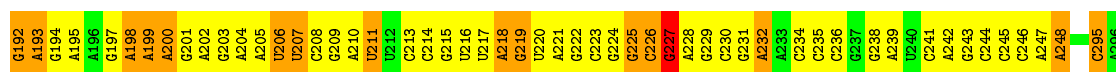
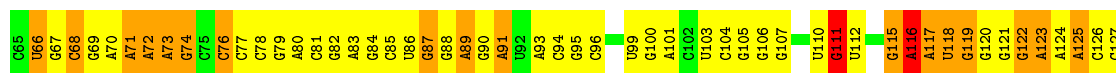
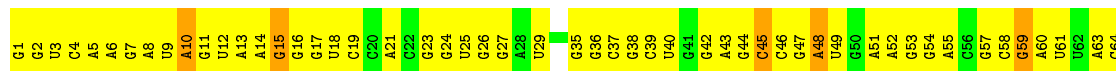
- Molecule 21: protein Y



- Molecule 21: protein Y

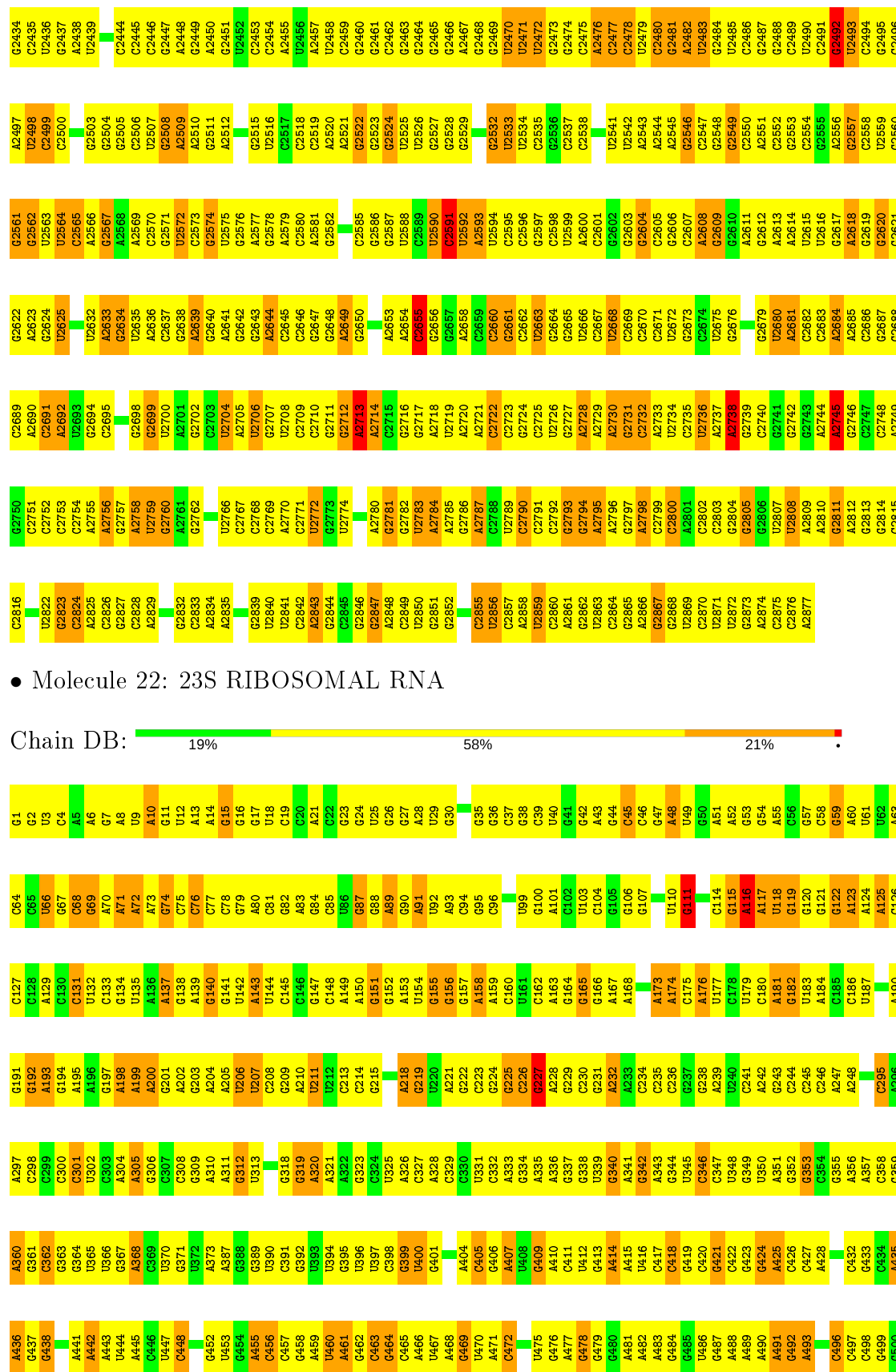


- Molecule 22: 23S RIBOSOMAL RNA



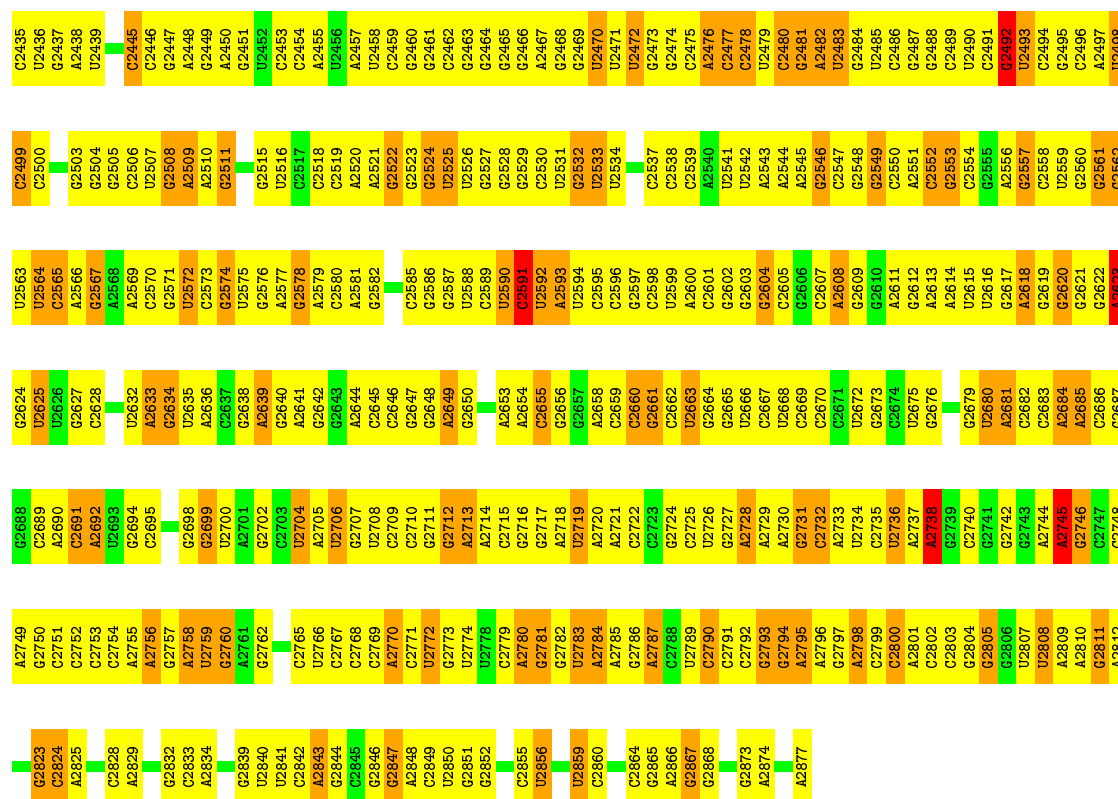
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G1402	C1340	A1278	G1206	G1142	U1072	C1006	U942	G878	U810	A748	G687	U561	G502
		G1279	G1207	A1143	G1073	A1007	U943	A879	G811	G749	A688	G562	A503
A1405	U1342	U1280	A1208	U1444	G1074	G1008	A944	C880	G812	C750	G689	U563	G504
A1406	C1343	A1281	G1209	G1145	C1075	C1009	G945	U681	A813	C751	A690	U564	G505
G1407	C1344	A1282		G1146	U1076	U1010	U946	A882	G814	G752	C691	A565	G506
A1408	G1345	C1283	C1214	G1147	U1077	A1011		A883	A815	U753	C692	U566	
U1409	A1215	G1284	A1215	G1148	A1078	G1012	G950		U816	G754	A693	G567	A507
C1411	A1285	A1286		G1149	G1079	G1013	A952	A886	A817	C755	G694	G568	G508
C1412	G1350	A1287	C1218	C1150	A1080	G1014	G953	G887	G818	C756	G695	C569	U509
U1413	G1351	U1151		U1151	A081	U1015	G954	G888	C819	U757	U696	G570	G510
C1414	G1352	C1152	G1223	C1152	G1082	C1016	G955	G889	U820	G758	G697	G571	A511
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G1420	C1229	C1229		C1160	C1089	U1022	U960	G895	U826	A764	A703	A577	A517
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C1422	G1359	A1162	U1233	A1162	C1298	G1024	A964	G899	U836	A774	A712	C652	C526
A1423	G1360	C1163	A1233	C1163	U1092	A1025	G965	U900	U837	U775	A713	G653	C527
U1424	G1361	G1298	C1234	C1164	U1093		A966	U901	A838	G776	G714	A654	G528
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U1427	G1301	A1167	G1237	A1167	U1030	U1030	U969	G904	A833	G772	C710	A584	A523
A1428	C1302	G1168	A1238	G1168	G1100	C1031	A970	G905		C651	C711	U585	A524
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G1430	C1368	G1304	G1240	U1170	G1102	G1033	U972	U907	U837	U775	A713	G653	C526
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A1453	G1390	C1328	U1262	U1193	A1129	U1056	C993	A929	C864	A797	G673	G613	U547
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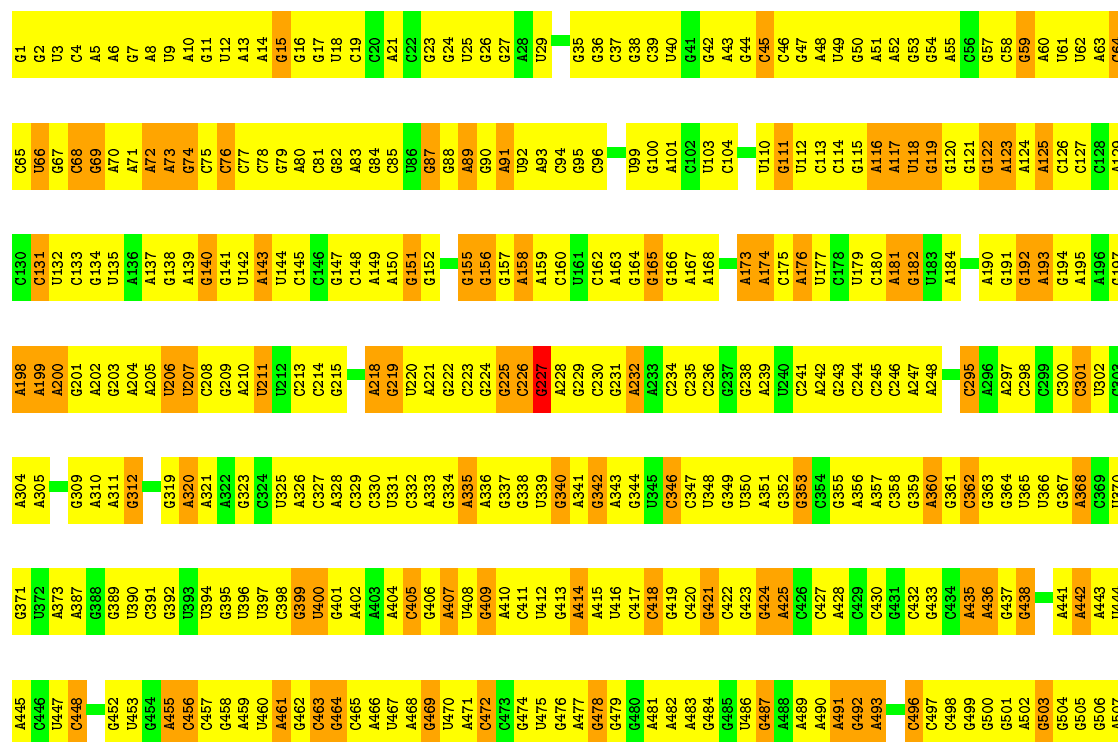


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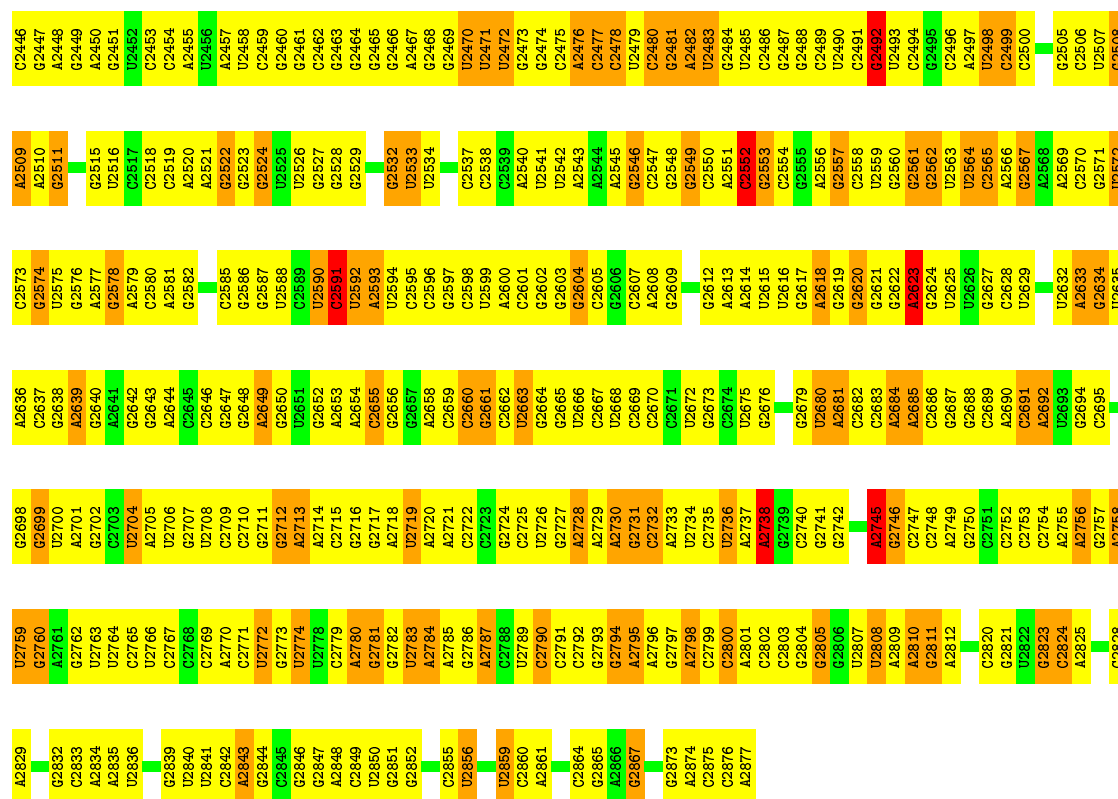


- Molecule 22: 23S RIBOSOMAL RNA

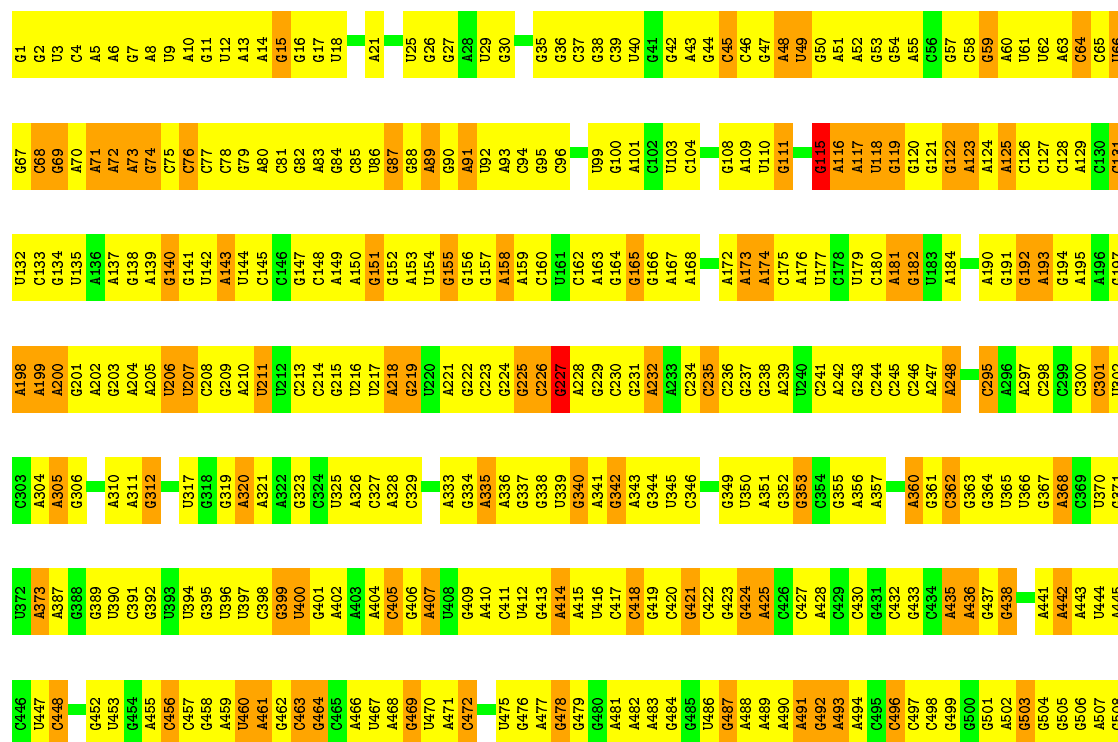






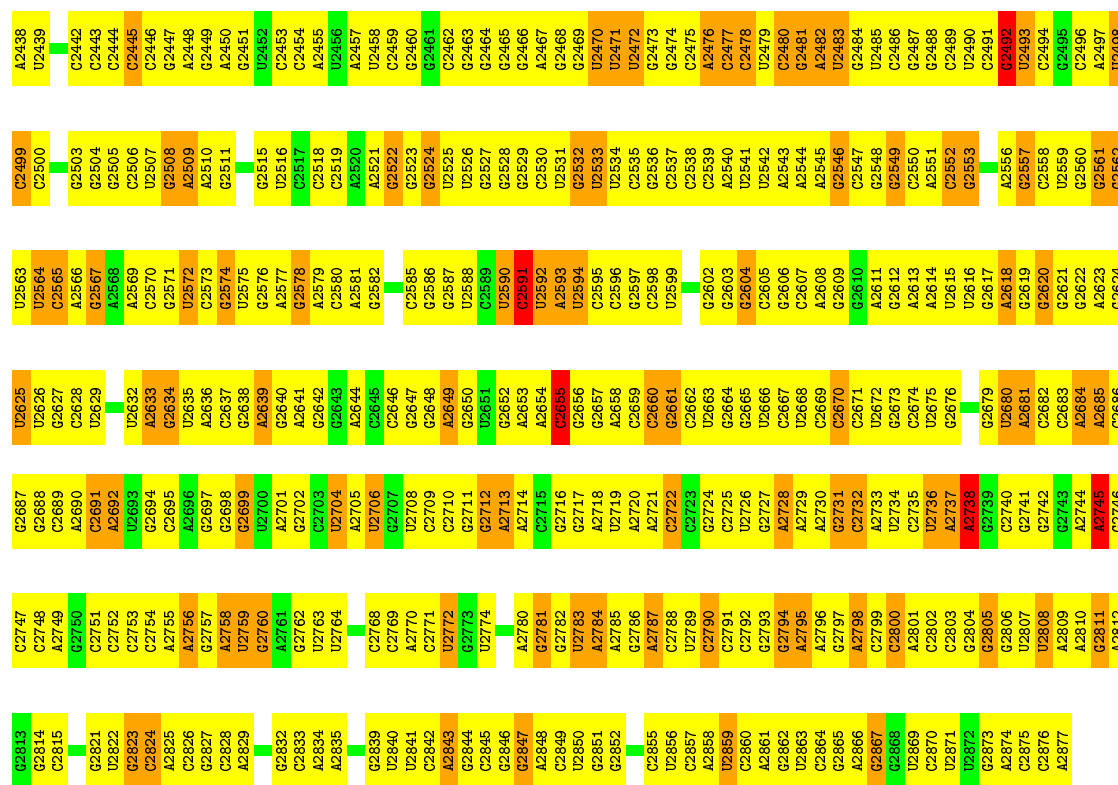


- Molecule 22: 23S RIBOSOMAL RNA



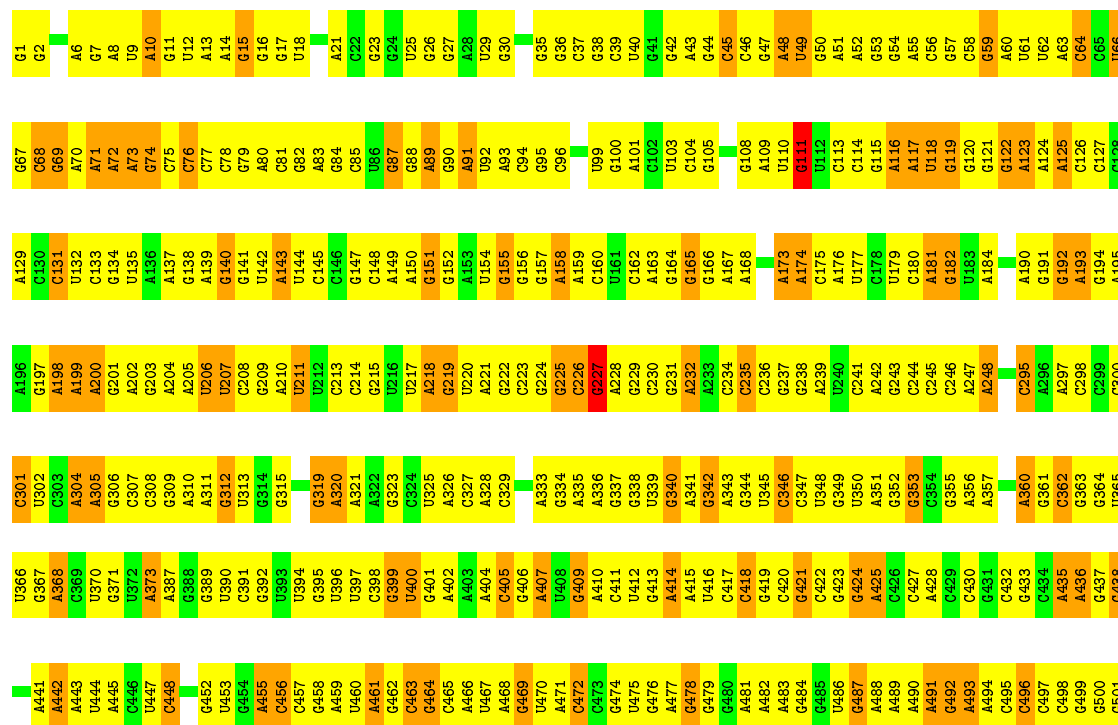
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PDB
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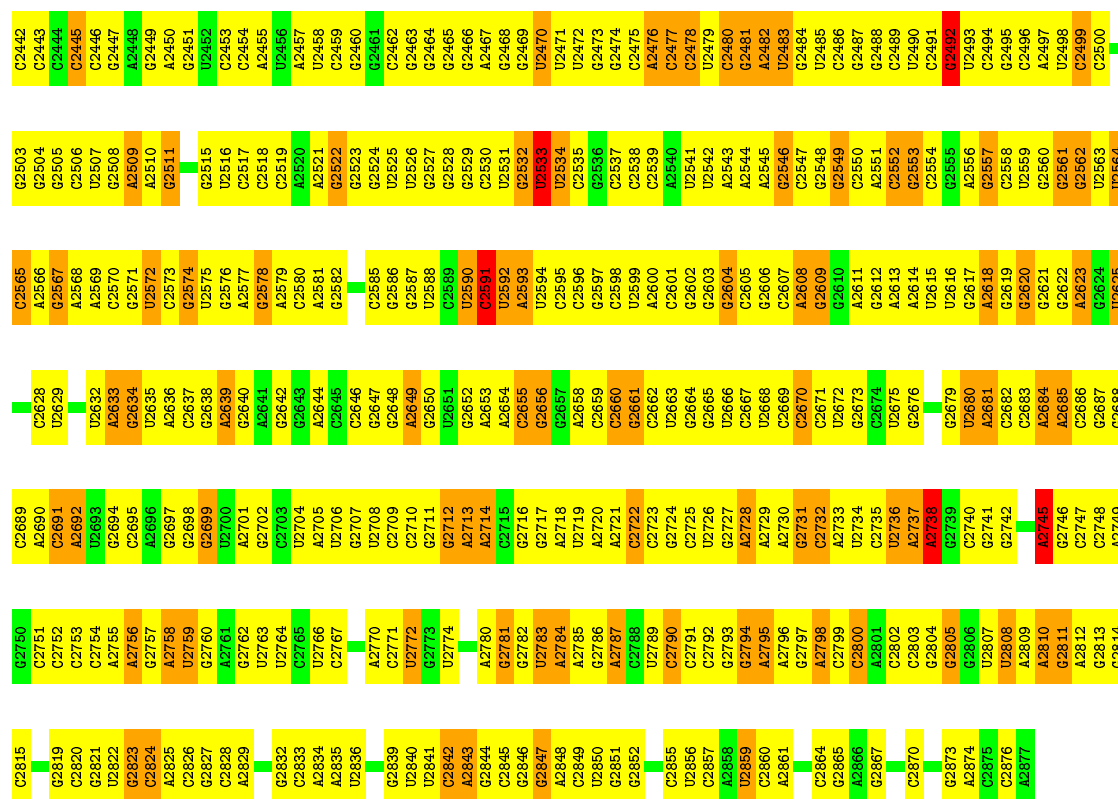
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Chain JB: 19% 58% 21%

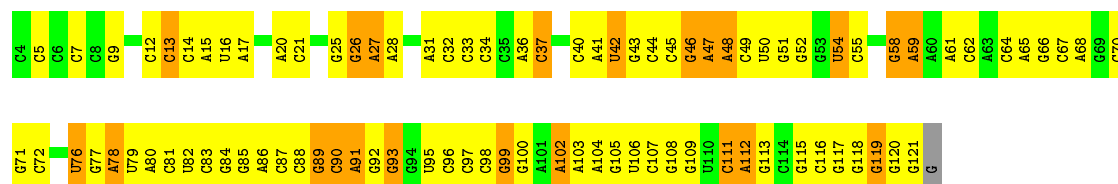




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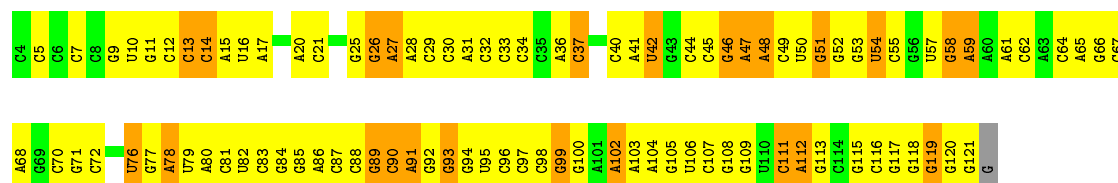


Chain BA: 24% 57% 18%



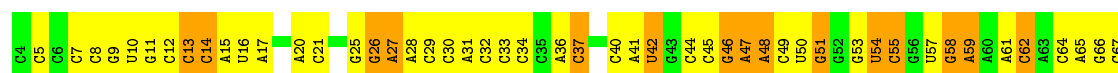
• Molecule 23: 5S RIBOSOMAL RNA

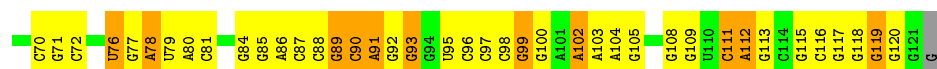
Chain DA: 18% 61% 20%



• Molecule 23: 5S RIBOSOMAL RNA

Chain FA: 24% 53% 22%





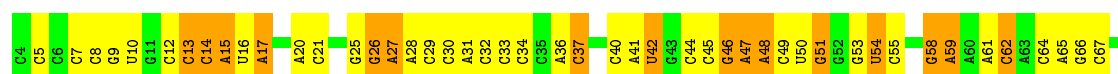
• Molecule 23: 5S RIBOSOMAL RNA

Chain HA: 24% 56% 18%



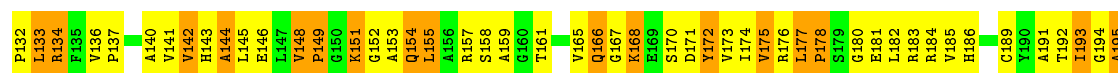
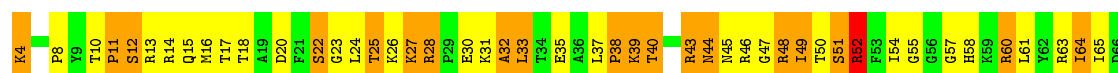
• Molecule 23: 5S RIBOSOMAL RNA

Chain JA: 27% 50% 22%



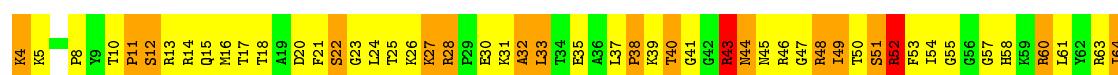
• Molecule 24: 50S ribosomal protein L2

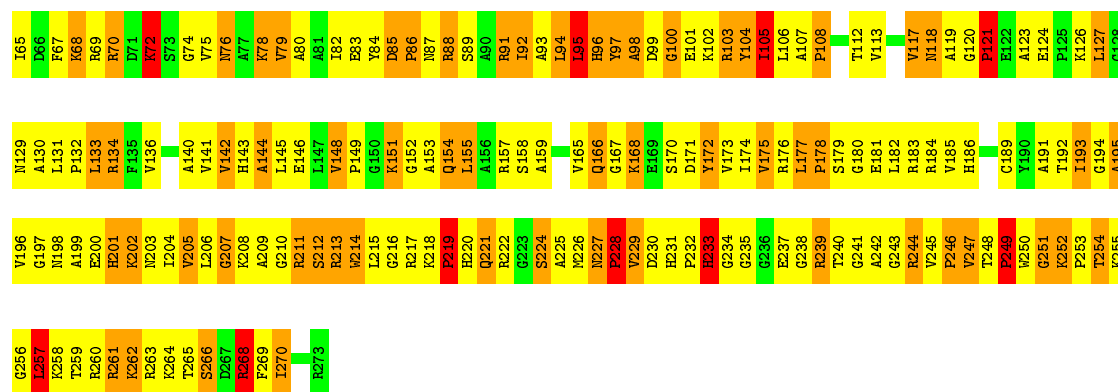
Chain BD: 20% 46% 30%



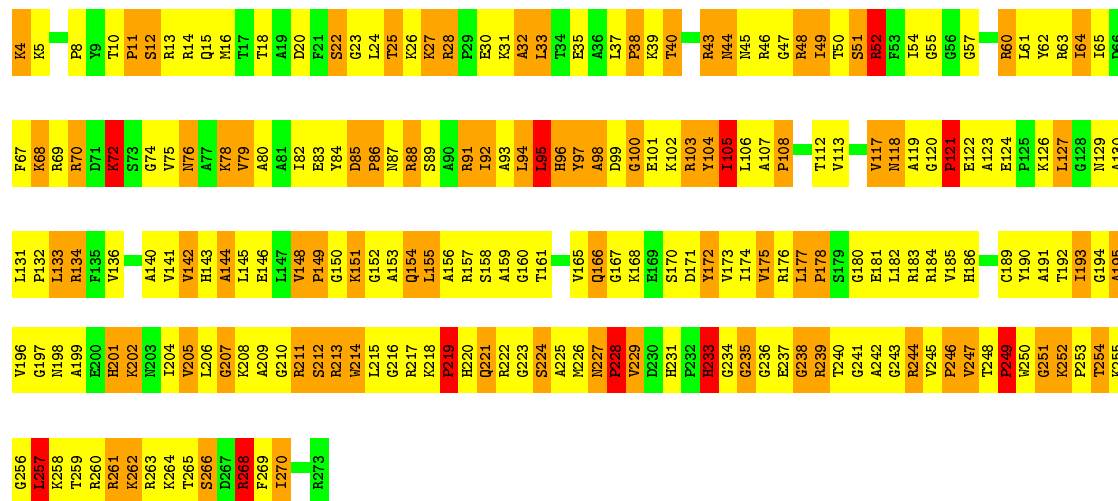
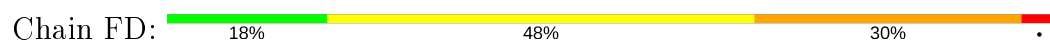
• Molecule 24: 50S ribosomal protein L2

Chain DD: 18% 50% 28%

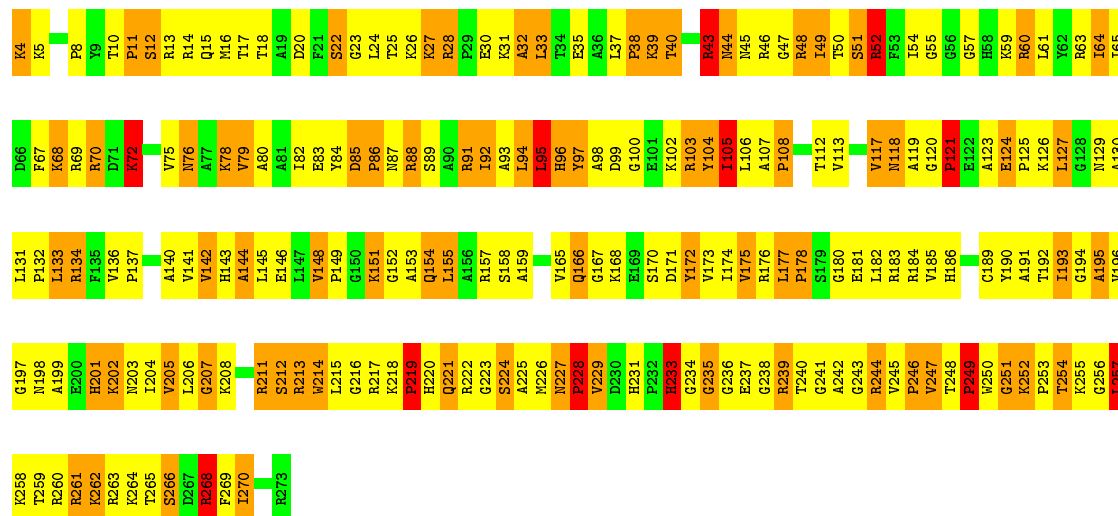
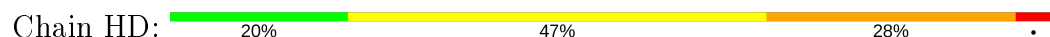




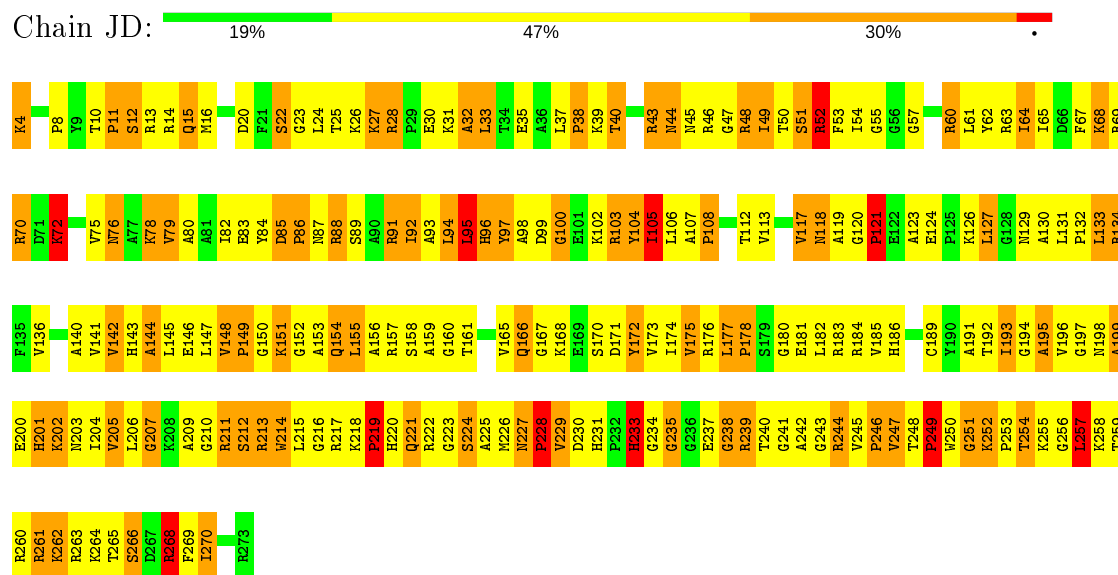
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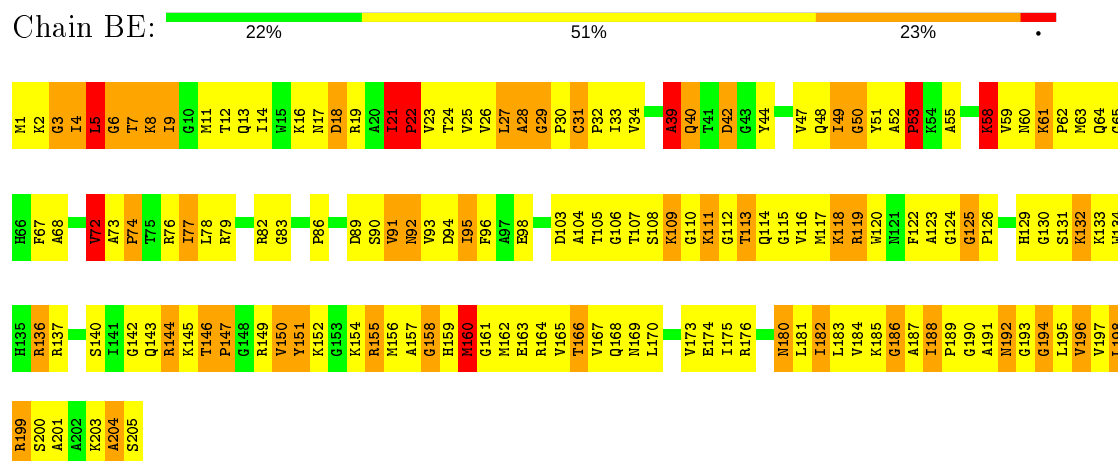
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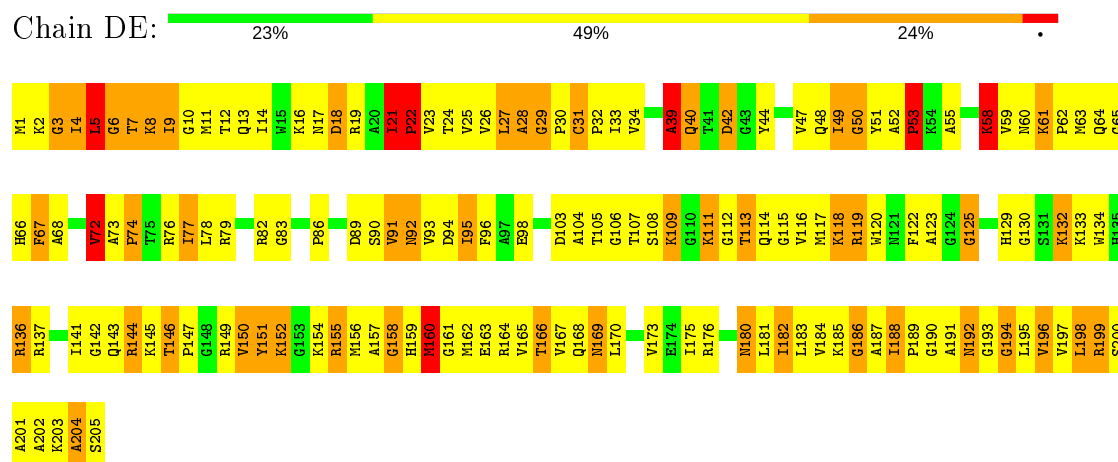
- Molecule 24: 50S ribosomal protein L2



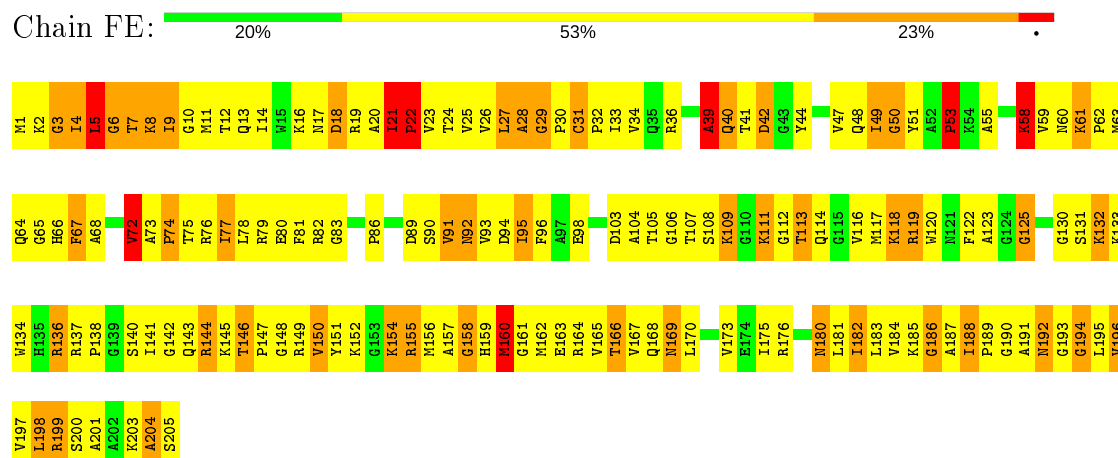
- Molecule 25: 50S ribosomal protein L3



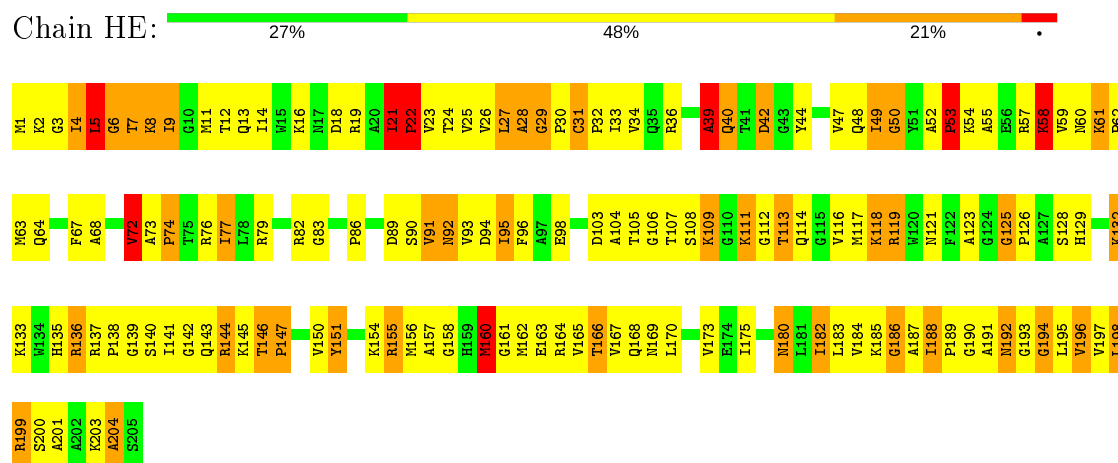
- Molecule 25: 50S ribosomal protein L3



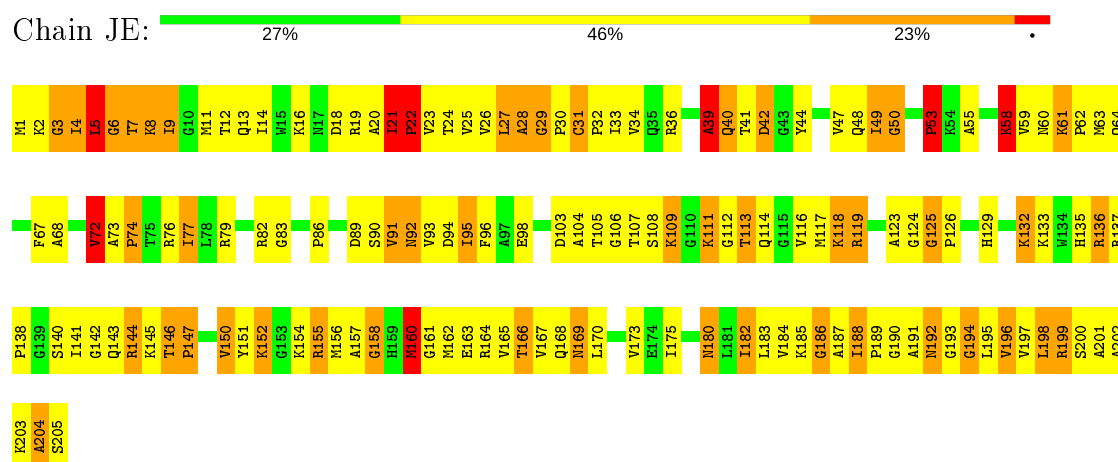
- Molecule 25: 50S ribosomal protein L3



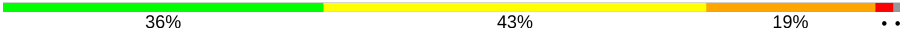
- Molecule 25: 50S ribosomal protein L3

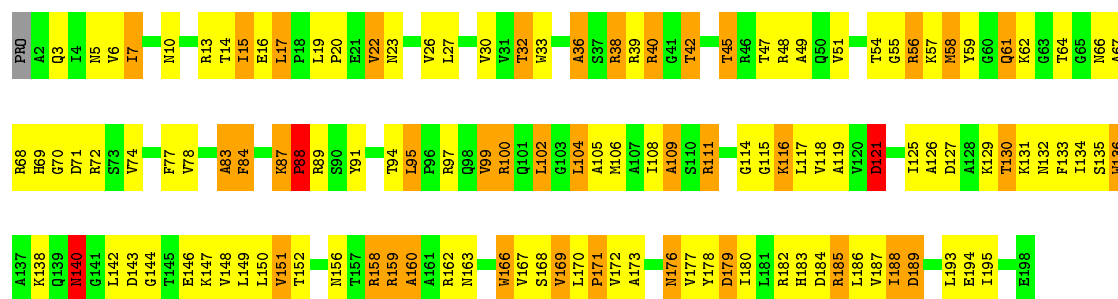


- Molecule 25: 50S ribosomal protein L3



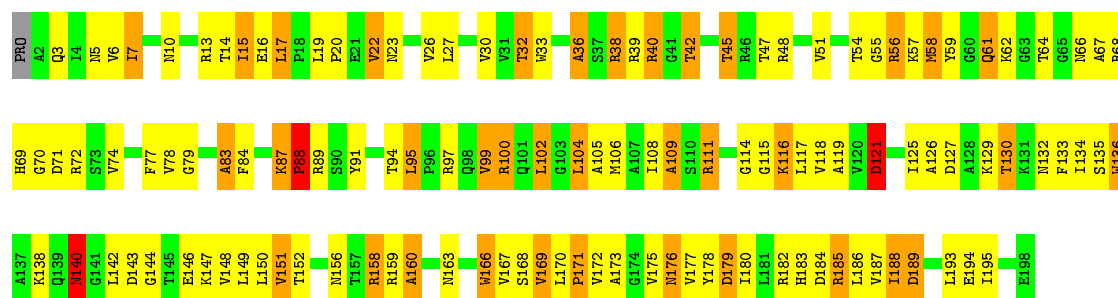
- Molecule 26: 50S ribosomal protein L4

Chain BF: 



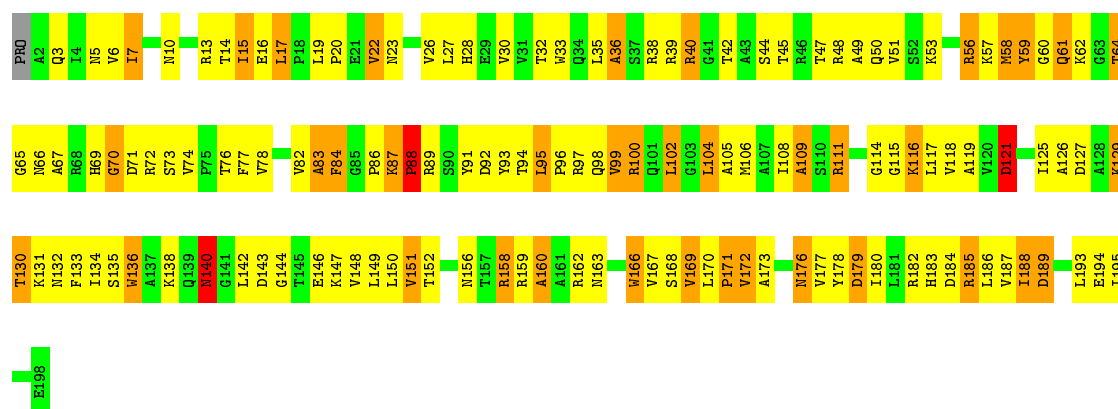
- Molecule 26: 50S ribosomal protein L4

Chain DF: 



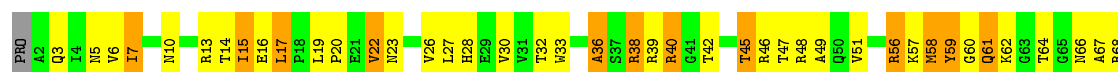
- Molecule 26: 50S ribosomal protein L4

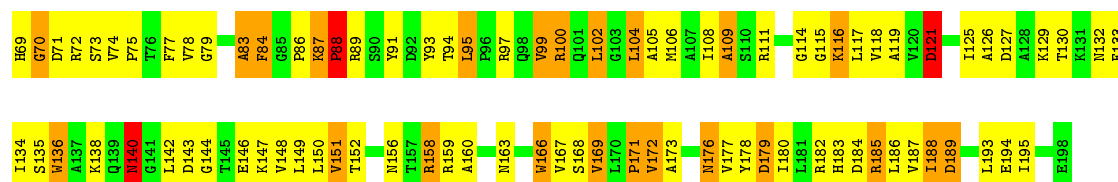
Chain FF: 



- Molecule 26: 50S ribosomal protein L4

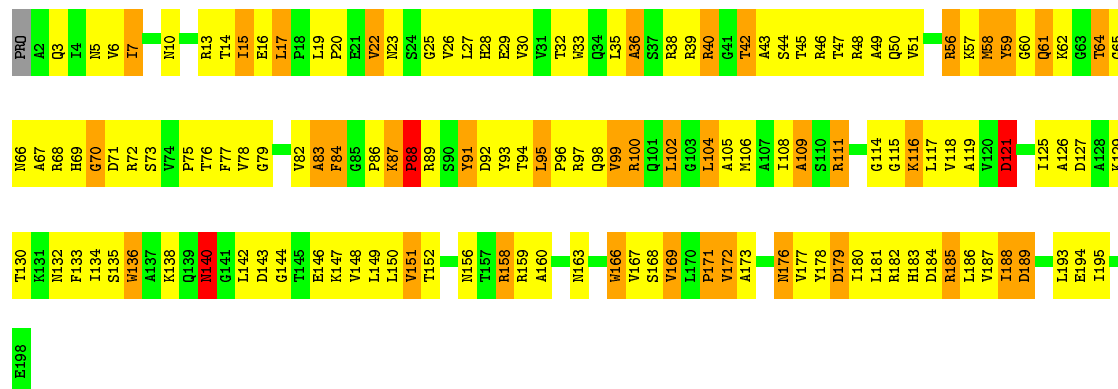
Chain HF: 





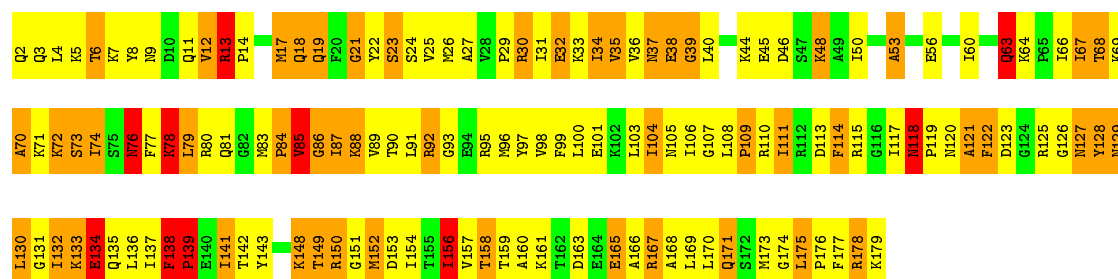
• Molecule 26: 50S ribosomal protein L4

Chain JF: 28% 51% 19% ..



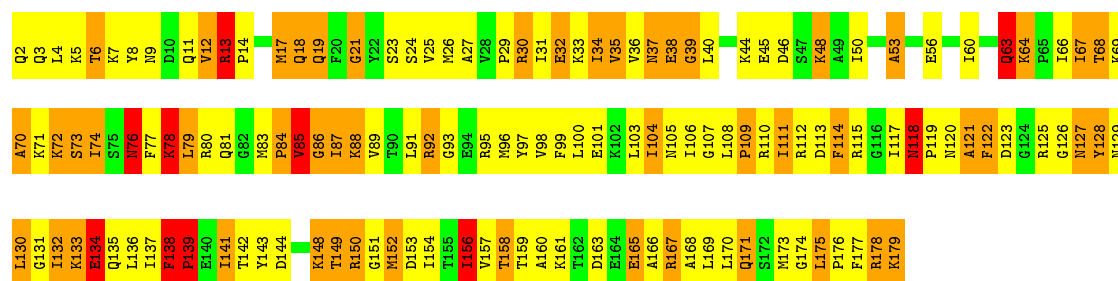
• Molecule 27: 50S ribosomal protein L5

Chain BG: 20% 46% 29% 6%

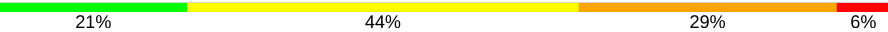


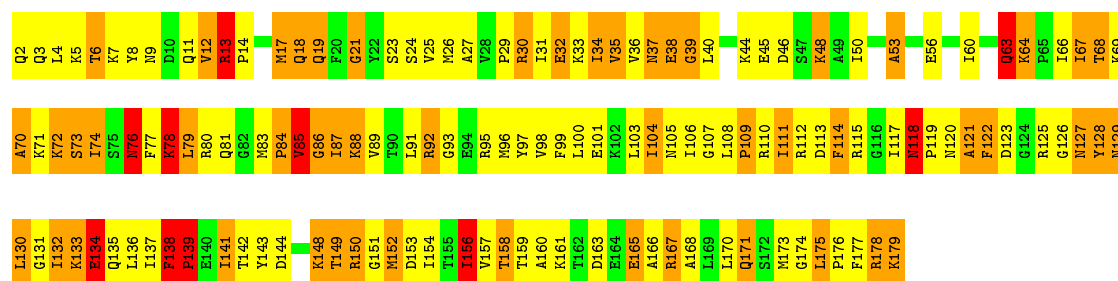
• Molecule 27: 50S ribosomal protein L5

Chain DG: 20% 46% 29% 6%



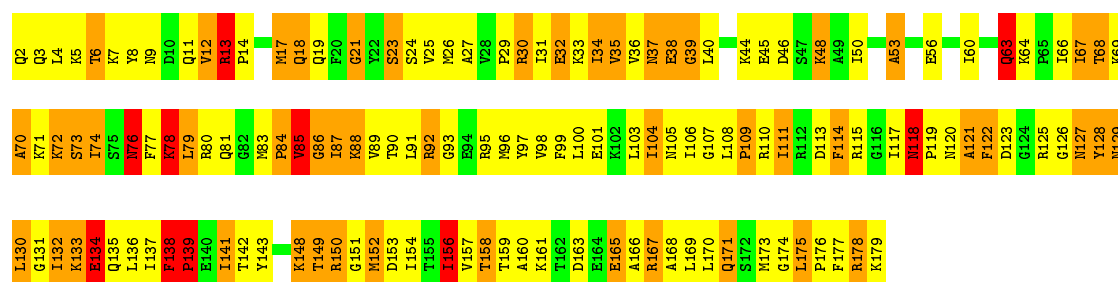
• Molecule 27: 50S ribosomal protein L5

Chain FG: 

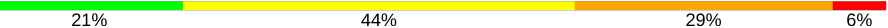


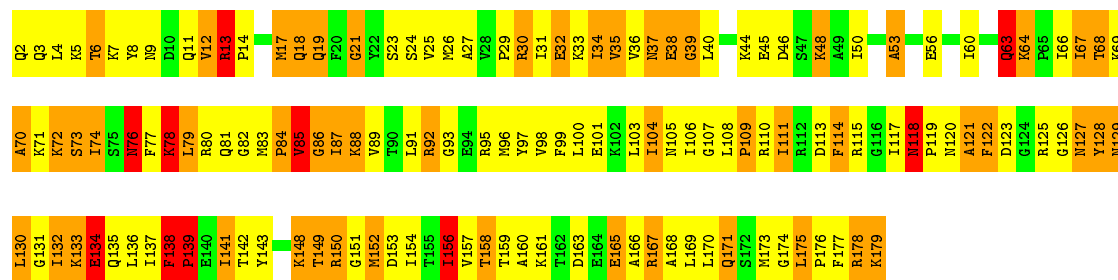
• Molecule 27: 50S ribosomal protein L5

Chain HG: 



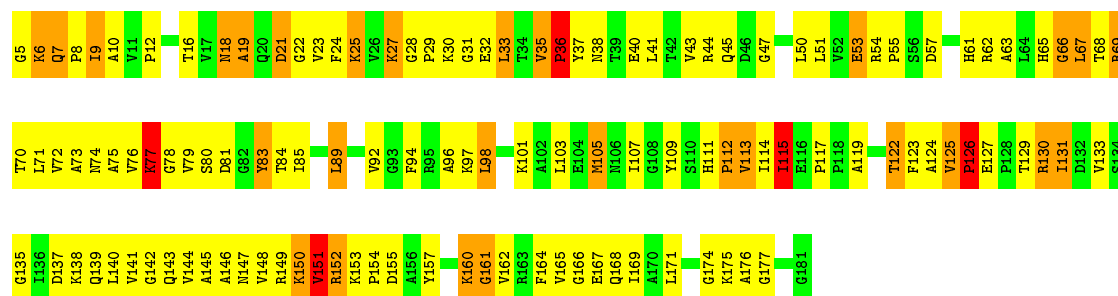
• Molecule 27: 50S ribosomal protein L5

Chain JG: 



• Molecule 28: 50S ribosomal protein L6

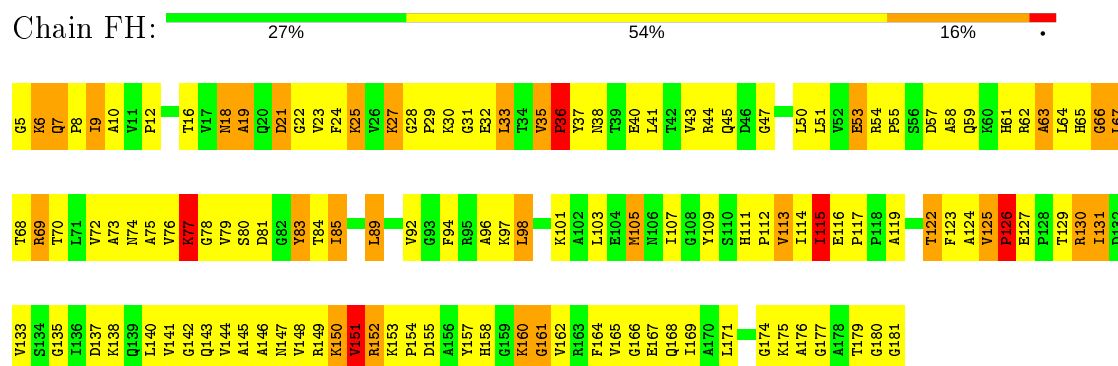
Chain BH: 



- Molecule 28: 50S ribosomal protein L6



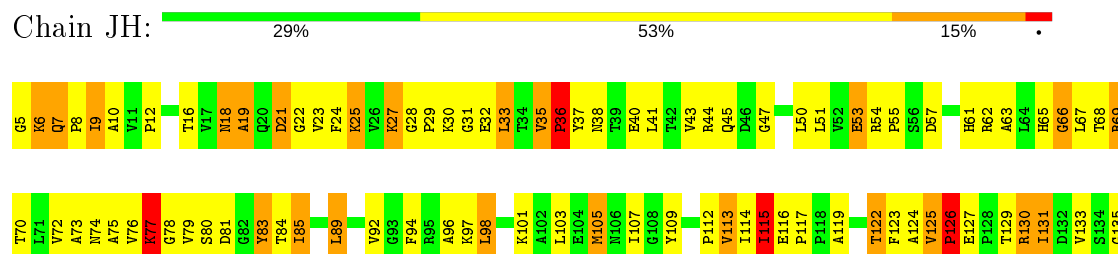
- Molecule 28: 50S ribosomal protein L6



- Molecule 28: 50S ribosomal protein L6



- Molecule 28: 50S ribosomal protein L6

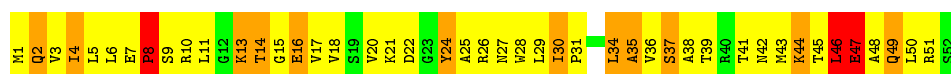
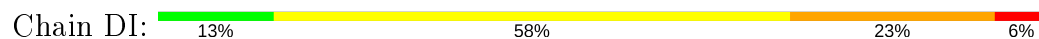




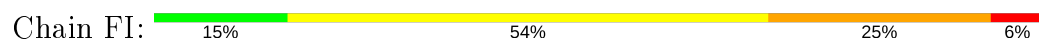
- Molecule 29: 50S ribosomal protein L9



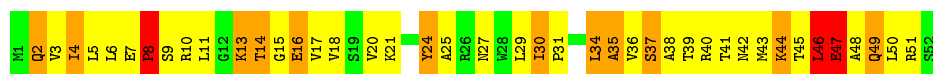
- Molecule 29: 50S ribosomal protein L9



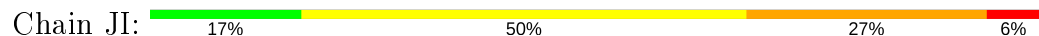
- Molecule 29: 50S ribosomal protein L9



- Molecule 29: 50S ribosomal protein L9



- Molecule 29: 50S ribosomal protein L9



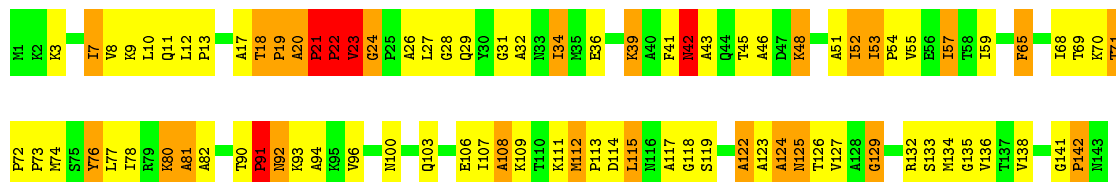
- Molecule 30: 50S ribosomal protein L11





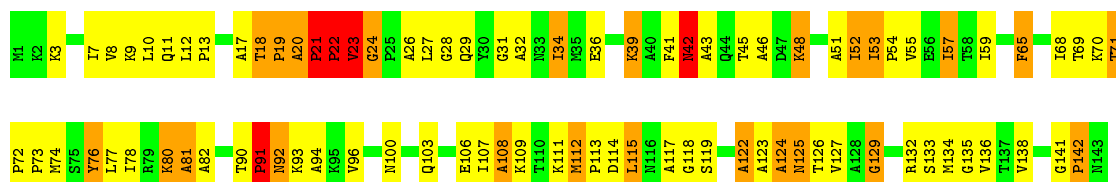
- Molecule 30: 50S ribosomal protein L11

Chain DJ: 39% 40% 17%



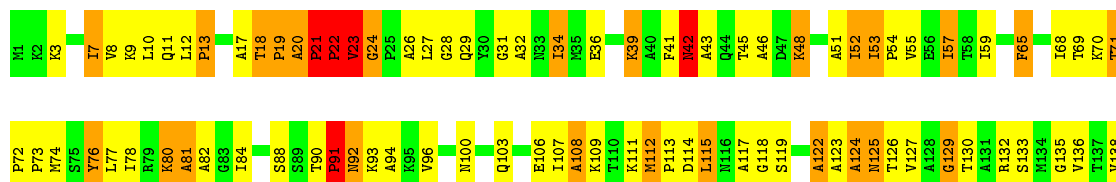
- Molecule 30: 50S ribosomal protein L11

Chain FJ: 39% 41% 17%



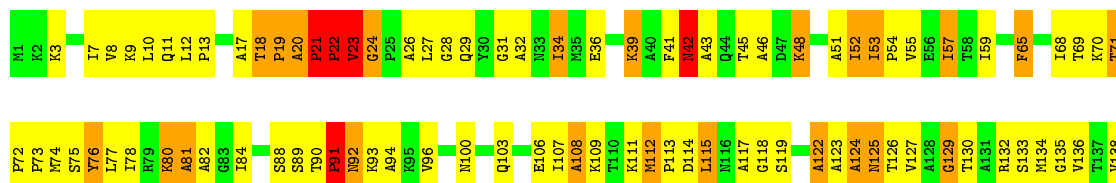
- Molecule 30: 50S ribosomal protein L11

Chain HJ: 38% 41% 18%



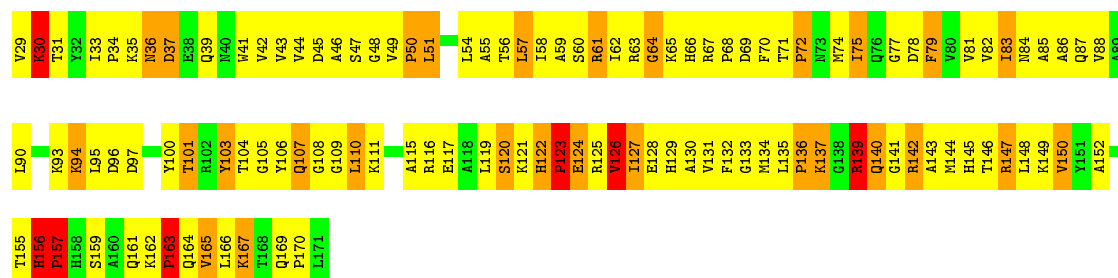
- Molecule 30: 50S ribosomal protein L11

Chain JJ: 36% 44% 17%



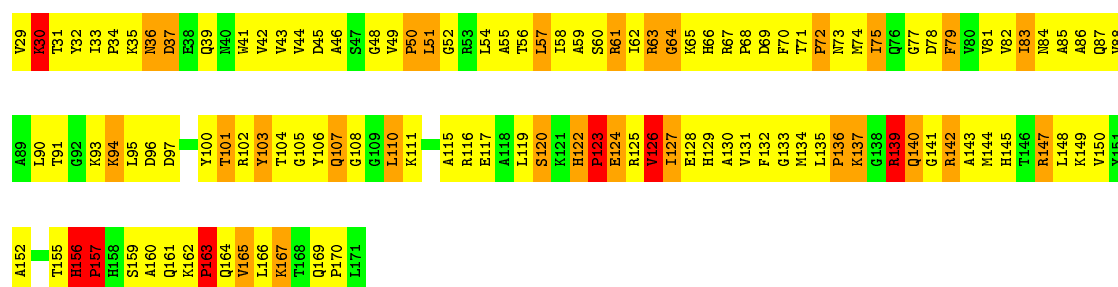
- Molecule 31: 50S ribosomal protein L13

Chain BK: 



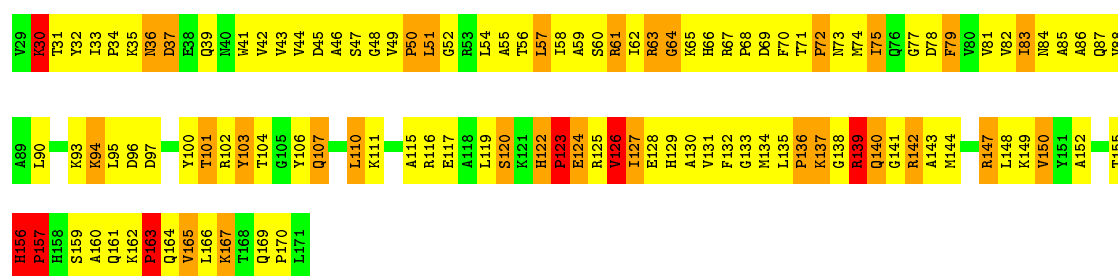
- Molecule 31: 50S ribosomal protein L13

Chain DK: 



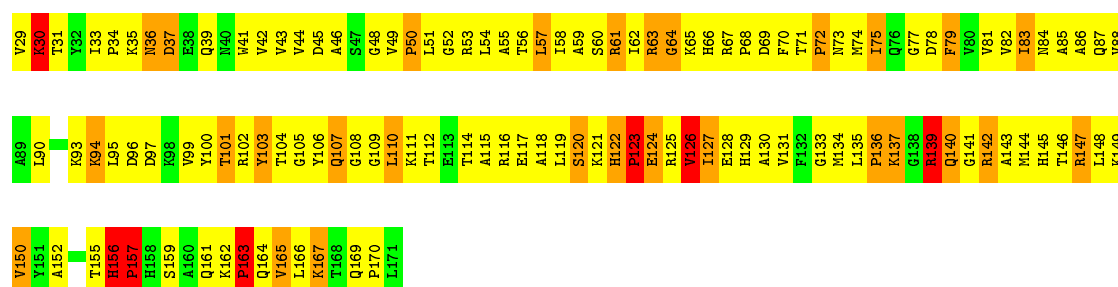
- Molecule 31: 50S ribosomal protein L13

Chain FK: 

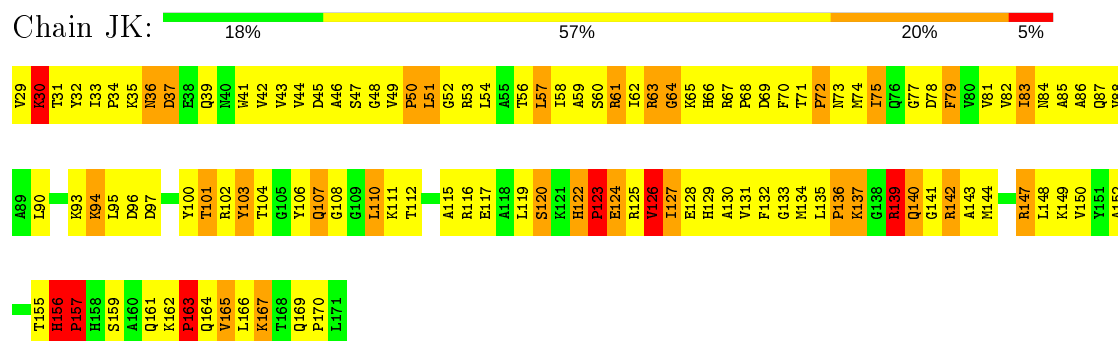


- Molecule 31: 50S ribosomal protein L13

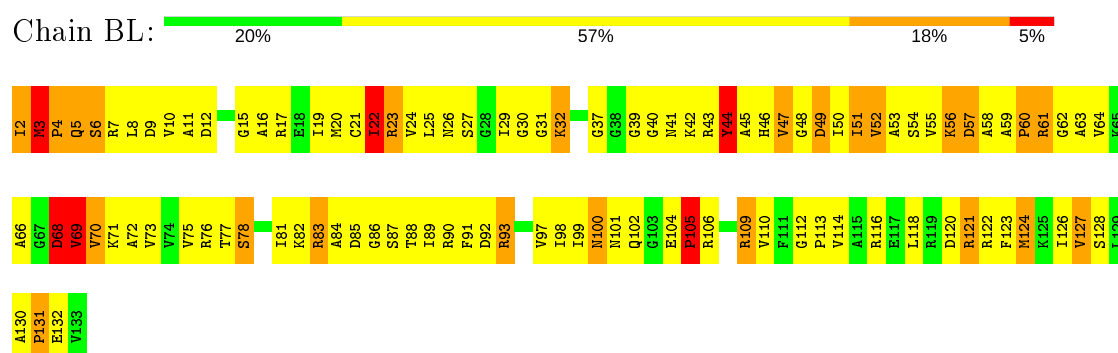
Chain HK: 



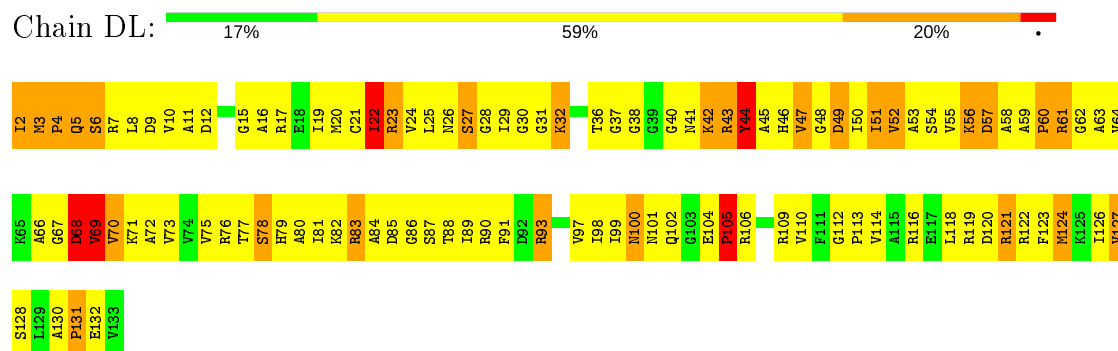
- Molecule 31: 50S ribosomal protein L13



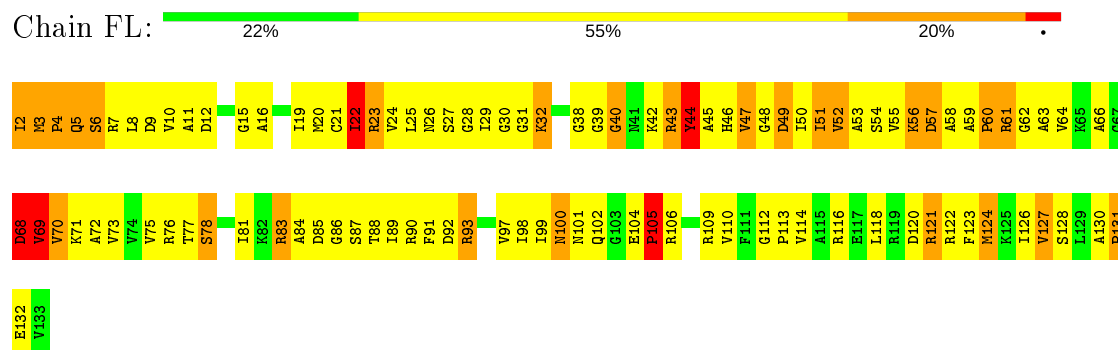
- Molecule 32: 50S ribosomal protein L14



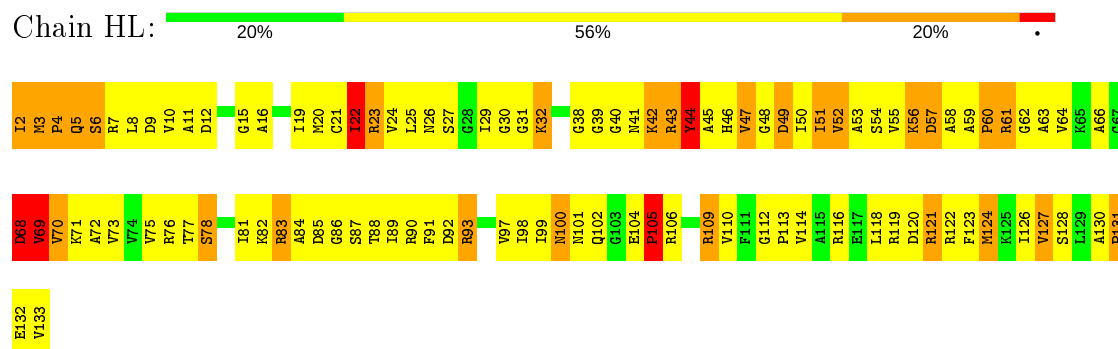
- Molecule 32: 50S ribosomal protein L14



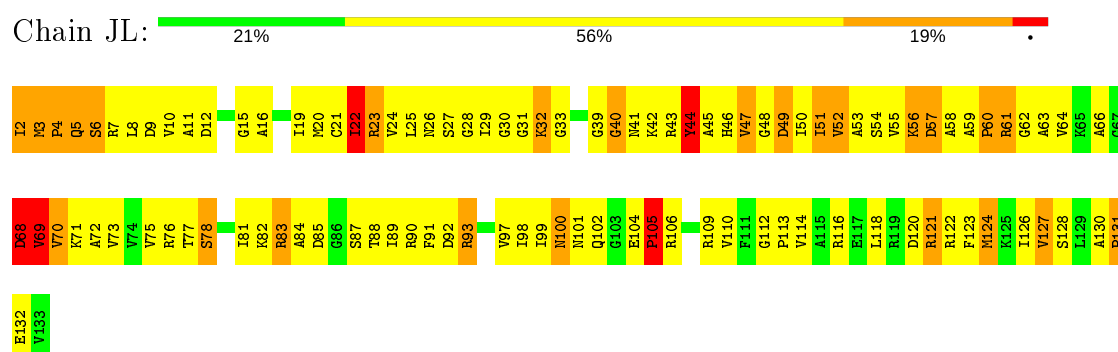
- Molecule 32: 50S ribosomal protein L14



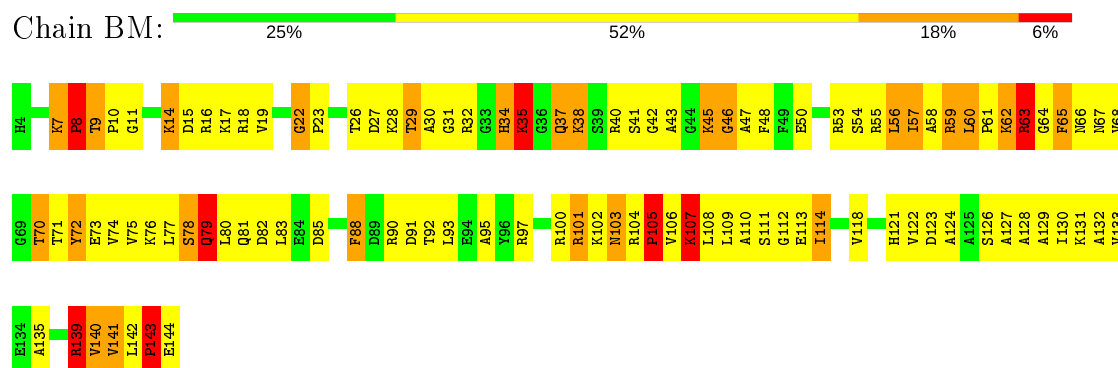
- Molecule 32: 50S ribosomal protein L14



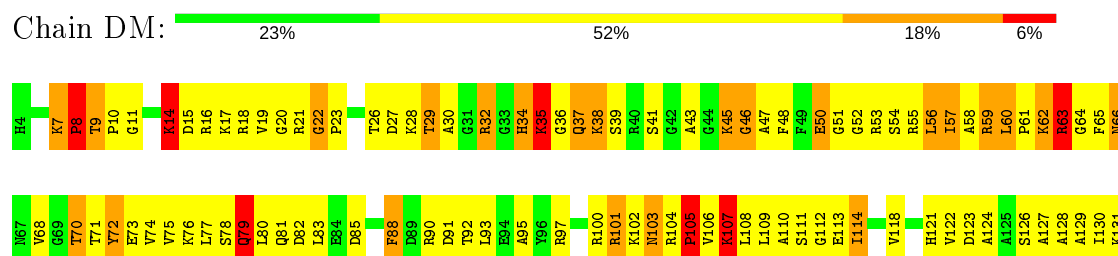
- Molecule 32: 50S ribosomal protein L14

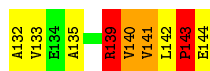


- Molecule 33: 50S ribosomal protein L15



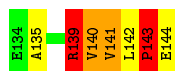
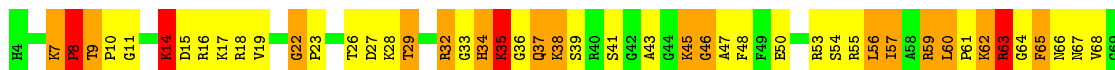
- Molecule 33: 50S ribosomal protein L15





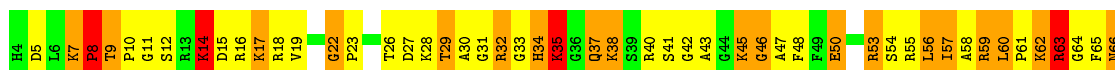
- Molecule 33: 50S ribosomal protein L15

Chain FM: 25% 52% 16% 6%



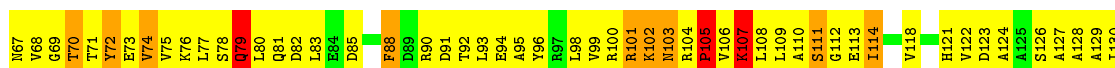
- Molecule 33: 50S ribosomal protein L15

Chain HM: 21% 52% 21% 6%



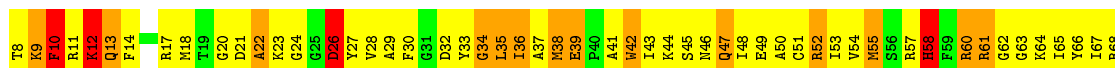
- Molecule 33: 50S ribosomal protein L15

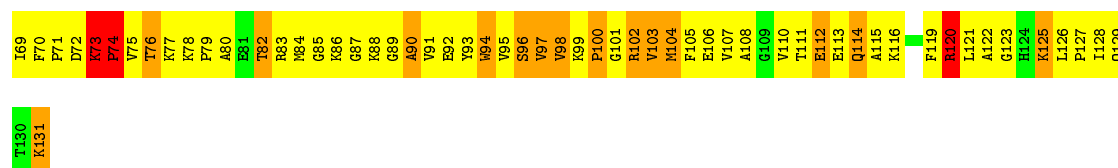
Chain JM: 21% 52% 21% 6%



- Molecule 34: 50S ribosomal protein L16

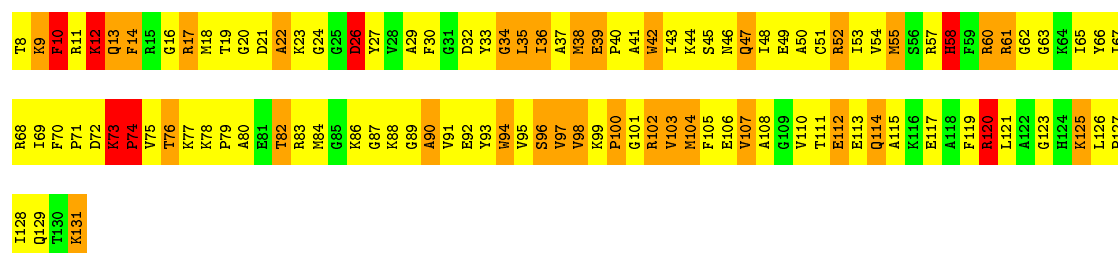
Chain BN: 11% 60% 23% 6%





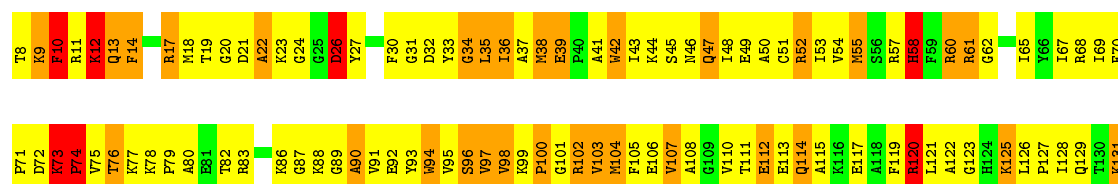
• Molecule 34: 50S ribosomal protein L16

Chain DN: 12% 56% 26% 6%



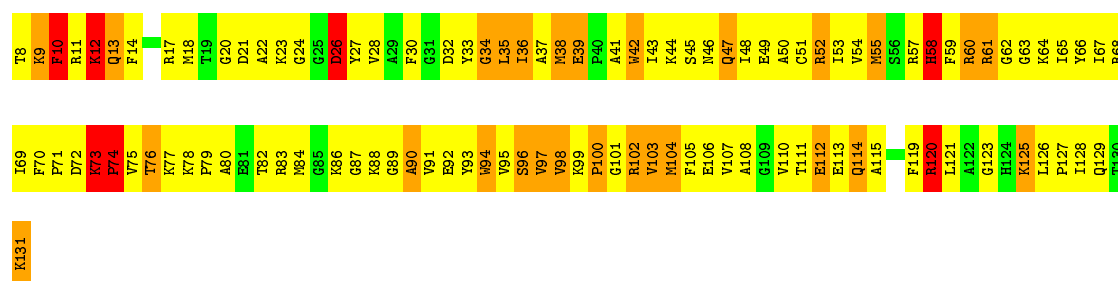
• Molecule 34: 50S ribosomal protein L16

Chain FN: 15% 54% 25% 6%



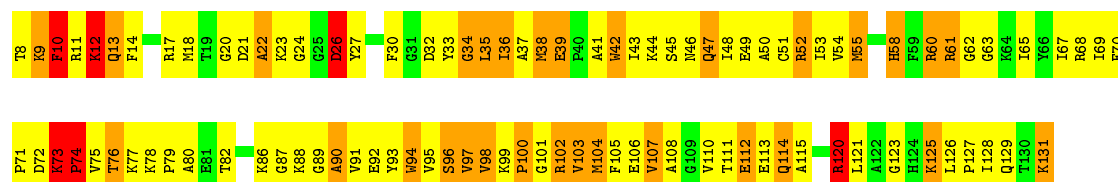
• Molecule 34: 50S ribosomal protein L16

Chain HN: 14% 59% 22% 6%



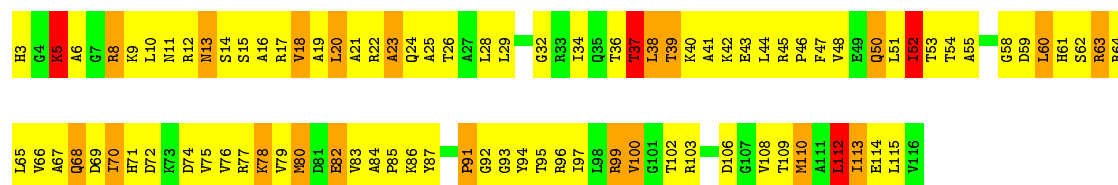
• Molecule 34: 50S ribosomal protein L16

Chain JN: 20% 51% 24% 5%

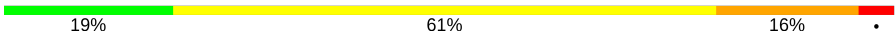


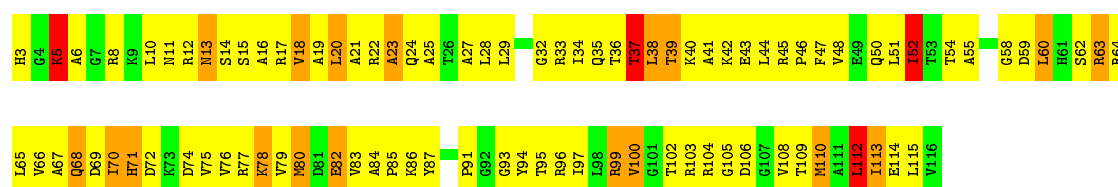
- Molecule 35: 50S ribosomal protein L17

Chain BO: 



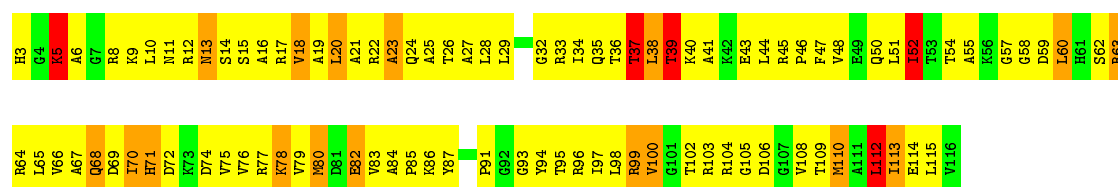
- Molecule 35: 50S ribosomal protein L17

Chain DO: 



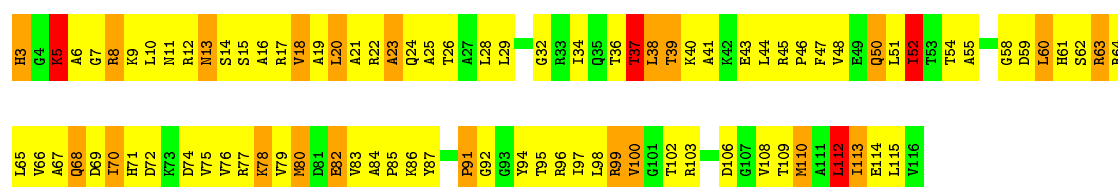
- Molecule 35: 50S ribosomal protein L17

Chain FO: 



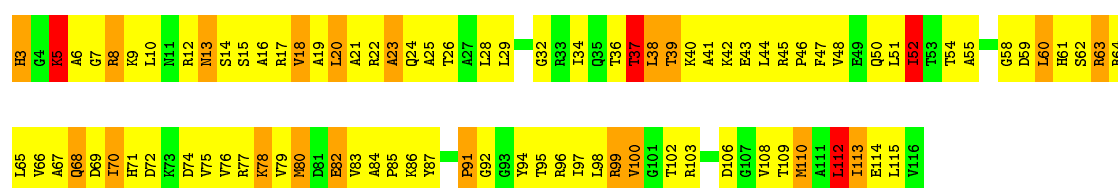
- Molecule 35: 50S ribosomal protein L17

Chain HO: 

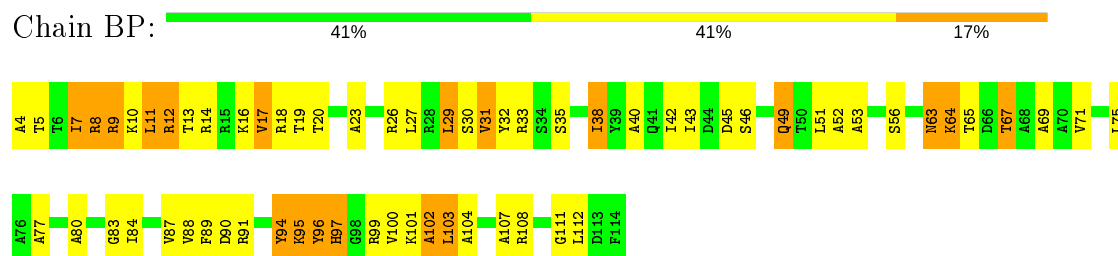


- Molecule 35: 50S ribosomal protein L17

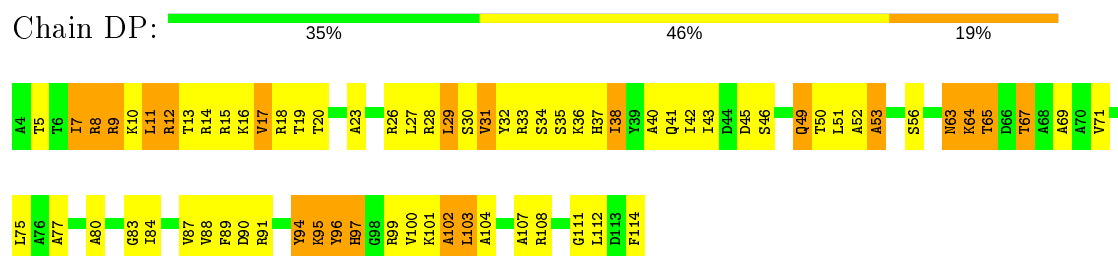
Chain JO: 



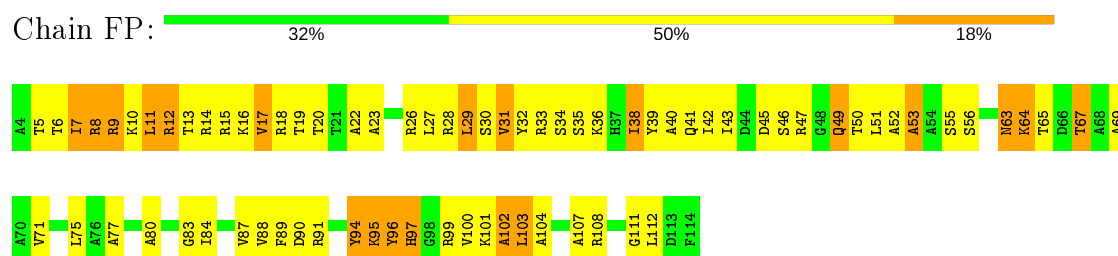
- Molecule 36: 50S ribosomal protein L18



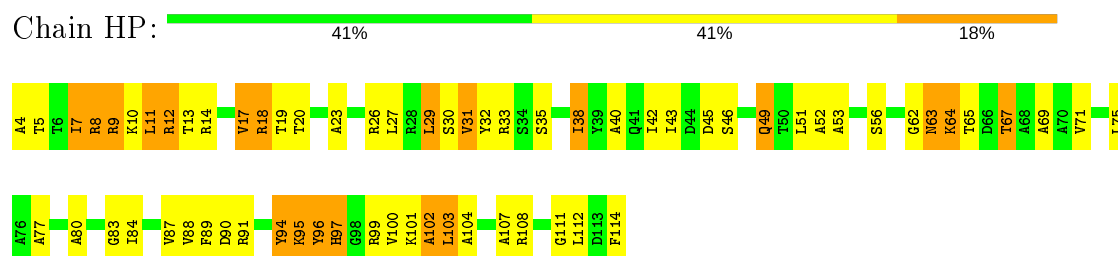
- Molecule 36: 50S ribosomal protein L18



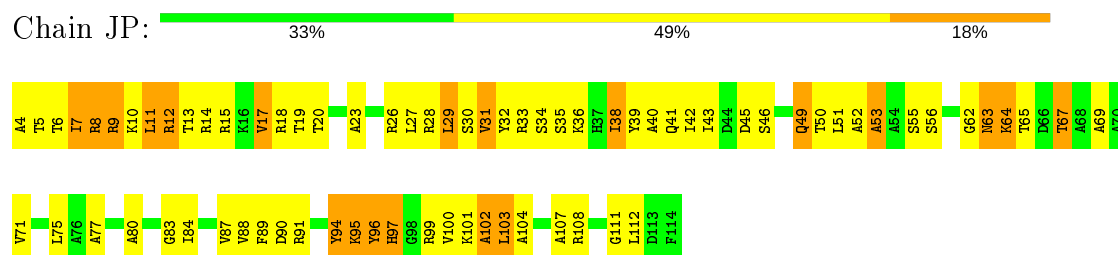
- Molecule 36: 50S ribosomal protein L18



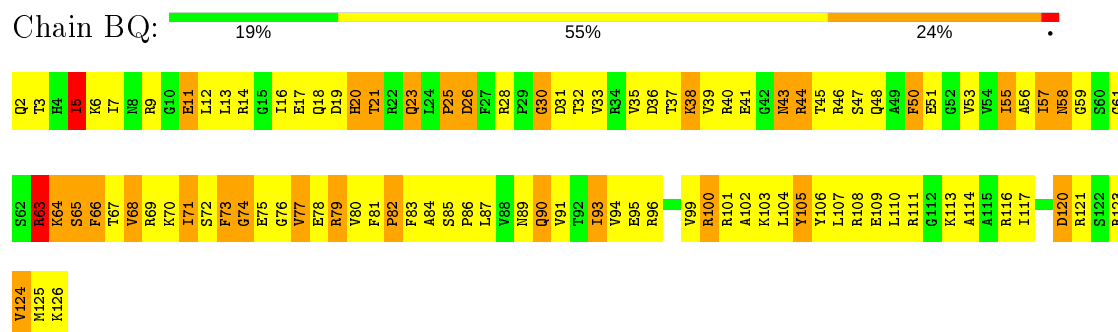
- Molecule 36: 50S ribosomal protein L18



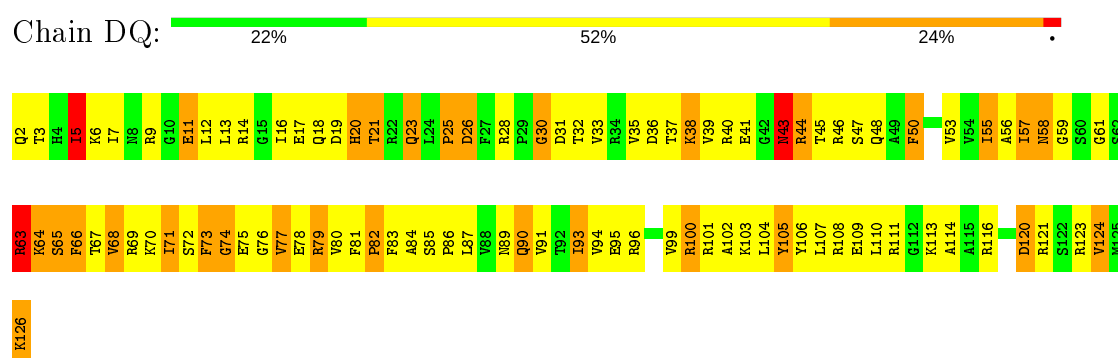
- Molecule 36: 50S ribosomal protein L18



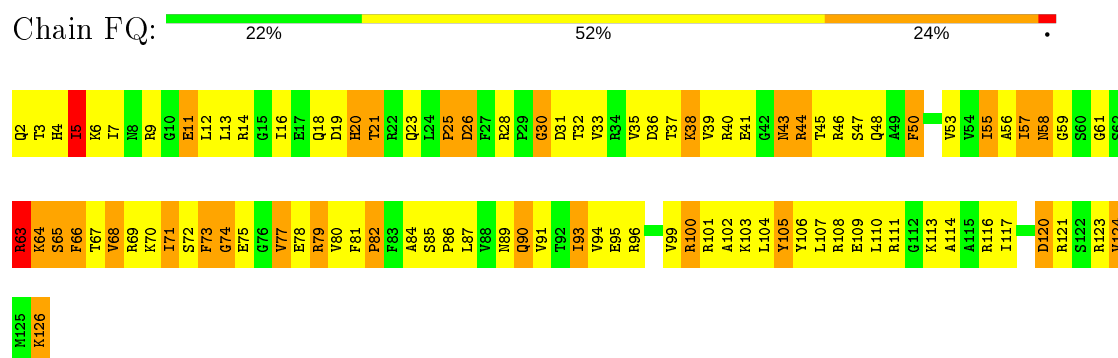
- Molecule 37: 50S ribosomal protein L19



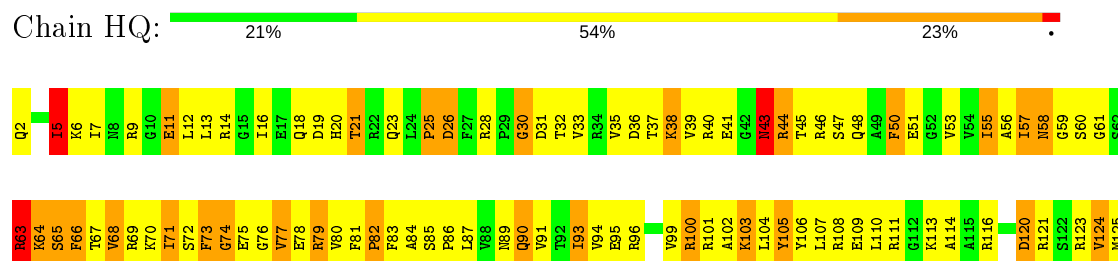
- Molecule 37: 50S ribosomal protein L19



- Molecule 37: 50S ribosomal protein L19



- Molecule 37: 50S ribosomal protein L19



K126

- Molecule 37: 50S ribosomal protein L19

Chain JQ: 

Q2 T3 H4 I5 K6 I7 N8 R9 G10 E11 L12 L13 L14 G15 I16 E17 Q18 D19 E20 H21 T21 R22 Q23 L24 P25 D26 F27 R28 R29 P29 G30 D31 T32 T33 R34 V35 D36 T37 K38 V39 R40 E41 G42 N43 R44 T45 R46 S47 Q48 A49 F50 V53 V54 I55 A56 I57 N58 G59 S60 G61 S62

R63 K64 S65 F66 T67 V68 R69 I70 I71 S72 F73 F74 G74 V77 E78 R79 V80 F81 R82 F83 S85 P86 L87 V88 N88 Q90 P91 T92 V94 E95 G97 K98 V99 R100 R101 A102 K103 L104 Y105 Y106 L107 R108 E109 L110 R111 G112 K113 A114 I115 R116 I117 S118 N119 D120 R121 S122 R123

V124
M125
K126

- Molecule 38: 50S ribosomal protein L20

Chain BR: 

P2 R3 A4 K5 T6 G7 I8 V9 R10 R11 K15 L18 L19 R20 A21 R22 G23 A25 S27 R28 S29 R30 Q31 R33 A35 F36 Q37 T38 L39 L40 N41 A42 A43 T44 Y45 E46 D49 R50 R51 N52 K53 K54 R55 D56 F57 R58 R59 L60 W61

L71 H72 G73 N74 N75 Y76 S77 T78 F79 R80 L81 G82 L83 D89 L90 N91 R92 K93 N94 A96 D97 R101 E102 P103 F106 L109 V110 D111 A112 S113 R114 Q118

- Molecule 38: 50S ribosomal protein L20

Chain DR: 

P2 R3 A4 K5 T6 G7 I8 V9 R10 R11 R12 R13 H14 K15 K16 V17 L18 L19 K20 A21 A22 G23 F24 W25 G26 S27 R28 S29 P30 K31 Y32 R33 N34 A35 F36 Q37 T38 L39 L40 N41 A42 A43 T44 Y45 E46 R48 D49 R50 R51 N52 K53 K54 R55 D56 F57 R58 R59 W61

I62 Q63 R64 I65 N66 L71 H72 G73 N74 N75 Y76 S77 T78 F79 R80 N81 G82 L83 D89 L90 N91 R92 K93 N94 A96 D97 R101 E102 F106 L109 V110 D111 A112 S113 R114 Q118

- Molecule 38: 50S ribosomal protein L20

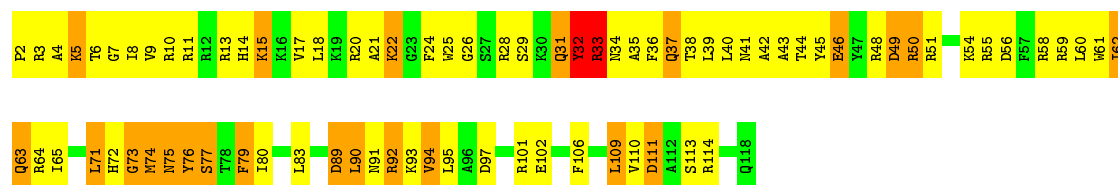
Chain FR: 

P2 R3 A4 K5 T6 G7 I8 V9 R10 R11 R12 R13 H14 K15 K16 V17 L18 L19 K20 A21 A22 G23 F24 W25 G26 S27 R28 S29 P30 K31 Y32 R33 N34 A35 F36 Q37 T38 L39 L40 N41 A42 A43 T44 Y45 E46 R48 D49 R50 R51 N52 K53 K54 R55 D56 F57 R58 R59 W61

I62 Q63 R64 I65 N66 L71 H72 G73 N74 N75 Y76 S77 T78 F79 R80 N81 G82 L83 D87 I88 F89 V94 N95 A96 D97 R98 R101 E102 P103 F106 L109 V110 D111 A112 S113 R114 Q118

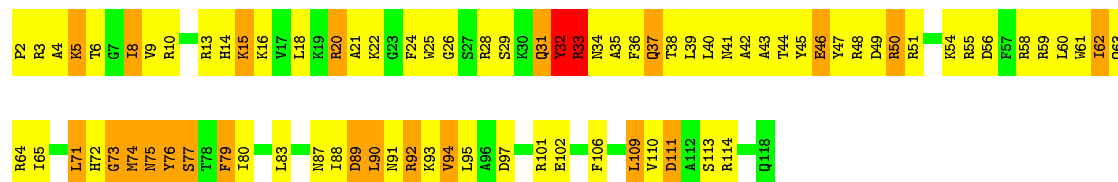
- Molecule 38: 50S ribosomal protein L20

Chain HR: 



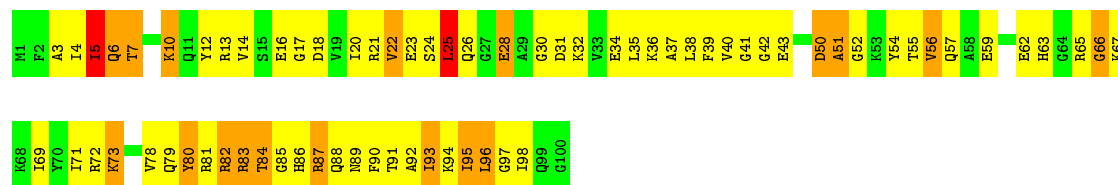
- Molecule 38: 50S ribosomal protein L20

Chain JR: 31% 49% 19%



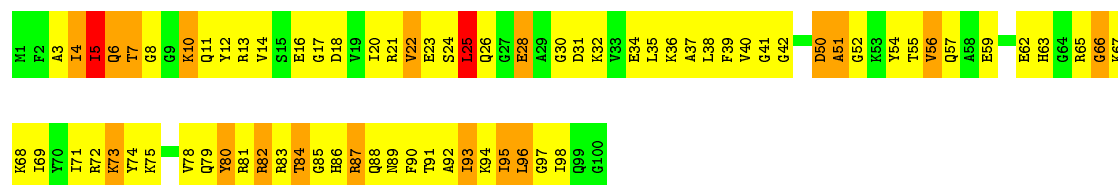
- Molecule 39: 50S ribosomal protein L21

Chain BS: 29% 51% 18%



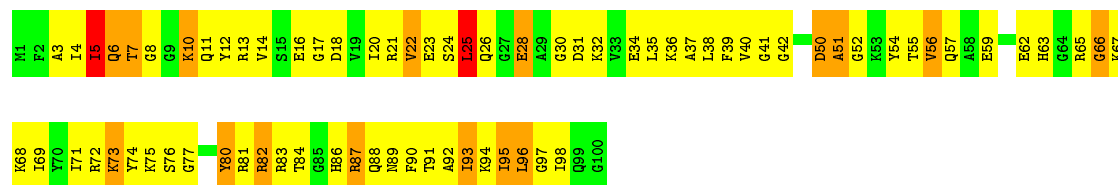
- Molecule 39: 50S ribosomal protein L21

Chain DS: 25% 55% 18%



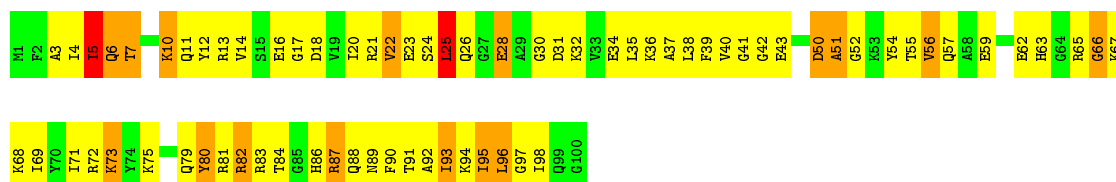
- Molecule 39: 50S ribosomal protein L21

Chain FS: 26% 56% 16%

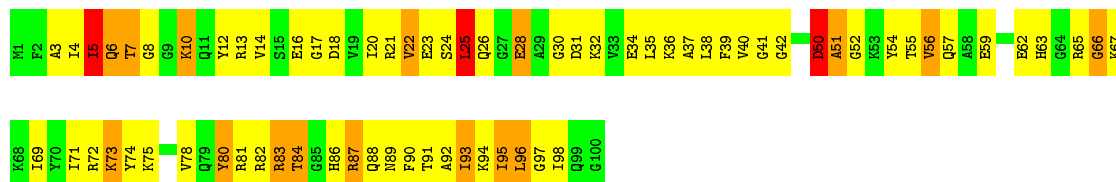


- Molecule 39: 50S ribosomal protein L21

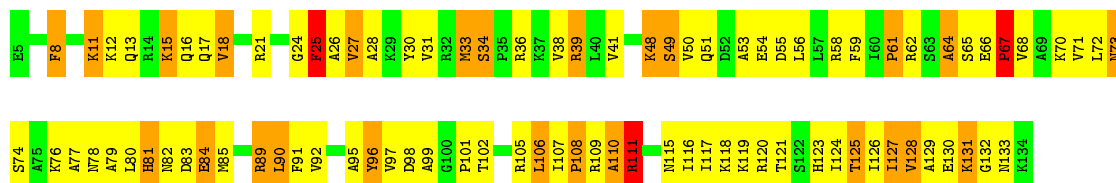
Chain HS: 28% 54% 16%



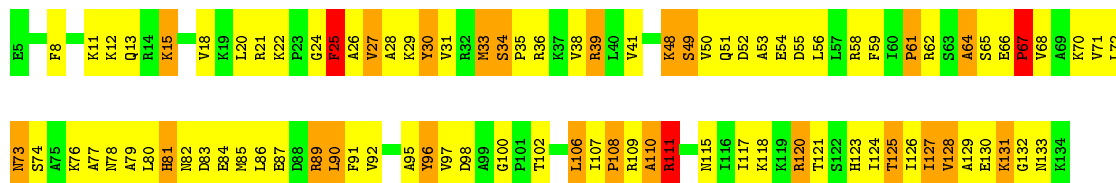
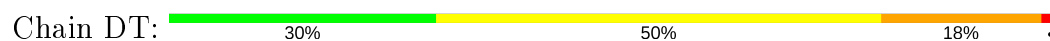
- Molecule 39: 50S ribosomal protein L21



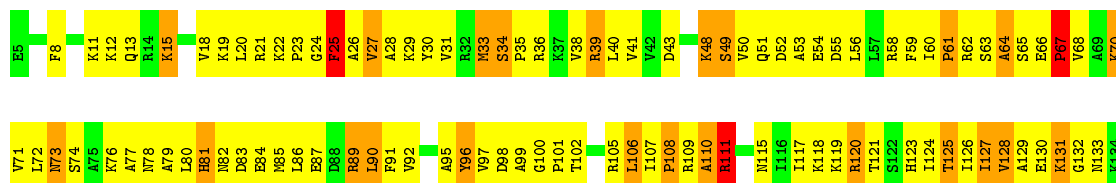
- Molecule 40: 50S ribosomal protein L22



- Molecule 40: 50S ribosomal protein L22

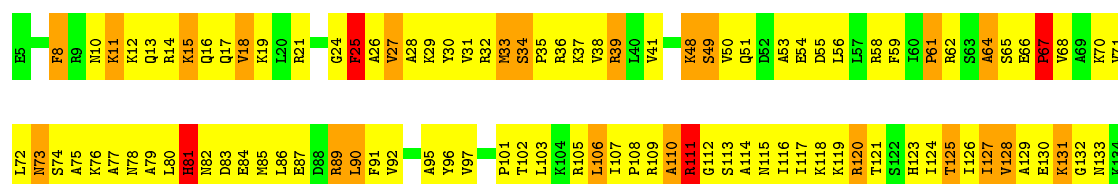


- Molecule 40: 50S ribosomal protein L22

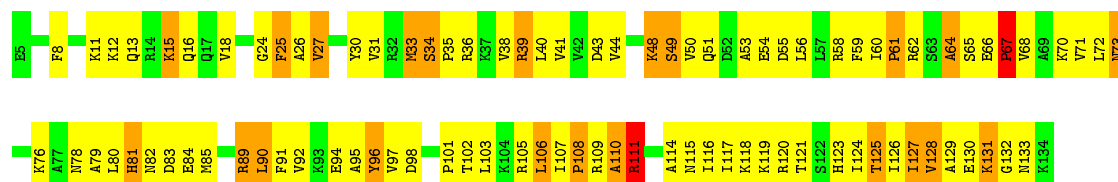


- Molecule 40: 50S ribosomal protein L22

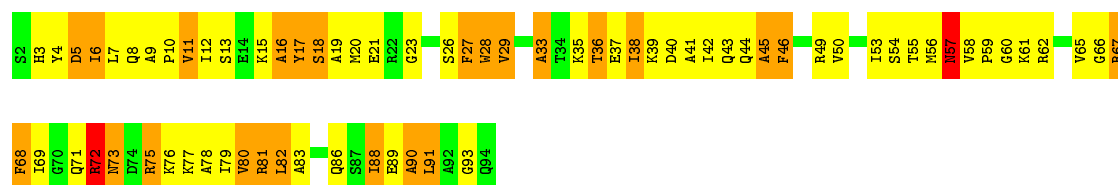




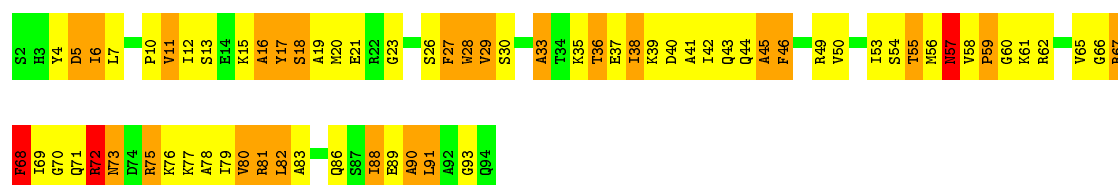
- Molecule 40: 50S ribosomal protein L22



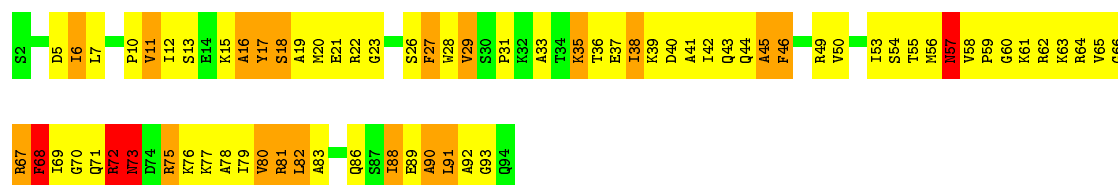
- Molecule 41: 50S ribosomal protein L23



- Molecule 41: 50S ribosomal protein L23

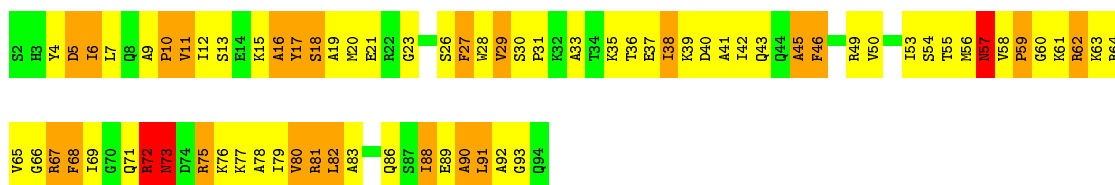


- Molecule 41: 50S ribosomal protein L23

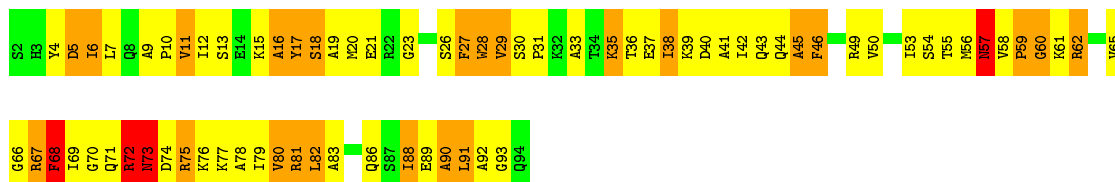


- Molecule 41: 50S ribosomal protein L23

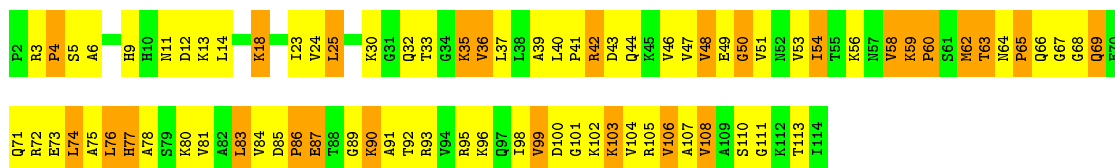




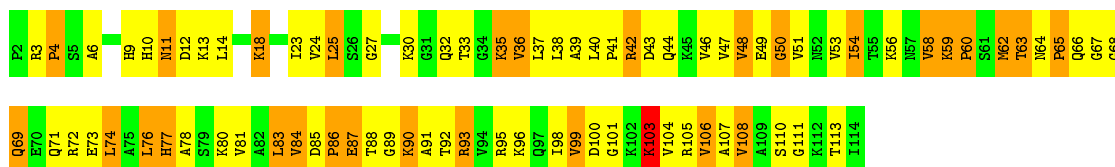
- Molecule 41: 50S ribosomal protein L23



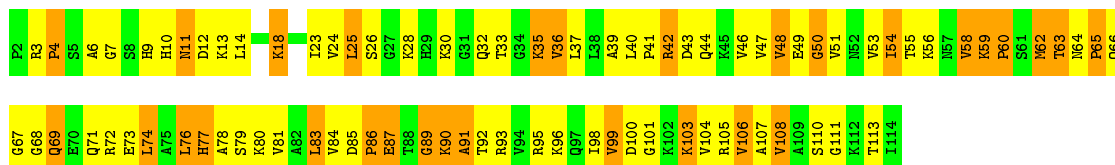
- Molecule 42: 50S ribosomal protein L24



- Molecule 42: 50S ribosomal protein L24

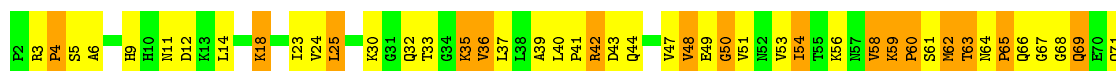


- Molecule 42: 50S ribosomal protein L24



- Molecule 42: 50S ribosomal protein L24

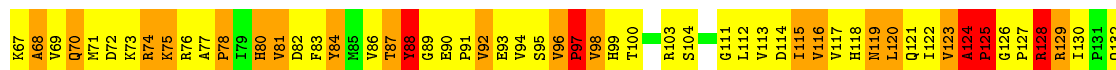




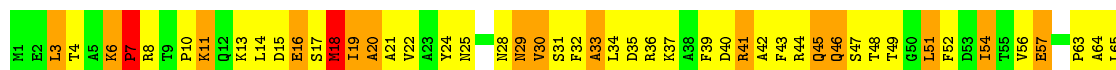
- Molecule 42: 50S ribosomal protein L24



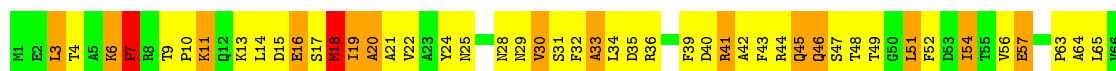
- Molecule 43: general stress protein Ctc

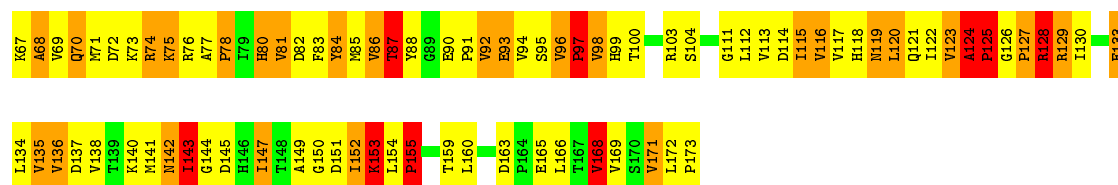


- Molecule 43: general stress protein Ctc



- Molecule 43: general stress protein Ctc





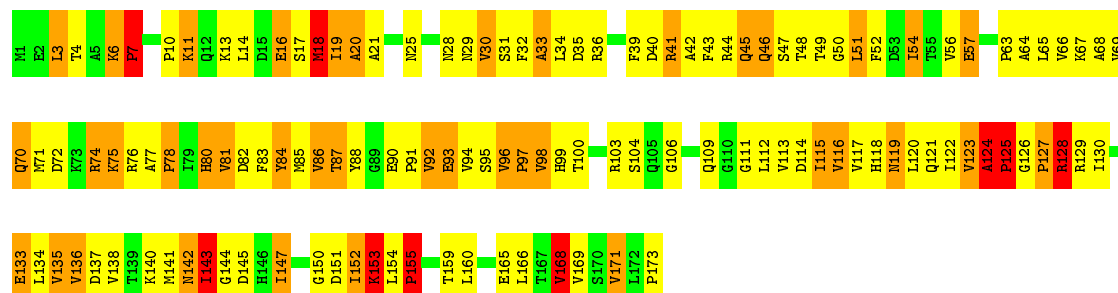
- Molecule 43: general stress protein Ctc

Chain HW: 24% 48% 23% 5%



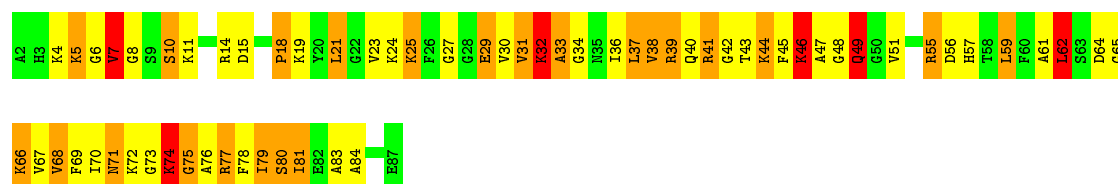
- Molecule 43: general stress protein Ctc

Chain JW: 27% 45% 23% 5%



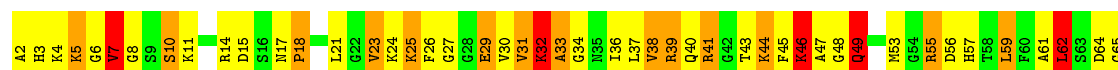
- Molecule 44: 50S ribosomal protein L27

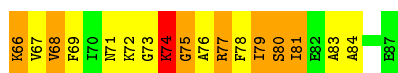
Chain BX: 27% 40% 27% 7%



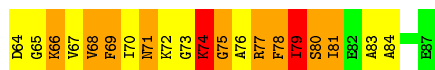
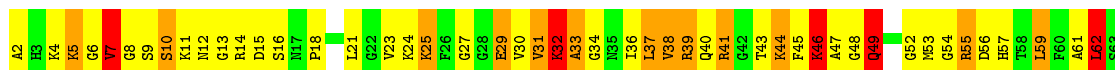
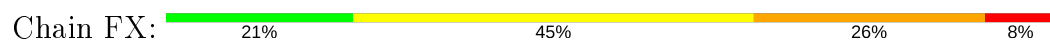
- Molecule 44: 50S ribosomal protein L27

Chain DX: 26% 43% 24% 7%

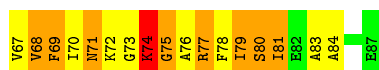
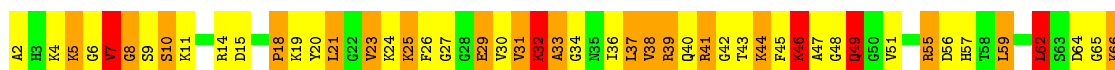
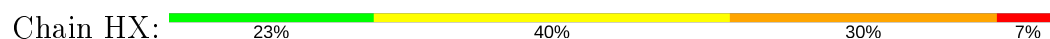




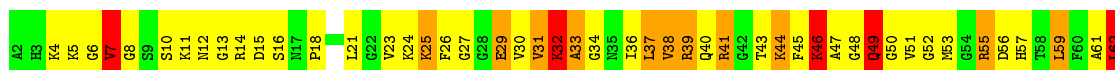
- Molecule 44: 50S ribosomal protein L27



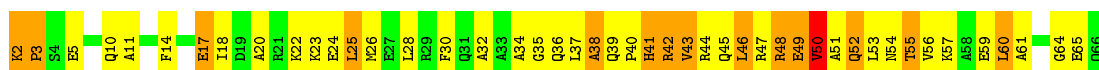
- Molecule 44: 50S ribosomal protein L27



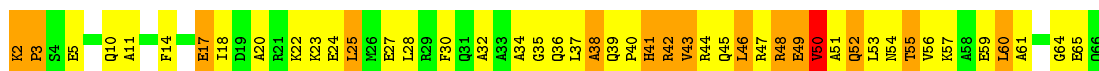
- Molecule 44: 50S ribosomal protein L27



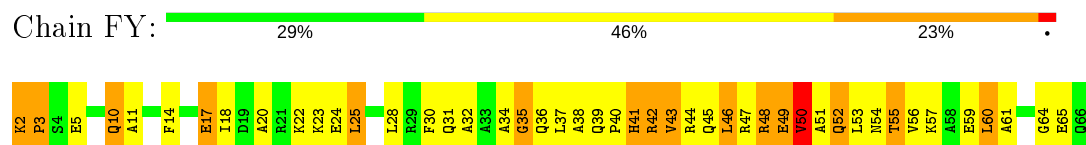
- Molecule 45: 50S ribosomal protein L29



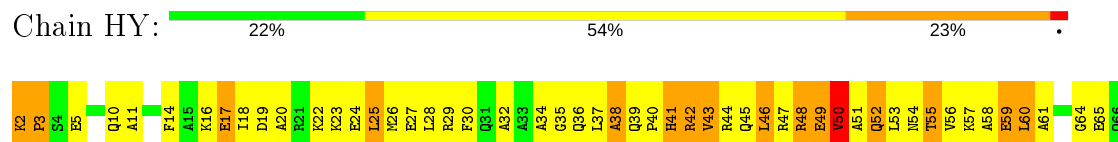
- Molecule 45: 50S ribosomal protein L29



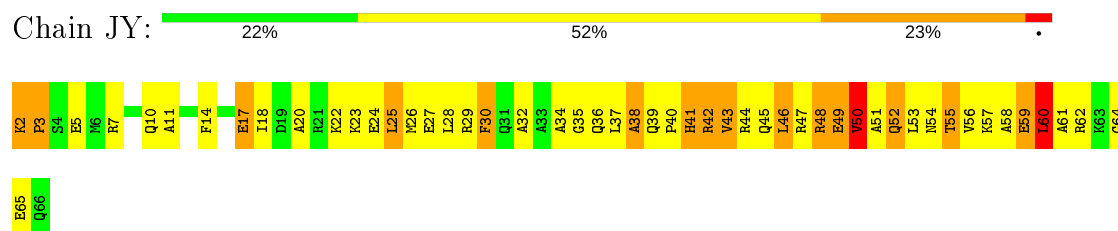
- Molecule 45: 50S ribosomal protein L29



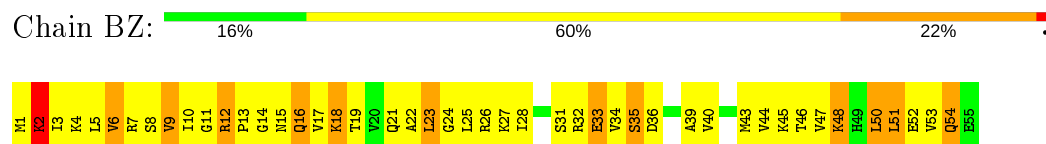
- Molecule 45: 50S ribosomal protein L29



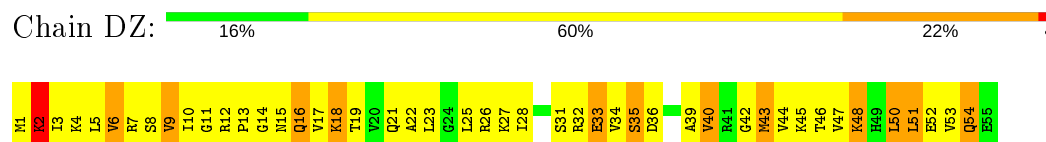
- Molecule 45: 50S ribosomal protein L29



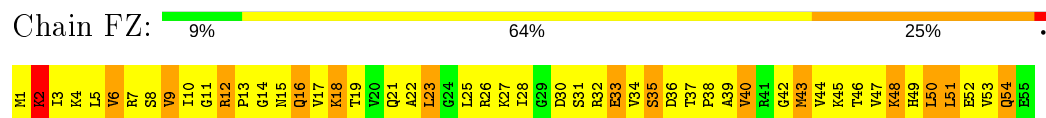
- Molecule 46: 50S ribosomal protein L30



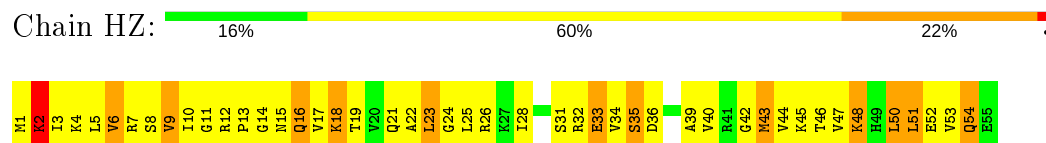
- Molecule 46: 50S ribosomal protein L30



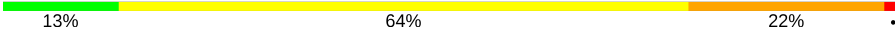
- Molecule 46: 50S ribosomal protein L30

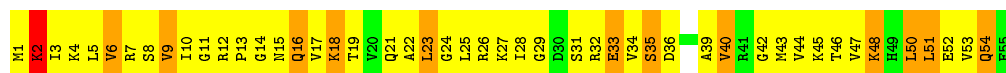


- Molecule 46: 50S ribosomal protein L30



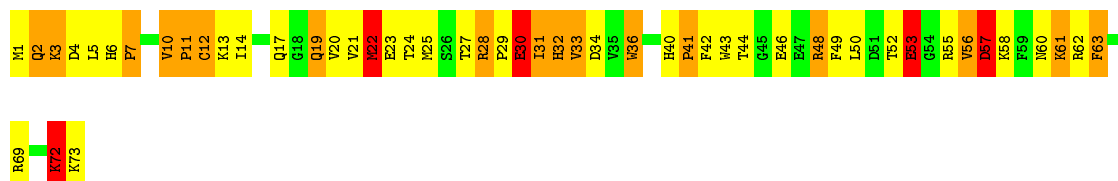
- Molecule 46: 50S ribosomal protein L30

Chain JZ: 




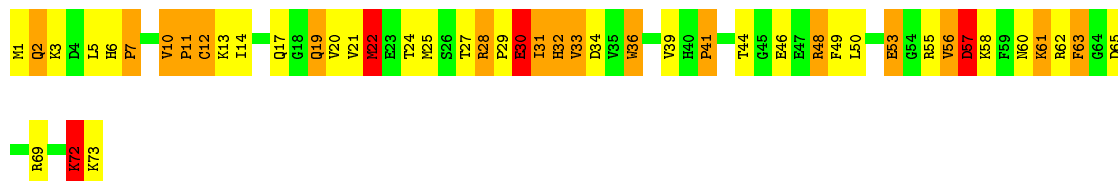
- Molecule 47: 50S ribosomal protein L31

Chain B1: 



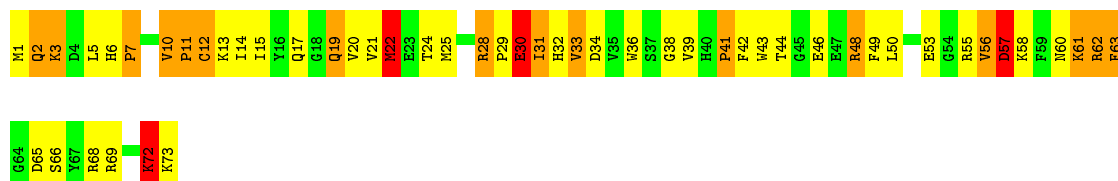
- Molecule 47: 50S ribosomal protein L31

Chain D1: 

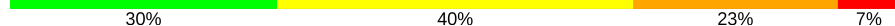


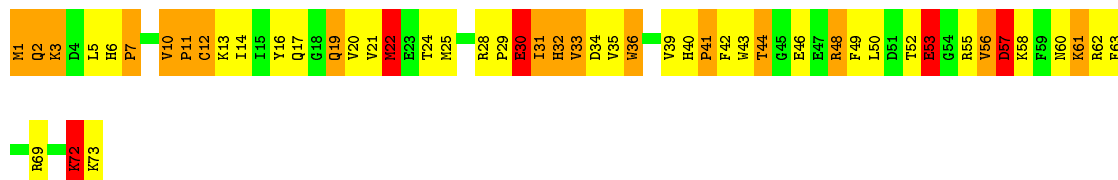
- Molecule 47: 50S ribosomal protein L31

Chain F1: 

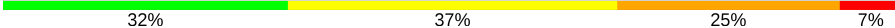


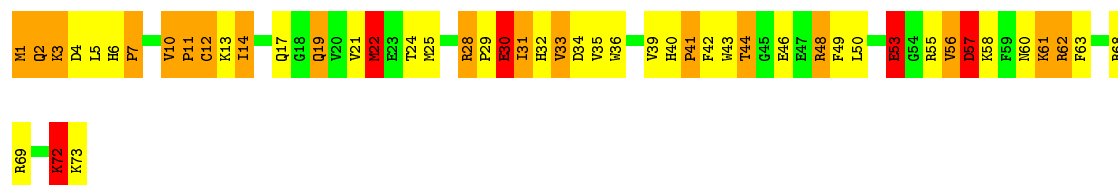
- Molecule 47: 50S ribosomal protein L31

Chain H1: 



- Molecule 47: 50S ribosomal protein L31

Chain J1: 



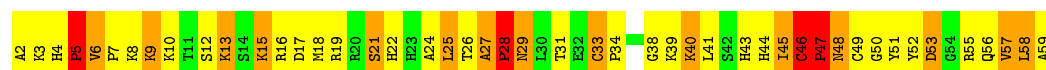
- Molecule 48: 50S ribosomal protein L32

Chain B2: 16% 53% 26% 5%



- Molecule 48: 50S ribosomal protein L32

Chain D2: 19% 48% 26% 7%



- Molecule 48: 50S ribosomal protein L32

Chain F2: 24% 48% 21% 7%



- Molecule 48: 50S ribosomal protein L32

Chain H2: 12% 57% 26% 5%



- Molecule 48: 50S ribosomal protein L32

Chain J2: 16% 50% 28% 7%



- Molecule 49: 50S ribosomal protein L33

Chain B3: 21% 38% 32% 9%



- Molecule 49: 50S ribosomal protein L33

Chain D3: 13% 47% 30% 9%



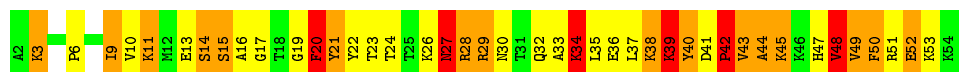
- Molecule 49: 50S ribosomal protein L33

Chain F3: 11% 45% 32% 11%



- Molecule 49: 50S ribosomal protein L33

Chain H3: 21% 38% 30% 11%



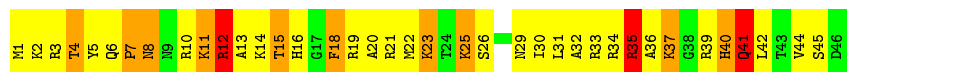
- Molecule 49: 50S ribosomal protein L33

Chain J3: 11% 47% 30% 11%



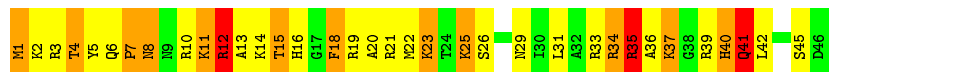
- Molecule 50: 50S ribosomal protein L34

Chain B4: 17% 54% 22% 7%



- Molecule 50: 50S ribosomal protein L34

Chain D4: 24% 43% 26% 7%



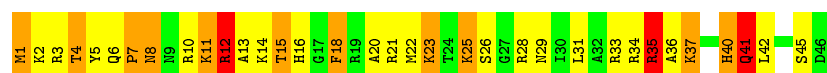
- Molecule 50: 50S ribosomal protein L34

Chain F4: 24% 43% 26% 7%

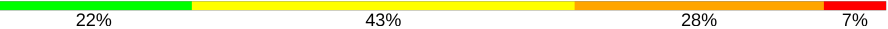


- Molecule 50: 50S ribosomal protein L34

Chain H4: 

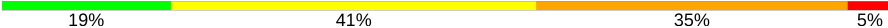


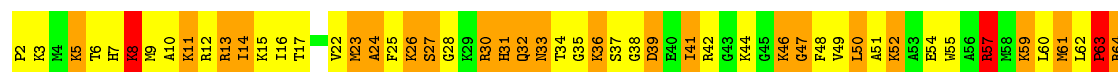
- Molecule 50: 50S ribosomal protein L34

Chain J4: 




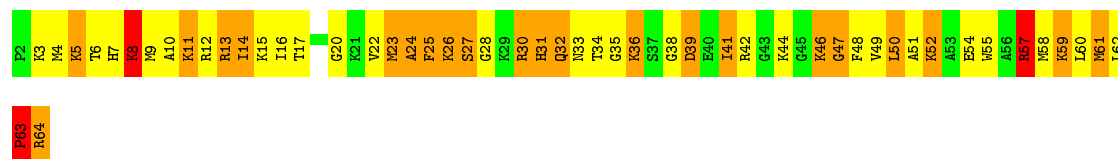
- Molecule 51: 50S ribosomal protein L35

Chain B5: 



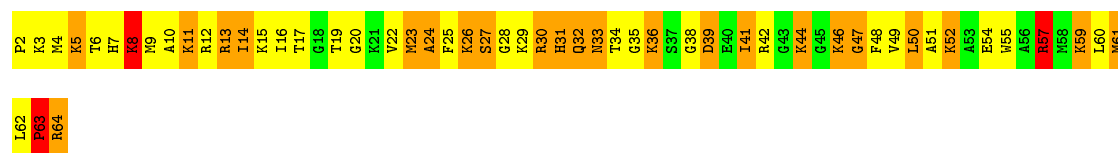
- Molecule 51: 50S ribosomal protein L35

Chain D5: 

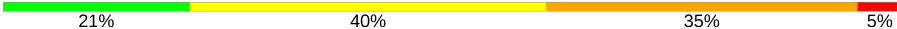


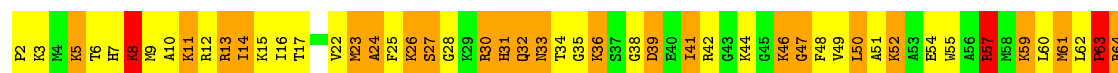
- Molecule 51: 50S ribosomal protein L35

Chain F5: 




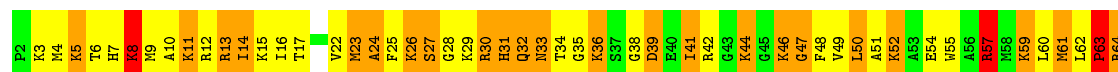
- Molecule 51: 50S ribosomal protein L35

Chain H5: 

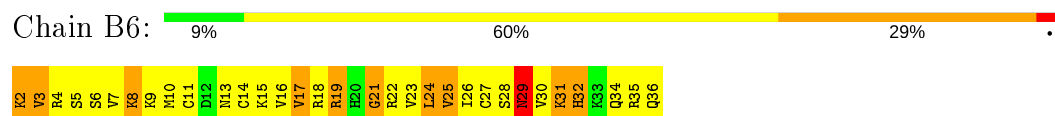


- Molecule 51: 50S ribosomal protein L35

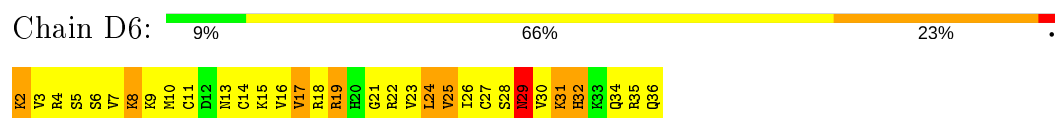
Chain J5: 



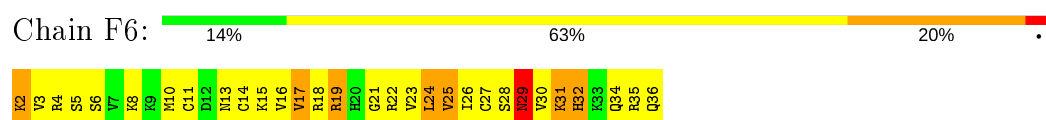
- Molecule 52: 50S ribosomal protein L36



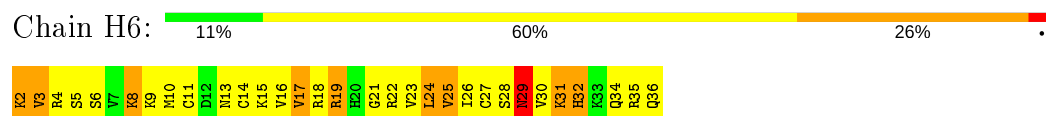
- Molecule 52: 50S ribosomal protein L36



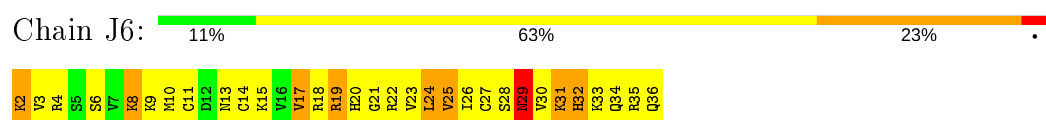
- Molecule 52: 50S ribosomal protein L36



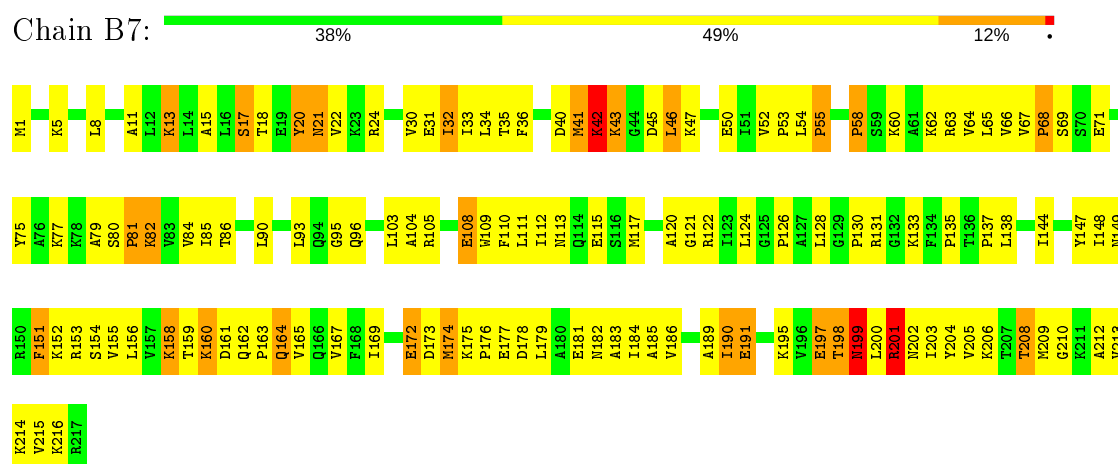
- Molecule 52: 50S ribosomal protein L36



- Molecule 52: 50S ribosomal protein L36

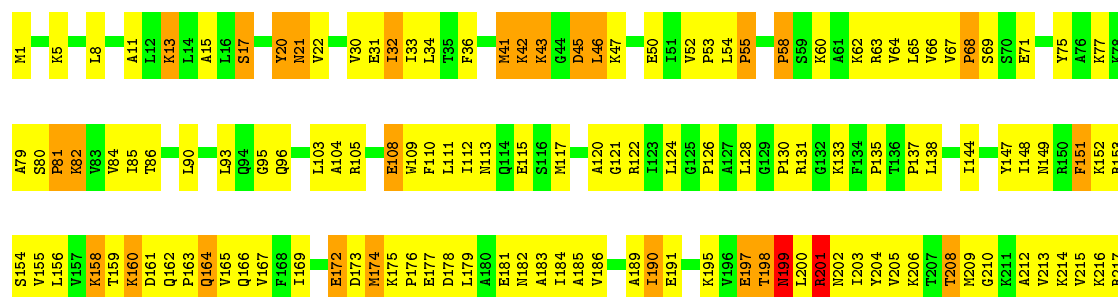


- Molecule 53: 50S ribosomal protein L1P



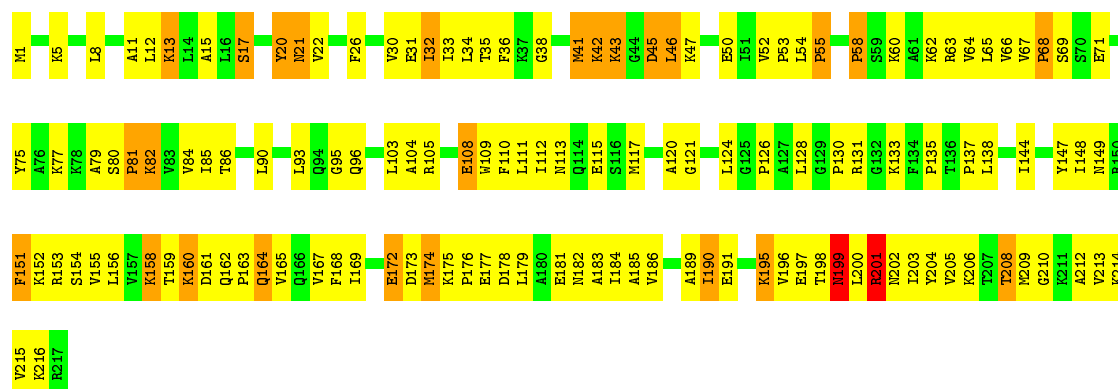
- Molecule 53: 50S ribosomal protein L1P

Chain D7: 



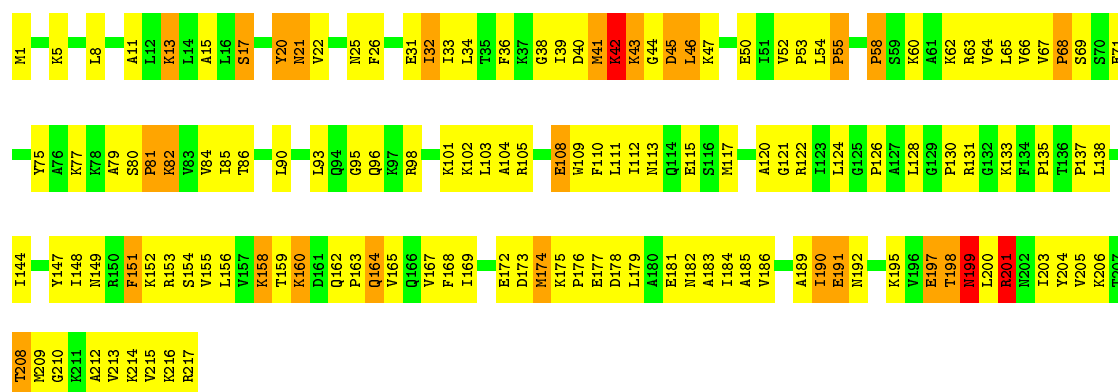
• Molecule 53: 50S ribosomal protein L1P

Chain F7: 



• Molecule 53: 50S ribosomal protein L1P

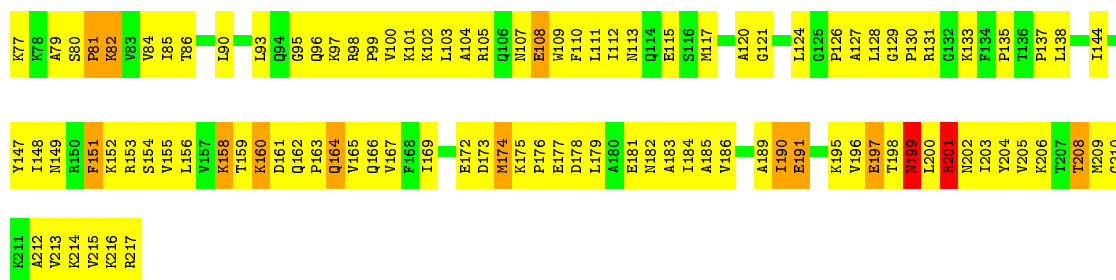
Chain H7: 



• Molecule 53: 50S ribosomal protein L1P

Chain J7: 





4 Data and refinement statistics

Property	Value	Source
Space group	I 4 2 2	Depositor
Cell constants a, b, c, α , β , γ	687.90Å 687.90Å 1933.30Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	500.00 – 11.50 486.42 – 11.53	Depositor EDS
% Data completeness (in resolution range)	93.9 (500.00-11.50) 76.3 (486.42-11.53)	Depositor EDS
R_{merge}	(Not available)	Depositor
R_{sym}	0.18	Depositor
$\langle I/\sigma(I) \rangle$	-	Xtrriage
Refinement program	CNS	Depositor
R, R_{free}	0.395 , 0.401 0.386 , 0.401	Depositor DCC
R_{free} test set	7421 reflections (10.12%)	wwPDB-VP
Wilson B-factor (Å ²)	(Not available)	Xtrriage
Anisotropy	(Not available)	Xtrriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.93 , -10.0	EDS
L-test for twinning ¹	$\langle L \rangle =$ (Not available), $\langle L^2 \rangle =$ (Not available)	Xtrriage
Estimated twinning fraction	No twinning to report.	Xtrriage
F_o, F_c correlation	0.84	EDS
Total number of atoms	717805	wwPDB-VP
Average B, all atoms (Å ²)	803.0	wwPDB-VP

Xtrriage's analysis on translational NCS is as follows: (*Not available*)

¹Theoretical values of $\langle |L| \rangle$, $\langle L^2 \rangle$ for acentric reflections are 0.5, 0.333 respectively for untwinned datasets, and 0.375, 0.2 for perfectly twinned datasets.

5 Model quality ⓘ

5.1 Standard geometry ⓘ

The Z score for a bond length (or angle) is the number of standard deviations the observed value is removed from the expected value. A bond length (or angle) with $|Z| > 5$ is considered an outlier worth inspection. RMSZ is the root-mean-square of all Z scores of the bond lengths (or angles).

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# $ Z > 5$	RMSZ	# $ Z > 5$
1	AA	0.30	1/36713 (0.0%)	0.74	16/57289 (0.0%)
1	CA	0.30	1/36713 (0.0%)	0.74	15/57289 (0.0%)
1	EA	0.39	2/36714 (0.0%)	0.77	21/57293 (0.0%)
1	GA	0.39	2/36714 (0.0%)	0.75	19/57293 (0.0%)
1	IA	0.36	1/36714 (0.0%)	0.78	20/57293 (0.0%)
2	AB	0.26	0/1936	0.55	0/2609
2	CB	0.26	0/1936	0.55	0/2609
2	EB	0.26	0/1936	0.55	0/2609
2	GB	0.26	0/1936	0.55	0/2609
2	IB	0.26	0/1936	0.55	0/2609
3	AC	0.24	0/1637	0.53	0/2205
3	CC	0.24	0/1637	0.53	0/2205
3	EC	0.24	0/1637	0.53	0/2205
3	GC	0.24	0/1637	0.53	0/2205
3	IC	0.25	0/1637	0.53	0/2205
4	AD	0.24	0/1733	0.49	0/2318
4	CD	0.25	0/1733	0.49	0/2318
4	ED	0.25	0/1733	0.49	0/2318
4	GD	0.25	0/1733	0.49	0/2318
4	ID	0.25	0/1733	0.49	0/2318
5	AE	0.28	0/1163	0.59	0/1564
5	CE	0.28	0/1163	0.59	0/1564
5	EE	0.28	0/1163	0.59	0/1564
5	GE	0.28	0/1163	0.59	0/1564
5	IE	0.27	0/1163	0.59	0/1564
6	AF	0.24	0/856	0.52	0/1154
6	CF	0.24	0/856	0.52	0/1154
6	EF	0.24	0/856	0.52	0/1154
6	GF	0.24	0/856	0.52	0/1154
6	IF	0.24	0/856	0.52	0/1154
7	AG	0.24	0/1276	0.50	0/1709
7	CG	0.24	0/1276	0.50	0/1709
7	EG	0.25	0/1276	0.50	0/1709
7	GG	0.25	0/1276	0.50	0/1709

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
7	IG	0.25	0/1276	0.50	0/1709
8	AH	0.25	0/1136	0.56	0/1527
8	CH	0.25	0/1136	0.56	0/1527
8	EH	0.25	0/1136	0.56	0/1527
8	GH	0.25	0/1136	0.56	0/1527
8	IH	0.25	0/1136	0.56	0/1527
9	AI	0.26	0/1029	0.51	0/1378
9	CI	0.26	0/1029	0.51	0/1378
9	EI	0.25	0/1029	0.51	0/1378
9	GI	0.25	0/1029	0.51	0/1378
9	II	0.25	0/1029	0.51	0/1378
10	AJ	0.25	0/808	0.59	0/1085
10	CJ	0.25	0/808	0.59	0/1085
10	EJ	0.25	0/808	0.59	0/1085
10	GJ	0.25	0/808	0.58	0/1085
10	IJ	0.25	0/808	0.59	0/1085
11	AK	0.24	0/900	0.56	0/1213
11	CK	0.24	0/900	0.56	0/1213
11	EK	0.24	0/900	0.56	0/1213
11	GK	0.24	0/900	0.56	0/1213
11	IK	0.24	0/900	0.56	0/1213
12	AL	0.49	1/985 (0.1%)	0.68	1/1314 (0.1%)
12	CL	0.25	0/984	0.58	0/1311
12	EL	0.35	1/985 (0.1%)	0.83	3/1314 (0.2%)
12	GL	0.25	0/984	0.58	0/1311
12	IL	0.86	1/985 (0.1%)	0.70	2/1314 (0.2%)
13	AM	0.27	0/1007	0.87	3/1344 (0.2%)
13	CM	0.26	0/1006	0.59	1/1341 (0.1%)
13	EM	0.26	0/1006	0.58	1/1341 (0.1%)
13	GM	0.52	1/1007 (0.1%)	1.07	3/1344 (0.2%)
13	IM	0.27	0/1006	0.58	1/1341 (0.1%)
14	AN	0.27	0/501	0.59	0/664
14	CN	0.27	0/501	0.59	0/664
14	EN	0.27	0/501	0.59	0/664
14	GN	0.27	0/501	0.59	0/664
14	IN	0.28	0/501	0.59	0/664
15	AO	0.24	0/745	0.51	0/992
15	CO	0.24	0/745	0.51	0/992
15	EO	0.24	0/745	0.51	0/992
15	GO	0.24	0/745	0.51	0/992
15	IO	0.24	0/745	0.51	0/992
16	AP	0.26	0/717	0.58	0/963
16	CP	0.26	0/717	0.58	0/963

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
16	EP	0.26	0/717	0.58	0/963
16	GP	0.26	0/717	0.58	0/963
16	IP	0.26	0/717	0.59	0/963
17	AQ	0.26	0/870	0.59	0/1159
17	CQ	0.26	0/870	0.59	0/1159
17	EQ	0.26	0/870	0.59	0/1159
17	GQ	0.26	0/870	0.59	0/1159
17	IQ	0.26	0/870	0.59	0/1159
18	AR	0.26	0/603	0.52	0/799
18	CR	0.26	0/603	0.52	0/799
18	ER	0.26	0/603	0.52	0/799
18	GR	0.26	0/603	0.52	0/799
18	IR	0.26	0/603	0.52	0/799
19	AS	0.25	0/662	0.60	0/890
19	CS	0.25	0/662	0.60	0/890
19	ES	0.25	0/662	0.60	0/890
19	GS	0.25	0/662	0.60	0/890
19	IS	0.25	0/662	0.60	0/890
20	AT	0.30	0/764	0.68	1/1006 (0.1%)
20	CT	0.29	0/764	0.68	1/1006 (0.1%)
20	ET	0.30	0/764	0.68	1/1006 (0.1%)
20	GT	0.29	0/764	0.68	1/1006 (0.1%)
20	IT	0.29	0/764	0.68	1/1006 (0.1%)
21	Aa	0.23	0/731	0.36	0/987
21	Ca	0.23	0/731	0.36	0/987
21	Ea	0.23	0/731	0.36	0/987
21	Ga	0.23	0/731	0.36	0/987
21	Ia	0.23	0/731	0.36	0/987
22	BB	0.90	55/67883 (0.1%)	0.93	143/105846 (0.1%)
22	DB	0.87	62/67886 (0.1%)	0.89	142/105858 (0.1%)
22	FB	0.85	58/67883 (0.1%)	0.92	138/105846 (0.1%)
22	HB	0.80	57/67884 (0.1%)	0.92	146/105850 (0.1%)
22	JB	0.81	56/67885 (0.1%)	0.85	130/105854 (0.1%)
23	BA	0.35	0/2816	0.75	0/4388
23	DA	0.35	0/2816	0.75	0/4388
23	FA	0.35	0/2816	0.75	0/4388
23	HA	0.35	0/2816	0.75	0/4388
23	JA	0.34	0/2816	0.75	0/4388
24	BD	0.33	0/2121	0.90	2/2854 (0.1%)
24	DD	0.33	0/2121	0.90	2/2854 (0.1%)
24	FD	0.33	0/2121	0.90	2/2854 (0.1%)
24	HD	0.32	0/2121	0.90	2/2854 (0.1%)
24	JD	0.33	0/2121	0.90	2/2854 (0.1%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
25	BE	0.33	0/1568	0.92	8/2105 (0.4%)
25	DE	0.33	0/1568	0.92	8/2105 (0.4%)
25	FE	0.33	0/1568	0.92	8/2105 (0.4%)
25	HE	0.33	0/1568	0.92	8/2105 (0.4%)
25	JE	0.33	0/1568	0.92	8/2105 (0.4%)
26	BF	0.29	0/1530	0.75	0/2070
26	DF	0.29	0/1530	0.75	0/2070
26	FF	0.29	0/1530	0.75	0/2070
26	HF	0.30	0/1530	0.75	0/2070
26	JF	0.29	0/1530	0.75	0/2070
27	BG	0.32	0/1429	0.87	3/1915 (0.2%)
27	DG	0.32	0/1429	0.87	3/1915 (0.2%)
27	FG	0.32	0/1429	0.87	3/1915 (0.2%)
27	HG	0.31	0/1429	0.87	3/1915 (0.2%)
27	JG	0.32	0/1429	0.87	3/1915 (0.2%)
28	BH	0.29	0/1338	0.80	3/1810 (0.2%)
28	DH	0.29	0/1338	0.79	3/1810 (0.2%)
28	FH	0.29	0/1338	0.79	3/1810 (0.2%)
28	HH	0.29	0/1338	0.79	3/1810 (0.2%)
28	JH	0.29	0/1338	0.80	3/1810 (0.2%)
29	BI	0.36	0/405	0.96	3/545 (0.6%)
29	DI	0.35	0/405	0.97	3/545 (0.6%)
29	FI	0.35	0/405	0.97	3/545 (0.6%)
29	HI	0.35	0/405	0.97	3/545 (0.6%)
29	JI	0.36	0/405	0.97	3/545 (0.6%)
30	BJ	0.31	0/1058	0.88	2/1433 (0.1%)
30	DJ	0.31	0/1058	0.88	2/1433 (0.1%)
30	FJ	0.31	0/1058	0.88	2/1433 (0.1%)
30	HJ	0.31	0/1058	0.88	2/1433 (0.1%)
30	JJ	0.31	0/1058	0.88	2/1433 (0.1%)
31	BK	0.32	0/1146	0.87	3/1549 (0.2%)
31	DK	0.32	0/1146	0.87	3/1549 (0.2%)
31	FK	0.32	0/1146	0.87	3/1549 (0.2%)
31	HK	0.32	0/1146	0.87	3/1549 (0.2%)
31	JK	0.32	0/1146	0.87	3/1549 (0.2%)
32	BL	0.28	0/991	0.76	1/1331 (0.1%)
32	DL	0.28	0/991	0.76	1/1331 (0.1%)
32	FL	0.28	0/991	0.76	1/1331 (0.1%)
32	HL	0.28	0/991	0.76	1/1331 (0.1%)
32	JL	0.28	0/991	0.76	1/1331 (0.1%)
33	BM	0.32	0/1082	0.82	1/1448 (0.1%)
33	DM	0.32	0/1082	0.82	1/1448 (0.1%)
33	FM	0.32	0/1082	0.82	1/1448 (0.1%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
33	HM	0.32	0/1082	0.82	1/1448 (0.1%)
33	JM	0.32	0/1082	0.82	1/1448 (0.1%)
34	BN	0.36	0/1008	1.07	4/1346 (0.3%)
34	DN	0.36	0/1008	1.07	4/1346 (0.3%)
34	FN	0.36	0/1008	1.07	4/1346 (0.3%)
34	HN	0.36	0/1008	1.07	4/1346 (0.3%)
34	JN	0.36	0/1008	1.07	4/1346 (0.3%)
35	BO	0.28	0/894	0.79	0/1198
35	DO	0.28	0/894	0.79	0/1198
35	FO	0.27	0/894	0.79	0/1198
35	HO	0.27	0/894	0.79	0/1198
35	JO	0.28	0/894	0.79	0/1198
36	BP	0.29	0/841	0.70	0/1124
36	DP	0.28	0/841	0.70	0/1124
36	FP	0.28	0/841	0.70	0/1124
36	HP	0.28	0/841	0.70	0/1124
36	JP	0.28	0/841	0.70	0/1124
37	BQ	0.32	0/1021	0.90	3/1363 (0.2%)
37	DQ	0.32	0/1021	0.90	3/1363 (0.2%)
37	FQ	0.32	0/1021	0.90	3/1363 (0.2%)
37	HQ	0.32	0/1021	0.90	3/1363 (0.2%)
37	JQ	0.33	0/1021	0.90	3/1363 (0.2%)
38	BR	0.34	0/994	0.82	0/1323
38	DR	0.33	0/994	0.82	0/1323
38	FR	0.33	0/994	0.82	0/1323
38	HR	0.33	0/994	0.82	0/1323
38	JR	0.33	0/994	0.82	0/1323
39	BS	0.36	0/797	0.96	3/1061 (0.3%)
39	DS	0.35	0/797	0.96	3/1061 (0.3%)
39	FS	0.36	0/797	0.96	3/1061 (0.3%)
39	HS	0.36	0/797	0.96	3/1061 (0.3%)
39	JS	0.35	0/797	0.96	3/1061 (0.3%)
40	BT	0.31	0/1052	0.93	4/1407 (0.3%)
40	DT	0.31	0/1052	0.93	4/1407 (0.3%)
40	FT	0.31	0/1052	0.93	4/1407 (0.3%)
40	HT	0.31	0/1052	0.93	4/1407 (0.3%)
40	JT	0.31	0/1052	0.93	4/1407 (0.3%)
41	BU	0.33	0/738	0.87	2/988 (0.2%)
41	DU	0.32	0/738	0.87	2/988 (0.2%)
41	FU	0.33	0/738	0.87	2/988 (0.2%)
41	HU	0.33	0/738	0.87	2/988 (0.2%)
41	JU	0.33	0/738	0.87	2/988 (0.2%)
42	BV	0.28	0/863	0.92	1/1158 (0.1%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
42	DV	0.28	0/863	0.92	1/1158 (0.1%)
42	FV	0.29	0/863	0.92	1/1158 (0.1%)
42	HV	0.29	0/863	0.92	1/1158 (0.1%)
42	JV	0.29	0/863	0.92	1/1158 (0.1%)
43	BW	0.43	1/1351 (0.1%)	1.39	10/1833 (0.5%)
43	DW	0.32	0/1350	0.89	7/1830 (0.4%)
43	FW	0.33	0/1350	0.89	7/1830 (0.4%)
43	HW	0.32	0/1350	0.89	7/1830 (0.4%)
43	JW	0.32	0/1350	0.89	7/1830 (0.4%)
44	BX	0.35	0/650	1.09	5/860 (0.6%)
44	DX	0.36	0/650	1.09	5/860 (0.6%)
44	FX	0.36	0/650	1.09	5/860 (0.6%)
44	HX	0.36	0/650	1.08	5/860 (0.6%)
44	JX	0.36	0/650	1.09	5/860 (0.6%)
45	BY	0.32	0/530	1.08	5/704 (0.7%)
45	DY	0.32	0/530	1.08	5/704 (0.7%)
45	FY	0.32	0/530	1.08	5/704 (0.7%)
45	HY	0.32	0/530	1.08	5/704 (0.7%)
45	JY	0.32	0/530	1.08	5/704 (0.7%)
46	BZ	0.27	0/426	0.70	0/568
46	DZ	0.27	0/426	0.71	0/568
46	FZ	0.27	0/426	0.70	0/568
46	HZ	0.27	0/426	0.70	0/568
46	JZ	0.27	0/426	0.71	0/568
47	B1	0.40	0/620	0.87	2/831 (0.2%)
47	D1	0.40	0/620	0.87	2/831 (0.2%)
47	F1	0.40	0/620	0.87	1/831 (0.1%)
47	H1	0.40	0/620	0.88	2/831 (0.2%)
47	J1	0.40	0/620	0.87	1/831 (0.1%)
48	B2	0.33	0/470	1.37	5/629 (0.8%)
48	D2	0.33	0/470	1.37	6/629 (1.0%)
48	F2	0.33	0/470	1.37	5/629 (0.8%)
48	H2	0.33	0/470	1.37	5/629 (0.8%)
48	J2	0.33	0/470	1.37	6/629 (1.0%)
49	B3	0.45	0/439	0.89	0/583
49	D3	0.45	0/439	0.90	0/583
49	F3	0.45	0/439	0.89	0/583
49	H3	0.44	0/439	0.89	0/583
49	J3	0.45	0/439	0.89	0/583
50	B4	0.30	0/388	0.82	0/509
50	D4	0.30	0/388	0.82	0/509
50	F4	0.30	0/388	0.82	0/509
50	H4	0.30	0/388	0.82	0/509

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
50	J4	0.30	0/388	0.82	0/509
51	B5	0.32	0/503	0.81	2/657 (0.3%)
51	D5	0.32	0/503	0.81	2/657 (0.3%)
51	F5	0.32	0/503	0.81	2/657 (0.3%)
51	H5	0.33	0/503	0.81	2/657 (0.3%)
51	J5	0.32	0/503	0.82	2/657 (0.3%)
52	B6	0.28	0/286	0.76	0/375
52	D6	0.27	0/286	0.76	0/375
52	F6	0.27	0/286	0.76	0/375
52	H6	0.28	0/286	0.76	0/375
52	J6	0.28	0/286	0.76	0/375
53	B7	0.49	3/1740 (0.2%)	0.76	11/2333 (0.5%)
53	D7	0.49	3/1740 (0.2%)	0.76	11/2333 (0.5%)
53	F7	0.49	3/1740 (0.2%)	0.76	11/2333 (0.5%)
53	H7	0.49	3/1740 (0.2%)	0.76	11/2333 (0.5%)
53	J7	0.49	3/1740 (0.2%)	0.76	11/2333 (0.5%)
All	All	0.61	315/778750 (0.0%)	0.83	1213/1161574 (0.1%)

Chiral center outliers are detected by calculating the chiral volume of a chiral center and verifying if the center is modelled as a planar moiety or with the opposite hand. A planarity outlier is detected by checking planarity of atoms in a peptide group, atoms in a mainchain group or atoms of a sidechain that are expected to be planar.

Mol	Chain	#Chirality outliers	#Planarity outliers
1	AA	0	5
1	CA	0	5
1	EA	0	5
1	GA	0	5
1	IA	0	6
12	AL	0	1
12	EL	0	1
13	AM	0	1
13	GM	0	1
22	BB	0	21
22	DB	0	21
22	FB	0	21
22	HB	0	21
22	JB	0	21
24	BD	0	1
24	DD	0	1
24	FD	0	1
24	HD	0	1

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Mol	Chain	#Chirality outliers	#Planarity outliers
24	JD	0	1
27	BG	0	1
27	DG	0	1
27	FG	0	1
27	HG	0	1
27	JG	0	1
43	BW	0	1
All	All	0	146

All (315) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
22	BB	1888	C	O3'-P	-87.06	0.56	1.61
22	DB	1411	C	O3'-P	-62.45	0.86	1.61
22	FB	1047	G	O3'-P	-62.19	0.86	1.61
22	DB	1437	A	O3'-P	-58.70	0.90	1.61
22	FB	1586	A	O3'-P	-55.84	0.94	1.61
22	DB	2745	A	O3'-P	-54.65	0.95	1.61
22	FB	1752	U	O3'-P	-52.98	0.97	1.61
22	DB	1888	C	O3'-P	-52.53	0.98	1.61
22	FB	1004	A	O3'-P	49.41	2.20	1.61
22	BB	1453	A	O3'-P	-48.98	1.02	1.61
22	BB	3877	A	O3'-P	48.61	2.19	1.61
22	DB	1856	U	O3'-P	47.82	2.18	1.61
22	HB	1861	G	O3'-P	47.76	2.18	1.61
22	BB	2713	A	O3'-P	47.65	2.18	1.61
22	DB	1483	G	O3'-P	47.56	2.18	1.61
1	GA	919	A	O3'-P	47.49	2.18	1.61
22	BB	1483	G	O3'-P	-47.41	1.04	1.61
22	JB	2655	C	O3'-P	46.92	2.17	1.61
22	JB	2608	A	O3'-P	46.73	2.17	1.61
22	DB	69	G	O3'-P	46.33	2.16	1.61
22	JB	2407	G	O3'-P	46.09	2.16	1.61
22	FB	2471	U	O3'-P	46.02	2.16	1.61
22	BB	539	A	O3'-P	45.94	2.16	1.61
22	BB	2471	U	O3'-P	45.91	2.16	1.61
22	BB	115	G	O3'-P	-45.78	1.06	1.61
22	JB	857	U	O3'-P	-45.71	1.06	1.61
22	HB	2471	U	O3'-P	45.40	2.15	1.61
22	BB	1437	A	O3'-P	-45.02	1.07	1.61
22	JB	539	A	O3'-P	-45.02	1.07	1.61
22	FB	946	U	O3'-P	44.88	2.15	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
22	DB	539	A	O3'-P	44.61	2.14	1.61
22	BB	1119	U	O3'-P	44.50	2.14	1.61
1	EA	919	A	O3'-P	44.43	2.14	1.61
22	DB	1827	G	O3'-P	-44.11	1.08	1.61
22	BB	677	G	O3'-P	43.98	2.13	1.61
22	DB	1566	G	O3'-P	43.76	2.13	1.61
22	HB	1887	G	O3'-P	43.35	2.13	1.61
22	HB	737	C	O3'-P	43.20	2.12	1.61
22	BB	111	G	O3'-P	-43.03	1.09	1.61
22	JB	716	U	O3'-P	42.92	2.12	1.61
22	JB	1453	A	O3'-P	42.92	2.12	1.61
22	HB	511	A	O3'-P	42.90	2.12	1.61
22	DB	2552	C	O3'-P	42.78	2.12	1.61
22	JB	10	A	O3'-P	42.71	2.12	1.61
22	FB	156	G	O3'-P	-42.67	1.09	1.61
22	HB	2075	U	O3'-P	42.51	2.12	1.61
22	BB	2370	G	O3'-P	42.07	2.11	1.61
22	JB	2492	G	O3'-P	41.78	2.11	1.61
22	JB	603	C	O3'-P	41.35	2.10	1.61
22	HB	3877	A	O3'-P	41.28	2.10	1.61
22	HB	1613	G	O3'-P	-41.13	1.11	1.61
22	FB	1887	G	O3'-P	-40.98	1.11	1.61
22	JB	69	G	O3'-P	40.44	2.09	1.61
22	HB	539	A	O3'-P	39.59	2.08	1.61
22	BB	1047	G	O3'-P	39.53	2.08	1.61
22	FB	2370	G	O3'-P	39.48	2.08	1.61
22	DB	2623	A	O3'-P	-38.84	1.14	1.61
22	BB	487	G	O3'-P	38.60	2.07	1.61
22	HB	1453	A	O3'-P	-38.58	1.14	1.61
1	IA	1393	U	O3'-P	38.37	2.07	1.61
22	DB	1887	G	O3'-P	-38.37	1.15	1.61
22	HB	111	G	O3'-P	-38.25	1.15	1.61
22	FB	2623	A	O3'-P	38.23	2.07	1.61
22	FB	737	C	O3'-P	37.68	2.06	1.61
22	FB	3877	A	O3'-P	-37.65	1.16	1.61
22	BB	1856	U	O3'-P	-37.23	1.16	1.61
22	JB	511	A	O3'-P	37.21	2.05	1.61
22	FB	2533	U	O3'-P	37.16	2.05	1.61
22	JB	1698	C	O3'-P	37.03	2.05	1.61
22	HB	1752	U	O3'-P	36.72	2.05	1.61
22	DB	2704	U	O3'-P	35.81	2.04	1.61
22	HB	69	G	O3'-P	35.25	2.03	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
22	BB	1127	C	O3'-P	35.21	2.03	1.61
22	DB	568	G	O3'-P	34.98	2.03	1.61
22	BB	2203	G	O3'-P	34.61	2.02	1.61
22	JB	3877	A	O3'-P	-34.35	1.20	1.61
22	HB	115	G	O3'-P	-34.30	1.20	1.61
22	DB	1613	G	O3'-P	-33.73	1.20	1.61
22	JB	2533	U	O3'-P	-33.73	1.20	1.61
22	FB	1827	G	O3'-P	-33.65	1.20	1.61
22	JB	1827	G	O3'-P	33.52	2.01	1.61
22	HB	487	G	O3'-P	32.99	2.00	1.61
22	JB	2552	C	O3'-P	-32.90	1.21	1.61
22	FB	1437	A	O3'-P	32.42	2.00	1.61
22	JB	1437	A	O3'-P	32.32	2.00	1.61
22	DB	677	G	O3'-P	32.25	1.99	1.61
22	FB	1952	A	O3'-P	-31.64	1.23	1.61
22	HB	1036	G	O3'-P	31.25	1.98	1.61
22	FB	3197	U	O3'-P	31.12	1.98	1.61
22	FB	677	G	O3'-P	30.51	1.97	1.61
22	FB	1167	A	O3'-P	-29.82	1.25	1.61
22	HB	910	U	O3'-P	-29.75	1.25	1.61
22	BB	2655	C	O3'-P	29.61	1.96	1.61
22	BB	511	A	O3'-P	29.51	1.96	1.61
22	FB	1411	C	O3'-P	-28.65	1.26	1.61
22	JB	737	C	O3'-P	27.82	1.94	1.61
22	HB	2655	C	O3'-P	26.88	1.93	1.61
22	FB	2552	C	O3'-P	26.55	1.93	1.61
22	HB	1145	C	O3'-P	26.50	1.93	1.61
22	JB	1047	G	O3'-P	-26.25	1.29	1.61
22	FB	1566	G	O3'-P	26.18	1.92	1.61
22	DB	115	G	O3'-P	-25.92	1.30	1.61
12	IL	22	SER	C-N	25.90	1.93	1.34
22	FB	1145	C	O3'-P	-25.43	1.30	1.61
22	BB	1887	G	O3'-P	-25.38	1.30	1.61
22	JB	2203	G	O3'-P	25.33	1.91	1.61
22	FB	1127	C	O3'-P	-25.27	1.30	1.61
22	DB	1047	G	O3'-P	-25.04	1.31	1.61
22	FB	2745	A	O3'-P	-24.91	1.31	1.61
22	BB	2431	C	O3'-P	24.61	1.90	1.61
22	DB	2203	G	O3'-P	24.49	1.90	1.61
22	HB	2533	U	O3'-P	-24.41	1.31	1.61
22	DB	511	A	O3'-P	24.15	1.90	1.61
22	JB	1309	G	O3'-P	-24.14	1.32	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
22	JB	2623	A	O3'-P	23.71	1.89	1.61
22	BB	568	G	O3'-P	-23.40	1.33	1.61
22	HB	1167	A	O3'-P	23.31	1.89	1.61
22	JB	1197	U	O3'-P	-22.94	1.33	1.61
22	HB	1437	A	O3'-P	-22.87	1.33	1.61
22	FB	2407	G	O3'-P	22.86	1.88	1.61
22	FB	2260	C	O3'-P	22.85	1.88	1.61
22	BB	1952	A	O3'-P	-22.81	1.33	1.61
22	HB	1827	G	O3'-P	-22.48	1.34	1.61
22	BB	10	A	O3'-P	22.40	1.88	1.61
22	HB	2524	G	O3'-P	-21.87	1.34	1.61
22	HB	677	G	O3'-P	-21.18	1.35	1.61
22	FB	1036	G	O3'-P	-20.75	1.36	1.61
22	HB	1566	G	O3'-P	-20.73	1.36	1.61
22	DB	2524	G	O3'-P	-20.66	1.36	1.61
22	JB	1856	U	O3'-P	-20.66	1.36	1.61
22	HB	1309	G	O3'-P	-20.46	1.36	1.61
22	HB	2552	C	O3'-P	20.42	1.85	1.61
22	HB	1952	A	O3'-P	20.31	1.85	1.61
22	DB	1752	U	O3'-P	20.30	1.85	1.61
22	DB	1036	G	O3'-P	-20.19	1.36	1.61
22	BB	716	U	O3'-P	20.04	1.85	1.61
22	HB	1856	U	O3'-P	-19.66	1.37	1.61
1	EA	1393	U	O3'-P	19.65	1.84	1.61
22	JB	1127	C	O3'-P	19.62	1.84	1.61
22	DB	2655	C	O3'-P	19.16	1.84	1.61
22	DB	1127	C	O3'-P	-19.10	1.38	1.61
22	DB	111	G	O3'-P	18.43	1.83	1.61
22	BB	2608	A	O3'-P	18.25	1.83	1.61
22	DB	1004	A	O3'-P	17.72	1.82	1.61
22	HB	1888	C	O3'-P	17.52	1.82	1.61
22	HB	2492	G	O3'-P	-17.36	1.40	1.61
22	FB	1888	C	O3'-P	-17.20	1.40	1.61
22	DB	1586	A	O3'-P	16.89	1.81	1.61
22	DB	2260	C	O3'-P	-16.87	1.41	1.61
22	FB	568	G	O3'-P	16.86	1.81	1.61
22	FB	2655	C	O3'-P	-16.84	1.41	1.61
22	FB	2492	G	O3'-P	16.62	1.81	1.61
22	BB	2704	U	O3'-P	-16.45	1.41	1.61
22	JB	1167	A	O3'-P	-16.44	1.41	1.61
22	HB	603	C	O3'-P	-16.43	1.41	1.61
22	BB	1004	A	O3'-P	16.40	1.80	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
22	HB	2370	G	O3'-P	16.34	1.80	1.61
22	DB	1145	C	O3'-P	-15.46	1.42	1.61
22	DB	10	A	O3'-P	-15.38	1.42	1.61
22	HB	1287	A	O3'-P	-14.77	1.43	1.61
22	FB	1856	U	O3'-P	14.77	1.78	1.61
22	BB	3197	U	O3'-P	-14.64	1.43	1.61
22	FB	487	G	O3'-P	14.58	1.78	1.61
13	GM	89	GLY	C-N	-14.12	1.01	1.34
22	JB	2713	A	O3'-P	13.97	1.77	1.61
22	DB	737	C	O3'-P	-13.94	1.44	1.61
22	DB	603	C	O3'-P	13.81	1.77	1.61
22	JB	1566	G	O3'-P	13.45	1.77	1.61
22	JB	111	G	O3'-P	13.40	1.77	1.61
12	AL	19	ARG	C-N	13.23	1.64	1.34
22	JB	677	G	O3'-P	-12.87	1.45	1.61
22	DB	2608	A	O3'-P	-12.77	1.45	1.61
22	JB	1532	A	O3'-P	12.67	1.76	1.61
22	DB	1532	A	O3'-P	12.28	1.75	1.61
22	JB	1004	A	O3'-P	12.20	1.75	1.61
22	JB	1586	A	O3'-P	-12.11	1.46	1.61
22	HB	1861	G	N9-C4	11.97	1.47	1.38
22	BB	1861	G	N9-C4	11.95	1.47	1.38
22	DB	1861	G	N9-C4	11.93	1.47	1.38
22	FB	1698	C	O3'-P	11.92	1.75	1.61
22	JB	1861	G	N9-C4	11.82	1.47	1.38
22	FB	2719	U	N1-C2	11.81	1.49	1.38
22	HB	2719	U	N1-C2	11.64	1.49	1.38
1	CA	561	U	O3'-P	-11.63	1.47	1.61
22	FB	1861	G	N9-C4	11.62	1.47	1.38
22	DB	2719	U	N1-C2	11.53	1.49	1.38
22	BB	2719	U	N1-C2	11.49	1.48	1.38
22	JB	2719	U	N1-C2	11.48	1.48	1.38
22	JB	946	U	O3'-P	-11.46	1.47	1.61
22	JB	2039	G	C5-C6	11.37	1.53	1.42
22	DB	2039	G	C5-C6	11.25	1.53	1.42
22	BB	2039	G	C5-C6	11.23	1.53	1.42
22	HB	2039	G	C5-C6	11.23	1.53	1.42
22	FB	2039	G	C5-C6	11.05	1.53	1.42
22	BB	2260	C	O3'-P	10.97	1.74	1.61
22	FB	1861	G	C5'-C4'	10.92	1.64	1.51
1	GA	561	U	O3'-P	10.91	1.74	1.61
22	BB	1861	G	C5'-C4'	10.87	1.64	1.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
22	HB	1861	G	C5'-C4'	10.85	1.64	1.51
22	JB	1861	G	C5'-C4'	10.80	1.64	1.51
22	DB	1861	G	C5'-C4'	10.78	1.64	1.51
43	BW	88	TYR	C-N	-10.75	1.13	1.33
22	JB	1287	A	O3'-P	-10.71	1.48	1.61
22	HB	1197	U	O3'-P	-9.86	1.49	1.61
22	DB	2471	U	O3'-P	9.65	1.72	1.61
22	DB	1888	C	C3'-O3'	9.51	1.55	1.42
22	FB	1888	C	C3'-O3'	9.49	1.55	1.42
22	JB	1888	C	C3'-O3'	9.41	1.55	1.42
53	H7	199	ASN	CA-C	9.37	1.77	1.52
53	B7	199	ASN	CA-C	9.36	1.77	1.52
22	HB	1888	C	C3'-O3'	9.35	1.55	1.42
22	FB	539	A	O3'-P	9.31	1.72	1.61
53	D7	199	ASN	CA-C	9.31	1.77	1.52
22	BB	1888	C	C3'-O3'	9.30	1.55	1.42
53	F7	199	ASN	CA-C	9.28	1.77	1.52
53	J7	199	ASN	CA-C	9.28	1.77	1.52
22	DB	1309	G	O3'-P	-9.19	1.50	1.61
22	BB	1861	G	O5'-C5'	9.02	1.58	1.44
22	DB	1861	G	O5'-C5'	8.99	1.58	1.44
22	FB	2203	G	O3'-P	-8.94	1.50	1.61
22	JB	1861	G	O5'-C5'	8.94	1.58	1.44
22	FB	1861	G	O5'-C5'	8.94	1.58	1.44
22	HB	1861	G	O5'-C5'	8.91	1.58	1.44
22	JB	3875	A	C5'-C4'	8.91	1.62	1.51
22	JB	2745	A	O3'-P	8.84	1.71	1.61
22	BB	3875	A	C5'-C4'	8.81	1.61	1.51
22	FB	3875	A	C5'-C4'	8.80	1.61	1.51
22	FB	1197	U	O3'-P	-8.78	1.50	1.61
22	DB	3875	A	C5'-C4'	8.77	1.61	1.51
22	HB	3875	A	C5'-C4'	8.74	1.61	1.51
22	HB	1861	G	P-O5'	8.73	1.68	1.59
22	DB	716	U	O3'-P	8.68	1.71	1.61
22	FB	1309	G	O3'-P	-8.63	1.50	1.61
22	JB	1861	G	P-O5'	8.54	1.68	1.59
22	DB	1287	A	O3'-P	-8.54	1.50	1.61
22	FB	1861	G	P-O5'	8.53	1.68	1.59
22	JB	2591	C	N1-C2	8.51	1.48	1.40
22	DB	1861	G	P-O5'	8.49	1.68	1.59
22	DB	2591	C	N1-C2	8.42	1.48	1.40
22	BB	1861	G	P-O5'	8.38	1.68	1.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
22	HB	2591	C	N1-C2	8.27	1.48	1.40
22	BB	2591	C	N1-C2	8.21	1.48	1.40
22	FB	2591	C	N1-C2	8.13	1.48	1.40
22	FB	776	G	C2-N2	-8.07	1.26	1.34
22	HB	776	G	C2-N2	-8.05	1.26	1.34
22	DB	776	G	C2-N2	-8.03	1.26	1.34
22	JB	776	G	C2-N2	-8.02	1.26	1.34
22	BB	776	G	C2-N2	-7.98	1.26	1.34
22	HB	2260	C	O3'-P	-7.96	1.51	1.61
22	BB	1036	G	O3'-P	7.92	1.70	1.61
22	HB	2704	U	O3'-P	-7.70	1.51	1.61
12	EL	22	SER	C-N	7.62	1.51	1.34
22	DB	156	G	O3'-P	-7.57	1.52	1.61
22	DB	2533	U	O3'-P	6.99	1.69	1.61
22	BB	1145	C	O3'-P	-6.92	1.52	1.61
1	AA	561	U	O3'-P	-6.88	1.52	1.61
22	BB	1309	G	O3'-P	6.85	1.69	1.61
22	DB	3877	A	O3'-P	6.74	1.69	1.61
22	JB	2039	G	N9-C4	6.62	1.43	1.38
22	BB	2039	G	N9-C4	6.61	1.43	1.38
22	BB	3877	A	C5'-C4'	-6.55	1.43	1.51
22	DB	3877	A	C5'-C4'	-6.51	1.43	1.51
22	DB	2039	G	C2-N3	6.48	1.38	1.32
22	FB	3877	A	C5'-C4'	-6.47	1.43	1.51
22	DB	1058	G	N3-C4	6.47	1.40	1.35
22	HB	2039	G	N9-C4	6.46	1.43	1.38
22	FB	2039	G	N9-C4	6.46	1.43	1.38
22	BB	1058	G	N3-C4	6.44	1.40	1.35
22	HB	3877	A	C5'-C4'	-6.42	1.43	1.51
22	DB	2039	G	N9-C4	6.42	1.43	1.38
22	JB	2039	G	C2-N3	6.42	1.37	1.32
22	JB	3877	A	C5'-C4'	-6.41	1.43	1.51
22	BB	2039	G	C2-N3	6.33	1.37	1.32
22	HB	2039	G	C2-N3	6.32	1.37	1.32
22	FB	2039	G	C2-N3	6.30	1.37	1.32
22	FB	1058	G	N3-C4	6.28	1.39	1.35
22	HB	1058	G	N3-C4	6.27	1.39	1.35
22	JB	1058	G	N3-C4	6.25	1.39	1.35
22	BB	603	C	O3'-P	6.13	1.68	1.61
22	BB	2524	G	O3'-P	-6.11	1.53	1.61
22	DB	1861	G	N7-C5	-5.89	1.35	1.39
22	HB	1861	G	N7-C5	-5.72	1.35	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
22	JB	1752	U	O3'-P	-5.71	1.54	1.61
22	FB	711	C	N1-C2	5.70	1.45	1.40
22	JB	1861	G	N7-C5	-5.63	1.35	1.39
22	BB	711	C	N1-C2	5.62	1.45	1.40
22	DB	522	G	N9-C4	-5.61	1.33	1.38
22	DB	711	C	N1-C2	5.61	1.45	1.40
22	HB	522	G	N9-C4	-5.61	1.33	1.38
22	HB	711	C	N1-C2	5.58	1.45	1.40
22	FB	522	G	N9-C4	-5.58	1.33	1.38
22	DB	1861	G	C4'-O4'	5.58	1.52	1.45
22	BB	522	G	N9-C4	-5.54	1.33	1.38
22	JB	522	G	N9-C4	-5.51	1.33	1.38
22	HB	1861	G	C4'-O4'	5.45	1.52	1.45
22	JB	711	C	N1-C2	5.45	1.45	1.40
22	BB	1861	G	C4'-O4'	5.42	1.52	1.45
22	BB	1861	G	N7-C5	-5.32	1.36	1.39
22	JB	1861	G	C4'-O4'	5.31	1.52	1.45
53	J7	42	LYS	CA-C	5.29	1.66	1.52
22	FB	1861	G	C4'-O4'	5.29	1.52	1.45
53	F7	42	LYS	CA-C	5.27	1.66	1.52
22	DB	2431	C	O3'-P	5.26	1.67	1.61
53	D7	42	LYS	CA-C	5.25	1.66	1.52
53	H7	42	LYS	CA-C	5.24	1.66	1.52
22	FB	1861	G	N7-C5	-5.22	1.36	1.39
53	B7	42	LYS	CA-C	5.20	1.66	1.52
53	D7	198	THR	CA-C	5.10	1.66	1.52
53	B7	198	THR	CA-C	5.07	1.66	1.52
22	FB	1889	G	C5'-C4'	5.07	1.57	1.51
53	J7	198	THR	CA-C	5.04	1.66	1.52
53	H7	198	THR	CA-C	5.03	1.66	1.52
22	HB	1889	G	C5'-C4'	5.02	1.57	1.51
53	F7	198	THR	CA-C	5.01	1.66	1.52
22	BB	1889	G	C5'-C4'	5.00	1.57	1.51

All (1213) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
22	DB	1888	C	P-O3'-C3'	-81.68	21.69	119.70
22	HB	910	U	P-O3'-C3'	-72.53	32.66	119.70
22	BB	1888	C	P-O3'-C3'	-66.03	40.47	119.70
22	FB	3197	U	P-O3'-C3'	-60.64	46.93	119.70
22	FB	1411	C	O3'-P-O5'	-53.08	3.15	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
22	FB	1586	A	P-O3'-C3'	-48.29	61.75	119.70
22	HB	3197	U	P-O3'-C3'	43.78	172.24	119.70
1	IA	919	A	O3'-P-O5'	-41.58	25.00	104.00
22	BB	1483	G	P-O3'-C3'	38.99	166.49	119.70
22	HB	115	G	P-O3'-C3'	-38.13	73.95	119.70
22	HB	1888	C	O3'-P-O5'	-38.07	31.66	104.00
22	BB	115	G	P-O3'-C3'	-37.44	74.78	119.70
22	JB	1856	U	OP1-P-O3'	-37.34	23.05	105.20
22	FB	1888	C	O3'-P-O5'	-37.29	33.15	104.00
43	BW	88	TYR	O-C-N	-36.44	61.25	123.20
22	JB	3197	U	OP1-P-O3'	-35.61	26.86	105.20
22	BB	1437	A	O3'-P-O5'	-34.95	37.59	104.00
22	JB	677	G	P-O3'-C3'	34.30	160.85	119.70
1	EA	1393	U	OP1-P-O3'	-33.45	31.62	105.20
22	HB	910	U	OP2-P-O3'	-33.02	32.57	105.20
22	BB	1888	C	OP2-P-O3'	-32.45	33.82	105.20
22	DB	1483	G	P-O3'-C3'	31.76	157.81	119.70
13	GM	89	GLY	O-C-N	-31.73	71.93	122.70
22	FB	1411	C	P-O3'-C3'	-29.65	84.11	119.70
22	BB	1411	C	O3'-P-O5'	29.61	160.25	104.00
22	HB	1483	G	P-O3'-C3'	-29.44	84.37	119.70
22	FB	2745	A	O3'-P-O5'	-29.34	48.25	104.00
22	HB	111	G	P-O3'-C3'	-29.34	84.50	119.70
22	JB	1532	A	P-O3'-C3'	29.02	154.53	119.70
22	HB	2075	U	OP1-P-O3'	28.61	168.14	105.20
22	DB	1888	C	OP2-P-O3'	-28.60	42.29	105.20
22	FB	3197	U	OP2-P-O3'	27.58	165.87	105.20
22	BB	1887	G	P-O3'-C3'	-27.47	86.74	119.70
22	BB	2260	C	P-O3'-C3'	27.24	152.39	119.70
22	BB	115	G	O3'-P-O5'	-27.02	52.67	104.00
22	BB	737	C	P-O3'-C3'	-26.97	87.34	119.70
22	FB	1586	A	O3'-P-O5'	26.81	154.95	104.00
22	BB	1453	A	P-O3'-C3'	26.64	151.67	119.70
22	FB	1437	A	P-O3'-C3'	26.56	151.57	119.70
22	FB	1752	U	P-O3'-C3'	26.55	151.56	119.70
22	FB	1586	A	OP2-P-O3'	-26.38	47.17	105.20
22	BB	1613	G	OP2-P-O3'	-26.27	47.39	105.20
22	FB	2704	U	P-O3'-C3'	-25.96	88.55	119.70
22	DB	1586	A	P-O3'-C3'	-25.92	88.60	119.70
22	FB	3197	U	OP1-P-O3'	-25.83	48.38	105.20
22	BB	1437	A	P-O3'-C3'	-25.74	88.81	119.70
22	FB	2655	C	P-O3'-C3'	25.47	150.26	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	EA	919	A	P-O3'-C3'	25.32	150.09	119.70
1	EA	919	A	O3'-P-O5'	-25.22	56.08	104.00
22	DB	2745	A	P-O3'-C3'	-25.18	89.48	119.70
22	FB	1437	A	OP2-P-O3'	-25.17	49.82	105.20
1	IA	1393	U	OP1-P-O3'	-24.90	50.42	105.20
1	GA	919	A	P-O3'-C3'	-24.83	89.90	119.70
22	FB	1856	U	OP2-P-O3'	-24.66	50.96	105.20
22	FB	156	G	P-O3'-C3'	24.61	149.24	119.70
1	IA	1393	U	O3'-P-O5'	24.46	150.48	104.00
22	DB	1887	G	O3'-P-O5'	23.87	149.35	104.00
22	BB	716	U	P-O3'-C3'	-23.53	91.47	119.70
22	BB	1453	A	O3'-P-O5'	-23.51	59.33	104.00
22	FB	2431	C	P-O3'-C3'	23.25	147.60	119.70
22	BB	1119	U	OP1-P-O3'	-23.24	54.06	105.20
22	HB	3197	U	OP2-P-O3'	-23.02	54.55	105.20
22	JB	1752	U	P-O3'-C3'	22.63	146.85	119.70
22	DB	1888	C	O3'-P-O5'	-22.23	61.77	104.00
22	DB	1483	G	O3'-P-O5'	22.17	146.12	104.00
1	EA	919	A	OP1-P-O3'	22.11	153.84	105.20
13	AM	83	ASP	O-C-N	-22.08	87.37	122.70
22	HB	115	G	OP2-P-O3'	21.95	153.50	105.20
1	IA	1393	U	P-O3'-C3'	-21.88	93.45	119.70
22	BB	1411	C	P-O3'-C3'	-21.68	93.69	119.70
22	HB	1483	G	O3'-P-O5'	-21.60	62.97	104.00
43	BW	88	TYR	CA-C-N	21.52	159.24	116.20
22	BB	1888	C	OP1-P-O3'	21.41	152.30	105.20
22	HB	111	G	O3'-P-O5'	-21.37	63.40	104.00
22	HB	910	U	OP1-P-O3'	21.08	151.57	105.20
34	FN	73	LYS	C-N-CD	-20.99	74.42	120.60
34	JN	73	LYS	C-N-CD	-20.93	74.55	120.60
34	DN	73	LYS	C-N-CD	-20.91	74.59	120.60
34	HN	73	LYS	C-N-CD	-20.91	74.59	120.60
34	BN	73	LYS	C-N-CD	-20.89	74.64	120.60
22	JB	677	G	OP1-P-O3'	20.70	150.73	105.20
22	JB	2533	U	P-O3'-C3'	20.66	144.49	119.70
22	BB	1119	U	O3'-P-O5'	20.63	143.20	104.00
48	B2	46	CYS	C-N-CD	-20.53	75.43	120.60
22	DB	1752	U	O3'-P-O5'	-20.50	65.05	104.00
48	J2	46	CYS	C-N-CD	-20.48	75.54	120.60
22	BB	1483	G	O3'-P-O5'	20.48	142.91	104.00
48	H2	46	CYS	C-N-CD	-20.46	75.58	120.60
22	JB	3877	A	P-O3'-C3'	20.46	144.25	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
48	F2	46	CYS	C-N-CD	-20.43	75.65	120.60
48	D2	46	CYS	C-N-CD	-20.42	75.67	120.60
22	JB	1309	G	P-O3'-C3'	20.41	144.19	119.70
22	FB	2623	A	P-O3'-C3'	-20.35	95.28	119.70
22	BB	2370	G	OP1-P-O3'	-20.22	60.72	105.20
22	HB	2075	U	OP2-P-O3'	-20.14	60.89	105.20
22	BB	2492	G	P-O3'-C3'	19.99	143.68	119.70
22	FB	2260	C	P-O3'-C3'	-19.64	96.13	119.70
1	EA	1393	U	O3'-P-O5'	19.55	141.15	104.00
22	DB	1613	G	P-O3'-C3'	-19.33	96.50	119.70
22	BB	3877	A	O3'-P-O5'	19.24	140.55	104.00
22	BB	2704	U	O3'-P-O5'	19.17	140.42	104.00
22	JB	1167	A	O3'-P-O5'	-19.13	67.65	104.00
22	DB	1411	C	O3'-P-O5'	19.12	140.32	104.00
22	JB	1287	A	P-O3'-C3'	-19.11	96.77	119.70
22	HB	111	G	OP2-P-O3'	18.98	146.95	105.20
22	BB	1483	G	OP2-P-O3'	-18.95	63.51	105.20
22	HB	2492	G	P-O3'-C3'	18.89	142.37	119.70
22	DB	2745	A	OP2-P-O3'	18.85	146.67	105.20
22	BB	603	C	P-O3'-C3'	18.84	142.31	119.70
22	HB	1453	A	P-O3'-C3'	-18.80	97.15	119.70
22	DB	511	A	P-O3'-C3'	18.72	142.16	119.70
22	HB	677	G	O3'-P-O5'	-18.71	68.44	104.00
22	HB	1752	U	P-O3'-C3'	18.57	141.99	119.70
22	BB	2260	C	OP2-P-O3'	-18.22	65.11	105.20
22	HB	1437	A	O3'-P-O5'	-18.20	69.41	104.00
12	EL	22	SER	O-C-N	-18.19	93.60	122.70
22	FB	737	C	P-O3'-C3'	-18.01	98.09	119.70
22	BB	2370	G	P-O3'-C3'	-17.84	98.29	119.70
22	FB	1888	C	P-O3'-C3'	-17.73	98.42	119.70
22	DB	1827	G	P-O3'-C3'	-17.66	98.50	119.70
22	HB	1856	U	P-O3'-C3'	17.53	140.73	119.70
22	HB	603	C	O3'-P-O5'	-17.45	70.85	104.00
22	FB	677	G	P-O3'-C3'	17.38	140.55	119.70
22	BB	2431	C	P-O3'-C3'	17.35	140.51	119.70
22	JB	1437	A	P-O3'-C3'	17.30	140.46	119.70
22	BB	1411	C	OP1-P-O3'	-17.20	67.37	105.20
22	BB	2370	G	OP2-P-O3'	17.16	142.95	105.20
22	BB	2713	A	O3'-P-O5'	17.15	136.59	104.00
22	FB	1752	U	O3'-P-O5'	-17.13	71.45	104.00
22	BB	2203	G	P-O3'-C3'	17.12	140.24	119.70
22	HB	3877	A	O3'-P-O5'	17.08	136.46	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
22	HB	1888	C	P-O3'-C3'	-17.04	99.25	119.70
22	HB	2370	G	P-O3'-C3'	-17.03	99.26	119.70
22	BB	1127	C	P-O3'-C3'	16.98	140.07	119.70
22	HB	1566	G	P-O3'-C3'	16.79	139.85	119.70
22	FB	1197	U	P-O3'-C3'	16.68	139.72	119.70
22	JB	603	C	O3'-P-O5'	-16.64	72.39	104.00
22	HB	69	G	OP2-P-O3'	16.59	141.70	105.20
22	DB	1613	G	OP1-P-O3'	16.46	141.41	105.20
22	JB	1613	G	P-O3'-C3'	-16.35	100.08	119.70
22	JB	1197	U	O3'-P-O5'	-16.32	73.00	104.00
22	BB	3877	A	P-O3'-C3'	16.29	139.25	119.70
43	BW	88	TYR	C-N-CA	16.25	156.42	122.30
22	DB	10	A	P-O3'-C3'	16.16	139.09	119.70
22	BB	2655	C	O3'-P-O5'	16.05	134.50	104.00
22	HB	1411	C	O3'-P-O5'	16.04	134.48	104.00
22	HB	2370	G	OP2-P-O3'	16.04	140.49	105.20
22	DB	737	C	P-O3'-C3'	-15.92	100.60	119.70
22	BB	111	G	P-O3'-C3'	15.88	138.75	119.70
22	JB	1532	A	OP1-P-O3'	15.74	139.83	105.20
22	BB	115	G	OP2-P-O3'	15.71	139.75	105.20
22	BB	1287	A	O3'-P-O5'	15.67	133.78	104.00
22	BB	1047	G	P-O3'-C3'	15.67	138.50	119.70
22	BB	568	G	P-O3'-C3'	-15.63	100.94	119.70
22	BB	2533	U	O3'-P-O5'	15.54	133.53	104.00
22	DB	603	C	P-O3'-C3'	15.54	138.34	119.70
22	BB	2260	C	OP1-P-O3'	15.52	139.35	105.20
22	JB	2407	G	P-O3'-C3'	-15.51	101.08	119.70
22	BB	1887	G	OP1-P-O3'	-15.44	71.23	105.20
22	FB	156	G	OP2-P-O3'	-15.31	71.52	105.20
22	DB	1437	A	P-O3'-C3'	15.30	138.06	119.70
22	FB	1752	U	OP1-P-O3'	15.29	138.84	105.20
22	JB	3197	U	O3'-P-O5'	15.26	132.99	104.00
22	JB	1586	A	O3'-P-O5'	15.24	132.95	104.00
22	HB	1453	A	O3'-P-O5'	15.21	132.91	104.00
22	BB	568	G	O3'-P-O5'	-15.18	75.17	104.00
22	JB	1532	A	O3'-P-O5'	-15.14	75.24	104.00
22	FB	2655	C	OP1-P-O3'	15.11	138.45	105.20
22	HB	2260	C	O3'-P-O5'	15.09	132.68	104.00
22	FB	946	U	P-O3'-C3'	15.01	137.71	119.70
22	JB	1167	A	OP1-P-O3'	14.97	138.14	105.20
22	JB	1411	C	P-O3'-C3'	14.97	137.67	119.70
22	FB	1698	C	O3'-P-O5'	-14.97	75.56	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
22	JB	1047	G	OP2-P-O3'	14.96	138.12	105.20
22	FB	2704	U	OP2-P-O3'	14.86	137.90	105.20
22	DB	2260	C	P-O3'-C3'	14.85	137.52	119.70
22	DB	2524	G	P-O3'-C3'	-14.85	101.88	119.70
22	DB	1437	A	OP1-P-O3'	14.78	137.72	105.20
22	BB	2608	A	P-O3'-C3'	-14.65	102.11	119.70
22	HB	2471	U	P-O3'-C3'	14.64	137.27	119.70
22	FB	1036	G	P-O3'-C3'	14.63	137.25	119.70
22	HB	1888	C	OP1-P-O3'	-14.62	73.03	105.20
22	BB	10	A	P-O3'-C3'	-14.56	102.23	119.70
22	FB	1127	C	O3'-P-O5'	14.51	131.57	104.00
22	FB	1047	G	O3'-P-O5'	-14.50	76.46	104.00
22	DB	69	G	P-O3'-C3'	14.49	137.09	119.70
22	DB	1752	U	P-O3'-C3'	14.45	137.04	119.70
22	HB	115	G	O3'-P-O5'	-14.45	76.55	104.00
22	FB	2623	A	O3'-P-O5'	-14.38	76.68	104.00
22	BB	2524	G	O3'-P-O5'	14.36	131.29	104.00
22	JB	1167	A	P-O3'-C3'	-14.27	102.57	119.70
22	JB	1613	G	O3'-P-O5'	-14.20	77.02	104.00
22	DB	716	U	P-O3'-C3'	-14.06	102.83	119.70
22	DB	1888	C	OP1-P-O3'	14.04	136.09	105.20
1	IA	1393	U	OP2-P-O3'	-14.02	74.37	105.20
22	HB	1167	A	P-O3'-C3'	-13.99	102.91	119.70
22	JB	1411	C	OP1-P-O3'	13.90	135.77	105.20
22	HB	2704	U	O3'-P-O5'	13.85	130.32	104.00
22	HB	737	C	P-O3'-C3'	-13.82	103.12	119.70
22	DB	1827	G	OP1-P-O3'	-13.81	74.81	105.20
22	JB	2552	C	O3'-P-O5'	-13.81	77.77	104.00
22	BB	737	C	OP1-P-O3'	-13.79	74.87	105.20
22	FB	2431	C	OP1-P-O3'	13.77	135.50	105.20
22	HB	1483	G	OP1-P-O3'	13.76	135.46	105.20
22	BB	539	A	P-O3'-C3'	-13.67	103.30	119.70
22	FB	1698	C	OP1-P-O3'	13.64	135.20	105.20
22	FB	677	G	OP1-P-O3'	13.59	135.09	105.20
22	DB	2524	G	OP1-P-O3'	-13.55	75.38	105.20
22	HB	1127	C	P-O3'-C3'	13.44	135.83	119.70
22	DB	1613	G	OP2-P-O3'	-13.43	75.66	105.20
22	BB	2533	U	P-O3'-C3'	-13.40	103.62	119.70
22	DB	2492	G	O3'-P-O5'	-13.40	78.54	104.00
22	JB	1752	U	OP1-P-O3'	13.35	134.57	105.20
22	HB	3877	A	P-O3'-C3'	13.32	135.68	119.70
22	JB	511	A	P-O3'-C3'	-13.31	103.72	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
22	DB	1887	G	P-O3'-C3'	-13.24	103.81	119.70
22	HB	2370	G	OP1-P-O3'	-13.20	76.16	105.20
22	FB	1952	A	OP2-P-O3'	-13.20	76.17	105.20
22	FB	2704	U	OP1-P-O3'	-13.17	76.23	105.20
22	DB	1586	A	OP1-P-O3'	-13.14	76.28	105.20
22	DB	2704	U	P-O3'-C3'	-13.09	103.99	119.70
22	FB	2203	G	P-O3'-C3'	13.09	135.41	119.70
22	DB	2492	G	OP1-P-O3'	13.08	133.97	105.20
22	BB	1827	G	O3'-P-O5'	13.00	128.71	104.00
22	HB	1566	G	OP2-P-O3'	-12.97	76.66	105.20
22	DB	2407	G	OP2-P-O3'	12.96	133.71	105.20
22	HB	69	G	O3'-P-O5'	-12.96	79.39	104.00
22	HB	1047	G	P-O3'-C3'	12.94	135.23	119.70
22	HB	2524	G	O3'-P-O5'	12.93	128.57	104.00
48	F2	46	CYS	C-N-CA	12.92	176.28	122.00
22	JB	677	G	OP2-P-O3'	-12.92	76.78	105.20
22	DB	1437	A	O3'-P-O5'	-12.91	79.47	104.00
48	D2	46	CYS	C-N-CA	12.90	176.19	122.00
48	H2	46	CYS	C-N-CA	12.90	176.17	122.00
48	B2	46	CYS	C-N-CA	12.89	176.12	122.00
48	J2	46	CYS	C-N-CA	12.88	176.11	122.00
22	HB	1861	G	P-O3'-C3'	-12.73	104.42	119.70
22	DB	2608	A	P-O3'-C3'	12.68	134.92	119.70
1	GA	919	A	OP1-P-O3'	-12.66	77.35	105.20
34	DN	73	LYS	C-N-CA	12.65	175.14	122.00
34	BN	73	LYS	C-N-CA	12.65	175.12	122.00
34	HN	73	LYS	C-N-CA	12.64	175.08	122.00
34	JN	73	LYS	C-N-CA	12.62	175.00	122.00
34	FN	73	LYS	C-N-CA	12.61	174.96	122.00
22	FB	677	G	O3'-P-O5'	-12.60	80.06	104.00
22	JB	1309	G	OP1-P-O3'	12.54	132.80	105.20
22	JB	1856	U	O3'-P-O5'	12.43	127.62	104.00
1	IA	919	A	OP1-P-O3'	12.41	132.51	105.20
22	BB	2492	G	OP1-P-O3'	12.37	132.41	105.20
22	FB	2655	C	OP2-P-O3'	-12.36	78.02	105.20
22	FB	1127	C	OP2-P-O3'	-12.35	78.02	105.20
22	JB	1127	C	O3'-P-O5'	12.35	127.47	104.00
22	DB	1532	A	O3'-P-O5'	12.30	127.38	104.00
22	BB	1437	A	OP2-P-O3'	12.29	132.23	105.20
22	DB	1856	U	OP1-P-O3'	-12.28	78.19	105.20
22	BB	737	C	OP2-P-O3'	12.15	131.94	105.20
22	HB	1861	G	C8-N9-C4	-12.10	101.56	106.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
22	JB	1047	G	P-O3'-C3'	-12.09	105.20	119.70
22	FB	1856	U	OP1-P-O3'	12.07	131.76	105.20
1	EA	1393	U	P-O3'-C3'	12.06	134.17	119.70
22	JB	1613	G	OP2-P-O3'	12.05	131.70	105.20
22	HB	1613	G	O3'-P-O5'	12.02	126.84	104.00
22	FB	1047	G	OP2-P-O3'	11.99	131.58	105.20
22	JB	2533	U	OP1-P-O3'	11.99	131.58	105.20
22	FB	1145	C	OP1-P-O3'	11.98	131.56	105.20
22	BB	1861	G	C8-N9-C4	-11.97	101.61	106.40
22	JB	69	G	P-O3'-C3'	11.82	133.88	119.70
22	DB	1586	A	OP2-P-O3'	11.81	131.18	105.20
22	DB	1861	G	C8-N9-C4	-11.80	101.68	106.40
22	FB	1861	G	C8-N9-C4	-11.73	101.71	106.40
22	HB	1887	G	O3'-P-O5'	-11.72	81.72	104.00
22	HB	1752	U	OP1-P-O3'	11.70	130.95	105.20
22	JB	1287	A	OP1-P-O3'	-11.70	79.46	105.20
22	DB	111	G	OP2-P-O3'	11.67	130.88	105.20
22	FB	3877	A	P-O3'-C3'	11.66	133.70	119.70
22	HB	1887	G	P-O3'-C3'	11.63	133.66	119.70
22	BB	2407	G	OP2-P-O3'	11.60	130.72	105.20
22	JB	1861	G	C8-N9-C4	-11.60	101.76	106.40
22	BB	1309	G	OP2-P-O3'	-11.57	79.74	105.20
22	JB	3197	U	P-O3'-C3'	11.55	133.56	119.70
22	FB	1167	A	P-O3'-C3'	11.53	133.53	119.70
12	AL	19	ARG	O-C-N	-11.50	104.30	122.70
22	HB	1856	U	OP1-P-O3'	11.48	130.47	105.20
22	FB	1036	G	O3'-P-O5'	11.47	125.80	104.00
22	JB	603	C	OP2-P-O3'	11.46	130.41	105.20
22	HB	603	C	OP1-P-O3'	11.45	130.40	105.20
22	HB	2075	U	P-O3'-C3'	-11.43	105.99	119.70
22	DB	2524	G	O3'-P-O5'	11.42	125.70	104.00
22	HB	2533	U	O3'-P-O5'	11.39	125.65	104.00
22	HB	1856	U	O3'-P-O5'	-11.38	82.38	104.00
1	CA	561	U	P-O3'-C3'	-11.37	106.05	119.70
22	HB	2655	C	O3'-P-O5'	11.36	125.58	104.00
22	BB	2704	U	P-O3'-C3'	11.34	133.31	119.70
22	HB	2260	C	OP2-P-O3'	-11.28	80.38	105.20
22	HB	69	G	P-O3'-C3'	11.26	133.22	119.70
22	HB	2492	G	OP1-P-O3'	11.25	129.96	105.20
22	BB	716	U	OP1-P-O3'	-11.22	80.52	105.20
22	FB	2623	A	OP1-P-O3'	11.19	129.82	105.20
12	IL	22	SER	C-N-CA	-11.18	93.75	121.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
22	DB	2203	G	P-O3'-C3'	11.12	133.04	119.70
22	DB	511	A	O3'-P-O5'	-11.10	82.92	104.00
22	JB	2407	G	OP1-P-O3'	11.06	129.54	105.20
22	BB	1613	G	O3'-P-O5'	11.06	125.02	104.00
22	BB	2713	A	OP1-P-O3'	-11.06	80.87	105.20
22	FB	1856	U	P-O3'-C3'	11.00	132.90	119.70
22	BB	603	C	OP2-P-O3'	-10.99	81.01	105.20
22	FB	1437	A	O3'-P-O5'	10.99	124.88	104.00
22	JB	2745	A	P-O3'-C3'	10.97	132.87	119.70
22	DB	1888	C	N1-C1'-C2'	10.97	128.26	114.00
22	FB	1167	A	O3'-P-O5'	-10.95	83.20	104.00
22	JB	946	U	OP1-P-O3'	10.95	129.28	105.20
22	DB	1566	G	P-O3'-C3'	-10.94	106.57	119.70
22	DB	3877	A	P-O3'-C3'	10.93	132.82	119.70
22	JB	1888	C	N1-C1'-C2'	10.91	128.18	114.00
22	DB	2260	C	OP2-P-O3'	-10.87	81.28	105.20
22	HB	1888	C	N1-C1'-C2'	10.87	128.13	114.00
22	BB	1888	C	N1-C1'-C2'	10.86	128.11	114.00
22	FB	1888	C	N1-C1'-C2'	10.85	128.11	114.00
22	JB	1411	C	O3'-P-O5'	-10.82	83.45	104.00
22	HB	2075	U	O3'-P-O5'	-10.80	83.48	104.00
22	JB	1827	G	O3'-P-O5'	10.80	124.52	104.00
22	DB	2745	A	O3'-P-O5'	-10.78	83.53	104.00
22	JB	603	C	P-O3'-C3'	-10.73	106.83	119.70
22	HB	115	G	OP1-P-O3'	-10.72	81.61	105.20
22	HB	3197	U	O3'-P-O5'	10.70	124.34	104.00
22	FB	2745	A	OP2-P-O3'	10.69	128.72	105.20
22	FB	156	G	O3'-P-O5'	10.66	124.25	104.00
22	HB	3197	U	OP1-P-O3'	10.65	128.64	105.20
22	FB	2524	G	P-O3'-C3'	-10.65	106.92	119.70
22	FB	2533	U	P-O3'-C3'	-10.61	106.96	119.70
1	GA	919	A	OP2-P-O3'	10.61	128.54	105.20
22	JB	737	C	P-O3'-C3'	-10.56	107.03	119.70
22	BB	2431	C	OP1-P-O3'	10.53	128.36	105.20
22	BB	1127	C	OP1-P-O3'	10.48	128.26	105.20
22	BB	677	G	P-O3'-C3'	-10.48	107.12	119.70
22	BB	1287	A	P-O3'-C3'	10.44	132.23	119.70
22	JB	568	G	O3'-P-O5'	10.37	123.71	104.00
22	BB	539	A	OP2-P-O3'	10.30	127.86	105.20
22	JB	1309	G	O3'-P-O5'	-10.29	84.46	104.00
22	JB	487	G	O3'-P-O5'	10.26	123.50	104.00
22	JB	2203	G	O3'-P-O5'	-10.23	84.56	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
22	BB	1119	U	P-O3'-C3'	-10.13	107.54	119.70
22	JB	2203	G	OP1-P-O3'	10.10	127.43	105.20
22	FB	946	U	O3'-P-O5'	10.05	123.10	104.00
22	DB	2608	A	OP1-P-O3'	10.05	127.31	105.20
22	DB	2533	U	O3'-P-O5'	10.04	123.08	104.00
22	FB	2260	C	OP2-P-O3'	10.04	127.28	105.20
22	DB	2655	C	OP1-P-O3'	9.97	127.14	105.20
22	HB	1613	G	OP2-P-O3'	-9.95	83.32	105.20
22	HB	1952	A	P-O3'-C3'	9.87	131.55	119.70
22	JB	511	A	O3'-P-O5'	9.87	122.75	104.00
22	FB	1437	A	OP1-P-O3'	9.84	126.86	105.20
22	FB	3197	U	O3'-P-O5'	-9.81	85.37	104.00
22	JB	111	G	OP2-P-O3'	9.78	126.71	105.20
22	HB	1888	C	OP2-P-O3'	9.77	126.70	105.20
22	BB	2203	G	OP2-P-O3'	-9.77	83.70	105.20
22	FB	2745	A	P-O3'-C3'	-9.76	107.98	119.70
22	JB	1287	A	OP2-P-O3'	9.75	126.66	105.20
22	BB	1887	G	OP2-P-O3'	9.67	126.48	105.20
22	FB	1856	U	O3'-P-O5'	9.67	122.38	104.00
22	JB	3877	A	OP2-P-O3'	-9.67	83.92	105.20
22	DB	2745	A	OP1-P-O3'	-9.64	83.98	105.20
22	FB	737	C	OP1-P-O3'	-9.61	84.06	105.20
22	JB	3877	A	O3'-P-O5'	9.56	122.17	104.00
1	CA	561	U	O3'-P-O5'	9.55	122.14	104.00
22	BB	716	U	O3'-P-O5'	9.52	122.09	104.00
22	FB	1197	U	OP1-P-O3'	9.51	126.12	105.20
22	DB	2533	U	P-O3'-C3'	-9.50	108.30	119.70
43	BW	96	VAL	C-N-CD	-9.50	99.71	120.60
53	F7	199	ASN	O-C-N	-9.50	107.51	122.70
43	FW	96	VAL	C-N-CD	-9.49	99.73	120.60
43	JW	96	VAL	C-N-CD	-9.49	99.73	120.60
22	FB	1287	A	P-O3'-C3'	-9.48	108.32	119.70
53	J7	199	ASN	O-C-N	-9.48	107.52	122.70
43	HW	96	VAL	C-N-CD	-9.48	99.74	120.60
22	DB	1887	G	OP1-P-O3'	-9.48	84.35	105.20
53	B7	199	ASN	O-C-N	-9.46	107.56	122.70
43	DW	96	VAL	C-N-CD	-9.46	99.80	120.60
53	D7	199	ASN	O-C-N	-9.44	107.59	122.70
22	HB	1309	G	P-O3'-C3'	9.44	131.03	119.70
53	H7	199	ASN	O-C-N	-9.43	107.61	122.70
22	BB	2533	U	OP1-P-O3'	-9.42	84.47	105.20
22	BB	1047	G	OP1-P-O3'	9.40	125.89	105.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
22	FB	2260	C	OP1-P-O3'	-9.39	84.54	105.20
22	HB	1566	G	OP1-P-O3'	9.37	125.81	105.20
22	BB	1861	G	C4'-C3'-C2'	9.31	111.91	102.60
22	HB	1887	G	OP1-P-O3'	9.29	125.65	105.20
22	JB	1047	G	O3'-P-O5'	-9.29	86.34	104.00
22	FB	1167	A	OP2-P-O3'	9.27	125.60	105.20
22	DB	1861	G	C4'-C3'-C2'	9.27	111.87	102.60
22	BB	1861	G	O4'-C4'-C3'	-9.27	94.73	104.00
22	HB	1861	G	C4'-C3'-C2'	9.24	111.84	102.60
22	DB	111	G	OP1-P-O3'	-9.24	84.86	105.20
22	DB	737	C	OP1-P-O3'	-9.24	84.86	105.20
22	DB	2431	C	P-O3'-C3'	9.22	130.77	119.70
22	DB	2655	C	P-O3'-C3'	9.22	130.77	119.70
22	JB	1861	G	C4'-C3'-C2'	9.22	111.82	102.60
22	BB	1309	G	O3'-P-O5'	9.22	121.52	104.00
22	JB	1698	C	O3'-P-O5'	-9.21	86.49	104.00
22	JB	1861	G	O4'-C4'-C3'	-9.21	94.80	104.00
22	HB	1861	G	OP2-P-O3'	9.20	125.45	105.20
22	FB	1861	G	C4'-C3'-C2'	9.20	111.80	102.60
22	DB	1861	G	O4'-C4'-C3'	-9.19	94.81	104.00
22	HB	539	A	P-O3'-C3'	9.19	130.73	119.70
22	HB	603	C	P-O3'-C3'	9.16	130.70	119.70
22	HB	1861	G	O4'-C4'-C3'	-9.16	94.84	104.00
22	HB	2704	U	P-O3'-C3'	9.11	130.64	119.70
22	BB	1613	G	OP1-P-O3'	9.11	125.25	105.20
22	FB	1861	G	O4'-C4'-C3'	-9.11	94.89	104.00
22	HB	1613	G	P-O3'-C3'	9.10	130.62	119.70
22	JB	677	G	O3'-P-O5'	-9.09	86.72	104.00
22	BB	603	C	OP1-P-O3'	9.09	125.20	105.20
22	HB	1861	G	O3'-P-O5'	-9.06	86.79	104.00
25	BE	21	ILE	C-N-CD	-9.02	100.75	120.60
22	BB	1047	G	O3'-P-O5'	-9.02	86.87	104.00
22	BB	677	G	OP2-P-O3'	9.01	125.03	105.20
22	JB	716	U	P-O3'-C3'	-9.00	108.90	119.70
22	FB	1952	A	P-O3'-C3'	8.98	130.47	119.70
25	DE	21	ILE	C-N-CD	-8.96	100.88	120.60
25	JE	21	ILE	C-N-CD	-8.95	100.91	120.60
22	BB	10	A	OP2-P-O3'	8.95	124.88	105.20
25	FE	21	ILE	C-N-CD	-8.94	100.93	120.60
22	JB	946	U	O3'-P-O5'	-8.93	87.04	104.00
22	JB	1752	U	O3'-P-O5'	-8.93	87.04	104.00
25	HE	21	ILE	C-N-CD	-8.92	100.98	120.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
22	HB	1047	G	OP1-P-O3'	8.91	124.79	105.20
22	DB	1752	U	OP1-P-O3'	8.87	124.71	105.20
22	BB	2704	U	OP2-P-O3'	-8.86	85.71	105.20
22	JB	1437	A	OP1-P-O3'	8.86	124.68	105.20
22	HB	1127	C	OP1-P-O3'	8.85	124.66	105.20
22	BB	111	G	OP1-P-O3'	-8.84	85.76	105.20
22	FB	2370	G	OP1-P-O3'	8.84	124.64	105.20
22	BB	2492	G	OP2-P-O3'	-8.82	85.80	105.20
22	JB	1952	A	OP1-P-O3'	8.81	124.58	105.20
22	DB	1856	U	O3'-P-O5'	8.79	120.71	104.00
22	DB	603	C	OP1-P-O3'	8.79	124.53	105.20
22	JB	487	G	OP2-P-O3'	-8.76	85.93	105.20
22	HB	2552	C	OP2-P-O3'	8.74	124.42	105.20
22	FB	2431	C	OP2-P-O3'	-8.70	86.06	105.20
1	AA	1528	U	C2'-C3'-O3'	8.70	128.63	109.50
22	DB	1532	A	OP2-P-O3'	-8.69	86.08	105.20
1	IA	1528	U	C2'-C3'-O3'	8.69	128.62	109.50
22	DB	2704	U	OP2-P-O3'	8.69	124.31	105.20
1	CA	1528	U	C2'-C3'-O3'	8.68	128.60	109.50
22	BB	3877	A	OP2-P-O3'	-8.68	86.11	105.20
1	EA	1528	U	C2'-C3'-O3'	8.67	128.58	109.50
22	DB	1411	C	OP1-P-O3'	-8.66	86.14	105.20
22	FB	1952	A	OP1-P-O3'	8.64	124.21	105.20
1	GA	1528	U	C2'-C3'-O3'	8.63	128.48	109.50
22	DB	1483	G	OP2-P-O3'	-8.63	86.22	105.20
22	DB	1411	C	P-O3'-C3'	-8.59	109.39	119.70
22	DB	2203	G	OP1-P-O3'	8.58	124.08	105.20
22	JB	1197	U	OP2-P-O3'	8.58	124.07	105.20
22	FB	1309	G	OP2-P-O3'	8.57	124.06	105.20
22	DB	2260	C	OP1-P-O3'	8.57	124.05	105.20
22	BB	1309	G	P-O3'-C3'	8.54	129.95	119.70
22	DB	1309	G	P-O3'-C3'	8.53	129.93	119.70
1	EA	919	A	OP2-P-O3'	-8.46	86.58	105.20
1	IA	181	G	C2'-C3'-O3'	8.46	128.11	109.50
1	CA	181	G	C2'-C3'-O3'	8.42	128.03	109.50
22	FB	2552	C	O3'-P-O5'	8.42	120.00	104.00
1	AA	181	G	C2'-C3'-O3'	8.41	128.01	109.50
22	BB	3197	U	O3'-P-O5'	8.40	119.97	104.00
1	GA	181	G	C2'-C3'-O3'	8.39	127.97	109.50
22	BB	910	U	N1-C1'-C2'	-8.38	102.78	112.00
1	EA	181	G	C2'-C3'-O3'	8.38	127.92	109.50
22	BB	1613	G	P-O3'-C3'	-8.36	109.67	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
12	IL	22	SER	CA-C-N	-8.33	98.87	117.20
22	FB	3877	A	OP1-P-O3'	8.32	123.51	105.20
22	HB	1453	A	OP2-P-O3'	-8.32	86.90	105.20
22	JB	1437	A	OP2-P-O3'	-8.30	86.93	105.20
22	FB	910	U	N1-C1'-C2'	-8.29	102.88	112.00
22	DB	910	U	N1-C1'-C2'	-8.28	102.89	112.00
20	CT	104	LEU	CA-CB-CG	8.27	134.32	115.30
20	ET	104	LEU	CA-CB-CG	8.27	134.31	115.30
22	JB	910	U	N1-C1'-C2'	-8.26	102.92	112.00
20	IT	104	LEU	CA-CB-CG	8.24	134.26	115.30
22	FB	2524	G	OP1-P-O3'	-8.24	87.08	105.20
20	AT	104	LEU	CA-CB-CG	8.23	134.24	115.30
20	GT	104	LEU	CA-CB-CG	8.22	134.20	115.30
22	HB	2552	C	O3'-P-O5'	-8.22	88.39	104.00
22	HB	910	U	N1-C1'-C2'	-8.17	103.01	112.00
22	FB	1586	A	OP1-P-O3'	-8.16	87.25	105.20
12	EL	22	SER	C-N-CA	8.15	142.08	121.70
22	HB	2492	G	OP2-P-O3'	-8.14	87.29	105.20
22	JB	2407	G	O3'-P-O5'	-8.12	88.58	104.00
22	FB	1122	A	N9-C1'-C2'	8.08	124.50	114.00
22	BB	2039	G	N1-C2-N2	-8.07	108.93	116.20
22	FB	2039	G	N1-C2-N2	-8.07	108.93	116.20
22	HB	2075	U	N1-C1'-C2'	-8.07	103.12	112.00
22	DB	2039	G	N1-C2-N2	-8.06	108.94	116.20
22	BB	1122	A	N9-C1'-C2'	8.05	124.47	114.00
22	HB	2039	G	N1-C2-N2	-8.05	108.96	116.20
22	BB	2203	G	OP1-P-O3'	8.03	122.87	105.20
22	FB	2075	U	N1-C1'-C2'	-8.03	103.17	112.00
45	BY	64	GLY	N-CA-C	-8.02	93.04	113.10
22	FB	2492	G	O3'-P-O5'	-8.02	88.76	104.00
22	JB	1122	A	N9-C1'-C2'	8.02	124.42	114.00
45	JY	64	GLY	N-CA-C	-8.01	93.07	113.10
22	HB	2591	C	N1-C2-O2	8.01	123.71	118.90
22	JB	2039	G	N1-C2-N2	-8.01	108.99	116.20
22	DB	1122	A	N9-C1'-C2'	8.01	124.41	114.00
22	HB	1122	A	N9-C1'-C2'	8.01	124.41	114.00
22	BB	2075	U	N1-C1'-C2'	-8.00	103.20	112.00
22	JB	2533	U	OP2-P-O3'	-7.99	87.61	105.20
45	HY	64	GLY	N-CA-C	-7.98	93.15	113.10
45	FY	64	GLY	N-CA-C	-7.97	93.17	113.10
45	DY	64	GLY	N-CA-C	-7.97	93.17	113.10
22	HB	677	G	OP1-P-O3'	7.97	122.74	105.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
22	JB	2075	U	N1-C1'-C2'	-7.96	103.25	112.00
22	FB	2591	C	N1-C2-O2	7.95	123.67	118.90
22	BB	2608	A	OP2-P-O3'	7.95	122.69	105.20
22	DB	1827	G	OP2-P-O3'	7.95	122.69	105.20
22	DB	2591	C	N1-C2-O2	7.94	123.67	118.90
22	DB	1827	G	O3'-P-O5'	7.94	119.09	104.00
22	HB	1287	A	P-O3'-C3'	-7.93	110.18	119.70
22	BB	2591	C	N1-C2-O2	7.92	123.65	118.90
22	FB	737	C	OP2-P-O3'	7.92	122.62	105.20
22	DB	2075	U	N1-C1'-C2'	-7.91	103.30	112.00
22	BB	1287	A	OP2-P-O3'	-7.90	87.82	105.20
22	BB	2719	U	N1-C2-O2	7.84	128.29	122.80
22	FB	1287	A	O3'-P-O5'	-7.82	89.14	104.00
22	JB	2591	C	N1-C2-O2	7.82	123.59	118.90
22	DB	1952	A	P-O3'-C3'	7.82	129.08	119.70
22	DB	3877	A	OP1-P-O3'	7.81	122.39	105.20
22	HB	2719	U	N1-C2-O2	7.79	128.25	122.80
22	HB	2471	U	O3'-P-O5'	7.77	118.76	104.00
22	DB	2719	U	N1-C2-O2	7.75	128.23	122.80
22	JB	111	G	OP1-P-O3'	-7.75	88.16	105.20
13	GM	89	GLY	CA-C-N	7.74	134.23	117.20
22	JB	10	A	P-O3'-C3'	7.71	128.95	119.70
22	FB	2492	G	OP1-P-O3'	7.71	122.16	105.20
22	DB	1887	G	OP2-P-O3'	-7.70	88.25	105.20
22	DB	2407	G	P-O3'-C3'	-7.69	110.47	119.70
39	BS	66	GLY	N-CA-C	-7.69	93.87	113.10
22	BB	111	G	O3'-P-O5'	7.69	118.61	104.00
22	BB	2608	A	OP1-P-O3'	-7.69	88.29	105.20
39	HS	66	GLY	N-CA-C	-7.68	93.89	113.10
22	FB	2039	G	N1-C6-O6	-7.67	115.30	119.90
39	FS	66	GLY	N-CA-C	-7.67	93.94	113.10
22	BB	2407	G	OP1-P-O3'	-7.66	88.35	105.20
39	DS	66	GLY	N-CA-C	-7.65	93.97	113.10
22	JB	2719	U	N1-C2-O2	7.64	128.15	122.80
22	FB	2719	U	N1-C2-O2	7.61	128.13	122.80
39	JS	66	GLY	N-CA-C	-7.61	94.08	113.10
22	DB	2039	G	N3-C2-N2	7.59	125.21	119.90
22	DB	716	U	OP1-P-O3'	-7.59	88.50	105.20
22	JB	2745	A	OP1-P-O3'	7.58	121.87	105.20
22	BB	2039	G	N3-C2-N2	7.57	125.20	119.90
22	JB	1586	A	OP2-P-O3'	-7.55	88.59	105.20
22	HB	2039	G	N3-C2-N2	7.53	125.17	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
22	DB	1856	U	OP2-P-O3'	7.53	121.76	105.20
22	FB	1861	G	N7-C8-N9	7.52	116.86	113.10
53	D7	42	LYS	C-N-CA	7.51	140.48	121.70
53	D7	45	ASP	N-CA-C	7.51	131.28	111.00
22	DB	3876	A	N9-C1'-C2'	7.50	123.76	114.00
22	BB	1861	G	N7-C8-N9	7.50	116.85	113.10
53	F7	45	ASP	N-CA-C	7.49	131.23	111.00
22	HB	2039	G	N1-C6-O6	-7.49	115.40	119.90
22	FB	3876	A	N9-C1'-C2'	7.49	123.73	114.00
53	H7	45	ASP	N-CA-C	7.49	131.22	111.00
22	DB	10	A	OP2-P-O3'	-7.49	88.73	105.20
22	HB	1861	G	N7-C8-N9	7.48	116.84	113.10
22	FB	1309	G	P-O3'-C3'	-7.47	110.73	119.70
53	F7	42	LYS	C-N-CA	7.47	140.38	121.70
53	B7	45	ASP	N-CA-C	7.47	131.17	111.00
22	JB	2039	G	N3-C2-N2	7.46	125.12	119.90
53	B7	42	LYS	C-N-CA	7.46	140.36	121.70
53	J7	45	ASP	N-CA-C	7.46	131.13	111.00
22	HB	2524	G	P-O3'-C3'	7.45	128.64	119.70
53	H7	42	LYS	C-N-CA	7.44	140.29	121.70
22	JB	3876	A	N9-C1'-C2'	7.43	123.66	114.00
22	JB	2039	G	N1-C6-O6	-7.42	115.45	119.90
22	DB	1856	U	P-O3'-C3'	7.41	128.59	119.70
22	FB	1145	C	O3'-P-O5'	-7.41	89.93	104.00
22	FB	2203	G	OP2-P-O3'	-7.41	88.91	105.20
1	IA	919	A	OP2-P-O3'	-7.40	88.91	105.20
22	DB	2039	G	N1-C6-O6	-7.40	115.46	119.90
22	BB	2039	G	N1-C6-O6	-7.39	115.46	119.90
22	HB	3876	A	N9-C1'-C2'	7.39	123.61	114.00
22	FB	2039	G	N3-C2-N2	7.39	125.07	119.90
44	BX	77	ARG	N-CA-C	7.38	130.93	111.00
53	J7	42	LYS	C-N-CA	7.38	140.15	121.70
22	BB	3876	A	N9-C1'-C2'	7.38	123.59	114.00
22	DB	2552	C	P-O3'-C3'	7.37	128.55	119.70
22	FB	2039	G	C5-C6-O6	7.37	133.02	128.60
44	DX	77	ARG	N-CA-C	7.37	130.89	111.00
22	BB	1888	C	O3'-P-O5'	-7.36	90.02	104.00
44	FX	77	ARG	N-CA-C	7.34	130.81	111.00
44	JX	77	ARG	N-CA-C	7.33	130.80	111.00
22	BB	1827	G	OP1-P-O3'	-7.33	89.07	105.20
22	DB	2203	G	OP2-P-O3'	-7.32	89.09	105.20
22	BB	568	G	OP1-P-O3'	7.32	121.31	105.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
22	FB	1888	C	OP2-P-O3'	7.32	121.29	105.20
22	FB	2203	G	OP1-P-O3'	7.31	121.28	105.20
29	FI	44	LYS	N-CA-C	-7.31	91.27	111.00
29	JI	44	LYS	N-CA-C	-7.29	91.31	111.00
44	HX	77	ARG	N-CA-C	7.29	130.68	111.00
12	EL	22	SER	CA-C-N	7.29	133.24	117.20
29	HI	44	LYS	N-CA-C	-7.29	91.32	111.00
29	BI	44	LYS	N-CA-C	-7.27	91.36	111.00
44	DX	78	PHE	N-CA-C	7.25	130.59	111.00
22	FB	2471	U	OP1-P-O3'	-7.24	89.27	105.20
22	DB	1861	G	N7-C8-N9	7.23	116.72	113.10
44	FX	78	PHE	N-CA-C	7.23	130.53	111.00
1	GA	243	A	C2'-C3'-O3'	7.23	125.41	109.50
22	DB	716	U	OP2-P-O3'	7.23	121.11	105.20
29	DI	44	LYS	N-CA-C	-7.23	91.49	111.00
1	EA	243	A	C2'-C3'-O3'	7.23	125.40	109.50
1	AA	243	A	C2'-C3'-O3'	7.22	125.38	109.50
22	DB	1483	G	OP1-P-O3'	-7.20	89.35	105.20
22	DB	2407	G	OP1-P-O3'	-7.20	89.35	105.20
22	JB	2552	C	OP2-P-O3'	7.20	121.04	105.20
44	BX	78	PHE	N-CA-C	7.20	130.44	111.00
22	HB	2407	G	P-O3'-C3'	-7.20	111.07	119.70
44	JX	78	PHE	N-CA-C	7.20	130.43	111.00
22	HB	3875	A	N9-C1'-C2'	7.19	123.35	114.00
22	JB	3875	A	N9-C1'-C2'	7.19	123.35	114.00
22	HB	1004	A	O3'-P-O5'	7.18	117.64	104.00
44	HX	78	PHE	N-CA-C	7.18	130.39	111.00
22	JB	1127	C	OP2-P-O3'	-7.18	89.40	105.20
22	JB	1861	G	N7-C8-N9	7.18	116.69	113.10
22	BB	3875	A	N9-C1'-C2'	7.17	123.33	114.00
1	IA	243	A	C2'-C3'-O3'	7.17	125.28	109.50
22	FB	3875	A	N9-C1'-C2'	7.17	123.32	114.00
22	DB	3875	A	N9-C1'-C2'	7.15	123.30	114.00
22	HB	737	C	OP1-P-O3'	-7.15	89.47	105.20
1	CA	243	A	C2'-C3'-O3'	7.15	125.23	109.50
22	HB	2039	G	C5-C6-O6	7.13	132.88	128.60
37	FQ	100	ARG	N-CA-C	-7.11	91.80	111.00
22	BB	2039	G	C5-C6-O6	7.10	132.86	128.60
22	DB	2039	G	C5-C6-O6	7.10	132.86	128.60
13	AM	83	ASP	C-N-CA	-7.09	103.97	121.70
22	HB	1167	A	OP2-P-O3'	-7.08	89.62	105.20
22	HB	1145	C	P-O3'-C3'	-7.08	111.20	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
37	DQ	100	ARG	N-CA-C	-7.07	91.90	111.00
22	HB	1752	U	OP2-P-O3'	-7.07	89.65	105.20
22	JB	2039	G	C5-C6-O6	7.07	132.84	128.60
22	HB	910	U	O3'-P-O5'	-7.06	90.58	104.00
22	HB	1437	A	OP2-P-O3'	7.06	120.72	105.20
22	HB	1411	C	OP2-P-O3'	-7.05	89.68	105.20
37	HQ	100	ARG	N-CA-C	-7.05	91.97	111.00
37	JQ	100	ARG	N-CA-C	-7.04	91.98	111.00
37	BQ	100	ARG	N-CA-C	-7.04	92.00	111.00
22	JB	1698	C	OP1-P-O3'	7.02	120.64	105.20
22	JB	2655	C	O3'-P-O5'	-7.01	90.68	104.00
22	BB	1861	G	C4-N9-C1'	7.00	135.59	126.50
22	BB	1861	G	O4'-C1'-C2'	-6.99	98.81	105.80
1	CA	1065	U	O4'-C4'-C3'	6.99	111.69	106.10
22	FB	2533	U	OP2-P-O3'	6.99	120.58	105.20
22	DB	10	A	OP1-P-O3'	6.98	120.56	105.20
22	JB	737	C	O3'-P-O5'	6.98	117.27	104.00
22	BB	1453	A	OP1-P-O3'	6.97	120.53	105.20
22	HB	1861	G	C4-N9-C1'	6.96	135.55	126.50
22	FB	539	A	P-O3'-C3'	6.96	128.05	119.70
22	JB	1004	A	P-O3'-C3'	-6.95	111.36	119.70
22	FB	2591	C	N3-C2-O2	-6.94	117.04	121.90
22	BB	1145	C	P-O3'-C3'	-6.93	111.38	119.70
1	EA	1065	U	O4'-C4'-C3'	6.93	111.64	106.10
1	CA	372	C	O4'-C4'-C3'	6.92	111.63	106.10
22	JB	1861	G	C4-N9-C1'	6.91	135.48	126.50
22	FB	1861	G	O4'-C1'-C2'	-6.90	98.90	105.80
22	FB	1861	G	C4-N9-C1'	6.90	135.47	126.50
22	JB	1861	G	O4'-C1'-C2'	-6.89	98.91	105.80
22	DB	1861	G	C4-N9-C1'	6.88	135.45	126.50
22	HB	1861	G	O4'-C1'-C2'	-6.88	98.92	105.80
22	JB	2203	G	P-O3'-C3'	-6.87	111.45	119.70
22	BB	1861	G	C1'-O4'-C4'	6.86	115.39	109.90
48	J2	47	PRO	CA-N-CD	-6.86	101.89	111.50
48	D2	47	PRO	CA-N-CD	-6.85	101.91	111.50
1	IA	372	C	O4'-C4'-C3'	6.84	111.57	106.10
22	DB	1861	G	O4'-C1'-C2'	-6.84	98.96	105.80
22	FB	1861	G	C1'-O4'-C4'	6.84	115.37	109.90
22	HB	2591	C	N3-C2-O2	-6.83	117.11	121.90
22	BB	1411	C	OP2-P-O3'	-6.83	90.17	105.20
1	IA	1065	U	O4'-C4'-C3'	6.83	111.56	106.10
31	JK	156	HIS	N-CA-C	-6.83	92.57	111.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
22	DB	1861	G	C1'-O4'-C4'	6.82	115.36	109.90
22	BB	1887	G	O3'-P-O5'	6.82	116.95	104.00
22	JB	1861	G	C1'-O4'-C4'	6.82	115.35	109.90
1	AA	372	C	O4'-C4'-C3'	6.81	111.55	106.10
48	F2	47	PRO	CA-N-CD	-6.81	101.97	111.50
31	HK	156	HIS	N-CA-C	-6.81	92.62	111.00
48	H2	47	PRO	CA-N-CD	-6.80	101.98	111.50
1	AA	1065	U	O4'-C4'-C3'	6.80	111.54	106.10
22	BB	2591	C	N3-C2-O2	-6.80	117.14	121.90
1	GA	372	C	O4'-C4'-C3'	6.78	111.52	106.10
22	HB	1827	G	OP1-P-O3'	6.78	120.12	105.20
31	BK	156	HIS	N-CA-C	-6.78	92.70	111.00
22	HB	1861	G	C1'-O4'-C4'	6.78	115.32	109.90
53	F7	198	THR	C-N-CA	6.78	138.64	121.70
31	DK	156	HIS	N-CA-C	-6.77	92.73	111.00
53	J7	198	THR	C-N-CA	6.76	138.61	121.70
48	B2	47	PRO	CA-N-CD	-6.76	102.04	111.50
22	JB	1952	A	OP2-P-O3'	-6.75	90.34	105.20
43	DW	153	LYS	N-CA-C	-6.75	92.77	111.00
31	FK	156	HIS	N-CA-C	-6.75	92.79	111.00
53	H7	198	THR	C-N-CA	6.75	138.56	121.70
53	B7	198	THR	C-N-CA	6.74	138.55	121.70
53	D7	198	THR	C-N-CA	6.74	138.54	121.70
22	DB	2591	C	N3-C2-O2	-6.73	117.19	121.90
22	JB	2655	C	OP1-P-O3'	6.73	120.01	105.20
43	JW	153	LYS	N-CA-C	-6.73	92.82	111.00
22	HB	2719	U	N3-C2-O2	-6.73	117.49	122.20
53	F7	199	ASN	CA-C-N	6.71	131.96	117.20
43	FW	153	LYS	N-CA-C	-6.71	92.89	111.00
22	BB	2719	U	N3-C2-O2	-6.71	117.51	122.20
43	BW	153	LYS	N-CA-C	-6.70	92.91	111.00
53	J7	199	ASN	CA-C-N	6.70	131.94	117.20
39	HS	6	GLN	N-CA-C	6.70	129.08	111.00
22	JB	1047	G	OP1-P-O3'	-6.70	90.47	105.20
53	B7	199	ASN	CA-C-N	6.69	131.92	117.20
1	GA	1065	U	O4'-C4'-C3'	6.69	111.45	106.10
53	D7	199	ASN	CA-C-N	6.68	131.90	117.20
39	BS	6	GLN	N-CA-C	6.67	129.02	111.00
22	HB	2533	U	OP2-P-O3'	-6.67	90.52	105.20
22	JB	2591	C	N3-C2-O2	-6.67	117.23	121.90
22	JB	568	G	P-O3'-C3'	6.67	127.70	119.70
22	BB	1127	C	O3'-P-O5'	-6.67	91.34	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
43	HW	153	LYS	N-CA-C	-6.66	93.01	111.00
1	EA	372	C	O4'-C4'-C3'	6.65	111.42	106.10
39	FS	6	GLN	N-CA-C	6.65	128.94	111.00
22	DB	737	C	O3'-P-O5'	6.64	116.62	104.00
53	H7	199	ASN	CA-C-N	6.63	131.80	117.20
39	DS	6	GLN	N-CA-C	6.63	128.91	111.00
22	HB	3877	A	OP2-P-O3'	-6.62	90.63	105.20
39	JS	6	GLN	N-CA-C	6.62	128.87	111.00
22	DB	2719	U	N3-C2-O2	-6.61	117.57	122.20
40	DT	49	SER	N-CA-C	6.60	128.83	111.00
22	JB	737	C	OP1-P-O3'	-6.58	90.73	105.20
22	FB	1287	A	OP2-P-O3'	6.58	119.67	105.20
40	HT	49	SER	N-CA-C	6.58	128.75	111.00
22	BB	511	A	OP1-P-O3'	6.56	119.63	105.20
40	JT	49	SER	N-CA-C	6.55	128.70	111.00
22	FB	156	G	OP1-P-O3'	6.55	119.61	105.20
22	DB	1287	A	O3'-P-O5'	6.55	116.44	104.00
22	FB	1952	A	O3'-P-O5'	6.55	116.44	104.00
40	BT	49	SER	N-CA-C	6.54	128.66	111.00
22	JB	2719	U	N3-C2-O2	-6.54	117.62	122.20
40	FT	49	SER	N-CA-C	6.53	128.63	111.00
22	JB	2492	G	O3'-P-O5'	6.52	116.38	104.00
22	DB	2552	C	OP2-P-O3'	6.51	119.53	105.20
22	DB	677	G	O3'-P-O5'	-6.51	91.63	104.00
1	AA	559	A	C2'-C3'-O3'	6.49	124.09	113.70
22	FB	2719	U	N3-C2-O2	-6.48	117.66	122.20
43	BW	124	ALA	N-CA-C	6.48	128.49	111.00
1	GA	559	A	C2'-C3'-O3'	6.47	124.06	113.70
1	CA	559	A	C2'-C3'-O3'	6.47	124.05	113.70
22	DB	2492	G	P-O3'-C3'	6.46	127.46	119.70
1	EA	559	A	C2'-C3'-O3'	6.46	124.03	113.70
22	FB	1036	G	OP1-P-O3'	-6.46	91.00	105.20
22	DB	511	A	OP1-P-O3'	6.45	119.40	105.20
40	DT	132	GLY	N-CA-C	6.45	129.22	113.10
43	DW	124	ALA	N-CA-C	6.44	128.40	111.00
40	BT	132	GLY	N-CA-C	6.44	129.19	113.10
43	FW	124	ALA	N-CA-C	6.43	128.38	111.00
40	JT	132	GLY	N-CA-C	6.43	129.18	113.10
22	FB	1004	A	P-O3'-C3'	-6.43	111.99	119.70
40	HT	132	GLY	N-CA-C	6.43	129.17	113.10
22	FB	3877	A	OP2-P-O3'	-6.42	91.07	105.20
22	HB	1861	G	C5'-C4'-O4'	6.42	116.81	109.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
22	DB	1861	G	C5'-C4'-O4'	6.42	116.80	109.10
40	FT	132	GLY	N-CA-C	6.42	129.14	113.10
43	HW	124	ALA	N-CA-C	6.41	128.32	111.00
45	DY	55	THR	N-CA-C	-6.41	93.69	111.00
1	IA	559	A	C2'-C3'-O3'	6.41	123.95	113.70
22	FB	1861	G	C5'-C4'-O4'	6.41	116.79	109.10
22	JB	1861	G	C5'-C4'-O4'	6.40	116.78	109.10
43	JW	124	ALA	N-CA-C	6.40	128.28	111.00
22	BB	1453	A	OP2-P-O3'	6.38	119.23	105.20
45	HY	55	THR	N-CA-C	-6.38	93.77	111.00
22	DB	2533	U	OP1-P-O3'	-6.38	91.17	105.20
22	HB	737	C	OP2-P-O3'	6.37	119.21	105.20
45	FY	55	THR	N-CA-C	-6.37	93.81	111.00
45	JY	55	THR	N-CA-C	-6.37	93.81	111.00
45	BY	55	THR	N-CA-C	-6.36	93.82	111.00
22	DB	69	G	OP2-P-O3'	6.36	119.19	105.20
22	BB	1861	G	C5'-C4'-O4'	6.33	116.69	109.10
41	BU	16	ALA	N-CA-C	-6.28	94.05	111.00
24	DD	262	LYS	N-CA-C	-6.27	94.06	111.00
41	HU	16	ALA	N-CA-C	-6.27	94.08	111.00
24	FD	262	LYS	N-CA-C	-6.26	94.09	111.00
24	JD	262	LYS	N-CA-C	-6.26	94.09	111.00
27	BG	138	PHE	N-CA-C	6.25	127.88	111.00
27	JG	138	PHE	N-CA-C	6.25	127.88	111.00
22	BB	2655	C	OP2-P-O3'	-6.25	91.46	105.20
24	HD	262	LYS	N-CA-C	-6.25	94.14	111.00
41	JU	16	ALA	N-CA-C	-6.24	94.15	111.00
41	DU	16	ALA	N-CA-C	-6.24	94.17	111.00
24	BD	262	LYS	N-CA-C	-6.23	94.17	111.00
41	FU	16	ALA	N-CA-C	-6.23	94.17	111.00
27	FG	138	PHE	N-CA-C	6.23	127.82	111.00
22	FB	2471	U	OP2-P-O3'	6.22	118.89	105.20
22	BB	487	G	P-O3'-C3'	-6.22	112.24	119.70
22	DB	603	C	OP2-P-O3'	-6.21	91.53	105.20
1	AA	561	U	P-O3'-C3'	-6.20	112.26	119.70
31	FK	126	VAL	N-CA-C	-6.19	94.28	111.00
22	HB	1167	A	O3'-P-O5'	6.18	115.75	104.00
27	DG	138	PHE	N-CA-C	6.18	127.69	111.00
31	BK	126	VAL	N-CA-C	-6.17	94.34	111.00
31	HK	126	VAL	N-CA-C	-6.17	94.35	111.00
31	JK	126	VAL	N-CA-C	-6.17	94.36	111.00
27	HG	138	PHE	N-CA-C	6.16	127.62	111.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
22	BB	2431	C	OP2-P-O3'	-6.15	91.67	105.20
22	DB	2655	C	O3'-P-O5'	-6.15	92.32	104.00
22	HB	1437	A	P-O3'-C3'	-6.14	112.33	119.70
22	DB	568	G	P-O3'-C3'	-6.14	112.33	119.70
25	FE	21	ILE	N-CA-C	6.13	127.55	111.00
1	GA	561	U	P-O3'-C3'	-6.13	112.34	119.70
25	BE	21	ILE	N-CA-C	6.13	127.55	111.00
31	DK	126	VAL	N-CA-C	-6.13	94.45	111.00
40	JT	131	LYS	N-CA-C	6.12	127.53	111.00
25	DE	21	ILE	N-CA-C	6.09	127.45	111.00
25	HE	21	ILE	N-CA-C	6.09	127.45	111.00
40	HT	131	LYS	N-CA-C	6.08	127.43	111.00
39	JS	5	ILE	N-CA-C	6.08	127.42	111.00
25	JE	21	ILE	N-CA-C	6.08	127.42	111.00
22	BB	10	A	OP1-P-O3'	-6.08	91.83	105.20
40	BT	131	LYS	N-CA-C	6.06	127.37	111.00
39	BS	5	ILE	N-CA-C	6.06	127.37	111.00
43	HW	96	VAL	C-N-CA	6.06	147.46	122.00
22	HB	1309	G	OP1-P-O3'	6.06	118.53	105.20
43	JW	96	VAL	C-N-CA	6.06	147.44	122.00
39	FS	5	ILE	N-CA-C	6.05	127.35	111.00
40	FT	131	LYS	N-CA-C	6.05	127.35	111.00
43	FW	96	VAL	C-N-CA	6.05	147.42	122.00
40	DT	131	LYS	N-CA-C	6.05	127.33	111.00
43	BW	96	VAL	C-N-CA	6.05	147.40	122.00
45	FY	65	GLU	N-CA-C	-6.05	94.67	111.00
43	DW	96	VAL	C-N-CA	6.04	147.37	122.00
1	CA	1498	U	C2'-C3'-O3'	6.04	123.36	113.70
22	HB	1197	U	O3'-P-O5'	6.04	115.47	104.00
39	HS	5	ILE	N-CA-C	6.04	127.30	111.00
45	BY	65	GLU	N-CA-C	-6.03	94.72	111.00
39	DS	5	ILE	N-CA-C	6.03	127.28	111.00
22	BB	2719	U	C2-N1-C1'	6.00	124.91	117.70
22	DB	1861	G	N9-C1'-C2'	6.00	121.81	114.00
45	HY	65	GLU	N-CA-C	-6.00	94.81	111.00
1	IA	1498	U	C2'-C3'-O3'	6.00	123.29	113.70
22	HB	1861	G	N9-C1'-C2'	5.99	121.79	114.00
22	JB	2719	U	C2-N1-C1'	5.99	124.89	117.70
1	GA	1498	U	C2'-C3'-O3'	5.99	123.28	113.70
1	AA	1498	U	C2'-C3'-O3'	5.98	123.27	113.70
22	DB	2431	C	OP1-P-O3'	5.98	118.35	105.20
53	F7	41	MSE	N-CA-C	5.97	127.13	111.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
45	JY	65	GLU	N-CA-C	-5.97	94.87	111.00
53	J7	41	MSE	N-CA-C	5.97	127.13	111.00
22	HB	2719	U	C2-N1-C1'	5.97	124.86	117.70
53	B7	41	MSE	N-CA-C	5.96	127.10	111.00
22	DB	2719	U	C2-N1-C1'	5.96	124.86	117.70
22	DB	2075	U	O4'-C4'-C3'	-5.96	98.04	104.00
53	D7	41	MSE	N-CA-C	5.96	127.09	111.00
45	DY	65	GLU	N-CA-C	-5.96	94.92	111.00
22	BB	1861	G	N9-C1'-C2'	5.96	121.74	114.00
34	JN	74	PRO	CA-N-CD	-5.95	103.17	111.50
34	DN	74	PRO	CA-N-CD	-5.95	103.17	111.50
22	FB	2719	U	C2-N1-C1'	5.95	124.84	117.70
22	BB	522	G	N3-C2-N2	-5.94	115.74	119.90
22	JB	1861	G	N9-C1'-C2'	5.94	121.72	114.00
22	JB	2552	C	P-O3'-C3'	-5.94	112.57	119.70
47	H1	36	TRP	N-CA-C	5.94	127.03	111.00
22	JB	1145	C	OP1-P-O3'	5.94	118.26	105.20
22	DB	568	G	O3'-P-O5'	-5.93	92.72	104.00
1	EA	1498	U	C2'-C3'-O3'	5.93	123.19	113.70
53	J7	46	LEU	CB-CA-C	-5.93	98.93	110.20
47	B1	36	TRP	N-CA-C	5.93	127.01	111.00
43	DW	97	PRO	N-CA-C	5.93	127.51	112.10
53	D7	46	LEU	CB-CA-C	-5.93	98.94	110.20
53	B7	46	LEU	CB-CA-C	-5.92	98.94	110.20
22	FB	1861	G	N9-C1'-C2'	5.92	121.70	114.00
22	JB	1856	U	P-O3'-C3'	-5.92	112.60	119.70
42	JV	106	VAL	N-CA-C	5.92	126.98	111.00
47	D1	36	TRP	N-CA-C	5.91	126.97	111.00
47	F1	36	TRP	N-CA-C	5.91	126.96	111.00
43	FW	97	PRO	N-CA-C	5.91	127.45	112.10
43	BW	97	PRO	N-CA-C	5.90	127.45	112.10
53	H7	46	LEU	CB-CA-C	-5.90	98.99	110.20
43	JW	97	PRO	N-CA-C	5.90	127.43	112.10
47	J1	36	TRP	N-CA-C	5.90	126.92	111.00
22	DB	3877	A	OP2-P-O3'	-5.89	92.23	105.20
22	JB	2075	U	O4'-C4'-C3'	-5.89	98.11	104.00
53	H7	41	MSE	N-CA-C	5.89	126.90	111.00
42	DV	106	VAL	N-CA-C	5.89	126.89	111.00
53	F7	46	LEU	CB-CA-C	-5.88	99.02	110.20
22	FB	2075	U	O4'-C4'-C3'	-5.88	98.12	104.00
22	HB	2655	C	P-O3'-C3'	5.88	126.76	119.70
34	HN	74	PRO	CA-N-CD	-5.88	103.27	111.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
22	FB	522	G	N3-C2-N2	-5.88	115.78	119.90
22	JB	3875	A	C4-N9-C1'	5.87	136.87	126.30
22	BB	3875	A	C4-N9-C1'	5.87	136.87	126.30
34	BN	74	PRO	CA-N-CD	-5.87	103.28	111.50
22	DB	2704	U	OP1-P-O3'	-5.87	92.29	105.20
30	HJ	129	GLY	N-CA-C	-5.85	98.47	113.10
43	HW	97	PRO	N-CA-C	5.85	127.31	112.10
22	HB	522	G	N3-C2-N2	-5.85	115.81	119.90
22	DB	737	C	OP2-P-O3'	5.84	118.06	105.20
30	FJ	129	GLY	N-CA-C	-5.84	98.49	113.10
30	DJ	129	GLY	N-CA-C	-5.84	98.50	113.10
34	FN	74	PRO	CA-N-CD	-5.84	103.33	111.50
22	HB	2075	U	O4'-C4'-C3'	-5.84	98.16	104.00
25	DE	146	THR	C-N-CD	-5.83	107.77	120.60
22	DB	3875	A	C4-N9-C1'	5.83	136.80	126.30
42	HV	106	VAL	N-CA-C	5.83	126.74	111.00
22	BB	2075	U	O4'-C4'-C3'	-5.83	98.17	104.00
42	BV	106	VAL	N-CA-C	5.83	126.73	111.00
22	HB	69	G	OP1-P-O3'	-5.83	92.39	105.20
30	JJ	129	GLY	N-CA-C	-5.82	98.54	113.10
30	BJ	129	GLY	N-CA-C	-5.82	98.56	113.10
22	DB	156	G	O3'-P-O5'	-5.81	92.96	104.00
42	FV	106	VAL	N-CA-C	5.81	126.68	111.00
44	FX	78	PHE	C-N-CA	5.80	136.20	121.70
44	BX	78	PHE	CA-C-N	-5.80	104.44	117.20
44	HX	78	PHE	CA-C-N	-5.80	104.45	117.20
22	FB	3875	A	C4-N9-C1'	5.79	136.73	126.30
1	GA	1528	U	C4'-C3'-C2'	5.79	108.39	102.60
44	DX	78	PHE	C-N-CA	5.79	136.18	121.70
27	DG	76	ASN	N-CA-C	-5.78	95.39	111.00
25	JE	146	THR	C-N-CD	-5.78	107.88	120.60
22	DB	522	G	N3-C2-N2	-5.78	115.86	119.90
22	FB	2524	G	O3'-P-O5'	5.77	114.97	104.00
22	HB	3875	A	C4-N9-C1'	5.77	136.69	126.30
25	HE	146	THR	C-N-CD	-5.77	107.90	120.60
44	JX	78	PHE	CA-C-N	-5.77	104.50	117.20
25	FE	146	THR	C-N-CD	-5.75	107.95	120.60
44	DX	78	PHE	CA-C-N	-5.75	104.56	117.20
22	FB	1197	U	OP2-P-O3'	-5.75	92.56	105.20
44	FX	78	PHE	CA-C-N	-5.75	104.56	117.20
44	BX	78	PHE	C-N-CA	5.74	136.06	121.70
22	BB	1004	A	P-O3'-C3'	5.74	126.59	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
22	FB	1145	C	P-O3'-C3'	-5.73	112.83	119.70
22	FB	1861	G	O4'-C1'-N9	5.73	112.78	108.20
28	HH	66	GLY	N-CA-C	-5.73	98.78	113.10
27	HG	76	ASN	N-CA-C	-5.72	95.55	111.00
22	JB	522	G	N3-C2-N2	-5.72	115.90	119.90
27	FG	76	ASN	N-CA-C	-5.72	95.56	111.00
44	HX	78	PHE	C-N-CA	5.72	136.00	121.70
25	BE	146	THR	C-N-CD	-5.71	108.03	120.60
44	JX	78	PHE	C-N-CA	5.71	135.99	121.70
27	BG	76	ASN	N-CA-C	-5.71	95.58	111.00
28	BH	66	GLY	N-CA-C	-5.71	98.83	113.10
28	DH	66	GLY	N-CA-C	-5.71	98.83	113.10
1	EA	60	A	C2'-C3'-O3'	5.71	122.83	113.70
22	HB	111	G	OP1-P-O3'	-5.71	92.65	105.20
44	JX	79	ILE	N-CA-C	5.70	126.38	111.00
22	JB	1453	A	OP2-P-O3'	5.70	117.73	105.20
27	JG	76	ASN	N-CA-C	-5.70	95.62	111.00
28	JH	66	GLY	N-CA-C	-5.70	98.86	113.10
22	DB	2431	C	OP2-P-O3'	-5.69	92.67	105.20
1	CA	60	A	C2'-C3'-O3'	5.69	122.81	113.70
22	FB	2524	G	OP2-P-O3'	5.69	117.72	105.20
28	FH	66	GLY	N-CA-C	-5.68	98.90	113.10
34	BN	10	PHE	N-CA-C	-5.68	95.66	111.00
34	HN	10	PHE	N-CA-C	-5.68	95.67	111.00
34	JN	10	PHE	N-CA-C	-5.68	95.67	111.00
22	BB	1309	G	OP1-P-O3'	5.66	117.66	105.20
1	EA	1528	U	C4'-C3'-C2'	5.66	108.26	102.60
34	FN	10	PHE	N-CA-C	-5.66	95.72	111.00
44	FX	79	ILE	N-CA-C	5.66	126.28	111.00
44	HX	79	ILE	N-CA-C	5.66	126.27	111.00
44	DX	79	ILE	N-CA-C	5.65	126.27	111.00
22	BB	1861	G	O4'-C1'-N9	5.65	112.72	108.20
1	IA	1528	U	C4'-C3'-C2'	5.64	108.24	102.60
1	AA	1528	U	C4'-C3'-C2'	5.64	108.24	102.60
1	IA	60	A	C2'-C3'-O3'	5.64	122.72	113.70
44	BX	79	ILE	N-CA-C	5.64	126.23	111.00
25	JE	50	GLY	N-CA-C	5.64	127.20	113.10
34	DN	10	PHE	N-CA-C	-5.64	95.78	111.00
30	DJ	81	ALA	N-CA-C	-5.63	95.79	111.00
22	FB	2407	G	P-O3'-C3'	-5.63	112.94	119.70
25	BE	50	GLY	N-CA-C	5.63	127.17	113.10
22	HB	1566	G	O3'-P-O5'	5.63	114.69	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	GA	60	A	C2'-C3'-O3'	5.62	122.69	113.70
30	HJ	81	ALA	N-CA-C	-5.62	95.82	111.00
22	HB	2704	U	OP2-P-O3'	-5.62	92.84	105.20
25	DE	50	GLY	N-CA-C	5.61	127.12	113.10
30	JJ	81	ALA	N-CA-C	-5.60	95.88	111.00
30	FJ	81	ALA	N-CA-C	-5.60	95.88	111.00
48	F2	40	LYS	N-CA-C	5.60	126.11	111.00
25	HE	50	GLY	N-CA-C	5.60	127.09	113.10
48	J2	40	LYS	N-CA-C	5.59	126.11	111.00
22	JB	1127	C	P-O3'-C3'	-5.59	112.99	119.70
48	B2	40	LYS	N-CA-C	5.59	126.09	111.00
22	HB	1861	G	O4'-C1'-N9	5.59	112.67	108.20
25	FE	50	GLY	N-CA-C	5.58	127.06	113.10
48	H2	40	LYS	N-CA-C	5.58	126.05	111.00
30	BJ	81	ALA	N-CA-C	-5.57	95.96	111.00
1	AA	60	A	C2'-C3'-O3'	5.57	122.60	113.70
45	DY	50	VAL	N-CA-C	-5.56	95.99	111.00
45	HY	50	VAL	N-CA-C	-5.56	95.99	111.00
48	D2	40	LYS	N-CA-C	5.55	125.99	111.00
1	IA	197	A	N9-C1'-C2'	5.55	121.22	114.00
22	DB	69	G	OP1-P-O3'	-5.54	93.01	105.20
51	D5	11	LYS	N-CA-C	-5.54	96.04	111.00
45	BY	50	VAL	N-CA-C	-5.53	96.06	111.00
1	CA	1528	U	C4'-C3'-C2'	5.53	108.13	102.60
22	FB	1861	G	N3-C4-C5	-5.53	125.83	128.60
51	B5	11	LYS	N-CA-C	-5.53	96.06	111.00
45	JY	50	VAL	N-CA-C	-5.53	96.07	111.00
1	AA	561	U	OP1-P-O3'	5.52	117.35	105.20
22	JB	1861	G	O4'-C1'-N9	5.52	112.62	108.20
45	JY	48	ARG	N-CA-C	-5.52	96.09	111.00
22	DB	1861	G	O4'-C1'-N9	5.52	112.61	108.20
45	BY	48	ARG	N-CA-C	-5.51	96.12	111.00
51	J5	11	LYS	N-CA-C	-5.51	96.12	111.00
1	AA	197	A	N9-C1'-C2'	5.51	121.16	114.00
51	H5	11	LYS	N-CA-C	-5.51	96.13	111.00
1	GA	923	A	O4'-C4'-C3'	-5.51	98.49	104.00
22	HB	1127	C	O3'-P-O5'	-5.51	93.54	104.00
45	DY	48	ARG	N-CA-C	-5.50	96.16	111.00
45	FY	50	VAL	N-CA-C	-5.50	96.16	111.00
33	HM	14	LYS	N-CA-C	-5.49	96.17	111.00
51	F5	11	LYS	N-CA-C	-5.49	96.19	111.00
33	JM	14	LYS	N-CA-C	-5.49	96.19	111.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
45	HY	48	ARG	N-CA-C	-5.48	96.20	111.00
22	JB	3875	A	C8-N9-C1'	-5.48	117.83	127.70
22	DB	677	G	OP2-P-O3'	5.48	117.25	105.20
33	DM	14	LYS	N-CA-C	-5.47	96.22	111.00
33	FM	14	LYS	N-CA-C	-5.46	96.25	111.00
33	BM	14	LYS	N-CA-C	-5.45	96.27	111.00
22	BB	677	G	O3'-P-O5'	-5.45	93.65	104.00
22	DB	3875	A	P-O5'-C5'	5.44	129.61	120.90
22	FB	3875	A	P-O5'-C5'	5.44	129.61	120.90
22	FB	3875	A	C8-N9-C1'	-5.44	117.90	127.70
45	FY	48	ARG	N-CA-C	-5.44	96.32	111.00
1	EA	197	A	N9-C1'-C2'	5.43	121.06	114.00
22	HB	539	A	OP1-P-O3'	5.43	117.14	105.20
22	JB	3875	A	P-O5'-C5'	5.42	129.58	120.90
1	CA	197	A	N9-C1'-C2'	5.42	121.04	114.00
1	AA	923	A	O4'-C4'-C3'	-5.41	98.59	104.00
22	BB	3875	A	C8-N9-C1'	-5.41	117.96	127.70
22	DB	3875	A	C8-N9-C1'	-5.41	117.95	127.70
53	B7	43	LYS	CB-CA-C	-5.41	99.58	110.40
22	FB	511	A	P-O3'-C3'	5.41	126.19	119.70
37	FQ	79	ARG	N-CA-C	5.39	125.56	111.00
1	IA	1299	A	N9-C1'-C2'	5.39	121.01	114.00
1	GA	197	A	N9-C1'-C2'	5.39	121.01	114.00
53	H7	43	LYS	CB-CA-C	-5.39	99.63	110.40
22	HB	3875	A	C8-N9-C1'	-5.38	118.02	127.70
53	F7	46	LEU	N-CA-C	5.38	125.52	111.00
22	JB	1036	G	P-O3'-C3'	5.38	126.15	119.70
1	AA	1299	A	N9-C1'-C2'	5.37	120.99	114.00
43	FW	123	VAL	N-CA-C	5.37	125.49	111.00
22	HB	3875	A	P-O5'-C5'	5.37	129.49	120.90
53	J7	43	LYS	CB-CA-C	-5.37	99.67	110.40
53	D7	46	LEU	N-CA-C	5.36	125.48	111.00
37	DQ	79	ARG	N-CA-C	5.36	125.47	111.00
53	J7	46	LEU	N-CA-C	5.36	125.47	111.00
40	FT	13	GLN	N-CA-C	-5.36	96.54	111.00
51	F5	8	LYS	N-CA-C	-5.36	96.54	111.00
28	FH	113	VAL	N-CA-C	-5.35	96.54	111.00
51	H5	8	LYS	N-CA-C	-5.35	96.55	111.00
22	BB	511	A	P-O3'-C3'	5.35	126.12	119.70
37	BQ	79	ARG	N-CA-C	5.35	125.45	111.00
43	JW	123	VAL	N-CA-C	5.35	125.45	111.00
1	IA	923	A	O4'-C4'-C3'	-5.35	98.65	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
53	D7	43	LYS	CB-CA-C	-5.35	99.70	110.40
53	H7	46	LEU	N-CA-C	5.35	125.44	111.00
37	HQ	79	ARG	N-CA-C	5.35	125.43	111.00
28	JH	113	VAL	N-CA-C	-5.34	96.57	111.00
37	JQ	79	ARG	N-CA-C	5.34	125.43	111.00
40	DT	13	GLN	N-CA-C	-5.34	96.58	111.00
22	DB	1309	G	OP1-P-O3'	5.34	116.94	105.20
28	BH	113	VAL	N-CA-C	-5.34	96.59	111.00
53	B7	46	LEU	N-CA-C	5.34	125.41	111.00
1	EA	1299	A	N9-C1'-C2'	5.33	120.94	114.00
40	JT	13	GLN	N-CA-C	-5.33	96.59	111.00
40	BT	13	GLN	N-CA-C	-5.33	96.60	111.00
25	FE	5	LEU	N-CA-C	5.33	125.40	111.00
43	HW	123	VAL	N-CA-C	5.33	125.39	111.00
51	D5	8	LYS	N-CA-C	-5.33	96.61	111.00
51	J5	8	LYS	N-CA-C	-5.33	96.62	111.00
22	BB	3875	A	P-O5'-C5'	5.32	129.42	120.90
43	BW	123	VAL	N-CA-C	5.32	125.36	111.00
48	H2	46	CYS	N-CA-C	5.32	125.37	111.00
22	JB	1856	U	OP2-P-O3'	5.32	116.90	105.20
51	B5	8	LYS	N-CA-C	-5.32	96.65	111.00
28	DH	113	VAL	N-CA-C	-5.32	96.65	111.00
1	GA	1299	A	N9-C1'-C2'	5.31	120.90	114.00
53	F7	43	LYS	CB-CA-C	-5.31	99.79	110.40
25	HE	5	LEU	N-CA-C	5.31	125.33	111.00
28	HH	113	VAL	N-CA-C	-5.30	96.69	111.00
40	HT	13	GLN	N-CA-C	-5.30	96.70	111.00
1	CA	1299	A	N9-C1'-C2'	5.28	120.87	114.00
22	DB	2623	A	OP1-P-O3'	5.28	116.81	105.20
48	F2	46	CYS	N-CA-C	5.28	125.25	111.00
48	D2	46	CYS	N-CA-C	5.28	125.25	111.00
43	DW	123	VAL	N-CA-C	5.28	125.24	111.00
25	BE	5	LEU	N-CA-C	5.27	125.23	111.00
48	J2	46	CYS	N-CA-C	5.27	125.23	111.00
48	B2	46	CYS	N-CA-C	5.27	125.23	111.00
25	JE	5	LEU	N-CA-C	5.27	125.22	111.00
1	EA	923	A	O4'-C4'-C3'	-5.25	98.75	104.00
25	DE	5	LEU	N-CA-C	5.24	125.15	111.00
1	CA	923	A	O4'-C4'-C3'	-5.24	98.76	104.00
29	JI	43	MET	N-CA-C	-5.24	96.86	111.00
31	FK	86	ALA	N-CA-C	-5.23	96.87	111.00
31	DK	86	ALA	N-CA-C	-5.22	96.91	111.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	DE	39	ALA	N-CA-C	-5.21	96.92	111.00
25	BE	39	ALA	N-CA-C	-5.21	96.93	111.00
29	FI	43	MET	N-CA-C	-5.21	96.93	111.00
29	DI	43	MET	N-CA-C	-5.21	96.94	111.00
31	HK	86	ALA	N-CA-C	-5.21	96.95	111.00
22	DB	3117	A	N9-C1'-C2'	5.20	120.77	114.00
22	FB	3117	A	N9-C1'-C2'	5.20	120.76	114.00
29	HI	43	MET	N-CA-C	-5.20	96.96	111.00
1	EA	68	G	N9-C1'-C2'	-5.20	106.28	112.00
22	FB	1861	G	N3-C4-N9	5.19	129.11	126.00
32	FL	68	ASP	N-CA-C	5.18	125.00	111.00
29	BI	43	MET	N-CA-C	-5.18	97.02	111.00
31	BK	86	ALA	N-CA-C	-5.18	97.02	111.00
25	JE	39	ALA	N-CA-C	-5.17	97.03	111.00
29	BI	47	GLU	N-CA-C	-5.17	97.04	111.00
27	FG	86	GLY	N-CA-C	5.17	126.02	113.10
29	FI	47	GLU	N-CA-C	-5.16	97.06	111.00
27	JG	86	GLY	N-CA-C	5.16	125.99	113.10
43	DW	80	HIS	N-CA-C	5.16	124.92	111.00
25	FE	39	ALA	N-CA-C	-5.15	97.10	111.00
13	GM	7	VAL	CB-CA-C	-5.15	101.62	111.40
1	CA	68	G	N9-C1'-C2'	-5.15	106.34	112.00
31	JK	86	ALA	N-CA-C	-5.15	97.10	111.00
22	HB	3117	A	N9-C1'-C2'	5.15	120.69	114.00
25	DE	42	ASP	N-CA-C	5.14	124.89	111.00
27	BG	86	GLY	N-CA-C	5.14	125.95	113.10
22	HB	1827	G	O3'-P-O5'	-5.14	94.23	104.00
43	JW	80	HIS	N-CA-C	5.14	124.88	111.00
29	HI	47	GLU	N-CA-C	-5.14	97.13	111.00
22	BB	1145	C	O3'-P-O5'	5.13	113.75	104.00
43	BW	80	HIS	N-CA-C	5.13	124.86	111.00
1	AA	561	U	OP2-P-O3'	-5.13	93.91	105.20
53	B7	45	ASP	CA-C-O	-5.13	109.32	120.10
22	BB	3117	A	N9-C1'-C2'	5.13	120.67	114.00
22	JB	1752	U	OP2-P-O3'	-5.13	93.92	105.20
24	FD	219	PRO	N-CA-C	5.13	125.43	112.10
28	FH	177	GLY	N-CA-C	5.12	125.91	113.10
25	HE	39	ALA	N-CA-C	-5.12	97.16	111.00
22	DB	2471	U	O3'-P-O5'	5.12	113.73	104.00
22	DB	2524	G	OP2-P-O3'	5.12	116.47	105.20
32	BL	68	ASP	N-CA-C	5.12	124.82	111.00
13	IM	7	VAL	CB-CA-C	-5.12	101.68	111.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
27	HG	86	GLY	N-CA-C	5.12	125.89	113.10
32	DL	68	ASP	N-CA-C	5.12	124.81	111.00
22	JB	568	G	OP1-P-O3'	-5.12	93.95	105.20
29	JI	47	GLU	N-CA-C	-5.12	97.19	111.00
25	BE	42	ASP	N-CA-C	5.11	124.81	111.00
41	BU	72	ARG	N-CA-C	5.11	124.81	111.00
43	FW	80	HIS	N-CA-C	5.11	124.81	111.00
22	HB	2524	G	OP2-P-O3'	-5.11	93.95	105.20
22	FB	1309	G	O3'-P-O5'	-5.11	94.29	104.00
53	F7	45	ASP	CA-C-O	-5.11	109.38	120.10
22	JB	3117	A	N9-C1'-C2'	5.11	120.64	114.00
22	DB	1532	A	P-O3'-C3'	-5.11	113.57	119.70
29	DI	47	GLU	N-CA-C	-5.11	97.22	111.00
32	HL	68	ASP	N-CA-C	5.11	124.78	111.00
13	CM	7	VAL	CB-CA-C	-5.10	101.71	111.40
22	HB	1145	C	OP1-P-O3'	5.10	116.42	105.20
1	IA	68	G	N9-C1'-C2'	-5.10	106.39	112.00
41	JU	72	ARG	N-CA-C	5.10	124.76	111.00
22	BB	1861	G	N3-C4-C5	-5.10	126.05	128.60
37	FQ	71	ILE	N-CA-C	5.10	124.76	111.00
24	HD	219	PRO	N-CA-C	5.10	125.35	112.10
24	BD	219	PRO	N-CA-C	5.09	125.35	112.10
13	EM	7	VAL	CB-CA-C	-5.09	101.72	111.40
22	HB	1861	G	N3-C4-C5	-5.09	126.05	128.60
27	DG	86	GLY	N-CA-C	5.09	125.83	113.10
43	HW	80	HIS	N-CA-C	5.09	124.74	111.00
53	H7	45	ASP	CA-C-O	-5.09	109.42	120.10
32	JL	68	ASP	N-CA-C	5.09	124.74	111.00
25	JE	42	ASP	N-CA-C	5.09	124.73	111.00
1	GA	266	G	C2'-C3'-O3'	5.08	121.83	113.70
28	DH	177	GLY	N-CA-C	5.08	125.80	113.10
25	FE	42	ASP	N-CA-C	5.08	124.72	111.00
22	JB	69	G	OP2-P-O3'	5.08	116.38	105.20
22	HB	1287	A	OP1-P-O3'	-5.08	94.04	105.20
22	HB	1437	A	OP1-P-O3'	5.07	116.36	105.20
25	HE	42	ASP	N-CA-C	5.07	124.70	111.00
25	BE	160	MET	N-CA-C	5.07	124.69	111.00
37	BQ	71	ILE	N-CA-C	5.07	124.69	111.00
41	HU	72	ARG	N-CA-C	5.07	124.69	111.00
53	B7	43	LYS	N-CA-C	5.07	124.68	111.00
53	H7	43	LYS	N-CA-C	5.07	124.68	111.00
53	J7	45	ASP	CA-C-O	-5.07	109.46	120.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	EA	266	G	C2'-C3'-O3'	5.06	121.80	113.70
53	F7	43	LYS	N-CA-C	5.06	124.67	111.00
37	DQ	71	ILE	N-CA-C	5.06	124.67	111.00
13	AM	7	VAL	CB-CA-C	-5.06	101.79	111.40
28	HH	177	GLY	N-CA-C	5.06	125.75	113.10
37	HQ	71	ILE	N-CA-C	5.06	124.66	111.00
41	FU	72	ARG	N-CA-C	5.06	124.65	111.00
37	JQ	71	ILE	N-CA-C	5.06	124.66	111.00
22	DB	2471	U	OP1-P-O3'	-5.04	94.11	105.20
53	J7	43	LYS	N-CA-C	5.04	124.62	111.00
41	DU	72	ARG	N-CA-C	5.04	124.61	111.00
53	D7	45	ASP	CA-C-O	-5.04	109.52	120.10
25	FE	160	MET	N-CA-C	5.04	124.61	111.00
24	JD	219	PRO	N-CA-C	5.04	125.20	112.10
28	BH	177	GLY	N-CA-C	5.04	125.69	113.10
25	JE	160	MET	N-CA-C	5.04	124.60	111.00
28	JH	177	GLY	N-CA-C	5.04	125.69	113.10
24	DD	219	PRO	N-CA-C	5.04	125.19	112.10
53	D7	43	LYS	N-CA-C	5.03	124.59	111.00
1	GA	561	U	O3'-P-O5'	5.03	113.56	104.00
1	GA	68	G	N9-C1'-C2'	-5.03	106.47	112.00
25	HE	160	MET	N-CA-C	5.03	124.57	111.00
22	FB	1145	C	OP2-P-O3'	-5.03	94.14	105.20
1	AA	68	G	N9-C1'-C2'	-5.02	106.48	112.00
25	DE	160	MET	N-CA-C	5.02	124.55	111.00
22	JB	1888	C	C3'-C2'-C1'	5.02	105.51	101.50
48	J2	25	LEU	N-CA-C	-5.01	97.47	111.00
48	D2	25	LEU	N-CA-C	-5.01	97.48	111.00
47	B1	32	HIS	N-CA-C	5.01	124.52	111.00
47	D1	32	HIS	N-CA-C	5.01	124.52	111.00
47	H1	32	HIS	N-CA-C	5.01	124.52	111.00
22	JB	539	A	OP1-P-O3'	5.00	116.20	105.20

There are no chirality outliers.

All (146) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	AA	187	G	Sidechain
1	AA	188	C	Sidechain
1	AA	190	A	Sidechain
1	AA	197	A	Sidechain
1	AA	916	G	Sidechain

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Mol	Chain	Res	Type	Group
12	AL	19	ARG	Mainchain
13	AM	83	ASP	Mainchain
22	BB	1023	U	Sidechain
22	BB	1072	U	Sidechain
22	BB	1122	A	Sidechain
22	BB	116	A	Sidechain
22	BB	1342	U	Sidechain
22	BB	1861	G	Sidechain
22	BB	2245	A	Sidechain
22	BB	2251	U	Sidechain
22	BB	227	G	Sidechain
22	BB	2439	U	Sidechain
22	BB	2564	U	Sidechain
22	BB	2591	C	Sidechain
22	BB	2738	A	Sidechain
22	BB	2745	A	Sidechain
22	BB	3117	A	Sidechain
22	BB	3875	A	Sidechain
22	BB	617	U	Sidechain
22	BB	66	U	Sidechain
22	BB	73	A	Sidechain
22	BB	74	G	Sidechain
22	BB	776	G	Sidechain
24	BD	97	TYR	Sidechain
27	BG	128	TYR	Sidechain
43	BW	88	TYR	Mainchain
1	CA	187	G	Sidechain
1	CA	188	C	Sidechain
1	CA	190	A	Sidechain
1	CA	197	A	Sidechain
1	CA	916	G	Sidechain
22	DB	1023	U	Sidechain
22	DB	1072	U	Sidechain
22	DB	1122	A	Sidechain
22	DB	116	A	Sidechain
22	DB	1342	U	Sidechain
22	DB	1861	G	Sidechain
22	DB	2245	A	Sidechain
22	DB	2251	U	Sidechain
22	DB	227	G	Sidechain
22	DB	2439	U	Sidechain
22	DB	2564	U	Sidechain

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Mol	Chain	Res	Type	Group
22	DB	2591	C	Sidechain
22	DB	2738	A	Sidechain
22	DB	2745	A	Sidechain
22	DB	3117	A	Sidechain
22	DB	3875	A	Sidechain
22	DB	617	U	Sidechain
22	DB	66	U	Sidechain
22	DB	73	A	Sidechain
22	DB	74	G	Sidechain
22	DB	776	G	Sidechain
24	DD	97	TYR	Sidechain
27	DG	128	TYR	Sidechain
1	EA	187	G	Sidechain
1	EA	188	C	Sidechain
1	EA	190	A	Sidechain
1	EA	197	A	Sidechain
1	EA	916	G	Sidechain
12	EL	22	SER	Mainchain
22	FB	1023	U	Sidechain
22	FB	1072	U	Sidechain
22	FB	1122	A	Sidechain
22	FB	116	A	Sidechain
22	FB	1342	U	Sidechain
22	FB	1861	G	Sidechain
22	FB	2245	A	Sidechain
22	FB	2251	U	Sidechain
22	FB	227	G	Sidechain
22	FB	2439	U	Sidechain
22	FB	2564	U	Sidechain
22	FB	2591	C	Sidechain
22	FB	2738	A	Sidechain
22	FB	2745	A	Sidechain
22	FB	3117	A	Sidechain
22	FB	3875	A	Sidechain
22	FB	617	U	Sidechain
22	FB	66	U	Sidechain
22	FB	73	A	Sidechain
22	FB	74	G	Sidechain
22	FB	776	G	Sidechain
24	FD	97	TYR	Sidechain
27	FG	128	TYR	Sidechain
1	GA	187	G	Sidechain

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Mol	Chain	Res	Type	Group
1	GA	188	C	Sidechain
1	GA	190	A	Sidechain
1	GA	197	A	Sidechain
1	GA	916	G	Sidechain
13	GM	89	GLY	Mainchain
22	HB	1023	U	Sidechain
22	HB	1072	U	Sidechain
22	HB	1122	A	Sidechain
22	HB	116	A	Sidechain
22	HB	1342	U	Sidechain
22	HB	1861	G	Sidechain
22	HB	2245	A	Sidechain
22	HB	2251	U	Sidechain
22	HB	227	G	Sidechain
22	HB	2439	U	Sidechain
22	HB	2564	U	Sidechain
22	HB	2591	C	Sidechain
22	HB	2738	A	Sidechain
22	HB	2745	A	Sidechain
22	HB	3117	A	Sidechain
22	HB	3875	A	Sidechain
22	HB	617	U	Sidechain
22	HB	66	U	Sidechain
22	HB	73	A	Sidechain
22	HB	74	G	Sidechain
22	HB	776	G	Sidechain
24	HD	97	TYR	Sidechain
27	HG	128	TYR	Sidechain
1	IA	187	G	Sidechain
1	IA	188	C	Sidechain
1	IA	190	A	Sidechain
1	IA	197	A	Sidechain
1	IA	266	G	Sidechain
1	IA	916	G	Sidechain
22	JB	1023	U	Sidechain
22	JB	1072	U	Sidechain
22	JB	1122	A	Sidechain
22	JB	116	A	Sidechain
22	JB	1342	U	Sidechain
22	JB	1861	G	Sidechain
22	JB	2245	A	Sidechain
22	JB	2251	U	Sidechain

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Mol	Chain	Res	Type	Group
22	JB	227	G	Sidechain
22	JB	2439	U	Sidechain
22	JB	2564	U	Sidechain
22	JB	2591	C	Sidechain
22	JB	2738	A	Sidechain
22	JB	2745	A	Sidechain
22	JB	3117	A	Sidechain
22	JB	3875	A	Sidechain
22	JB	617	U	Sidechain
22	JB	66	U	Sidechain
22	JB	73	A	Sidechain
22	JB	74	G	Sidechain
22	JB	776	G	Sidechain
24	JD	97	TYR	Sidechain
27	JG	128	TYR	Sidechain

5.2 Too-close contacts

In the following table, the Non-H and H(model) columns list the number of non-hydrogen atoms and hydrogen atoms in the chain respectively. The H(added) column lists the number of hydrogen atoms added and optimized by MolProbity. The Clashes column lists the number of clashes within the asymmetric unit, whereas Symm-Clashes lists symmetry related clashes.

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	AA	32799	0	16508	3508	4
1	CA	32799	0	16515	3468	3
1	EA	32799	0	16515	3290	2
1	GA	32799	0	16500	3234	3
1	IA	32799	0	16508	3429	10
2	AB	1901	0	1950	183	0
2	CB	1901	0	1951	212	0
2	EB	1901	0	1948	269	0
2	GB	1901	0	1951	188	0
2	IB	1901	0	1951	207	0
3	AC	1613	0	1677	235	0
3	CC	1613	0	1677	271	0
3	EC	1613	0	1674	311	0
3	GC	1613	0	1676	221	0
3	IC	1613	0	1676	319	0
4	AD	1703	0	1765	340	2
4	CD	1703	0	1765	475	24
4	ED	1703	0	1762	358	12

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
4	GD	1703	0	1767	242	1
4	ID	1703	0	1766	225	2
5	AE	1147	0	1195	303	0
5	CE	1147	0	1198	360	0
5	EE	1147	0	1205	202	0
5	GE	1147	0	1199	236	0
5	IE	1147	0	1202	169	0
6	AF	843	0	857	106	2
6	CF	843	0	857	123	12
6	EF	843	0	857	127	11
6	GF	843	0	857	99	1
6	IF	843	0	857	140	2
7	AG	1257	0	1284	306	0
7	CG	1257	0	1292	310	0
7	EG	1257	0	1296	252	1
7	GG	1257	0	1294	306	21
7	IG	1257	0	1290	237	10
8	AH	1116	0	1175	239	0
8	CH	1116	0	1169	296	0
8	EH	1116	0	1166	369	0
8	GH	1116	0	1176	198	0
8	IH	1116	0	1168	368	0
9	AI	1011	0	1036	313	0
9	CI	1011	0	1039	268	0
9	EI	1011	0	1017	278	0
9	GI	1011	0	1038	262	0
9	II	1011	0	1031	331	1
10	AJ	795	0	837	303	0
10	CJ	795	0	839	192	0
10	EJ	795	0	831	188	1
10	GJ	795	0	835	260	21
10	IJ	795	0	838	211	11
11	AK	885	0	904	112	0
11	CK	885	0	903	118	12
11	EK	885	0	904	163	1
11	GK	885	0	899	174	0
11	IK	885	0	900	239	0
12	AL	971	0	1046	198	0
12	CL	971	0	1041	188	0
12	EL	971	0	1049	248	3
12	GL	971	0	1044	190	0
12	IL	971	0	1052	198	21

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
13	AM	997	0	1052	373	0
13	CM	997	0	1047	387	0
13	EM	997	0	1061	198	0
13	GM	997	0	1051	335	0
13	IM	997	0	1057	274	0
14	AN	492	0	531	320	0
14	CN	492	0	532	190	0
14	EN	492	0	532	207	0
14	GN	492	0	533	224	0
14	IN	492	0	532	159	0
15	AO	734	0	771	244	0
15	CO	734	0	767	148	0
15	EO	734	0	769	110	0
15	GO	734	0	770	179	0
15	IO	734	0	768	153	0
16	AP	701	0	718	117	0
16	CP	701	0	719	125	0
16	EP	701	0	712	184	0
16	GP	701	0	716	107	0
16	IP	701	0	713	178	0
17	AQ	857	0	917	348	0
17	CQ	857	0	916	300	0
17	EQ	857	0	920	289	0
17	GQ	857	0	916	320	0
17	IQ	857	0	923	252	0
18	AR	597	0	667	114	0
18	CR	597	0	666	123	0
18	ER	597	0	668	96	0
18	GR	597	0	666	155	0
18	IR	597	0	668	126	0
19	AS	648	0	673	215	0
19	CS	648	0	673	177	0
19	ES	648	0	671	227	0
19	GS	648	0	673	168	0
19	IS	648	0	668	233	0
20	AT	762	0	856	194	0
20	CT	762	0	854	132	0
20	ET	762	0	848	142	0
20	GT	762	0	850	336	0
20	IT	762	0	848	154	0
21	Aa	719	0	735	0	0
21	Ca	719	0	734	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
21	Ea	719	0	737	0	0
21	Ga	719	0	738	0	0
21	Ia	719	0	735	0	0
22	BB	60635	0	30507	6789	5
22	DB	60635	0	30501	6512	4
22	FB	60635	0	30479	6851	6
22	HB	60635	0	30492	6628	2
22	JB	60635	0	30478	7310	31
23	BA	2519	0	1281	279	6
23	DA	2519	0	1279	352	3
23	FA	2519	0	1279	281	0
23	HA	2519	0	1283	137	4
23	JA	2519	0	1284	252	9
24	BD	2079	0	2144	622	0
24	DD	2079	0	2144	593	0
24	FD	2079	0	2152	466	0
24	HD	2079	0	2149	544	0
24	JD	2079	0	2146	636	0
25	BE	1540	0	1592	596	0
25	DE	1540	0	1579	737	0
25	FE	1540	0	1582	628	0
25	HE	1540	0	1597	338	0
25	JE	1540	0	1600	367	0
26	BF	1507	0	1521	251	0
26	DF	1507	0	1520	196	0
26	FF	1507	0	1523	253	0
26	HF	1507	0	1525	180	0
26	JF	1507	0	1518	322	0
27	BG	1410	0	1489	221	0
27	DG	1410	0	1485	267	0
27	FG	1410	0	1488	320	0
27	HG	1410	0	1487	187	0
27	JG	1410	0	1486	229	0
28	BH	1316	0	1362	246	0
28	DH	1316	0	1360	253	0
28	FH	1316	0	1361	210	0
28	HH	1316	0	1361	164	0
28	JH	1316	0	1361	212	0
29	BI	401	0	426	36	0
29	DI	401	0	424	78	0
29	FI	401	0	425	99	0
29	HI	401	0	426	48	1

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
29	JI	401	0	426	102	0
30	BJ	1039	0	1083	201	0
30	DJ	1039	0	1083	105	0
30	FJ	1039	0	1083	103	0
30	HJ	1039	0	1083	151	0
30	JJ	1039	0	1080	160	0
31	BK	1122	0	1141	432	0
31	DK	1122	0	1132	390	0
31	FK	1122	0	1146	312	0
31	HK	1122	0	1143	329	0
31	JK	1122	0	1153	200	0
32	BL	981	0	1020	247	0
32	DL	981	0	1020	313	0
32	FL	981	0	1017	246	0
32	HL	981	0	1018	276	0
32	JL	981	0	1019	179	0
33	BM	1068	0	1098	308	0
33	DM	1068	0	1099	305	0
33	FM	1068	0	1100	290	0
33	HM	1068	0	1103	358	0
33	JM	1068	0	1091	414	0
34	BN	986	0	1010	489	0
34	DN	986	0	1006	542	0
34	FN	986	0	1006	381	0
34	HN	986	0	1011	371	0
34	JN	986	0	1012	300	0
35	BO	886	0	939	236	0
35	DO	886	0	939	252	0
35	FO	886	0	934	286	0
35	HO	886	0	936	259	0
35	JO	886	0	936	247	0
36	BP	834	0	874	71	0
36	DP	834	0	874	147	0
36	FP	834	0	863	177	0
36	HP	834	0	872	114	0
36	JP	834	0	868	170	0
37	BQ	1008	0	1048	323	0
37	DQ	1008	0	1050	269	0
37	FQ	1008	0	1048	212	0
37	HQ	1008	0	1050	276	0
37	JQ	1008	0	1045	336	0
38	BR	978	0	1018	183	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
38	DR	978	0	1015	377	0
38	FR	978	0	1011	513	0
38	HR	978	0	1009	306	0
38	JR	978	0	999	354	0
39	BS	787	0	803	206	0
39	DS	787	0	804	257	0
39	FS	787	0	800	291	0
39	HS	787	0	804	152	0
39	JS	787	0	798	247	0
40	BT	1039	0	1111	284	0
40	DT	1039	0	1105	328	0
40	FT	1039	0	1107	323	0
40	HT	1039	0	1107	453	0
40	JT	1039	0	1110	312	0
41	BU	727	0	752	108	0
41	DU	727	0	749	117	0
41	FU	727	0	736	211	0
41	HU	727	0	751	157	0
41	JU	727	0	747	183	0
42	BV	852	0	909	121	0
42	DV	852	0	911	104	0
42	FV	852	0	908	201	0
42	HV	852	0	908	132	0
42	JV	852	0	905	292	0
43	BW	1328	0	1343	486	0
43	DW	1328	0	1338	594	0
43	FW	1328	0	1341	325	0
43	HW	1328	0	1350	306	0
43	JW	1328	0	1342	254	0
44	BX	642	0	664	280	0
44	DX	642	0	665	210	0
44	FX	642	0	658	257	0
44	HX	642	0	663	295	0
44	JX	642	0	661	246	0
45	BY	526	0	546	72	0
45	DY	526	0	543	49	0
45	FY	526	0	538	102	0
45	HY	526	0	535	211	0
45	JY	526	0	535	196	0
46	BZ	424	0	468	76	0
46	DZ	424	0	468	109	0
46	FZ	424	0	467	204	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
46	HZ	424	0	466	82	0
46	JZ	424	0	468	135	0
47	B1	604	0	594	201	0
47	D1	604	0	593	193	0
47	F1	604	0	592	177	0
47	H1	604	0	582	203	0
47	J1	604	0	592	232	0
48	B2	458	0	457	218	0
48	D2	458	0	461	188	0
48	F2	458	0	459	178	0
48	H2	458	0	456	286	0
48	J2	458	0	460	221	0
49	B3	432	0	456	53	0
49	D3	432	0	456	87	0
49	F3	432	0	453	181	0
49	H3	432	0	455	74	0
49	J3	432	0	452	154	0
50	B4	384	0	406	139	0
50	D4	384	0	403	166	0
50	F4	384	0	408	198	0
50	H4	384	0	409	115	0
50	J4	384	0	401	167	0
51	B5	496	0	547	162	0
51	D5	496	0	542	191	0
51	F5	496	0	542	251	0
51	H5	496	0	545	230	0
51	J5	496	0	536	298	0
52	B6	285	0	305	210	0
52	D6	285	0	313	119	0
52	F6	285	0	309	72	0
52	H6	285	0	310	88	0
52	J6	285	0	311	114	0
53	B7	1720	0	1842	221	6
53	D7	1720	0	1842	167	4
53	F7	1720	0	1847	223	9
53	H7	1720	0	1843	360	3
53	J7	1720	0	1826	472	0
All	All	717805	0	489246	75816	144

The all-atom clashscore is defined as the number of clashes found per 1000 atoms (including hydrogen atoms). The all-atom clashscore for this structure is 63.

All (75816) close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:DN:66:TYR:CE2	43:DW:118:HIS:CE1	1.77	1.72
22:HB:2733:A:C2	52:H6:15:LYS:HE2	1.22	1.72
22:BB:1437:A:H2'	22:BB:1438:G:C8	1.25	1.70
22:BB:1805:G:C2	24:BD:52:ARG:HD3	1.26	1.69
34:BN:66:TYR:CD1	43:BW:115:ILE:HG21	1.25	1.69
1:CA:1396:A:C2	5:CE:19:MET:HE2	1.18	1.69
10:AJ:65:LEU:HD12	14:AN:56:VAL:CG2	1.21	1.68
22:HB:2862:G:C2	48:H2:30:LEU:HB3	1.19	1.68
40:FT:60:ILE:HG22	48:F2:25:LEU:CD1	1.20	1.67
10:AJ:11:PHE:CE1	14:AN:54:PRO:HB2	1.18	1.67
25:DE:151:TYR:HD2	31:DK:106:TYR:CD1	1.02	1.67
1:EA:880:C:P	12:EL:7:ILE:HB	1.32	1.67
22:HB:494:A:C4	42:HV:56:LYS:HG3	1.25	1.67
22:DB:1239:A:P	39:DS:73:LYS:HG2	1.34	1.66
22:DB:2751:C:C5'	25:DE:202:ALA:HB1	1.19	1.66
40:FT:60:ILE:CB	48:F2:25:LEU:HD21	1.23	1.66
1:IA:753:A:C4	8:IH:1:MET:CE	1.75	1.66
3:CC:23:TYR:CE2	10:CJ:9:ARG:HG3	1.26	1.65
7:GG:153:HIS:CE1	11:GK:59:TYR:CD1	1.85	1.65
1:GA:932:C:C5'	7:GG:4:ARG:HG3	1.23	1.65
22:HB:2629:U:C5'	32:HL:29:ILE:HD11	1.18	1.65
22:BB:1141:U:C5'	31:BK:108:GLY:H	1.08	1.64
41:HU:92:ALA:HB1	45:HY:27:GLU:CG	1.22	1.64
22:DB:2738:A:H1'	28:DH:64:LEU:CD1	1.22	1.64
1:GA:276:G:C4'	17:GQ:43:LEU:HD11	1.25	1.64
22:HB:489:A:H4'	42:HV:5:SER:CA	1.22	1.64
13:GM:86:CYS:HA	19:GS:74:PHE:CE2	1.19	1.64
1:CA:436:C:H5'	4:CD:156:GLU:CB	1.21	1.64
12:IL:11:VAL:HB	17:IQ:36:ILE:CG2	1.18	1.64
22:DB:1325:U:C6	41:DU:61:LYS:HE2	1.33	1.64
1:CA:1298:C:C5	7:CG:114:ARG:HD3	1.17	1.64
22:JB:16:G:C4'	48:J2:17:ASP:HB2	1.25	1.64
32:BL:86:GLY:HA3	37:BQ:84:ALA:CB	1.27	1.64
22:BB:1143:A:C1'	31:BK:111:LYS:HD3	1.16	1.63
22:DB:596:C:C4	33:DM:30:ALA:HB2	1.32	1.63
1:CA:827:U:H5''	8:CH:21:LYS:CD	1.19	1.63
3:GC:23:TYR:CD2	10:GJ:94:VAL:HA	1.32	1.63
7:GG:153:HIS:CE1	11:GK:59:TYR:HD1	0.94	1.63
22:HB:886:A:C2	43:HW:167:THR:HG21	1.23	1.63
25:DE:151:TYR:CD2	31:DK:106:TYR:CD1	1.84	1.63
1:CA:620:C:H4'	4:CD:138:TYR:CE1	1.28	1.62
33:DM:58:ALA:HB1	51:D5:9:MET:SD	1.10	1.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:FN:27:TYR:CD1	43:FW:73:LYS:HA	1.13	1.62
1:EA:958:A:C2	19:ES:55:LYS:HB3	1.27	1.62
1:AA:666:G:H1'	15:AO:51:HIS:CG	1.27	1.62
22:FB:1469:U:C4	35:FO:60:LEU:HD12	1.28	1.62
22:HB:2062:U:H4'	47:H1:32:HIS:CE1	1.16	1.62
22:DB:1292:A:C4'	35:DO:33:ARG:HD2	1.24	1.62
22:FB:2708:U:C4'	25:FE:21:ILE:CD1	1.76	1.62
1:GA:276:G:H4'	17:GQ:43:LEU:CD1	1.15	1.62
22:JB:488:A:C2	42:JV:74:LEU:HD21	1.18	1.62
22:HB:504:G:H4'	40:HT:25:PHE:CD2	1.29	1.62
1:AA:1398:A:C4	5:AE:21:ALA:HB1	1.14	1.62
22:HB:1378:A:H5'	47:H1:11:PRO:CB	1.24	1.62
1:AA:694:A:C5'	11:AK:53:SER:HB2	1.19	1.62
22:JB:2003:A:C3'	38:JR:25:TRP:HH2	0.97	1.62
22:DB:2628:C:H4'	32:DL:29:ILE:CD1	1.15	1.62
22:BB:696:U:H5''	50:B4:16:HIS:CE1	1.18	1.61
22:BB:1325:U:C6	41:BU:61:LYS:CE	1.75	1.61
22:BB:2334:C:C4'	44:BX:21:LEU:HG	1.27	1.61
13:CM:87:TYR:HA	13:CM:90:LEU:CB	1.24	1.61
22:FB:2661:G:H1'	25:FE:11:MET:SD	1.30	1.61
22:JB:2210:C:H5'	47:J1:39:VAL:CG2	1.23	1.61
22:DB:2738:A:C1'	28:DH:64:LEU:HD13	1.23	1.61
1:IA:824:C:H1'	8:IH:3:THR:CG2	1.22	1.61
22:HB:760:U:H5	48:H2:3:LYS:CD	1.06	1.61
41:HU:4:TYR:CE1	45:HY:18:ILE:HG21	1.10	1.61
22:JB:597:U:H1'	26:JF:84:PHE:CE2	1.35	1.61
1:AA:275:G:H1'	17:AQ:15:MET:CE	1.18	1.61
22:DB:2039:G:H1'	48:D2:5:PRO:CG	1.22	1.61
22:HB:760:U:C6	48:H2:3:LYS:NZ	1.68	1.61
1:IA:675:A:C5	11:IK:116:HIS:HD2	1.15	1.61
25:DE:151:TYR:CA	31:DK:106:TYR:CE1	1.84	1.61
22:FB:2372:A:C1'	33:FM:59:ARG:HB3	1.26	1.61
22:JB:647:G:C6	33:JM:109:LEU:HD13	1.33	1.61
1:EA:1117:G:H1'	9:EI:104:ARG:CZ	1.21	1.61
1:GA:323:U:C2'	20:GT:19:SER:CB	1.74	1.61
25:HE:151:TYR:HA	31:HK:106:TYR:CZ	1.29	1.61
22:JB:3124:G:H5'	53:J7:62:LYS:CD	1.30	1.61
22:BB:1091:C:H4'	30:BJ:125:ASN:CB	1.27	1.61
22:FB:548:G:H1'	31:FK:33:ILE:CG2	1.26	1.61
1:CA:407:G:C4'	4:CD:116:GLN:HB2	1.26	1.60
22:JB:2810:A:H3'	37:JQ:6:LYS:CG	1.13	1.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:BB:2646:C:H1'	28:BH:111:HIS:CG	1.27	1.60
22:BB:2646:C:C2'	28:BH:111:HIS:CE1	1.84	1.60
1:IA:597:G:H22	8:IH:131:GLY:CA	1.09	1.60
22:FB:2773:G:C4	22:FB:2780:A:N3	1.68	1.60
40:FT:60:ILE:CG2	48:F2:25:LEU:HD11	1.14	1.60
34:HN:66:TYR:CD1	43:HW:115:ILE:CG1	1.79	1.60
43:JW:51:LEU:CD1	43:JW:128:ARG:HD2	1.26	1.60
34:BN:63:GLY:CA	43:BW:112:LEU:HD23	1.22	1.60
22:BB:887:G:C8	43:BW:167:THR:HG22	1.14	1.60
22:FB:1017:C:H1'	31:FK:56:THR:CG2	1.15	1.60
12:IL:11:VAL:CG2	17:IQ:34:LYS:CD	1.75	1.60
7:EG:16:LEU:CD2	9:EI:41:VAL:HG12	1.17	1.60
22:HB:2029:G:H5''	48:H2:19:ARG:CD	1.29	1.60
12:IL:11:VAL:CG1	17:IQ:36:ILE:HG12	1.12	1.60
1:CA:1396:A:H2	5:CE:19:MET:CE	1.02	1.60
1:EA:1100:C:C3'	2:EB:98:LEU:HD23	1.20	1.60
22:HB:71:A:C5	45:HY:58:ALA:HB3	1.34	1.60
1:AA:740:U:C1'	15:AO:42:HIS:CE1	1.74	1.60
22:DB:2039:G:C1'	48:D2:5:PRO:HD3	1.23	1.60
22:DB:2661:G:C8	25:DE:11:MET:HA	1.35	1.60
22:BB:2723:C:C1'	28:BH:150:LYS:HD3	1.31	1.59
1:CA:520:A:C8	12:CL:51:ALA:HB1	1.37	1.59
1:EA:926:G:N7	1:EA:1502:A:C2	1.70	1.59
10:AJ:47:PHE:CE1	14:AN:56:VAL:CG1	1.80	1.59
22:BB:1416:A:C5'	22:BB:1485:U:H1'	1.12	1.59
1:CA:529:G:C6	12:CL:48:PRO:HG2	1.10	1.59
22:DB:865:A:C1'	46:DZ:39:ALA:HA	1.13	1.59
7:EG:13:GLN:CB	9:EI:42:ARG:HH12	1.14	1.59
1:GA:1248:A:H1'	9:GI:70:LYS:CE	1.17	1.59
1:IA:1483:A:C2	22:JB:1943:A:H1'	1.08	1.59
1:EA:1056:U:P	3:EC:162:GLN:HA	1.28	1.59
22:FB:125:A:N6	50:F4:18:PHE:CE1	1.67	1.59
22:FB:2040:A:H1'	48:F2:3:LYS:CB	1.31	1.59
1:IA:673:G:H5''	6:IF:87:ARG:CZ	1.32	1.59
1:CA:1231:G:C8	13:CM:126:LYS:HE2	1.16	1.59
22:DB:1861:G:C6	53:D7:199:ASN:HB2	1.13	1.59
22:DB:546:A:H4'	38:DR:57:PHE:CZ	1.10	1.59
22:HB:1789:U:H5'	24:HD:257:LEU:CD1	1.24	1.59
22:HB:1805:G:C2	24:HD:51:SER:HB3	1.36	1.59
22:BB:2008:C:H1'	31:BK:103:TYR:CE2	1.31	1.59
22:HB:1261:G:C8	38:HR:2:PRO:HB2	1.34	1.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:HB:2814:G:H4'	35:HO:45:ARG:CG	1.28	1.59
34:BN:36:ILE:HG12	43:BW:74:ARG:CZ	1.32	1.59
1:EA:262:A:C5'	20:ET:74:LYS:HD3	1.11	1.59
1:GA:927:G:H1'	1:GA:1531:A:C2	1.26	1.59
1:IA:590:C:C5'	8:IH:30:ARG:HE	1.11	1.59
22:DB:2494:C:H4'	31:DK:108:GLY:CA	1.21	1.59
1:EA:583:A:C4'	17:EQ:90:ILE:HG21	1.22	1.59
34:HN:66:TYR:CD1	43:HW:115:ILE:CB	1.84	1.59
22:JB:477:A:H5''	50:J4:16:HIS:CE1	1.31	1.59
22:FB:2315:A:C4	44:FX:70:ILE:HD13	1.30	1.59
1:IA:1130:A:H4'	9:II:18:PHE:CE1	1.35	1.59
22:BB:2444:C:H4'	52:B6:3:VAL:CG2	1.21	1.59
1:CA:1345:U:H5''	9:CI:120:ARG:CZ	1.31	1.59
22:FB:2315:A:C5	44:FX:70:ILE:HD13	1.28	1.59
22:HB:2365:U:H1'	44:HX:37:LEU:CD2	1.25	1.59
10:AJ:11:PHE:HE1	14:AN:54:PRO:CB	1.15	1.59
22:BB:574:C:P	39:BS:79:GLN:HA	1.41	1.59
22:DB:2658:A:H2'	25:DE:187:ALA:CB	1.33	1.59
22:HB:2789:U:C6	48:H2:30:LEU:HD13	1.37	1.59
1:AA:17:U:H5'	5:AE:16:THR:CB	1.29	1.58
22:DB:413:G:C6	47:D1:63:PHE:CE1	1.85	1.58
22:FB:1673:C:C5'	25:FE:136:ARG:HG2	1.26	1.58
22:BB:597:U:H4'	33:BM:28:LYS:CE	1.32	1.58
1:EA:1273:G:C2	1:IA:1264:C:H5''	1.36	1.58
1:EA:537:G:H5''	12:EL:113:ARG:CZ	1.26	1.58
1:IA:1147:C:C1'	9:II:16:ARG:HH21	1.12	1.58
22:JB:2003:A:C3'	38:JR:25:TRP:CH2	1.85	1.58
22:DB:176:A:C8	47:D1:30:GLU:HB3	1.06	1.58
34:DN:38:MET:CA	43:DW:74:ARG:HG3	1.13	1.58
22:FB:348:U:H5''	42:FV:13:LYS:CB	1.21	1.58
22:FB:2394:G:C4'	33:FM:64:GLY:HA2	1.16	1.58
22:HB:2861:A:C5	48:H2:31:THR:HG21	1.11	1.58
32:HL:113:PRO:CD	37:HQ:75:GLU:HB3	1.19	1.58
25:DE:19:ARG:CD	37:DQ:65:SER:HA	1.26	1.58
22:JB:1405:A:C5	41:JU:15:LYS:HE3	1.32	1.58
1:AA:1131:G:C5'	9:AI:2:GLU:HB2	1.23	1.58
1:CA:932:C:C5'	7:CG:3:ARG:HB2	1.26	1.58
34:DN:98:VAL:CG2	43:DW:73:LYS:HE2	1.27	1.58
22:FB:2263:C:H5'	49:F3:8:ILE:CD1	1.34	1.58
22:FB:2372:A:H1'	33:FM:59:ARG:CB	1.24	1.58
22:DB:2728:A:H4'	28:DH:67:LEU:CD1	1.24	1.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:HB:760:U:C5	48:H2:3:LYS:NZ	1.69	1.58
22:BB:597:U:C5'	33:BM:28:LYS:HD2	1.16	1.58
22:HB:699:G:C4	50:H4:5:TYR:HA	1.33	1.58
22:HB:2733:A:C2	52:H6:15:LYS:CE	1.81	1.58
22:BB:1044:U:C5	52:B6:15:LYS:HA	1.33	1.57
22:DB:1017:C:H1'	31:DK:56:THR:CG2	1.24	1.57
23:FA:116:C:C1'	36:FP:50:THR:HG22	1.23	1.57
22:HB:2503:G:H1'	22:HB:2744:A:C2	1.38	1.57
22:JB:2003:A:C4'	38:JR:25:TRP:CZ3	1.83	1.57
10:AJ:65:LEU:CD1	14:AN:56:VAL:CG2	1.74	1.57
22:BB:177:U:H5'	47:B1:31:ILE:CG1	1.29	1.57
1:EA:1104:G:H1'	2:EB:111:ARG:CD	1.11	1.57
22:FB:3093:C:H5''	29:FI:21:LYS:CA	1.16	1.57
22:FB:114:C:C5'	50:F4:19:ARG:HH12	0.93	1.57
1:AA:254:G:C2	17:AQ:16:GLN:HB3	1.07	1.57
34:HN:66:TYR:CD1	43:HW:115:ILE:HG13	1.27	1.57
1:AA:16:A:C4'	5:AE:16:THR:HA	1.34	1.57
22:DB:869:C:C2'	44:DX:24:LYS:HE2	1.32	1.57
1:GA:1248:A:C1'	9:GI:70:LYS:HE3	1.27	1.57
1:GA:668:G:C1'	15:GO:45:VAL:HG11	1.32	1.57
22:JB:3124:G:C5'	53:J7:62:LYS:CD	1.76	1.57
22:JB:1996:A:C5'	40:JT:117:ILE:HA	1.23	1.57
1:AA:1350:A:P	9:AI:121:ARG:HG3	1.44	1.57
22:HB:95:G:C8	45:HY:41:HIS:CG	1.87	1.57
32:BL:86:GLY:CA	37:BQ:84:ALA:HB2	1.16	1.57
1:CA:332:G:H5''	20:CT:10:LEU:CB	1.24	1.57
22:DB:1043:A:C4'	52:D6:23:VAL:HG23	1.10	1.57
22:DB:868:U:C1'	44:DX:25:LYS:HD2	1.27	1.57
22:HB:1998:A:C4	48:H2:6:VAL:HG12	1.32	1.57
22:DB:742:G:C8	24:DD:208:LYS:HE2	1.07	1.57
22:FB:1008:G:H5'	38:FR:92:ARG:CG	1.35	1.57
22:JB:576:A:C5'	33:JM:40:ARG:HH12	1.12	1.57
22:DB:865:A:C4	46:DZ:39:ALA:HB1	1.34	1.56
22:HB:1234:C:H5''	39:HS:68:LYS:CD	1.31	1.56
1:IA:538:G:C8	12:IL:115:LYS:CE	1.85	1.56
22:BB:1805:G:C2	24:BD:52:ARG:CD	1.82	1.56
22:DB:868:U:H1'	44:DX:25:LYS:CD	1.10	1.56
22:FB:1044:U:H5	52:F6:16:VAL:CG2	1.00	1.56
25:FE:19:ARG:CZ	37:FQ:65:SER:HA	1.33	1.56
12:IL:11:VAL:CG2	17:IQ:34:LYS:HD3	1.26	1.56
22:BB:2218:G:C5'	24:BD:230:ASP:HA	1.16	1.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:FR:44:THR:CA	39:FS:76:SER:HA	1.24	1.56
22:HB:2029:G:C5'	48:H2:19:ARG:HD2	1.27	1.56
1:AA:439:A:C4'	4:AD:122:ARG:HH22	1.15	1.56
22:FB:231:G:C6	51:F5:4:MET:CG	1.83	1.56
22:FB:1670:G:C6	35:FO:11:ASN:HA	1.40	1.56
22:FB:2240:C:P	44:FX:14:ARG:HD2	1.41	1.56
32:HL:113:PRO:HD3	37:HQ:75:GLU:CB	1.12	1.56
22:DB:865:A:C1'	46:DZ:39:ALA:CA	1.79	1.56
22:HB:2814:G:C4'	35:HO:45:ARG:HG2	1.17	1.56
22:JB:673:G:P	26:JF:93:TYR:HA	1.44	1.56
1:AA:1131:G:H5'	9:AI:2:GLU:CB	1.26	1.56
22:FB:2614:A:C2	25:FE:79:ARG:NH1	1.69	1.56
22:FB:1405:A:C5	41:FU:15:LYS:HE3	1.36	1.56
38:DR:43:ALA:CA	39:DS:75:LYS:HD3	1.35	1.56
22:FB:1017:C:C1'	31:FK:56:THR:HG22	1.26	1.56
22:HB:2733:A:H2	52:H6:15:LYS:CE	1.08	1.56
1:IA:538:G:H8	12:IL:115:LYS:CE	1.02	1.56
10:AJ:49:VAL:CG1	14:AN:45:ARG:CG	1.75	1.55
22:BB:1789:U:C5'	24:BD:257:LEU:HD13	1.24	1.55
22:BB:1325:U:C5	41:BU:61:LYS:HE2	1.39	1.55
38:FR:91:ASN:HD21	39:FS:10:LYS:CG	1.18	1.55
22:JB:2820:C:H5'	37:JQ:62:SER:CB	1.22	1.55
1:AA:932:C:H3'	7:AG:3:ARG:CD	1.33	1.55
22:DB:596:C:C5	33:DM:30:ALA:CB	1.83	1.55
22:DB:2490:U:H5''	25:DE:122:PHE:CE1	1.39	1.55
22:BB:1861:G:C6	53:B7:199:ASN:HB2	1.38	1.55
22:BB:827:C:H5'	39:BS:84:THR:CA	1.36	1.55
22:DB:2615:U:H4'	25:DE:79:ARG:CG	1.25	1.55
10:GJ:51:ARG:HA	14:GN:45:ARG:CZ	1.32	1.55
10:GJ:65:LEU:HB2	14:GN:56:VAL:CG1	1.35	1.55
22:DB:2628:C:C4'	32:DL:29:ILE:HD11	1.11	1.55
38:DR:43:ALA:HA	39:DS:75:LYS:CD	1.32	1.55
22:BB:886:A:C2'	43:BW:167:THR:HB	1.31	1.55
22:BB:887:G:C1'	43:BW:167:THR:HA	1.30	1.55
22:BB:2334:C:C1'	44:BX:32:LYS:CE	1.78	1.55
22:DB:2658:A:C2'	25:DE:187:ALA:HB1	1.10	1.55
23:DA:78:A:C2	43:DW:22:VAL:HG21	1.38	1.55
10:EJ:63:PHE:CA	14:EN:59:ALA:HB2	1.32	1.55
22:HB:221:A:C5'	33:HM:68:VAL:HA	1.32	1.55
1:CA:932:C:C5	7:CG:3:ARG:CZ	1.89	1.55
22:FB:3877:A:O3'	22:FB:1861:G:P	1.16	1.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:HB:2:G:N2	22:HB:2876:C:C2	1.72	1.55
22:HB:1795:C:C4'	24:HD:250:TRP:HZ2	1.19	1.55
22:JB:1743:C:N4	37:JQ:125:MET:CA	1.68	1.55
22:FB:2040:A:C1'	48:F2:3:LYS:HB3	1.31	1.55
22:DB:2728:A:C4'	28:DH:67:LEU:HD13	1.30	1.55
1:EA:613:C:C5'	4:ED:86:LYS:HE3	1.16	1.55
22:FB:2715:C:N3	22:FB:2749:A:C2	1.74	1.55
25:FE:19:ARG:HH22	37:FQ:65:SER:CB	0.95	1.55
22:FB:1240:G:P	38:FR:16:LYS:HG2	1.43	1.55
22:HB:1861:G:C1'	53:H7:199:ASN:HB2	1.12	1.55
22:DB:2728:A:C1'	28:DH:67:LEU:HD22	1.33	1.55
22:HB:2329:C:P	51:H5:42:ARG:HD3	1.43	1.55
22:BB:2766:U:H5''	25:BE:64:GLN:CB	1.18	1.55
22:BB:2474:G:C4'	34:BN:83:ARG:HG3	1.37	1.55
22:DB:2490:U:C5'	25:DE:122:PHE:CE1	1.86	1.55
25:DE:26:VAL:HG21	37:DQ:3:THR:CG2	1.12	1.55
22:DB:545:C:C1'	38:DR:53:LYS:HE3	1.37	1.55
22:HB:490:A:C5'	42:HV:3:ARG:HB3	1.10	1.55
1:AA:1092:A:C5'	7:AG:4:ARG:HD3	1.13	1.54
32:DL:87:SER:CB	37:DQ:83:PHE:HA	1.31	1.54
22:FB:1008:G:C5'	38:FR:92:ARG:HG3	1.12	1.54
1:CA:1117:G:H4'	9:CI:9:ARG:CZ	1.33	1.54
22:DB:589:C:H5''	38:DR:33:ARG:CG	1.30	1.54
22:DB:2035:G:C5'	25:DE:142:GLY:HA3	1.07	1.54
22:DB:308:C:C5'	42:DV:93:ARG:HE	1.12	1.54
1:AA:1347:G:C8	9:AI:107:ARG:HB3	1.39	1.54
22:BB:1338:G:H21	40:BT:107:ILE:CG2	1.19	1.54
22:BB:2463:G:H21	34:BN:120:ARG:CG	1.17	1.54
1:CA:332:G:C5'	20:CT:10:LEU:HB2	1.35	1.54
22:JB:869:C:C5'	44:JX:57:HIS:CB	1.82	1.54
1:AA:275:G:C1'	17:AQ:15:MET:HE2	1.35	1.54
22:DB:1290:A:C1'	35:DO:24:GLN:HA	1.34	1.54
22:FB:1240:G:H5''	38:FR:16:LYS:CD	1.38	1.54
22:DB:2398:U:C5	51:D5:31:HIS:HA	1.39	1.54
22:HB:2558:C:C4'	25:HE:132:LYS:HG2	1.20	1.54
22:BB:2766:U:C5'	25:BE:64:GLN:HB2	1.35	1.54
7:EG:16:LEU:HD23	9:EI:41:VAL:CG1	1.13	1.54
25:HE:54:LYS:CE	37:HQ:6:LYS:HE3	1.34	1.54
22:DB:2760:G:H4'	31:DK:149:LYS:CD	1.17	1.54
22:HB:2861:A:C5	48:H2:31:THR:CG2	1.89	1.54
1:AA:668:G:C2'	15:AO:45:VAL:HG12	1.14	1.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:DB:2615:U:H4'	25:DE:79:ARG:CD	1.13	1.54
22:DB:1292:A:H5''	35:DO:33:ARG:CD	1.14	1.54
22:JB:2692:A:C2'	35:JO:14:SER:HB2	1.33	1.54
1:AA:668:G:C2'	15:AO:45:VAL:CG1	1.82	1.54
22:BB:1143:A:C4'	31:BK:111:LYS:CD	1.77	1.54
43:BW:49:THR:CB	43:BW:132:GLN:NE2	1.69	1.54
13:CM:87:TYR:CA	13:CM:90:LEU:HB2	1.28	1.54
1:EA:1061:G:C4'	10:EJ:56:HIS:CD2	1.89	1.54
1:EA:262:A:C5'	20:ET:74:LYS:CD	1.83	1.54
23:JA:10:U:C4'	36:JP:28:ARG:NH1	1.68	1.54
22:BB:511:A:C2	40:BT:12:LYS:HB3	1.40	1.53
33:JM:62:LYS:CB	51:J5:30:ARG:HE	1.19	1.53
22:JB:626:A:C2	26:JF:172:VAL:CG1	1.88	1.53
22:BB:1416:A:C5'	22:BB:1485:U:C1'	1.82	1.53
22:BB:2444:C:C4'	52:B6:3:VAL:HG22	1.35	1.53
22:FB:2394:G:H4'	33:FM:64:GLY:CA	1.24	1.53
34:FN:99:LYS:CB	43:FW:74:ARG:HG3	1.14	1.53
32:HL:87:SER:HB2	37:HQ:83:PHE:CA	1.08	1.53
22:JB:1996:A:H5'	40:JT:117:ILE:CA	1.34	1.53
22:DB:2025:A:H62	31:DK:142:ARG:NH1	1.04	1.53
1:IA:740:U:H5'	15:IO:35:ARG:CZ	1.32	1.53
22:DB:2767:C:C4'	25:DE:60:ASN:HB2	1.30	1.53
22:FB:1636:G:C5'	50:F4:1:MET:HE2	1.33	1.53
22:JB:348:U:C4'	42:JV:13:LYS:HD3	1.12	1.53
22:BB:596:C:H3'	33:BM:29:THR:CB	1.37	1.53
1:EA:613:C:H5'	4:ED:86:LYS:CE	1.33	1.53
13:GM:82:MET:SD	13:GM:92:HIS:HB3	1.45	1.53
22:HB:1795:C:H4'	24:HD:250:TRP:CZ2	1.02	1.53
41:HU:92:ALA:CB	45:HY:27:GLU:HG3	1.14	1.53
43:JW:48:THR:HG22	43:JW:130:ILE:CD1	1.30	1.53
22:DB:318:G:C5'	40:DT:12:LYS:NZ	1.71	1.53
22:DB:1325:U:C6	41:DU:61:LYS:CE	1.86	1.53
34:FN:106:GLU:CB	43:FW:115:ILE:HD12	1.33	1.53
22:FB:2315:A:C4	44:FX:70:ILE:CD1	1.88	1.53
1:AA:740:U:H1'	15:AO:42:HIS:CE1	1.02	1.53
1:AA:60:A:C8	20:AT:11:SER:HB2	1.37	1.53
34:FN:27:TYR:CE1	43:FW:73:LYS:HA	1.38	1.53
22:FB:93:A:C3'	45:FY:37:LEU:HD21	1.31	1.53
13:GM:85:GLY:C	19:GS:74:PHE:HD2	1.11	1.53
1:IA:814:A:C4'	1:IA:1511:G:H5'	1.38	1.53
1:IA:675:A:C5	11:IK:116:HIS:CD2	1.92	1.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:BB:1416:A:H4'	22:BB:1485:U:C4'	1.33	1.53
22:DB:2289:A:N3	27:DG:77:PHE:CZ	1.77	1.53
22:BB:686:C:H4'	26:BF:74:VAL:CG1	1.32	1.52
22:FB:1469:U:C4	35:FO:60:LEU:CD1	1.90	1.52
22:JB:2570:C:C5	24:JD:237:GLU:HB3	1.44	1.52
22:JB:2823:G:C5'	37:JQ:103:LYS:HG3	1.35	1.52
1:CA:1230:C:C2	13:CM:125:ARG:CD	1.91	1.52
32:DL:87:SER:CB	37:DQ:83:PHE:CA	1.84	1.52
38:DR:47:TYR:CD1	39:DS:74:TYR:HB3	1.42	1.52
1:IA:1483:A:H2	22:JB:1943:A:C1'	1.16	1.52
22:HB:759:C:C3'	48:H2:2:ALA:HB3	1.06	1.52
22:HB:2826:C:H5'	35:HO:61:HIS:CE1	1.43	1.52
22:JB:2264:C:C5'	49:J3:30:ASN:ND2	1.72	1.52
22:BB:494:A:C2	42:BV:56:LYS:HG3	1.42	1.52
22:DB:1292:A:C5'	35:DO:33:ARG:HD2	1.34	1.52
1:IA:1225:A:C6	13:IM:104:ARG:NH2	1.77	1.52
23:BA:107:C:C5'	43:BW:89:GLY:N	1.67	1.52
1:CA:932:C:C6	7:CG:3:ARG:CZ	1.92	1.52
22:FB:2040:A:C2	48:F2:2:ALA:N	1.77	1.52
22:HB:1261:G:H8	38:HR:2:PRO:CB	1.16	1.52
53:J7:199:ASN:C	53:J7:199:ASN:CA	1.77	1.52
22:DB:545:C:H1'	38:DR:53:LYS:CE	1.06	1.52
53:F7:199:ASN:C	53:F7:199:ASN:CA	1.77	1.52
22:JB:2652:G:H4'	32:JL:46:HIS:CE1	1.45	1.52
22:DB:1673:C:C5'	25:DE:136:ARG:HG2	1.36	1.52
22:FB:1265:G:H4'	38:FR:32:TYR:CE1	1.44	1.52
22:FB:1636:G:H5'	50:F4:1:MET:CE	1.10	1.52
22:FB:2810:A:C8	37:FQ:6:LYS:HG3	1.42	1.52
53:H7:199:ASN:CA	53:H7:199:ASN:C	1.77	1.52
22:HB:1338:G:C5	40:HT:107:ILE:HG23	1.45	1.52
22:HB:95:G:H1'	45:HY:45:GLN:CD	1.14	1.52
1:AA:1230:C:C1'	13:AM:125:ARG:NH1	1.72	1.52
4:ED:205:GLU:CB	5:EE:101:ILE:HG12	1.33	1.52
22:HB:2558:C:H4'	25:HE:132:LYS:CG	1.26	1.52
1:IA:1321:C:H5''	13:IM:87:TYR:CE2	1.02	1.52
1:CA:932:C:C5	7:CG:3:ARG:NH2	1.78	1.52
22:DB:545:C:C1'	38:DR:53:LYS:CE	1.88	1.52
1:EA:653:A:N1	8:EH:27:PRO:CG	1.73	1.52
1:EA:1273:G:C8	1:IA:1265:G:H5'	1.36	1.52
1:AA:254:G:C2	17:AQ:16:GLN:CB	1.92	1.51
22:DB:2713:A:C8	25:DE:205:SER:O	1.63	1.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:FB:1044:U:C5	52:F6:16:VAL:HG21	1.40	1.51
22:FB:2786:G:C4'	25:FE:59:VAL:CG1	1.81	1.51
22:HB:1829:C:C5'	22:HB:1911:A:H4'	1.39	1.51
22:HB:71:A:N7	45:HY:58:ALA:CB	1.68	1.51
34:BN:66:TYR:HD1	43:BW:115:ILE:CG2	1.07	1.51
22:DB:2463:G:H1'	34:DN:121:LEU:CD1	1.35	1.51
22:FB:1405:A:N6	41:FU:15:LYS:CE	1.72	1.51
22:HB:1816:G:N2	24:HD:252:LYS:CD	1.70	1.51
25:HE:54:LYS:HE2	37:HQ:6:LYS:CE	1.35	1.51
32:HL:91:PHE:HA	37:HQ:79:ARG:CD	1.39	1.51
22:HB:2310:G:C5'	44:HX:71:ASN:HA	1.40	1.51
1:AA:668:G:C1'	15:AO:46:HIS:H	1.19	1.51
22:DB:176:A:C8	47:D1:30:GLU:CB	1.91	1.51
40:FT:56:LEU:CA	48:F2:28:PRO:HD2	1.31	1.51
22:HB:1338:G:N9	40:HT:107:ILE:CG2	1.72	1.51
23:BA:93:G:C4'	34:BN:23:LYS:HZ2	1.24	1.51
49:D3:24:THR:CG2	51:D5:35:GLY:HA2	1.39	1.51
22:DB:1861:G:C6	53:D7:199:ASN:CB	1.94	1.51
22:DB:2615:U:C4'	25:DE:79:ARG:CD	1.85	1.51
1:GA:658:G:C5'	15:GO:8:LYS:HZ1	1.19	1.51
22:BB:2789:U:H2'	48:B2:42:SER:CB	1.40	1.51
22:DB:2039:G:H1'	48:D2:5:PRO:CD	1.12	1.51
22:DB:2623:A:O3'	22:DB:2624:G:P	1.14	1.51
22:BB:696:U:C5'	50:B4:16:HIS:HE1	1.24	1.51
1:CA:620:C:H4'	4:CD:138:TYR:CZ	1.40	1.51
1:EA:761:G:C2	17:EQ:104:LYS:CE	1.89	1.51
22:FB:2810:A:C8	37:FQ:6:LYS:CG	1.92	1.51
22:FB:2551:A:C6	25:FE:144:ARG:HB2	1.44	1.51
1:IA:684:A:H1'	11:IK:39:PRO:CD	1.41	1.51
43:JW:51:LEU:HD13	43:JW:128:ARG:CD	1.34	1.51
1:CA:1456:A:H5''	20:CT:28:ALA:CB	1.05	1.51
22:FB:1044:U:C5	52:F6:16:VAL:CG2	1.91	1.51
22:FB:2035:G:H5'	25:FE:142:GLY:CA	1.04	1.51
38:FR:47:TYR:CB	39:FS:74:TYR:HB3	1.04	1.51
25:BE:181:LEU:HD22	37:BQ:12:LEU:CG	1.35	1.51
22:DB:2448:A:H4'	34:DN:58:HIS:CE1	1.42	1.51
22:HB:1613:G:O3'	22:HB:1614:C:P	1.11	1.51
22:BB:1237:G:H5''	39:BS:87:ARG:CB	1.03	1.51
34:FN:27:TYR:CB	43:FW:73:LYS:HG3	1.08	1.51
1:GA:175:C:C4'	20:GT:25:ARG:HG2	1.36	1.51
22:JB:3124:G:C5'	53:J7:62:LYS:HD3	1.06	1.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:932:C:H5''	7:CG:3:ARG:CD	1.40	1.50
22:DB:546:A:C4'	38:DR:57:PHE:CZ	1.94	1.50
22:FB:2551:A:N6	25:FE:144:ARG:CB	1.71	1.50
12:GL:19:ARG:C	12:GL:21:LYS:HG3	1.24	1.50
1:EA:1273:G:C5'	1:IA:1265:G:C3'	1.79	1.50
53:B7:199:ASN:C	53:B7:199:ASN:CA	1.77	1.50
22:HB:2629:U:H4'	32:HL:29:ILE:CD1	1.37	1.50
1:IA:668:G:H1'	15:IO:46:HIS:CD2	1.15	1.50
1:IA:684:A:N3	11:IK:39:PRO:CG	1.71	1.50
12:IL:11:VAL:HG23	17:IQ:34:LYS:CD	1.27	1.50
22:DB:1583:A:C1'	24:DD:84:TYR:HE1	0.90	1.50
22:HB:699:G:N3	50:H4:5:TYR:HA	1.18	1.50
22:JB:509:U:C1'	42:JV:54:ILE:CG2	1.79	1.50
22:DB:3093:C:H4'	29:DI:21:LYS:CA	1.07	1.50
22:FB:2399:C:H3'	51:F5:32:GLN:CG	1.41	1.50
22:FB:1887:G:O3'	22:FB:1888:C:P	1.12	1.50
1:IA:590:C:H5''	8:IH:30:ARG:NE	1.23	1.50
1:IA:261:U:C4	20:IT:79:ARG:NH1	1.75	1.50
22:JB:2810:A:C3'	37:JQ:6:LYS:HG3	1.06	1.50
1:CA:689:C:C6	11:CK:51:LYS:NZ	1.76	1.50
22:FB:827:C:C5	33:FM:32:ARG:NH1	1.77	1.50
22:FB:2551:A:C6	25:FE:144:ARG:CB	1.95	1.50
22:JB:3167:U:C3'	53:J7:97:LYS:HE2	1.38	1.50
22:JB:64:C:C6	41:JU:70:GLY:HA2	1.46	1.50
22:BB:1042:G:C8	52:B6:6:SER:HA	1.44	1.50
22:DB:1834:G:C1'	24:DD:244:ARG:HG3	1.08	1.50
1:EA:922:G:C1'	5:EE:19:MET:HE1	1.03	1.50
22:HB:2448:A:C4'	34:HN:57:ARG:HD3	1.42	1.50
22:FB:1636:G:H1'	50:F4:1:MET:CA	1.38	1.50
22:FB:3093:C:C5'	29:FI:21:LYS:HA	1.03	1.50
1:IA:675:A:N1	11:IK:116:HIS:CB	1.71	1.50
1:AA:759:A:N6	17:AQ:98:LEU:CD1	1.74	1.50
22:BB:1377:G:C5	47:B1:3:LYS:HG3	0.98	1.50
22:DB:1043:A:H4'	52:D6:23:VAL:CG2	1.06	1.50
34:DN:66:TYR:CD2	43:DW:118:HIS:ND1	1.80	1.50
7:GG:153:HIS:ND1	11:GK:59:TYR:CD1	1.69	1.50
1:IA:668:G:C1'	15:IO:46:HIS:CD2	1.78	1.50
1:CA:15:G:H21	5:CE:17:ALA:C	1.11	1.50
22:HB:886:A:C2	43:HW:167:THR:CG2	1.95	1.50
25:BE:176:ARG:HD2	37:BQ:19:ASP:CG	1.17	1.50
1:CA:430:A:P	4:CD:8:VAL:HG23	1.51	1.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:DB:886:A:H5'	34:DN:66:TYR:CE2	1.46	1.50
22:FB:1613:G:H3'	22:FB:1614:C:P	1.48	1.50
22:JB:2722:C:H5''	52:J6:35:ARG:CD	1.07	1.50
22:JB:3178:C:H2'	53:J7:39:ILE:CD1	1.36	1.50
23:BA:44:C:N3	27:BG:90:THR:CB	1.74	1.49
22:DB:869:C:H1'	44:DX:24:LYS:CD	1.37	1.49
1:IA:620:C:H4'	4:ID:138:TYR:CE1	1.43	1.49
34:HN:66:TYR:CE1	43:HW:115:ILE:CG1	1.94	1.49
32:HL:87:SER:CB	37:HQ:83:PHE:HA	1.04	1.49
1:IA:718:G:N7	18:IR:81:PHE:CZ	1.80	1.49
1:AA:667:G:H1'	15:AO:49:ASP:CA	1.26	1.49
22:BB:886:A:C4	43:BW:167:THR:HG21	1.47	1.49
22:DB:2025:A:N6	31:DK:142:ARG:HH12	1.01	1.49
1:GA:580:U:H4'	15:GO:57:LEU:CD2	1.02	1.49
22:HB:1795:C:C4'	24:HD:250:TRP:CZ2	1.90	1.49
1:IA:1187:G:C1'	9:II:113:LYS:CE	1.87	1.49
22:JB:1166:A:H61	46:JZ:7:ARG:CZ	1.23	1.49
1:AA:667:G:C1'	15:AO:49:ASP:HA	1.34	1.49
22:BB:1325:U:C5	41:BU:61:LYS:HG3	1.48	1.49
22:DB:1325:U:C2	41:DU:61:LYS:HE2	1.48	1.49
22:FB:15:G:N2	48:F2:18:MET:CE	1.69	1.49
22:FB:231:G:N1	51:F5:4:MET:HG2	1.26	1.49
22:FB:2786:G:H4'	25:FE:59:VAL:CG1	1.35	1.49
22:FB:348:U:C5'	42:FV:13:LYS:HB2	1.01	1.49
22:BB:1805:G:H2'	24:BD:52:ARG:NH1	1.25	1.49
22:DB:2645:C:C4	28:DH:109:TYR:CD2	2.00	1.49
22:FB:3093:C:C4'	29:FI:21:LYS:HA	1.40	1.49
34:FN:106:GLU:HB3	43:FW:115:ILE:CD1	1.35	1.49
22:JB:2399:C:C2	51:J5:32:GLN:NE2	1.76	1.49
34:BN:106:GLU:HB3	43:BW:113:VAL:CG2	1.40	1.49
22:BB:863:C:C4'	46:BZ:18:LYS:HG2	1.38	1.49
22:DB:2035:G:H5'	25:DE:142:GLY:CA	1.42	1.49
22:FB:864:C:H1'	46:FZ:39:ALA:C	1.26	1.49
1:AA:529:G:N2	12:AL:49:ASN:CB	1.72	1.49
1:CA:523:A:N6	12:CL:90:VAL:HG13	1.21	1.49
34:DN:38:MET:CA	43:DW:74:ARG:CG	1.91	1.49
1:EA:1060:C:P	3:EC:2:GLY:HA3	1.52	1.49
22:FB:1072:U:H3	30:FJ:11:GLN:N	1.03	1.49
22:JB:2003:A:C4'	38:JR:25:TRP:CH2	1.96	1.49
22:DB:1290:A:H1'	35:DO:24:GLN:CA	1.36	1.49
34:DN:62:GLY:N	43:DW:112:LEU:HD23	1.16	1.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:DB:2249:U:H5''	44:DX:18:PRO:CD	1.39	1.49
1:EA:376:G:C4'	16:EP:28:ARG:HH22	1.24	1.49
22:FB:2591:C:C2	48:F2:2:ALA:HB1	1.45	1.49
22:JB:2571:G:C6	24:JD:237:GLU:OE2	1.65	1.49
22:JB:64:C:C5	41:JU:70:GLY:HA2	1.45	1.49
22:BB:111:G:O3'	22:BB:112:U:P	1.09	1.49
1:GA:192:U:H4'	20:GT:56:MET:CE	1.38	1.49
1:GA:1320:C:H4'	19:GS:3:ARG:NH1	1.21	1.49
41:HU:4:TYR:CZ	45:HY:18:ILE:HG21	1.44	1.49
1:AA:1298:C:C5	7:AG:114:ARG:HD3	1.46	1.48
3:EC:18:TRP:HE1	14:EN:53:LEU:N	1.07	1.48
22:FB:1666:G:N2	35:FO:106:ASP:CB	1.72	1.48
3:GC:59:ARG:C	10:GJ:92:THR:HG21	1.16	1.48
1:GA:958:A:N1	19:GS:77:THR:CG2	1.75	1.48
23:HA:48:A:HO2'	36:HP:4:ALA:N	1.11	1.48
1:IA:1321:C:C5'	13:IM:87:TYR:CE2	1.92	1.48
22:BB:176:A:H2'	47:B1:31:ILE:CG2	1.03	1.48
22:BB:575:U:C4	39:BS:79:GLN:HG3	1.45	1.48
22:DB:696:U:H5''	50:D4:16:HIS:CE1	1.48	1.48
22:DB:3093:C:C4'	29:DI:21:LYS:HA	1.01	1.48
22:DB:565:A:H2'	31:DK:74:MET:SD	1.50	1.48
22:BB:1377:G:C5	47:B1:3:LYS:CG	1.88	1.48
22:FB:477:A:H5'	50:F4:16:HIS:CE1	1.46	1.48
22:BB:2739:G:N2	28:BH:139:GLN:HG3	1.29	1.48
53:D7:199:ASN:C	53:D7:199:ASN:CA	1.77	1.48
22:HB:2826:C:H4'	35:HO:64:ARG:NH1	1.21	1.48
22:HB:759:C:H3'	48:H2:2:ALA:CB	1.00	1.48
22:JB:62:U:C4'	41:JU:62:ARG:HH12	1.27	1.48
34:BN:66:TYR:CD1	43:BW:115:ILE:CG2	1.80	1.48
22:DB:1234:C:C5'	39:DS:68:LYS:HZ2	1.26	1.48
1:GA:1226:C:H5''	13:GM:111:LYS:CE	1.37	1.48
10:GJ:65:LEU:CB	14:GN:56:VAL:HG13	1.42	1.48
22:HB:1376:C:C5'	47:H1:55:ARG:NH2	1.68	1.48
22:BB:2463:G:N2	34:BN:120:ARG:CD	1.74	1.48
22:BB:2462:C:C2'	34:BN:50:ALA:CB	1.87	1.48
13:EM:83:ASP:HB3	22:FB:900(A):A:P	1.50	1.48
22:FB:156:G:O3'	22:FB:157:G:P	1.09	1.48
22:FB:1289:A:C2	35:FO:23:ALA:O	1.65	1.48
22:JB:626:A:C2	26:JF:172:VAL:HG12	1.48	1.48
22:BB:2646:C:C1'	28:BH:111:HIS:ND1	1.75	1.48
22:DB:869:C:C1'	44:DX:24:LYS:HG2	1.42	1.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:JB:3124:G:H5'	53:J7:62:LYS:CG	1.32	1.48
22:BB:1050:G:C5'	43:BW:37:LYS:HE2	1.39	1.48
1:EA:1264:C:H5''	1:IA:1273:G:N2	1.16	1.48
1:IA:675:A:C6	11:IK:116:HIS:CD2	2.02	1.48
22:JB:509:U:C1'	42:JV:54:ILE:HG21	1.18	1.48
34:HN:66:TYR:CD1	43:HW:115:ILE:CG2	1.95	1.48
22:BB:1795:C:C5'	24:BD:250:TRP:HZ2	1.26	1.48
1:GA:9:G:H5''	5:GE:104:ALA:CB	1.40	1.48
34:DN:66:TYR:CE2	43:DW:118:HIS:ND1	1.75	1.47
22:FB:231:G:C6	51:F5:4:MET:HG2	0.97	1.47
1:GA:694:A:C5'	11:GK:53:SER:HB2	1.39	1.47
22:HB:1889:G:OP1	22:HB:1913:G:C8	1.64	1.47
22:JB:2206:C:C1'	24:JD:262:LYS:HZ1	1.25	1.47
1:CA:1344:C:H4'	9:CI:120:ARG:CG	1.41	1.47
10:EJ:63:PHE:N	14:EN:59:ALA:CB	1.76	1.47
43:FW:65:LEU:HD22	43:FW:128:ARG:NH1	1.16	1.47
1:GA:877:C:H1'	8:GH:3:THR:C	1.29	1.47
22:JB:1003:C:C4'	39:JS:74:TYR:CD2	1.77	1.47
22:JB:1172:U:H4'	39:JS:22:VAL:CG1	1.41	1.47
1:CA:520:A:N7	12:CL:51:ALA:CB	1.73	1.47
1:EA:668:G:H1'	15:EO:46:HIS:CD2	1.46	1.47
1:AA:1059:C:H4'	14:AN:45:ARG:NH2	1.27	1.47
22:DB:546:A:H4'	38:DR:57:PHE:CE1	1.45	1.47
22:FB:346:C:C2	42:FV:79:SER:CB	1.97	1.47
22:HB:1338:G:C8	40:HT:107:ILE:CG2	1.94	1.47
22:BB:1789:U:H5'	24:BD:257:LEU:CD1	1.43	1.47
22:BB:2523:G:H5'	22:BB:2624:G:N7	1.26	1.47
32:BL:91:PHE:CA	37:BQ:79:ARG:NH1	1.76	1.47
1:CA:953:G:C2	13:CM:120:LYS:HG2	1.49	1.47
22:DB:2713:A:N6	25:DE:203:LYS:HB3	1.21	1.47
23:JA:10:U:H4'	36:JP:28:ARG:CZ	1.43	1.47
22:DB:2494:C:C5'	31:DK:108:GLY:HA3	1.42	1.47
34:DN:62:GLY:H	43:DW:112:LEU:CD2	1.24	1.47
22:FB:547:U:C2	31:FK:71:THR:HG21	1.49	1.47
22:HB:824:U:C5'	33:HM:33:GLY:HA2	1.45	1.47
22:JB:1829:C:H5'	22:JB:1911:A:C4'	1.43	1.47
22:DB:2494:C:C4'	31:DK:108:GLY:CA	1.87	1.47
1:IA:1228:C:H41	13:IM:104:ARG:CD	1.26	1.47
22:JB:869:C:C5'	44:JX:57:HIS:HB3	0.99	1.47
22:JB:3103:A:C5'	53:J7:37:LYS:HG3	1.42	1.47
22:JB:910:U:N3	22:JB:911:A:C5'	1.74	1.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:BB:1816:G:N2	24:BD:252:LYS:CD	1.73	1.47
22:DB:865:A:H1'	46:DZ:39:ALA:CA	1.37	1.47
4:ED:205:GLU:HB3	5:EE:101:ILE:CG1	1.41	1.47
22:FB:6:A:N3	31:FK:162:LYS:HE3	1.24	1.47
22:JB:16:G:H5''	48:J2:17:ASP:CG	1.11	1.47
1:AA:1374:A:N3	7:AG:29:LYS:HE3	1.27	1.47
5:AE:80:ILE:HG21	8:AH:138:TRP:CZ3	1.49	1.47
34:DN:98:VAL:CG2	43:DW:73:LYS:CE	1.87	1.47
7:EG:13:GLN:HB3	9:EI:42:ARG:NH1	1.28	1.47
22:JB:63:A:N3	41:JU:62:ARG:CG	1.78	1.47
22:BB:157:G:C4'	50:B4:36:ALA:HB1	1.40	1.46
22:BB:2463:G:N2	34:BN:120:ARG:HD3	1.20	1.46
22:DB:2645:C:C4	28:DH:109:TYR:CE2	2.03	1.46
22:DB:869:C:H1'	44:DX:24:LYS:CE	1.39	1.46
1:GA:1309:G:C5'	13:GM:81:LEU:HD11	1.45	1.46
22:HB:1998:A:C6	48:H2:7:PRO:CD	1.97	1.46
6:IF:2:ARG:NH1	15:IO:2:PRO:CG	1.77	1.46
1:AA:529:G:C6	12:AL:48:PRO:CD	1.74	1.46
22:BB:1816:G:H21	24:BD:252:LYS:CD	1.24	1.46
1:CA:583:A:H1'	17:CQ:91:ARG:NE	1.29	1.46
22:JB:610:G:H5'	26:JF:99:VAL:CG2	1.44	1.46
22:JB:2464:G:H4'	34:JN:123:GLY:N	1.22	1.46
22:DB:2490:U:C5'	25:DE:122:PHE:HE1	1.23	1.46
22:DB:2627:G:N2	32:DL:28:GLY:CA	1.78	1.46
1:EA:130:A:N6	17:EQ:64:PRO:CD	1.78	1.46
22:HB:1803:G:N3	24:HD:47:GLY:HA3	1.24	1.46
22:JB:1747:G:N7	37:JQ:126:LYS:HA	1.31	1.46
22:JB:468:A:H5'	41:JU:69:ILE:CD1	1.40	1.46
22:BB:511:A:H2	40:BT:12:LYS:CA	1.25	1.46
38:FR:44:THR:HA	39:FS:76:SER:CA	1.42	1.46
12:GL:10:LEU:O	17:GQ:32:TYR:CD2	1.68	1.46
22:HB:2310:G:C4'	44:HX:71:ASN:HA	1.44	1.46
23:JA:14:C:O3'	44:JX:53:MET:CE	1.63	1.46
23:BA:107:C:C4'	43:BW:89:GLY:N	1.79	1.46
1:CA:932:C:C6	7:CG:3:ARG:NH1	1.81	1.46
1:CA:827:U:C5'	8:CH:21:LYS:HD3	1.02	1.46
22:DB:935:C:H4'	44:DX:26:PHE:CE2	1.50	1.46
22:DB:1834:G:C1'	24:DD:244:ARG:CG	1.92	1.46
1:GA:828:A:OP1	8:GH:21:LYS:CE	1.63	1.46
1:IA:1100:C:N4	2:IB:144:ARG:HH22	1.06	1.46
22:DB:1234:C:C5'	39:DS:68:LYS:NZ	1.74	1.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:DB:1292:A:C5'	35:DO:33:ARG:CD	1.88	1.46
1:AA:16:A:O3'	5:AE:16:THR:CA	1.63	1.46
22:BB:1042:G:C8	52:B6:6:SER:CB	1.99	1.46
22:BB:2218:G:H5''	24:BD:230:ASP:CA	0.98	1.46
22:FB:2035:G:C5'	25:FE:142:GLY:HA3	1.01	1.46
12:GL:19:ARG:C	12:GL:21:LYS:CG	1.79	1.46
23:DA:92:G:N2	34:DN:22:ALA:C	1.70	1.46
22:FB:6:A:C2	31:FK:162:LYS:HE3	1.50	1.46
1:GA:132:C:H4'	20:GT:74:LYS:NZ	1.20	1.46
1:IA:825:G:N2	8:IH:11:THR:HG21	1.31	1.46
22:JB:2722:C:C5'	52:J6:35:ARG:HD3	0.98	1.46
22:JB:488:A:H2	42:JV:74:LEU:CD2	1.27	1.46
22:DB:1325:U:C6	41:DU:61:LYS:NZ	1.83	1.46
22:JB:539:A:O3'	22:JB:540:G:P	1.07	1.46
10:AJ:49:VAL:CG1	14:AN:45:ARG:HG3	1.00	1.45
22:BB:1044:U:C4	52:B6:15:LYS:HG2	1.51	1.45
22:BB:1166:A:C2	22:BB:1168:G:C8	2.03	1.45
1:EA:1061:G:H4'	10:EJ:56:HIS:CD2	0.94	1.45
22:FB:2652:G:H4'	32:FL:46:HIS:CE1	1.52	1.45
22:FB:1203:A:C5'	33:FM:36:GLY:H	1.30	1.45
1:GA:580:U:C4'	15:GO:57:LEU:HD21	1.44	1.45
22:JB:787:A:OP1	24:JD:49:ILE:CD1	1.64	1.45
1:AA:1383:C:H5'	7:AG:79:ARG:NH2	1.26	1.45
6:EF:48:LEU:HD22	18:ER:77:GLY:C	1.35	1.45
1:AA:1092:A:C5'	7:AG:4:ARG:CD	1.91	1.45
1:AA:16:A:C3'	5:AE:16:THR:CA	1.79	1.45
1:CA:953:G:N1	13:CM:120:LYS:HG2	1.18	1.45
22:DB:1861:G:C5	53:D7:199:ASN:HB2	1.51	1.45
33:DM:58:ALA:CB	51:D5:9:MET:SD	2.01	1.45
22:DB:29:U:H5'	38:DR:7:GLY:C	1.31	1.45
22:DB:1325:U:N1	41:DU:61:LYS:HE2	1.20	1.45
34:FN:99:LYS:HB3	43:FW:74:ARG:CG	0.99	1.45
1:CA:523:A:N1	12:CL:91:LYS:N	1.62	1.45
1:CA:134:A:N1	16:CP:25:ARG:NH2	1.64	1.45
1:EA:761:G:N1	17:EQ:104:LYS:HE3	1.18	1.45
23:FA:79:U:P	43:FW:10:PRO:HB3	1.54	1.45
22:HB:1796:A:C2	24:HD:51:SER:OG	1.65	1.45
22:JB:3167:U:H5''	53:J7:97:LYS:NZ	1.16	1.45
22:JB:857:U:O3'	22:JB:858:G:P	1.06	1.45
23:JA:14:C:C5	44:JX:52:GLY:C	1.87	1.45
1:AA:331:G:H21	20:AT:8:ARG:N	1.13	1.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:BB:2365:U:C5'	44:BX:39:ARG:NH1	1.76	1.45
22:DB:2494:C:C4'	31:DK:108:GLY:HA2	1.43	1.45
38:DR:47:TYR:HD1	39:DS:74:TYR:CB	1.28	1.45
22:FB:2239:C:H3'	44:FX:14:ARG:NE	1.24	1.45
1:IA:1228:C:N4	13:IM:104:ARG:HD3	1.29	1.45
1:IA:752:G:H5'	15:IO:69:TYR:CZ	1.49	1.45
22:BB:827:C:C5'	39:BS:84:THR:N	1.76	1.45
22:HB:761:G:C3'	40:HT:111:ARG:H	1.27	1.45
22:HB:502:A:C2	40:HT:28:ALA:O	1.70	1.45
22:JB:2000:U:H4'	48:J2:8:LYS:NZ	1.19	1.45
40:JT:36:ARG:NH2	48:J2:16:ARG:HD3	1.31	1.45
1:AA:980:C:C4'	14:AN:19:ARG:NH2	1.74	1.45
1:AA:1230:C:H1'	13:AM:125:ARG:CZ	1.41	1.45
22:DB:1673:C:C6	25:DE:136:ARG:NH2	1.80	1.45
22:FB:1265:G:C4'	38:FR:32:TYR:HE1	1.29	1.45
22:HB:760:U:C5	48:H2:3:LYS:CD	1.98	1.45
5:CE:141:GLN:NE2	8:CH:69:ARG:HH22	1.08	1.45
22:FB:1266:G:H1	38:FR:37:GLN:NE2	1.12	1.45
1:GA:1225:A:N7	13:GM:104:ARG:NH2	1.63	1.45
1:GA:1320:C:C5'	19:GS:3:ARG:HD3	1.47	1.45
1:CA:922:G:H4'	5:CE:20:GLN:NE2	1.26	1.45
22:DB:2615:U:C4'	25:DE:79:ARG:HD2	1.39	1.45
22:DB:2057:U:C5'	24:DD:228:PRO:HG3	1.43	1.45
22:JB:2261:G:C3'	49:J3:3:LYS:HZ3	1.28	1.45
22:JB:1204:G:C5'	33:JM:37:GLN:NE2	1.76	1.45
1:AA:60:A:H8	20:AT:11:SER:CB	1.28	1.45
1:CA:644:G:H8	8:CH:92:ARG:CZ	1.30	1.45
13:GM:86:CYS:CA	19:GS:74:PHE:CE2	1.97	1.45
22:HB:3866:A:N6	53:H7:44:GLY:C	1.67	1.45
1:AA:1345:U:H5''	9:AI:120:ARG:CZ	1.47	1.44
1:CA:1345:U:C5'	9:CI:120:ARG:NH1	1.77	1.44
22:DB:464:G:N1	50:D4:39:ARG:NH2	1.64	1.44
22:DB:865:A:N9	46:DZ:39:ALA:HB1	1.28	1.44
34:DN:27:TYR:CD2	43:DW:73:LYS:HA	1.51	1.44
1:EA:1100:C:H3'	2:EB:98:LEU:CD2	1.45	1.44
34:FN:106:GLU:CG	43:FW:115:ILE:HD12	1.42	1.44
13:GM:86:CYS:HA	19:GS:74:PHE:CD2	1.50	1.44
33:JM:62:LYS:HB2	51:J5:30:ARG:NE	1.16	1.44
43:JW:49:THR:N	43:JW:95:SER:HB3	1.19	1.44
34:JN:129:GLN:CD	43:JW:74:ARG:NH1	1.68	1.44
1:CA:1396:A:C2	5:CE:19:MET:CE	1.78	1.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:EA:407:G:H1'	4:ED:116:GLN:NE2	1.30	1.44
3:GC:59:ARG:O	10:GJ:92:THR:CG2	1.65	1.44
1:GA:1224:G:O2'	13:GM:102:ARG:CB	1.63	1.44
6:IF:2:ARG:NH1	15:IO:2:PRO:HG3	1.17	1.44
22:JB:2241:U:C6	44:JX:14:ARG:O	1.70	1.44
1:CA:815:A:N3	1:CA:1529:G:C2	1.85	1.44
13:CM:86:CYS:CB	13:CM:92:HIS:CD2	1.90	1.44
22:DB:1237:G:C3'	39:DS:87:ARG:HB2	1.44	1.44
1:EA:262:A:H5'	20:ET:74:LYS:CD	1.38	1.44
22:FB:2364:C:O2'	44:FX:37:LEU:CD1	1.66	1.44
22:FB:2661:G:C1'	25:FE:11:MET:SD	2.03	1.44
22:HB:2448:A:C1'	34:HN:57:ARG:CD	1.86	1.44
1:IA:363:A:C2	12:IL:30:ALA:HA	1.52	1.44
22:DB:165:G:OP1	47:D1:36:TRP:CZ3	1.68	1.44
22:HB:2857:C:OP1	35:HO:98:LEU:CD1	1.65	1.44
22:HB:494:A:C1'	42:HV:56:LYS:CB	1.93	1.44
1:IA:653:A:H61	8:IH:29:SER:CB	1.27	1.44
12:IL:11:VAL:CG1	17:IQ:36:ILE:CG1	1.91	1.44
22:BB:2661:G:H1'	25:BE:11:MET:SD	1.57	1.44
5:CE:141:GLN:HE21	8:CH:69:ARG:NH2	1.08	1.44
22:JB:3122:U:C2	53:J7:158:LYS:NZ	1.77	1.44
22:BB:511:A:C2	40:BT:12:LYS:CA	2.00	1.44
22:DB:917:U:H4'	43:DW:121:GLN:C	1.36	1.44
1:EA:538:G:H4'	12:EL:114:LYS:CE	1.48	1.44
22:FB:29:U:H4'	38:FR:8:ILE:CB	1.47	1.44
22:HB:2338:C:H5''	51:H5:50:LEU:CB	1.44	1.44
1:IA:247:G:C5'	17:IQ:100:LYS:HD2	1.48	1.44
1:CA:1092:A:C5'	7:CG:4:ARG:HD3	1.45	1.44
1:GA:967:C:C5'	9:GI:128:ARG:HG3	1.45	1.44
13:IM:86:CYS:CA	19:IS:74:PHE:HA	1.48	1.44
22:JB:1744:G:O6	37:JQ:124:VAL:CG2	1.64	1.44
22:JB:2638:G:N7	28:JH:180:GLY:N	1.64	1.44
22:BB:1042:G:C8	52:B6:6:SER:CA	1.99	1.44
22:BB:511:A:C2	40:BT:12:LYS:CB	1.98	1.44
23:DA:92:G:N3	34:DN:22:ALA:N	1.61	1.44
22:DB:869:C:C1'	44:DX:24:LYS:HE2	1.47	1.44
1:GA:188:C:N4	20:GT:89:ARG:HH22	0.98	1.44
22:JB:2206:C:C1'	24:JD:262:LYS:NZ	1.78	1.44
22:BB:1072:U:O4	30:BJ:54:PRO:CB	1.63	1.44
1:CA:932:C:C5'	7:CG:3:ARG:HD3	1.44	1.44
22:DB:686:C:H4'	26:DF:74:VAL:CG1	1.47	1.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:EA:583:A:C5'	17:EQ:90:ILE:HG21	1.45	1.44
1:GA:1291:G:C5'	7:GG:41:ARG:NH1	1.81	1.44
1:GA:1392:G:N3	1:GA:1502:A:C5'	1.78	1.44
12:GL:11:VAL:HG22	17:GQ:32:TYR:CB	1.47	1.44
34:HN:66:TYR:CD1	43:HW:115:ILE:HG21	1.48	1.44
22:BB:1795:C:H5''	24:BD:250:TRP:CZ2	1.50	1.44
22:DB:547:U:H5'	31:DK:30:LYS:CG	1.48	1.44
22:FB:1493:A:C2	22:FB:1573:G:N3	1.84	1.44
22:HB:498:C:O2	40:HT:74:SER:CB	1.66	1.44
32:HL:86:GLY:CA	37:HQ:84:ALA:HB2	1.45	1.44
5:AE:78:HIS:CB	8:AH:104:ARG:NH2	1.81	1.43
22:BB:1583:A:H1'	24:BD:84:TYR:CE1	1.51	1.43
22:DB:1583:A:H1'	24:DD:84:TYR:CE1	0.91	1.43
1:EA:922:G:H1'	5:EE:19:MET:CE	0.98	1.43
34:FN:27:TYR:CD1	43:FW:73:LYS:CA	2.01	1.43
22:HB:2653:A:N3	32:HL:41:ASN:ND2	1.64	1.43
32:HL:88:THR:O	37:HQ:81:PHE:CB	1.65	1.43
1:IA:753:A:C4	8:IH:1:MET:HE1	1.37	1.43
10:AJ:65:LEU:CD1	14:AN:56:VAL:HG22	1.37	1.43
1:CA:1226:C:H41	13:CM:104:ARG:NE	1.04	1.43
22:DB:2645:C:C5	28:DH:109:TYR:CD2	2.06	1.43
1:EA:278:G:C2	17:EQ:96:GLN:NE2	1.84	1.43
1:GA:958:A:N1	19:GS:77:THR:HG23	1.16	1.43
41:HU:4:TYR:CE1	45:HY:18:ILE:CG2	2.01	1.43
1:AA:426:G:H4'	4:AD:42:GLN:N	1.28	1.43
5:AE:78:HIS:HB3	8:AH:104:ARG:NH2	1.16	1.43
1:AA:1131:G:C5'	9:AI:2:GLU:CB	1.85	1.43
22:DB:2751:C:C5'	25:DE:202:ALA:CB	1.97	1.43
22:FB:57:G:C5'	41:FU:73:ASN:C	1.84	1.43
22:FB:63:A:C2'	41:FU:70:GLY:O	1.63	1.43
32:BL:91:PHE:N	37:BQ:79:ARG:HH11	1.10	1.43
22:HB:2789:U:C6	48:H2:30:LEU:CD1	2.00	1.43
1:IA:751:U:H4'	15:IO:77:ARG:NH1	1.18	1.43
40:JT:40:LEU:CD1	48:J2:20:ARG:HG3	1.47	1.43
22:BB:1045:G:P	52:B6:16:VAL:HG21	1.58	1.43
25:BE:51:TYR:CE1	37:BQ:5:ILE:HG12	1.53	1.43
22:BB:492:G:C5'	42:BV:3:ARG:NH1	1.78	1.43
1:EA:639:G:H2'	8:EH:116:LYS:NZ	1.23	1.43
1:EA:1104:G:C1'	2:EB:111:ARG:HD2	0.97	1.43
22:FB:1887:G:HO3'	22:FB:1888:C:P	0.95	1.43
22:FB:2256:G:O2'	34:FN:14:PHE:CZ	1.70	1.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:GA:1226:C:N4	13:GM:104:ARG:CG	1.81	1.43
23:JA:14:C:C4	44:JX:52:GLY:C	1.91	1.43
22:JB:2701:A:N3	35:JO:6:ALA:HB2	1.22	1.43
1:CA:407:G:H1'	4:CD:116:GLN:CD	1.37	1.43
1:CA:15:G:N2	5:CE:18:ARG:CA	1.79	1.43
25:FE:176:ARG:NH2	37:FQ:16:ILE:HD12	1.26	1.43
22:HB:2357:A:O3'	36:HP:19:THR:CG2	1.66	1.43
3:IC:23:TYR:CE2	10:IJ:93:GLY:C	1.90	1.43
22:JB:603:C:N3	22:JB:677:G:N1	1.66	1.43
1:AA:1230:C:H1'	13:AM:125:ARG:NH1	1.18	1.43
22:FB:491:A:H5''	42:FV:55:THR:CG2	1.41	1.43
1:IA:835:U:OP1	18:IR:64:ARG:CZ	1.66	1.43
22:DB:1809:G:H4'	24:DD:157:ARG:NH1	1.20	1.43
22:DB:2710:C:C4'	25:DE:169:ASN:OD1	1.64	1.43
22:DB:589:C:C5'	38:DR:33:ARG:CG	1.95	1.43
1:EA:1117:G:C2	9:EI:106:ALA:HB2	1.52	1.43
22:HB:1805:G:N3	24:HD:51:SER:CB	1.82	1.43
22:HB:2558:C:O2'	25:HE:132:LYS:CD	1.65	1.43
22:HB:2356:A:N3	36:HP:89:PHE:HE2	1.13	1.43
22:JB:491:A:C1'	42:JV:53:VAL:HG12	1.49	1.43
5:AE:151:LEU:CD1	8:AH:79:VAL:O	1.66	1.43
22:BB:686:C:C4'	26:BF:74:VAL:CG1	1.94	1.43
22:BB:2725:C:H5'	28:BH:142:GLY:C	1.39	1.43
22:DB:1042:G:O2'	52:D6:6:SER:CA	1.64	1.43
22:DB:965:G:OP1	34:DN:18:MET:CA	1.67	1.43
22:DB:2760:G:C4'	31:DK:149:LYS:CD	1.96	1.43
22:FB:1673:C:H5''	25:FE:136:ARG:CG	1.48	1.43
43:FW:51:LEU:HD13	43:FW:128:ARG:NH2	1.18	1.43
22:FB:979:A:C4'	46:FZ:13:PRO:HB3	1.10	1.43
1:GA:230:G:C5'	16:GP:26:ARG:HH21	1.31	1.43
22:JB:2366:U:O2'	44:JX:16:SER:CB	1.67	1.43
22:BB:1809:G:H4'	24:BD:157:ARG:NH1	1.31	1.43
23:BA:107:C:H5''	43:BW:89:GLY:CA	1.47	1.43
22:BB:2334:C:C1'	44:BX:32:LYS:HE3	0.97	1.43
22:DB:1782:A:O2'	24:DD:205:VAL:CG2	1.63	1.43
22:FB:95:G:H4'	45:FY:39:GLN:CA	1.46	1.43
22:JB:2364:C:O2'	44:JX:37:LEU:CD1	1.66	1.43
22:JB:2688:G:OP1	35:JO:18:VAL:CG1	1.67	1.43
22:JB:631:G:O6	33:JM:96:TYR:CE2	1.69	1.43
38:JR:47:TYR:CB	39:JS:75:LYS:O	1.65	1.43
22:BB:596:C:N1	33:BM:29:THR:CG2	1.82	1.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:1230:C:C2	13:CM:125:ARG:HD2	1.51	1.42
1:CA:523:A:C6	12:CL:91:LYS:N	1.87	1.42
22:FB:2372:A:H4'	33:FM:60:LEU:N	1.22	1.42
22:FB:1000:G:OP2	46:FZ:9:VAL:CG2	1.66	1.42
1:AA:518:C:H4'	12:AL:50:SER:N	1.13	1.42
22:BB:1237:G:C5'	39:BS:87:ARG:CB	1.95	1.42
22:BB:176:A:C2'	47:B1:31:ILE:CG2	1.93	1.42
5:CE:152:ARG:NH1	8:CH:122:ARG:NH1	1.63	1.42
23:DA:105:G:C5'	43:DW:91:PRO:HA	1.44	1.42
22:DB:742:G:C8	24:DD:208:LYS:CE	2.02	1.42
1:IA:1130:A:C4'	9:II:18:PHE:CE1	2.03	1.42
22:JB:2558:C:H4'	25:JE:132:LYS:CD	1.46	1.42
22:DB:2289:A:C2	27:DG:77:PHE:CZ	2.07	1.42
22:DB:1292:A:C5'	35:DO:33:ARG:HB2	1.47	1.42
22:DB:2856:U:C4'	35:DO:93:GLY:HA3	1.47	1.42
22:FB:3875:A:C5'	53:F7:43:LYS:HD2	1.47	1.42
1:GA:1187:G:N2	14:GN:60:SER:C	1.70	1.42
12:GL:11:VAL:CG2	17:GQ:32:TYR:HB2	1.47	1.42
22:HB:1167:A:C2	38:HR:48:ARG:HD3	1.52	1.42
22:JB:219:G:N3	51:J5:4:MET:HA	1.32	1.42
22:JB:2209:G:C4'	47:J1:39:VAL:HA	1.46	1.42
22:JB:2463:G:H4'	34:JN:47:GLN:CD	1.34	1.42
22:JB:597:U:C1'	26:JF:84:PHE:HE2	1.28	1.42
22:JB:592:G:O2'	38:JR:5:LYS:CE	1.67	1.42
22:BB:1143:A:C4'	31:BK:111:LYS:HD3	1.33	1.42
1:CA:1456:A:C5'	20:CT:28:ALA:CB	1.97	1.42
7:EG:16:LEU:HG	9:EI:41:VAL:C	1.36	1.42
22:HB:2862:G:H21	48:H2:30:LEU:CB	1.29	1.42
22:HB:512:A:P	40:HT:16:GLN:HE21	1.40	1.42
22:JB:2399:C:C3'	51:J5:32:GLN:HB2	1.46	1.42
22:JB:505:G:O2'	40:JT:82:ASN:CB	1.64	1.42
1:CA:1383:C:H5'	7:CG:79:ARG:NH2	1.29	1.42
22:DB:2856:U:O4'	35:DO:93:GLY:CA	1.64	1.42
22:DB:596:C:C5	33:DM:30:ALA:HB2	1.48	1.42
22:DB:1234:C:O3'	39:DS:68:LYS:CD	1.66	1.42
1:EA:538:G:C4'	12:EL:114:LYS:HE2	1.49	1.42
22:HB:511:A:H3'	40:HT:16:GLN:CD	1.40	1.42
22:HB:2646:C:C2	28:HH:109:TYR:HB3	1.20	1.42
1:IA:1462:G:H4'	37:JQ:121:ARG:NH2	1.20	1.42
22:BB:2646:C:H1'	28:BH:111:HIS:ND1	1.19	1.42
22:BB:886:A:C4	43:BW:167:THR:CG2	2.02	1.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:BB:2767:C:H1'	25:BE:61:LYS:NZ	1.26	1.42
3:CC:23:TYR:HE2	10:CJ:9:ARG:CG	1.31	1.42
22:DB:2735:C:H42	52:D6:35:ARG:NH2	0.98	1.42
1:EA:640:A:C2	8:EH:129:VAL:HA	1.51	1.42
22:HB:1470:G:H1'	35:HO:60:LEU:CD1	1.49	1.42
22:JB:3176:A:O5'	53:J7:33:ILE:CD1	1.64	1.42
22:BB:863:C:H4'	46:BZ:18:LYS:CG	1.44	1.42
22:DB:1835:C:H5''	24:DD:255:LYS:NZ	1.34	1.42
1:EA:1273:G:H5'	1:IA:1265:G:C3'	0.94	1.42
10:EJ:62:HIS:C	14:EN:59:ALA:HB3	1.04	1.42
1:GA:729:A:H62	15:GO:51:HIS:CE1	1.35	1.42
22:HB:636:G:H1	33:HM:97:ARG:NE	1.11	1.42
22:JB:626:A:N3	26:JF:172:VAL:HG11	1.22	1.42
1:AA:545:C:C5'	4:AD:72:GLU:OE2	1.67	1.42
10:EJ:63:PHE:CA	14:EN:59:ALA:CB	1.94	1.42
12:GL:10:LEU:O	17:GQ:32:TYR:CE2	1.71	1.42
34:HN:106:GLU:OE1	43:HW:113:VAL:CG1	1.68	1.42
22:JB:576:A:H5''	33:JM:40:ARG:NH1	1.17	1.42
1:AA:518:C:N4	12:AL:47:LYS:HD2	1.18	1.42
22:BB:1148:G:OP1	31:BK:132:PHE:CE2	1.70	1.42
34:HN:68:ARG:NH2	43:HW:117:VAL:CG2	1.82	1.42
22:JB:2209:G:H4'	47:J1:39:VAL:C	1.37	1.42
22:JB:2842:C:N3	37:JQ:29:PRO:HD3	1.34	1.42
1:CA:644:G:C8	8:CH:92:ARG:CZ	2.03	1.42
22:FB:1829:C:C5'	22:FB:1911:A:H4'	1.49	1.42
22:FB:674:U:OP1	26:FF:93:TYR:CE1	1.70	1.42
22:FB:1269:G:N3	26:FF:76:THR:CG2	1.82	1.42
22:HB:1338:G:N9	40:HT:107:ILE:HG22	1.24	1.42
1:IA:642:A:N1	8:IH:131:GLY:HA3	1.25	1.42
22:BB:492:G:C5'	42:BV:3:ARG:HH11	1.32	1.41
1:CA:407:G:H4'	4:CD:116:GLN:CB	1.51	1.41
22:DB:2003:A:N7	48:D2:9:LYS:NZ	1.64	1.41
22:DB:547:U:C5'	31:DK:30:LYS:HG3	1.48	1.41
1:GA:1061:G:H1'	10:GJ:56:HIS:CE1	1.55	1.41
22:HB:763:A:C6	40:HT:111:ARG:NH1	1.80	1.41
22:HB:95:G:C8	45:HY:41:HIS:CD2	2.08	1.41
1:IA:814:A:H4'	1:IA:1511:G:C5'	1.49	1.41
22:JB:74:G:C2'	45:JY:55:THR:HG21	1.46	1.41
22:BB:1809:G:C4'	24:BD:157:ARG:NH1	1.81	1.41
22:BB:886:A:N3	43:BW:167:THR:HG23	1.33	1.41
22:DB:2733:A:N3	52:D6:15:LYS:CE	1.78	1.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:DB:696:U:C5'	50:D4:16:HIS:CE1	1.98	1.41
22:FB:965:G:H5''	34:FN:18:MET:CG	1.45	1.41
22:FB:1269:G:N2	26:FF:76:THR:HA	1.31	1.41
22:FB:590:C:OP1	38:FR:32:TYR:CB	1.67	1.41
1:GA:1226:C:C5'	13:GM:111:LYS:HE3	1.47	1.41
22:JB:414:A:H5'	53:J7:217:ARG:NH2	1.25	1.41
22:JB:530:G:H1'	40:JT:94:GLU:CD	1.36	1.41
22:JB:348:U:H4'	42:JV:13:LYS:CD	1.50	1.41
1:AA:974:A:OP2	14:AN:32:SER:CB	1.68	1.41
1:CA:129:U:P	17:CQ:3:LYS:HE2	1.60	1.41
22:DB:1050:G:H4'	43:DW:37:LYS:NZ	1.29	1.41
25:DE:151:TYR:HA	31:DK:106:TYR:CE1	0.91	1.41
22:DB:2658:A:C2'	25:DE:187:ALA:CB	1.91	1.41
22:HB:2062:U:C4'	47:H1:32:HIS:CE1	2.03	1.41
22:JB:2398:U:C3'	51:J5:34:THR:OG1	1.65	1.41
22:JB:414:A:C5'	53:J7:217:ARG:HH22	1.29	1.41
22:JB:869:C:H5''	44:JX:57:HIS:CB	1.45	1.41
22:BB:1141:U:H5''	31:BK:108:GLY:N	1.10	1.41
32:BL:91:PHE:C	37:BQ:79:ARG:NH1	1.72	1.41
1:EA:1100:C:C6	2:EB:98:LEU:HD21	1.55	1.41
1:EA:1102:A:N3	2:EB:108:ILE:HD11	1.26	1.41
22:FB:457:C:H5'	38:FR:3:ARG:CD	1.49	1.41
22:HB:71:A:O4'	45:HY:54:ASN:CB	1.67	1.41
1:IA:1187:G:C1'	9:II:113:LYS:HE3	1.40	1.41
1:IA:1186:G:C2'	9:II:113:LYS:NZ	1.83	1.41
22:JB:2557:G:C2	25:JE:133:LYS:HE2	1.53	1.41
22:DB:3093:C:C5'	29:DI:21:LYS:C	1.86	1.41
1:EA:537:G:H5''	12:EL:113:ARG:NH2	1.09	1.41
22:FB:828:C:H5''	39:FS:86:HIS:NE2	1.13	1.41
1:GA:16:A:C1'	5:GE:17:ALA:H	1.19	1.41
22:HB:1468:A:N6	35:HO:76:VAL:HG22	1.29	1.41
22:HB:1470:G:C1'	35:HO:60:LEU:HD13	1.51	1.41
22:HB:2364:C:O2	44:HX:69:PHE:CE1	1.73	1.41
22:HB:886:A:N3	43:HW:167:THR:HG21	1.15	1.41
22:JB:2262:C:OP1	49:J3:9:ILE:CD1	1.65	1.41
22:JB:1261:G:C5'	26:JF:86:PRO:HD3	1.50	1.41
22:JB:1204:G:C5'	33:JM:37:GLN:CD	1.89	1.41
1:CA:276:G:H5'	17:CQ:18:THR:CG2	1.47	1.41
25:DE:26:VAL:CG2	37:DQ:3:THR:CG2	1.96	1.41
1:EA:529:G:H22	12:EL:51:ALA:CB	1.32	1.41
9:EI:111:ARG:CZ	14:EN:61:TRP:OXT	1.68	1.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:FB:2292:C:H5'	27:FG:87:ILE:CD1	1.49	1.41
22:FB:1351:G:C5'	41:FU:13:SER:OG	1.66	1.41
1:GA:132:C:C4'	20:GT:74:LYS:HZ1	1.32	1.41
22:HB:1861:G:C1'	53:H7:199:ASN:CB	1.98	1.41
1:IA:675:A:N1	11:IK:116:HIS:CG	1.86	1.41
1:IA:919:A:H2'	1:IA:920:U:C6	1.54	1.41
22:JB:1583:A:C4	24:JD:84:TYR:CD1	2.09	1.41
1:AA:1347:G:C8	9:AI:107:ARG:CB	2.04	1.41
22:BB:2724:G:O2'	28:BH:143:GLN:CA	1.67	1.41
22:BB:7:G:H5'	31:BK:161:GLN:NE2	1.16	1.41
1:EA:1100:C:C3'	2:EB:98:LEU:CD2	1.97	1.41
22:FB:969:U:C5	34:FN:21:ASP:CG	1.93	1.41
22:FB:969:U:H5	34:FN:21:ASP:CG	1.22	1.41
22:FB:590:C:P	38:FR:32:TYR:HB3	1.59	1.41
22:JB:2003:A:H4'	38:JR:25:TRP:CH2	1.50	1.41
1:CA:559:A:OP2	5:CE:123:LEU:CA	1.67	1.41
33:DM:50:GLU:CD	51:D5:58:MET:HG2	1.41	1.41
22:FB:1072:U:H3	30:FJ:10:LEU:C	1.19	1.41
22:FB:2708:U:H4'	25:FE:21:ILE:CD1	0.93	1.41
1:GA:668:G:H1'	15:GO:45:VAL:CG1	1.49	1.41
22:JB:2258:G:H1'	22:JB:2306:A:C1'	1.48	1.41
1:AA:15:G:O2'	5:AE:17:ALA:CB	1.64	1.41
22:BB:1397:A:C2	22:BB:1418:C:N4	1.89	1.41
22:BB:2470:U:C2	22:BB:2548:G:O3'	1.74	1.41
22:BB:2725:C:C2	28:BH:143:GLN:OE1	1.71	1.41
22:DB:857:U:C2	22:DB:946:U:O2	1.72	1.41
22:JB:1148:G:H4'	31:JK:133:GLY:CA	1.48	1.41
22:JB:2685:A:H4'	35:JO:64:ARG:NH2	1.16	1.41
22:DB:2039:G:H21	48:D2:3:LYS:C	1.21	1.41
22:DB:2713:A:H61	25:DE:203:LYS:NZ	1.06	1.41
22:DB:2661:G:C5	25:DE:11:MET:CA	2.03	1.41
22:FB:1673:C:C6	25:FE:136:ARG:NH2	1.89	1.41
1:GA:323:U:O2'	20:GT:19:SER:CA	1.65	1.41
22:HB:2760:G:C2	31:HK:149:LYS:NZ	1.86	1.41
22:JB:2209:G:O3'	47:J1:39:VAL:CG2	1.68	1.41
22:JB:2842:C:N4	37:JQ:28:ARG:HA	1.30	1.41
22:JB:2851:G:O3'	37:JQ:8:ASN:CB	1.66	1.41
22:BB:2859:U:O5'	48:B2:52:TYR:CE1	1.73	1.40
1:EA:391:G:C5'	16:EP:8:ARG:NH2	1.79	1.40
22:FB:114:C:C4'	50:F4:19:ARG:NH1	1.79	1.40
13:GM:88:ARG:HB3	13:GM:98:VAL:CG1	1.50	1.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:HB:2365:U:C1'	44:HX:37:LEU:HD21	1.48	1.40
22:JB:205:A:H5'	33:JM:144:GLU:CB	1.46	1.40
1:AA:179:A:C4'	20:GT:100:ILE:CG2	1.99	1.40
1:CA:523:A:N6	12:CL:91:LYS:N	1.69	1.40
1:EA:435:C:O2'	4:ED:156:GLU:CG	1.67	1.40
22:FB:24:G:C4'	40:FT:98:ASP:HB3	1.48	1.40
1:GA:778:G:N3	11:GK:120:ARG:HD3	1.11	1.40
1:GA:222:U:O2'	20:GT:68:LYS:CG	1.66	1.40
1:IA:1225:A:N6	13:IM:104:ARG:HH22	0.92	1.40
22:JB:1468:A:N1	35:JO:80:MET:HG2	1.13	1.40
1:GA:273:A:N3	17:GQ:15:MET:HB3	1.21	1.40
1:GA:836:G:OP2	18:GR:61:LYS:CE	1.68	1.40
1:GA:1225:A:C5'	13:GM:103:THR:H	1.31	1.40
1:IA:718:G:C5	18:IR:81:PHE:CZ	2.06	1.40
22:JB:634:G:N7	33:JM:98:LEU:HD11	1.16	1.40
22:BB:2760:G:N2	31:BK:150:VAL:HG13	1.26	1.40
1:CA:529:G:O6	12:CL:48:PRO:CG	1.67	1.40
22:FB:2715:C:N3	22:FB:2749:A:N1	1.67	1.40
1:GA:958:A:C6	19:GS:77:THR:HG23	1.57	1.40
22:HB:2789:U:O4'	48:H2:30:LEU:CD1	1.68	1.40
22:HB:2861:A:C2	48:H2:40:LYS:HB3	1.57	1.40
22:JB:677:G:H2'	22:JB:678:G:C8	1.56	1.40
10:AJ:65:LEU:CB	14:AN:56:VAL:HG22	1.48	1.40
22:BB:1805:G:H4'	24:BD:44:ASN:N	1.16	1.40
22:BB:543:G:C4'	38:BR:41:ASN:OD1	1.67	1.40
1:CA:780:A:O2'	1:CA:1523:G:C4'	1.68	1.40
1:CA:780:A:O3'	1:CA:1523:G:C5'	1.67	1.40
1:CA:739:C:O2	15:CO:42:HIS:CE1	1.75	1.40
22:DB:219:G:C5'	51:D5:62:LEU:HD13	1.48	1.40
22:DB:675:C:O3'	33:DM:26:THR:CA	1.66	1.40
1:EA:598:U:O2'	8:EH:95:VAL:CG2	1.69	1.40
22:FB:1072:U:C2	30:FJ:11:GLN:HG3	1.55	1.40
1:IA:932:C:H4'	7:IG:4:ARG:NE	1.29	1.40
1:IA:1225:A:N6	13:IM:104:ARG:NH2	1.66	1.40
22:JB:2464:G:C2'	34:JN:123:GLY:HA2	1.51	1.40
22:JB:63:A:H1'	41:JU:62:ARG:CB	1.50	1.40
22:BB:2334:C:H4'	44:BX:21:LEU:CG	1.49	1.40
1:CA:1148:U:H4'	9:CI:66:ARG:NH2	1.35	1.40
1:CA:587:G:C5'	8:CH:3:THR:O	1.66	1.40
22:DB:2710:C:C5'	25:DE:169:ASN:OD1	1.68	1.40
22:HB:1338:G:C4	40:HT:107:ILE:CG2	2.05	1.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:HB:1381:G:OP1	50:H4:25:LYS:CG	1.67	1.40
22:BB:1374:G:OP1	47:B1:52:THR:CG2	1.68	1.40
22:DB:2063:A:P	47:D1:20:VAL:HG11	1.62	1.40
34:DN:38:MET:HB2	43:DW:74:ARG:CD	0.93	1.40
22:FB:15:G:N2	48:F2:18:MET:HE3	1.10	1.40
33:FM:63:ARG:NH2	51:F5:9:MET:HE3	1.17	1.40
22:FB:1405:A:N7	41:FU:15:LYS:HE3	1.34	1.40
22:FB:2591:C:O2	48:F2:2:ALA:CB	1.69	1.40
22:FB:64:C:N4	41:FU:65:VAL:H	1.10	1.40
22:FB:470:U:O2'	41:FU:68:PHE:CE2	1.70	1.40
1:IA:922:G:H1'	5:IE:19:MET:SD	1.59	1.40
22:JB:1813:A:H4'	24:JD:157:ARG:NH2	1.37	1.40
22:JB:543:G:C5'	38:JR:22:LYS:HZ2	1.35	1.40
1:AA:521:G:C6	12:AL:49:ASN:OD1	1.73	1.40
1:AA:15:G:C2'	5:AE:17:ALA:HB3	1.48	1.40
23:BA:78:A:N3	43:BW:22:VAL:HG21	1.07	1.40
1:EA:880:C:P	12:EL:7:ILE:CB	2.07	1.40
13:GM:86:CYS:CA	19:GS:74:PHE:CD2	2.04	1.40
22:JB:2209:G:H4'	47:J1:39:VAL:CA	1.49	1.40
22:JB:3178:C:C2'	53:J7:39:ILE:CD1	1.98	1.40
22:BB:1817:U:H5''	24:BD:224:SER:N	1.32	1.40
1:CA:15:G:H21	5:CE:18:ARG:N	1.12	1.40
1:EA:583:A:C4'	17:EQ:90:ILE:CG2	2.00	1.40
38:FR:47:TYR:CB	39:FS:74:TYR:CB	1.99	1.40
1:GA:108:G:C6	20:GT:15:ARG:HD2	1.54	1.40
22:HB:673:G:H5''	26:HF:93:TYR:CD1	1.55	1.40
1:IA:1117:G:N3	9:II:106:ALA:CB	1.83	1.40
23:JA:14:C:C6	44:JX:53:MET:CA	2.05	1.40
22:JB:1998:A:H2'	48:J2:3:LYS:CB	1.05	1.40
23:BA:106:U:C1'	43:BW:88:TYR:CD1	2.03	1.39
22:BB:157:G:H4'	50:B4:36:ALA:CB	1.52	1.39
1:CA:275:G:C4'	17:CQ:14:LYS:HB3	0.94	1.39
1:EA:586:C:OP1	8:EH:91:ARG:CA	1.67	1.39
34:FN:27:TYR:CB	43:FW:73:LYS:CG	1.98	1.39
1:IA:640:A:O2'	8:IH:127:LEU:CD1	1.70	1.39
1:AA:323:U:H2'	20:AT:15:ARG:NH1	1.08	1.39
22:BB:505:G:C2'	40:BT:82:ASN:HB2	1.50	1.39
22:BB:1674:C:P	25:BE:134:TRP:HB3	1.61	1.39
1:CA:985:C:O2'	19:CS:55:LYS:CE	1.66	1.39
22:DB:1581:C:C5	24:DD:28:ARG:NH1	1.74	1.39
22:DB:869:C:O2'	44:DX:24:LYS:CE	1.68	1.39

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:FB:2767:C:O2	25:FE:61:LYS:CE	1.70	1.39
1:GA:580:U:C4'	15:GO:57:LEU:CD2	1.95	1.39
1:GA:927:G:N2	1:GA:1532:U:H4'	1.25	1.39
22:HB:941:U:OP1	46:HZ:23:LEU:CA	1.68	1.39
22:BB:1044:U:H5	52:B6:15:LYS:CA	1.34	1.39
22:BB:2334:C:N1	44:BX:32:LYS:HE3	1.10	1.39
22:DB:1234:C:H5''	39:DS:68:LYS:NZ	1.07	1.39
22:DB:2464:G:C4	34:DN:120:ARG:NH1	1.87	1.39
23:FA:78:A:H4'	43:FW:13:LYS:CD	1.38	1.39
22:FB:2551:A:N6	25:FE:144:ARG:HB2	1.18	1.39
22:HB:490:A:C5'	42:HV:3:ARG:CB	1.98	1.39
22:HB:2741:G:H1'	28:HH:143:GLN:NE2	1.26	1.39
1:IA:1148:U:OP1	9:II:14:VAL:CG1	1.65	1.39
22:JB:1173:G:C4'	39:JS:91:THR:H	0.97	1.39
22:JB:2241:U:C5	44:JX:14:ARG:O	1.74	1.39
12:AL:11:VAL:HG22	17:AQ:29:HIS:CD2	1.58	1.39
22:BB:575:U:O4	39:BS:79:GLN:CG	1.68	1.39
22:BB:755:C:H4'	25:BE:129:HIS:NE2	1.09	1.39
25:BE:51:TYR:CE1	37:BQ:5:ILE:CG1	2.05	1.39
22:FB:2372:A:H1'	33:FM:59:ARG:CG	1.51	1.39
22:HB:3166:G:N7	53:H7:98:ARG:NE	1.69	1.39
22:JB:348:U:C4'	42:JV:13:LYS:CD	2.01	1.39
22:JB:1583:A:C1'	24:JD:84:TYR:HE1	1.35	1.39
25:BE:51:TYR:HE1	37:BQ:5:ILE:CG1	1.34	1.39
22:DB:413:G:N7	47:D1:63:PHE:HD1	1.19	1.39
22:DB:2039:G:C1'	48:D2:5:PRO:CD	1.82	1.39
22:DB:1040:A:H4'	34:DN:125:LYS:NZ	1.10	1.39
34:DN:99:LYS:CE	43:DW:73:LYS:NZ	1.83	1.39
34:DN:99:LYS:CG	43:DW:73:LYS:NZ	1.82	1.39
1:GA:264:U:C2'	17:GQ:64:PRO:O	1.69	1.39
22:HB:3166:G:N7	53:H7:98:ARG:CZ	1.86	1.39
22:HB:1789:U:C5'	24:HD:257:LEU:HD13	1.50	1.39
1:IA:597:G:N2	8:IH:131:GLY:HA2	1.13	1.39
1:IA:675:A:C6	11:IK:116:HIS:HB2	1.57	1.39
1:IA:707:C:H5''	11:IK:85:ARG:NH1	1.10	1.39
22:JB:1379:A:OP1	47:J1:1:MET:CE	1.69	1.39
22:JB:1747:G:C6	37:JQ:125:MET:O	1.75	1.39
22:BB:891:A:C2	22:BB:909:C:O2	1.75	1.39
1:EA:238:G:H5''	17:EQ:38:ARG:NH2	1.07	1.39
22:FB:2462:C:O2'	34:FN:50:ALA:CB	1.69	1.39
22:HB:48:A:H61	22:HB:153:A:N6	1.19	1.39

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:HB:1861:G:H1'	53:H7:199:ASN:CB	1.50	1.39
22:HB:2365:U:C4'	44:HX:37:LEU:HD11	1.52	1.39
1:IA:538:G:C8	12:IL:115:LYS:HE2	1.44	1.39
22:DB:1581:C:H5	24:DD:28:ARG:NH1	0.89	1.39
32:DL:86:GLY:CA	37:DQ:84:ALA:HB2	1.53	1.39
22:DB:865:A:H1'	46:DZ:39:ALA:CB	1.51	1.39
22:FB:2284:U:C1'	27:FG:152:MET:H	1.33	1.39
22:HB:918:A:H5'	43:HW:118:HIS:CD2	1.53	1.39
22:JB:2209:G:C4'	47:J1:40:HIS:H	1.30	1.39
22:JB:1074:G:N3	30:JJ:88:SER:HB2	1.37	1.39
1:AA:949:A:H5''	13:AM:102:ARG:NH2	1.37	1.39
22:BB:1401:G:N1	22:BB:1413:U:C4	1.87	1.39
22:BB:2365:U:C1'	44:BX:37:LEU:HD11	1.50	1.39
22:DB:704:G:C5'	24:DD:218:LYS:NZ	1.85	1.39
22:DB:574:C:C5	39:DS:79:GLN:OE1	1.76	1.39
1:EA:865:A:OP1	1:EA:1078:U:C4	1.76	1.39
10:EJ:63:PHE:N	14:EN:59:ALA:HB3	1.10	1.39
22:FB:1411:C:H2'	22:FB:1412:C:C6	1.56	1.39
38:FR:87:ASN:CB	39:FS:52:GLY:HA3	1.52	1.39
1:AA:276:G:H21	17:AQ:68:ARG:NH1	1.17	1.39
22:BB:2265:A:C6	49:B3:38:LYS:HE3	1.58	1.39
22:BB:1806:G:H1'	24:BD:52:ARG:NH2	1.33	1.39
33:DM:50:GLU:OE2	51:D5:58:MET:CG	1.70	1.39
22:DB:2710:C:H4'	25:DE:169:ASN:CG	1.03	1.39
22:FB:1292:A:C5'	35:FO:33:ARG:CB	1.75	1.39
22:HB:2334:C:C1'	44:HX:32:LYS:HE3	1.53	1.39
22:HB:3093:C:H1'	22:HB:2181:A:C6	1.55	1.39
1:IA:751:U:C4'	15:IO:77:ARG:HH12	1.35	1.39
22:JB:797:A:C5	24:JD:229:VAL:HG21	1.58	1.39
1:AA:712:A:H4'	24:BD:182:LEU:CD1	1.50	1.39
22:HB:2861:A:C4	48:H2:31:THR:CG2	2.06	1.39
38:JR:47:TYR:CG	39:JS:75:LYS:O	1.73	1.39
13:AM:86:CYS:SG	13:AM:92:HIS:CD2	2.14	1.38
22:DB:176:A:N7	47:D1:30:GLU:HB3	1.38	1.38
22:DB:2733:A:N3	52:D6:15:LYS:HE2	1.10	1.38
23:FA:116:C:C1'	36:FP:50:THR:CG2	2.01	1.38
22:HB:2448:A:O4'	34:HN:57:ARG:CD	1.66	1.38
34:HN:66:TYR:CE1	43:HW:115:ILE:HG13	1.52	1.38
1:AA:276:G:N2	17:AQ:68:ARG:HH12	1.21	1.38
1:AA:323:U:C2'	20:AT:15:ARG:HH12	1.35	1.38
22:BB:2714:A:H1'	25:BE:205:SER:CB	1.51	1.38

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:BB:2723:C:H1'	28:BH:150:LYS:CD	1.53	1.38
23:BA:93:G:C4'	34:BN:23:LYS:NZ	1.85	1.38
22:BB:2343:C:C5'	44:BX:40:GLN:HB2	1.51	1.38
22:DB:865:A:C4	46:DZ:39:ALA:CB	2.03	1.38
22:FB:2752:C:C4'	25:FE:166:THR:HB	1.54	1.38
22:HB:2550:C:O2'	25:HE:144:ARG:CG	1.68	1.38
1:IA:588:G:OP1	8:IH:31:PHE:CZ	1.74	1.38
1:IA:1117:G:C4	9:II:106:ALA:HB2	1.56	1.38
22:JB:2852:G:P	37:JQ:8:ASN:HB2	1.63	1.38
22:BB:1091:C:C4'	30:BJ:125:ASN:HB2	1.54	1.38
22:BB:2470:U:C4	22:BB:2548:G:O2'	1.69	1.38
22:FB:3875:A:C8	53:F7:43:LYS:HG2	1.56	1.38
22:FB:2786:G:C4'	25:FE:59:VAL:HG13	0.90	1.38
22:HB:1265:G:O6	38:HR:36:PHE:CE1	1.74	1.38
22:BB:226:C:H5	47:B1:28:ARG:NH2	0.92	1.38
23:DA:9:G:H4'	36:DP:32:TYR:CZ	1.55	1.38
34:DN:38:MET:CB	43:DW:74:ARG:HD2	0.92	1.38
1:GA:735:C:C1'	18:GR:75:ILE:HD12	1.53	1.38
22:HB:1376:C:C6	47:H1:3:LYS:HA	1.57	1.38
22:DB:1111:C:H1'	28:DH:168:GLN:NE2	1.31	1.38
12:EL:16:GLU:CG	12:EL:19:ARG:HH21	1.36	1.38
22:FB:2556:A:C2	48:F2:5:PRO:HD2	1.58	1.38
22:FB:230:C:N4	51:F5:4:MET:HG3	1.25	1.38
22:FB:1292:A:H5'	35:FO:33:ARG:CB	1.11	1.38
22:FB:1394:G:N3	22:FB:1588:A:C6	1.89	1.38
22:FB:2372:A:O2'	33:FM:59:ARG:CA	1.72	1.38
22:FB:58:C:O4'	22:FB:72:A:C6	1.73	1.38
22:HB:2862:G:H21	48:H2:30:LEU:CG	1.36	1.38
22:HB:2760:G:N2	31:HK:149:LYS:NZ	1.65	1.38
12:IL:11:VAL:CB	17:IQ:36:ILE:HG23	1.53	1.38
10:AJ:47:PHE:CE1	14:AN:56:VAL:HG11	1.41	1.38
22:BB:1809:G:H5'	24:BD:63:ARG:CZ	1.54	1.38
23:BA:107:C:C5'	43:BW:89:GLY:CA	2.00	1.38
1:CA:620:C:C4'	4:CD:138:TYR:CE1	2.06	1.38
22:DB:2411:A:C4	47:D1:27:THR:CB	1.75	1.38
13:CM:9:ILE:CD1	27:DG:144:ASP:OD1	1.69	1.38
22:DB:970:A:N1	34:DN:83:ARG:NH2	1.70	1.38
22:FB:457:C:C5'	38:FR:3:ARG:HD3	1.50	1.38
1:GA:60:A:N6	20:GT:12:ALA:HB2	1.35	1.38
1:GA:969:A:C2	13:GM:126:LYS:HD2	1.56	1.38
22:JB:1468:A:N1	35:JO:80:MET:CG	1.86	1.38

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:BW:48:THR:CG2	43:BW:130:ILE:O	1.70	1.38
1:GA:580:U:H5'	15:GO:54:ARG:NE	1.32	1.38
22:HB:2862:G:N2	48:H2:30:LEU:HB3	1.12	1.38
1:IA:1226:C:C6	13:IM:104:ARG:HB2	1.57	1.38
22:JB:2209:G:H4'	47:J1:40:HIS:N	1.33	1.38
22:JB:348:U:C3'	42:JV:13:LYS:HD3	1.52	1.38
1:AA:108:G:O2'	20:AT:12:ALA:CB	1.71	1.38
1:CA:436:C:C5'	4:CD:156:GLU:HB3	1.53	1.38
1:EA:261:U:OP1	20:ET:72:LEU:CD2	1.70	1.38
1:IA:684:A:C5'	11:IK:38:ASN:HD22	1.37	1.38
22:BB:596:C:N1	33:BM:29:THR:HG21	1.37	1.38
22:BB:886:A:C2'	43:BW:167:THR:CB	2.01	1.38
49:F3:24:THR:C	51:F5:35:GLY:HA2	1.43	1.38
22:HB:2862:G:N3	48:H2:30:LEU:CA	1.76	1.38
22:HB:95:G:O4'	45:HY:45:GLN:CG	1.70	1.38
22:JB:2003:A:H4'	38:JR:25:TRP:CZ3	0.87	1.38
1:AA:17:U:C5'	5:AE:16:THR:HB	1.50	1.38
1:AA:1398:A:C4	5:AE:21:ALA:CB	2.07	1.38
1:CA:15:G:H4'	5:CE:24:ARG:NH2	1.07	1.38
22:DB:2411:A:N3	47:D1:27:THR:CB	1.73	1.38
22:DB:574:C:C5'	39:DS:82:ARG:HH22	1.34	1.38
22:HB:917:U:O2'	43:HW:118:HIS:CD2	1.77	1.38
1:IA:1206:G:C4'	3:IC:193:TYR:HA	1.51	1.38
22:JB:205:A:C5'	33:JM:144:GLU:CB	2.01	1.38
22:JB:1129:A:C5'	43:JW:76:ARG:HH11	1.37	1.38
34:BN:106:GLU:HB2	43:BW:113:VAL:CG1	1.52	1.37
22:DB:699:G:C2	50:D4:5:TYR:HA	1.34	1.37
1:EA:1187:G:H1'	9:EI:111:ARG:NH2	1.11	1.37
22:FB:597:U:H1'	26:FF:84:PHE:CE2	1.59	1.37
22:FB:221:A:OP1	33:FM:67:ASN:ND2	1.57	1.37
22:HB:591:G:C5'	38:HR:11:ARG:HH22	1.28	1.37
22:JB:3094:A:O4'	29:JI:28:TRP:CZ3	1.76	1.37
1:AA:234:C:O2'	17:AQ:61:GLU:CG	1.65	1.37
5:AE:148:VAL:CB	8:AH:107:LEU:HB3	1.18	1.37
22:BB:2789:U:C2	48:B2:42:SER:HA	1.58	1.37
22:BB:2790:C:O2	48:B2:43:HIS:CE1	1.76	1.37
22:BB:2365:U:H5''	44:BX:39:ARG:NH1	1.25	1.37
1:CA:953:G:N2	13:CM:120:LYS:CG	1.85	1.37
22:DB:1263:G:H1'	38:DR:13:ARG:NH2	1.38	1.37
22:DB:2615:U:H1'	25:DE:79:ARG:CZ	1.42	1.37
22:DB:2767:C:H4'	25:DE:60:ASN:CB	1.24	1.37

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:GA:265:G:N3	17:GQ:64:PRO:HB3	1.09	1.37
22:HB:700:C:H5''	50:H4:4:THR:CA	1.52	1.37
22:HB:847:C:H5'	51:H5:55:TRP:CH2	1.57	1.37
1:IA:824:C:C1'	8:IH:3:THR:HG21	0.90	1.37
1:EA:880:C:OP2	12:EL:7:ILE:HG13	1.23	1.37
1:AA:612:C:O2'	4:AD:86:LYS:HE2	1.24	1.37
1:AA:1374:A:C2	7:AG:29:LYS:NZ	1.86	1.37
22:HB:941:U:C2	46:HZ:21:GLN:O	1.76	1.37
1:IA:815:A:C2'	1:IA:1526:G:N2	1.87	1.37
22:JB:1743:C:N4	37:JQ:125:MET:HA	1.18	1.37
22:BB:418:C:H5''	53:B7:1:MET:SD	1.63	1.37
22:DB:1804:U:H1'	24:DD:46:ARG:CB	1.52	1.37
34:DN:99:LYS:HG2	43:DW:73:LYS:CE	1.51	1.37
22:FB:1636:G:C5'	50:F4:1:MET:CE	1.91	1.37
12:AL:16:GLU:O	12:AL:17:LYS:N	1.57	1.37
22:BB:1805:G:N2	24:BD:51:SER:HB3	1.40	1.37
1:CA:1231:G:C8	13:CM:126:LYS:CE	2.08	1.37
1:CA:230:G:H4'	16:CP:26:ARG:NH2	1.38	1.37
1:EA:686:U:H1'	11:EK:42:TRP:CZ2	1.59	1.37
22:FB:1288:A:N6	35:FO:19:ALA:HB1	1.40	1.37
22:FB:1516:A:H1'	24:FD:98:ALA:CB	1.54	1.37
22:FB:347:C:C2	42:FV:10:HIS:CE1	2.09	1.37
10:GJ:51:ARG:HA	14:GN:45:ARG:NE	1.34	1.37
1:GA:958:A:C6	19:GS:77:THR:CG2	2.07	1.37
22:JB:2558:C:C5'	25:JE:132:LYS:HG2	1.51	1.37
22:BB:888:G:H1'	43:BW:165:GLU:CD	0.99	1.37
22:BB:596:C:C2	33:BM:29:THR:CG2	2.08	1.37
22:DB:886:A:C2	43:DW:166:LEU:HA	1.48	1.37
1:EA:922:G:N2	1:EA:1396:A:C6	1.93	1.37
22:FB:1752:U:O3'	22:FB:1753:A:P	0.97	1.37
38:FR:47:TYR:CG	39:FS:74:TYR:HB3	1.59	1.37
22:HB:2310:G:O2'	44:HX:70:ILE:CG2	1.69	1.37
43:JW:51:LEU:HB3	43:JW:128:ARG:CZ	1.53	1.37
22:DB:1237:G:C4'	39:DS:87:ARG:HB3	1.51	1.37
22:DB:2713:A:N6	25:DE:203:LYS:NZ	1.69	1.37
7:EG:13:GLN:HG3	9:EI:42:ARG:NH2	1.34	1.37
22:FB:1531:C:O2'	22:FB:1572:C:C1'	1.71	1.37
23:FA:116:C:C2'	36:FP:50:THR:HG22	1.50	1.37
1:GA:1226:C:N4	13:GM:104:ARG:NE	1.68	1.37
22:HB:489:A:O3'	42:HV:5:SER:CB	1.71	1.37
1:IA:684:A:N3	11:IK:39:PRO:HG2	1.19	1.37

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:JB:2851:G:C4'	37:JQ:8:ASN:OD1	1.73	1.37
22:JB:3167:U:C5'	53:J7:97:LYS:CE	2.01	1.37
1:AA:529:G:N2	12:AL:49:ASN:N	1.72	1.37
22:BB:886:A:N3	43:BW:167:THR:CG2	1.87	1.37
22:BB:542:A:O2'	38:BR:41:ASN:ND2	1.57	1.37
1:EA:598:U:C2'	8:EH:95:VAL:HG23	1.54	1.37
23:FA:62:C:P	36:FP:6:THR:HG21	1.63	1.37
22:FB:2258:G:H1'	22:FB:2306:A:C1'	1.55	1.37
22:HB:3167:U:C5	53:H7:98:ARG:HD3	1.59	1.37
22:HB:7:G:N1	22:HB:2870:C:N3	1.69	1.37
22:HB:1261:G:C5	38:HR:3:ARG:HB2	1.56	1.37
22:HB:489:A:C5'	42:HV:5:SER:HA	1.54	1.37
22:JB:1004:A:C1'	39:JS:88:GLN:OE1	1.70	1.37
34:JN:129:GLN:NE2	43:JW:74:ARG:NH1	1.66	1.37
22:JB:1172:U:C4'	39:JS:22:VAL:HG11	1.53	1.37
22:JB:468:A:C5'	41:JU:69:ILE:HD11	1.54	1.37
34:JN:107:VAL:CG2	43:JW:112:LEU:HB2	1.55	1.37
22:DB:865:A:C1'	46:DZ:39:ALA:CB	2.03	1.36
43:DW:67:LYS:HA	43:DW:128:ARG:NH1	1.35	1.36
1:EA:1225:A:C5'	13:EM:101:GLN:O	1.72	1.36
1:EA:391:G:H5''	16:EP:8:ARG:CZ	1.36	1.36
22:HB:57:G:C3'	22:HB:72:A:H62	1.38	1.36
1:IA:134:A:H61	16:IP:25:ARG:CZ	1.35	1.36
1:IA:637:G:P	17:IQ:5:VAL:HG21	1.63	1.36
22:JB:1781:C:H4'	24:JD:213:ARG:CZ	1.54	1.36
22:JB:1000:G:C8	46:JZ:10:ILE:HD11	1.58	1.36
22:BB:2557:G:H1'	25:BE:133:LYS:CD	1.52	1.36
22:BB:2766:U:C4'	25:BE:64:GLN:HB2	1.53	1.36
22:FB:468:A:OP2	41:FU:67:ARG:HD2	1.24	1.36
22:HB:60:A:C4'	45:HY:29:ARG:NH2	1.85	1.36
1:IA:1226:C:C5	13:IM:104:ARG:CB	2.08	1.36
22:JB:1996:A:H4'	40:JT:116:ILE:C	1.44	1.36
22:JB:857:U:C3'	22:JB:858:G:P	2.14	1.36
22:DB:1673:C:H5''	25:DE:136:ARG:CG	1.53	1.36
22:DB:1292:A:C5'	35:DO:33:ARG:CB	2.01	1.36
1:EA:1055:A:C2	3:EC:156:ARG:HD2	1.58	1.36
1:GA:323:U:C2'	20:GT:19:SER:HB3	1.35	1.36
22:HB:1378:A:H5'	47:H1:11:PRO:CG	1.51	1.36
22:JB:2210:C:C5'	47:J1:39:VAL:CG2	2.01	1.36
22:JB:2463:G:H21	34:JN:120:ARG:CD	1.38	1.36
1:AA:668:G:C2	15:AO:46:HIS:CE1	2.12	1.36

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:DA:105:G:H4'	43:DW:91:PRO:CB	1.54	1.36
22:DB:1992:G:H5''	40:DT:62:ARG:CB	1.54	1.36
1:EA:1060:C:O5'	3:EC:2:GLY:HA3	1.23	1.36
1:EA:640:A:H2'	8:EH:116:LYS:CB	1.55	1.36
22:FB:2263:C:C5'	49:F3:8:ILE:HD11	1.53	1.36
22:FB:1586:A:N6	22:FB:1587:A:C2	1.93	1.36
22:FB:980:G:H5'	46:FZ:13:PRO:CA	1.54	1.36
1:AA:1077:G:N1	5:AE:45:PHE:CE2	1.93	1.36
22:BB:2219:U:OP1	24:BD:229:VAL:CG1	1.73	1.36
22:BB:6:A:N1	22:BB:2871:U:N3	1.72	1.36
22:BB:891:A:C2	22:BB:909:C:C2	2.13	1.36
23:FA:116:C:C4'	36:FP:50:THR:CG2	2.02	1.36
43:FW:51:LEU:CD1	43:FW:128:ARG:NH2	1.86	1.36
22:HB:48:A:N6	22:HB:153:A:N6	1.74	1.36
22:JB:1379:A:OP1	47:J1:1:MET:SD	0.98	1.36
22:JB:2636:A:OP2	28:JH:181:GLY:CA	1.74	1.36
22:BB:2461:G:C6	34:BN:54:VAL:HG12	1.60	1.36
22:DB:2790:C:O2'	48:D2:43:HIS:CE1	1.74	1.36
1:EA:1308:U:C3'	13:EM:99:ARG:NH1	1.88	1.36
22:FB:597:U:H5'	33:FM:28:LYS:CD	1.55	1.36
22:FB:7:G:C5'	31:FK:160:ALA:O	1.73	1.36
1:GA:1496:C:O2	22:HB:1902:A:C2	1.77	1.36
22:HB:2240:C:OP2	44:HX:14:ARG:HG2	1.25	1.36
22:HB:699:G:C2'	50:H4:5:TYR:O	1.71	1.36
22:HB:1954:A:C8	24:HD:239:ARG:HA	1.58	1.36
1:IA:824:C:C1'	8:IH:3:THR:CG2	1.84	1.36
23:JA:119:G:OP1	36:JP:55:SER:HB2	1.25	1.36
23:JA:49:C:O3'	36:JP:95:LYS:HG3	1.26	1.36
1:AA:518:C:H42	12:AL:47:LYS:CD	1.38	1.36
22:BB:2463:G:N2	34:BN:120:ARG:CG	1.83	1.36
23:DA:107:C:H5'	43:DW:88:TYR:CB	1.53	1.36
22:DB:1237:G:O3'	39:DS:87:ARG:CB	1.63	1.36
1:EA:518:C:H1'	12:EL:51:ALA:CA	1.56	1.36
1:EA:1100:C:C2'	2:EB:98:LEU:CD2	2.01	1.36
4:ED:205:GLU:HB3	5:EE:101:ILE:CB	1.54	1.36
22:FB:2713:A:C8	25:FE:204:ALA:O	1.78	1.36
22:FB:1275:A:OP2	40:FT:120:ARG:CZ	1.71	1.36
22:HB:2025:A:C8	31:HK:142:ARG:NH2	1.94	1.36
22:HB:506:G:C1'	40:HT:82:ASN:HA	1.52	1.36
1:IA:928:G:C1'	1:IA:1532:U:O2'	1.73	1.36
22:JB:219:G:N3	51:J5:4:MET:CA	1.89	1.36

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:BB:1805:G:C2'	24:BD:52:ARG:HH11	1.39	1.36
1:CA:1359:C:OP2	14:CN:35:ARG:HG2	1.23	1.36
34:DN:99:LYS:HE3	43:DW:73:LYS:NZ	1.36	1.36
22:FB:2796:A:OP2	25:FE:191:ALA:CB	1.74	1.36
22:FB:1021:A:C5'	38:FR:66:ASN:OD1	1.73	1.36
1:GA:932:C:H4'	7:GG:4:ARG:CD	1.55	1.36
34:HN:66:TYR:CG	43:HW:115:ILE:HG21	1.59	1.36
1:IA:707:C:C5'	11:IK:85:ARG:HH12	1.36	1.36
22:JB:491:A:H1'	42:JV:53:VAL:CG1	1.55	1.36
22:JB:74:G:H2'	45:JY:55:THR:CG2	1.54	1.36
22:JB:1200:G:C2'	39:JS:83:ARG:HH21	1.37	1.36
13:AM:81:LEU:HD12	13:AM:92:HIS:CE1	1.58	1.36
23:BA:106:U:H1'	43:BW:88:TYR:CD1	1.60	1.36
22:BB:2372:A:H4'	33:BM:60:LEU:CA	1.56	1.36
22:BB:596:C:C3'	33:BM:29:THR:CB	2.04	1.36
22:BB:1109:A:O3'	30:BJ:7:ILE:CD1	1.71	1.36
22:DB:1834:G:H1'	24:DD:244:ARG:CG	1.51	1.36
32:HL:83:ARG:NH1	37:HQ:81:PHE:CD2	1.94	1.36
1:IA:1186:G:C4'	9:II:110:GLU:OE2	1.72	1.36
22:JB:2669:C:H3'	35:JO:17:ARG:NH2	1.39	1.36
1:AA:1343:G:C4'	9:AI:122:ALA:HB3	1.56	1.36
1:AA:254:G:N3	17:AQ:16:GLN:HB3	1.35	1.36
22:DB:1041:G:C2	52:D6:5:SER:HB3	1.60	1.36
43:FW:88:TYR:H	43:FW:90:GLU:C	1.28	1.36
1:IA:1057:G:P	3:IC:163:ALA:HB2	1.66	1.36
34:BN:36:ILE:C	43:BW:74:ARG:HH22	1.24	1.35
22:DB:2735:C:N4	52:D6:35:ARG:NH2	1.71	1.35
22:DB:1292:A:H5'	35:DO:33:ARG:CB	1.56	1.35
25:FE:17:ASN:CA	37:FQ:87:LEU:HD11	1.54	1.35
1:IA:1228:C:H41	13:IM:104:ARG:CG	1.39	1.35
1:AA:1092:A:H5''	7:AG:4:ARG:CD	1.52	1.35
1:AA:254:G:O3'	17:AQ:45:HIS:CE1	1.78	1.35
22:DB:124:A:N7	50:D4:18:PHE:CE1	1.94	1.35
22:DB:219:G:H5''	51:D5:62:LEU:CD1	1.55	1.35
22:FB:969:U:H5	34:FN:21:ASP:CB	1.16	1.35
22:FB:2239:C:H3'	44:FX:14:ARG:CZ	1.55	1.35
1:GA:1225:A:H5'	13:GM:103:THR:N	1.41	1.35
22:HB:2399:C:P	51:H5:32:GLN:HB2	1.55	1.35
1:AA:332:G:C4'	20:AT:13:LEU:HD11	1.56	1.35
22:BB:625:A:H4'	26:BF:38:ARG:CD	1.56	1.35
22:BB:887:G:C8	43:BW:167:THR:CG2	2.09	1.35

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:BB:596:C:C3'	33:BM:29:THR:HB	1.55	1.35
1:CA:529:G:C6	12:CL:48:PRO:CG	2.07	1.35
22:DB:2328:G:H5''	51:D5:42:ARG:NH1	1.38	1.35
22:DB:574:C:C5'	39:DS:82:ARG:NH2	1.87	1.35
1:EA:537:G:C5'	12:EL:113:ARG:CZ	2.05	1.35
22:FB:597:U:H5'	33:FM:28:LYS:CE	1.55	1.35
1:GA:274:A:H5''	17:GQ:14:LYS:CG	1.54	1.35
22:HB:2372:A:C1'	33:HM:60:LEU:H	1.39	1.35
1:IA:1147:C:C1'	9:II:16:ARG:NH2	1.74	1.35
43:JW:84:TYR:CE2	43:JW:92:VAL:CG2	2.08	1.35
1:AA:323:U:C2'	20:AT:15:ARG:NH1	1.87	1.35
1:CA:520:A:N7	12:CL:51:ALA:HB2	1.30	1.35
1:CA:932:C:C5	7:CG:3:ARG:NH1	1.89	1.35
22:DB:2598:C:O2	25:DE:154:LYS:NZ	1.57	1.35
22:DB:2856:U:C4'	35:DO:93:GLY:CA	1.99	1.35
22:DB:2760:G:C4'	31:DK:149:LYS:HD2	1.51	1.35
1:EA:1273:G:O5'	1:IA:1265:G:C5'	1.73	1.35
1:GA:1373:G:C5'	7:GG:36:LYS:H	1.38	1.35
1:GA:734:G:H4'	18:GR:71:LYS:NZ	1.39	1.35
23:JA:14:C:C6	44:JX:53:MET:N	1.94	1.35
22:JB:320:A:H4'	42:JV:30:LYS:CB	1.55	1.35
1:AA:1345:U:H5''	9:AI:120:ARG:NH2	1.35	1.35
1:AA:509:A:C4	4:AD:54:TYR:HE2	1.44	1.35
22:DB:507:A:P	40:DT:20:LEU:HA	1.65	1.35
1:EA:958:A:C6	19:ES:56:GLN:CG	2.09	1.35
1:AA:179:A:C4	20:GT:99:LEU:O	1.80	1.35
22:HB:1276:U:C1'	48:H2:10:LYS:HE3	1.57	1.35
22:HB:2448:A:C1'	34:HN:57:ARG:HD3	1.34	1.35
1:IA:673:G:C5'	6:IF:87:ARG:CZ	2.05	1.35
1:IA:718:G:C6	18:IR:81:PHE:CE2	2.15	1.35
22:JB:2578:G:N7	24:JD:235:GLY:O	1.57	1.35
22:JB:1148:G:C4'	31:JK:133:GLY:HA3	1.56	1.35
22:JB:1197:U:H5''	46:JZ:26:ARG:NH2	1.40	1.35
22:BB:505:G:C1'	40:BT:82:ASN:HB2	1.55	1.35
22:DB:2661:G:C5	25:DE:11:MET:HA	1.59	1.35
1:EA:621:A:C5'	4:ED:139:ARG:HE	1.37	1.35
22:FB:1269:G:N3	26:FF:76:THR:HG23	1.08	1.35
23:FA:62:C:OP1	36:FP:6:THR:CG2	1.75	1.35
22:HB:1043:A:C4'	52:H6:23:VAL:HG23	1.55	1.35
22:JB:868:U:O2	44:JX:25:LYS:CE	1.75	1.35
22:JB:593:C:OP1	38:JR:5:LYS:HA	1.20	1.35

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:JB:338:G:H2'	42:JV:77:HIS:CE1	1.59	1.35
22:BB:2372:A:C4'	33:BM:60:LEU:HA	1.53	1.35
1:CA:1298:C:C5	7:CG:114:ARG:CD	2.06	1.35
22:DB:2645:C:C5	28:DH:109:TYR:CE2	2.12	1.35
1:EA:865:A:OP1	1:EA:1078:U:N3	1.60	1.35
22:FB:2448:A:C1'	34:FN:57:ARG:HD3	1.56	1.35
22:HB:1805:G:N2	24:HD:51:SER:HB3	1.39	1.35
22:HB:2629:U:C4'	32:HL:29:ILE:CD1	2.02	1.35
22:JB:2208:U:N3	47:J1:42:PHE:HE1	1.21	1.35
22:JB:205:A:H5''	33:JM:144:GLU:CG	1.54	1.35
22:BB:1488:G:O6	22:BB:1536:G:N3	1.58	1.35
22:BB:2474:G:C4'	34:BN:83:ARG:CG	2.04	1.35
22:BB:2814:G:N2	35:BO:91:PRO:HB2	1.40	1.35
34:DN:66:TYR:CD2	43:DW:118:HIS:CE1	2.12	1.35
1:EA:1100:C:C5	2:EB:98:LEU:HD11	1.60	1.35
22:FB:1135:C:O2'	52:F6:4:ARG:CG	1.74	1.35
40:FT:56:LEU:CA	48:F2:28:PRO:CD	1.90	1.35
22:HB:3177:C:H4'	53:H7:163:PRO:CD	1.57	1.35
22:HB:504:G:C4'	40:HT:25:PHE:CD2	2.07	1.35
22:HB:2646:C:C2	28:HH:109:TYR:CB	1.78	1.35
22:JB:1204:G:C5'	33:JM:37:GLN:OE1	1.74	1.35
22:JB:3103:A:H5''	53:J7:37:LYS:CG	1.54	1.35
1:AA:932:C:C3'	7:AG:3:ARG:HD3	1.54	1.35
22:BB:1109:A:O3'	30:BJ:7:ILE:HD12	1.23	1.35
22:BB:1805:G:H21	24:BD:51:SER:C	1.26	1.35
22:BB:1809:G:C5'	24:BD:63:ARG:NH1	1.88	1.35
22:DB:1401:G:N1	22:DB:1413:U:N3	1.69	1.35
22:DB:2025:A:H62	31:DK:142:ARG:CZ	1.37	1.35
22:DB:869:C:C4'	44:DX:56:ASP:OD2	1.73	1.35
22:DB:2463:G:N2	34:DN:120:ARG:HD3	1.04	1.35
22:FB:1:G:N1	22:FB:2876:C:N3	1.75	1.35
10:GJ:51:ARG:CG	14:GN:45:ARG:NH1	1.89	1.35
40:JT:44:VAL:CG2	48:J2:20:ARG:HH22	1.38	1.35
22:JB:2003:A:O3'	38:JR:25:TRP:CH2	1.75	1.35
40:JT:44:VAL:HG23	48:J2:20:ARG:NH2	1.40	1.35
1:CA:520:A:C5'	12:CL:52:LEU:O	1.74	1.35
22:DB:2661:G:C4	25:DE:11:MET:C	1.99	1.35
22:DB:318:G:O3'	40:DT:12:LYS:HE3	1.22	1.35
22:DB:967:G:C5'	34:DN:76:THR:O	1.74	1.35
23:FA:116:C:H4'	36:FP:50:THR:CB	1.57	1.35
22:FB:1007:A:OP2	38:FR:94:VAL:CG2	1.75	1.35

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:HB:3093:C:C1'	22:HB:2181:A:N6	1.89	1.35
22:HB:1815:G:OP1	24:HD:54:ILE:CB	1.72	1.35
22:HB:1584:G:H5'	24:HD:59:LYS:CE	1.52	1.35
22:HB:2629:U:C5'	32:HL:29:ILE:CD1	2.02	1.35
1:IA:675:A:C4	11:IK:116:HIS:CD2	2.14	1.35
1:IA:376:G:C4'	16:IP:28:ARG:HH12	1.36	1.35
22:BB:2557:G:C1'	25:BE:133:LYS:HD3	1.56	1.34
22:BB:2600:A:O3'	25:BE:159:HIS:HB2	1.20	1.34
1:CA:827:U:H5''	8:CH:21:LYS:CE	1.55	1.34
22:DB:3093:C:H5'	29:DI:21:LYS:C	1.43	1.34
22:FB:156:G:H2'	22:FB:157:G:C8	1.62	1.34
1:AA:108:G:C2'	20:AT:12:ALA:CB	2.04	1.34
1:AA:1350:A:P	9:AI:121:ARG:CG	2.14	1.34
22:BB:51:A:C6	22:BB:116:A:C2	2.15	1.34
1:CA:435:C:O2'	4:CD:156:GLU:CG	1.74	1.34
22:DB:2661:G:C4	25:DE:11:MET:CA	2.09	1.34
34:DN:99:LYS:CE	43:DW:73:LYS:HZ3	1.37	1.34
22:HB:544:U:OP2	38:HR:22:LYS:CD	1.74	1.34
22:BB:503:G:N2	40:BT:74:SER:OG	1.57	1.34
22:DB:643:A:H4'	33:DM:66:ASN:O	1.24	1.34
22:FB:114:C:C4'	50:F4:19:ARG:HH12	1.35	1.34
22:FB:2551:A:C5	25:FE:144:ARG:HB3	1.60	1.34
27:FG:179:LYS:HD3	1:IA:1021:G:C4'	1.06	1.34
1:GA:1226:C:H41	13:GM:104:ARG:CG	1.36	1.34
22:HB:1129:A:H4'	43:HW:76:ARG:NH1	1.03	1.34
1:IA:1226:C:C5	13:IM:104:ARG:HB2	1.60	1.34
22:JB:1810:U:C2'	24:JD:154:GLN:HE22	1.23	1.34
1:AA:612:C:O2'	4:AD:86:LYS:CE	1.74	1.34
1:AA:740:U:C2	15:AO:42:HIS:HE1	1.44	1.34
22:DB:1043:A:C5'	52:D6:23:VAL:HG21	1.56	1.34
22:DB:869:C:H1'	44:DX:24:LYS:CG	1.58	1.34
22:DB:2289:A:N3	27:DG:77:PHE:CE2	1.92	1.34
1:EA:1187:G:C1'	9:EI:111:ARG:NH2	1.90	1.34
22:FB:114:C:C5'	50:F4:19:ARG:NH1	1.78	1.34
22:FB:2615:U:O5'	25:FE:79:ARG:CG	1.69	1.34
22:FB:6:A:N3	31:FK:162:LYS:CE	1.88	1.34
22:FB:3093:C:C5'	29:FI:21:LYS:CA	1.76	1.34
1:GA:925:G:H21	1:GA:1503:A:P	1.51	1.34
22:HB:1998:A:C6	48:H2:7:PRO:HD3	1.59	1.34
22:JB:1405:A:N7	41:JU:15:LYS:CE	1.88	1.34
33:JM:61:PRO:HA	51:J5:27:SER:CB	1.58	1.34

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:932:C:C5'	7:CG:3:ARG:CB	2.04	1.34
22:DB:680:U:H5''	33:DM:48:PHE:CD1	1.62	1.34
22:FB:1162:A:H1'	38:FR:78:THR:CG2	1.57	1.34
22:FB:2399:C:H3'	51:F5:32:GLN:CB	1.56	1.34
38:FR:91:ASN:ND2	39:FS:10:LYS:CG	1.90	1.34
1:GA:969:A:N1	13:GM:126:LYS:HD2	1.02	1.34
22:JB:226:C:N4	22:JB:2374:C:H4'	1.41	1.34
1:AA:60:A:C8	20:AT:11:SER:CB	2.03	1.34
1:AA:658:G:C5'	15:AO:8:LYS:HZ2	1.40	1.34
1:AA:1239:A:H3'	7:AG:115:ARG:CG	1.56	1.34
1:AA:932:C:C3'	7:AG:3:ARG:CD	2.01	1.34
1:CA:1229:A:N7	13:CM:120:LYS:CA	1.79	1.34
22:DB:2463:G:H4'	34:DN:47:GLN:OE1	1.20	1.34
1:EA:826:C:H1'	8:EH:15:ASN:CG	1.35	1.34
22:FB:1062:G:N2	22:FB:1119:U:H3	1.24	1.34
22:FB:1322:G:C1'	50:F4:7:PRO:HG3	1.52	1.34
22:FB:2025:A:N7	31:FK:142:ARG:NH2	1.73	1.34
38:FR:47:TYR:HD1	39:FS:74:TYR:CG	1.44	1.34
1:GA:1291:G:H5''	7:GG:41:ARG:NH1	1.01	1.34
22:HB:1998:A:C5	48:H2:7:PRO:HD2	1.63	1.34
1:IA:1439:C:OP1	20:IT:38:LYS:HE3	1.25	1.34
22:JB:3171:A:O2'	53:J7:105:ARG:HD3	1.19	1.34
1:AA:958:A:C2	19:AS:56:GLN:HG2	1.60	1.34
22:BB:3866:A:C3'	53:B7:43:LYS:HA	1.58	1.34
22:DB:2249:U:H5''	44:DX:18:PRO:CG	1.58	1.34
22:FB:1829:C:H5'	22:FB:1911:A:C4'	1.57	1.34
22:HB:760:U:C5	48:H2:3:LYS:HD2	1.58	1.34
22:HB:917:U:O2'	43:HW:118:HIS:NE2	1.57	1.34
25:HE:52:ALA:O	37:HQ:5:ILE:CG1	1.75	1.34
22:HB:494:A:N9	42:HV:56:LYS:HG3	1.39	1.34
22:JB:16:G:H5'	48:J2:17:ASP:CA	1.56	1.34
1:AA:938:A:O2'	7:AG:95:ARG:NH2	1.58	1.34
22:BB:227:G:C4'	33:BM:55:ARG:HE	1.00	1.34
23:DA:105:G:C4'	43:DW:91:PRO:CA	2.03	1.34
1:AA:815:A:N1	1:AA:1529:G:H2'	1.43	1.34
1:AA:529:G:N2	12:AL:49:ASN:CG	1.78	1.34
22:BB:2334:C:H5'	44:BX:21:LEU:CD1	1.57	1.34
1:CA:407:G:C1'	4:CD:116:GLN:NE2	1.90	1.34
22:DB:413:G:N7	47:D1:63:PHE:CD1	1.95	1.34
22:DB:2395:C:OP2	33:DM:62:LYS:CB	1.74	1.34
22:FB:1411:C:C6	22:FB:1412:C:C5	1.93	1.34

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:FB:2628:C:O3'	32:FL:29:ILE:CD1	1.71	1.34
22:JB:3178:C:C2'	53:J7:39:ILE:HD12	1.53	1.34
22:JB:2338:C:O2'	33:JM:57:ILE:CD1	1.75	1.34
22:JB:2494:C:N3	22:JB:2548:G:N1	1.72	1.34
1:AA:529:G:C6	12:AL:48:PRO:HD2	1.27	1.34
22:BB:1416:A:H5''	22:BB:1485:U:C1'	1.46	1.34
22:BB:5:A:N1	22:BB:2872:U:N3	1.76	1.34
22:BB:1325:U:C5	41:BU:61:LYS:CG	2.10	1.34
22:DB:642:A:C2	33:DM:66:ASN:OD1	1.78	1.34
1:EA:958:A:C6	19:ES:56:GLN:HG2	1.62	1.34
22:FB:828:C:C5'	39:FS:86:HIS:CE1	2.11	1.34
22:FB:548:G:C1'	31:FK:33:ILE:HG22	1.55	1.34
1:GA:502:G:OP1	12:GL:116:SER:CA	1.74	1.34
22:HB:2591:C:H2'	48:H2:4:HIS:CA	1.56	1.34
22:JB:2464:G:O2'	34:JN:123:GLY:CA	1.75	1.34
22:JB:75:C:H1'	45:JY:55:THR:C	1.30	1.34
22:JB:2707:G:H4'	32:JL:82:LYS:CE	1.56	1.34
34:JN:32:ASP:CG	43:JW:117:VAL:HG23	0.97	1.34
22:BB:596:C:C2	33:BM:29:THR:HG21	1.59	1.33
23:BA:107:C:H4'	43:BW:89:GLY:N	1.29	1.33
32:DL:87:SER:HB2	37:DQ:83:PHE:CA	0.87	1.33
23:DA:107:C:H5'	43:DW:88:TYR:CA	1.58	1.33
1:EA:1104:G:H1'	2:EB:111:ARG:NE	1.41	1.33
22:FB:2490:U:H5''	25:FE:122:PHE:CE1	1.62	1.33
10:GJ:64:GLU:O	14:GN:56:VAL:CG1	1.73	1.33
22:JB:3121:G:P	53:J7:130:PRO:HD3	1.59	1.33
22:JB:490:A:H5'	42:JV:3:ARG:NH2	1.41	1.33
22:BB:2461:G:O6	34:BN:54:VAL:CG1	1.76	1.33
22:DB:1261:G:N1	38:DR:3:ARG:NH2	1.73	1.33
38:DR:47:TYR:HD1	39:DS:74:TYR:CG	1.46	1.33
13:EM:83:ASP:HB3	22:FB:900(A):A:OP1	1.22	1.33
22:FB:1003:C:C5'	38:FR:47:TYR:OH	1.74	1.33
22:FB:2448:A:H1'	34:FN:57:ARG:CD	1.57	1.33
25:FE:176:ARG:HH22	37:FQ:16:ILE:CD1	1.40	1.33
38:FR:44:THR:CA	39:FS:76:SER:CA	1.99	1.33
22:HB:1078:A:C2	30:HJ:23:VAL:HG13	1.62	1.33
3:IC:23:TYR:CD2	10:IJ:93:GLY:CA	2.11	1.33
22:BB:1805:G:C5'	24:BD:43:ARG:HA	1.57	1.33
22:DB:2411:A:N3	47:D1:27:THR:HB	1.06	1.33
22:DB:869:C:C1'	44:DX:24:LYS:CG	2.06	1.33
22:FB:1636:G:C1'	50:F4:1:MET:HA	1.58	1.33

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:FB:490:A:H5'	42:FV:3:ARG:NH1	1.41	1.33
10:GJ:11:PHE:CD1	14:GN:54:PRO:O	1.80	1.33
22:HB:941:U:P	46:HZ:23:LEU:HA	1.66	1.33
40:JT:44:VAL:CG2	48:J2:20:ARG:NH2	1.89	1.33
22:JB:115:G:O3'	50:J4:22:MET:HE1	1.19	1.33
22:JB:2811:G:OP2	37:JQ:6:LYS:CA	1.75	1.33
22:JB:75:C:C1'	45:JY:55:THR:O	1.72	1.33
22:BB:1809:G:C5'	24:BD:157:ARG:HH11	1.41	1.33
1:EA:1320:C:N3	19:ES:36:ARG:HG3	1.41	1.33
22:FB:337:G:C2'	42:FV:9:HIS:HD2	1.41	1.33
22:HB:2862:G:N2	48:H2:30:LEU:CB	1.84	1.33
22:HB:95:G:N7	45:HY:41:HIS:CD2	1.94	1.33
22:HB:339:U:O2'	42:HV:77:HIS:CE1	1.81	1.33
22:JB:1996:A:H5''	40:JT:116:ILE:O	1.19	1.33
22:JB:2209:G:C4'	47:J1:40:HIS:N	1.89	1.33
22:JB:62:U:H4'	41:JU:62:ARG:NH1	1.02	1.33
22:JB:1405:A:N7	41:JU:15:LYS:HE3	1.03	1.33
22:BB:6:A:HO2'	31:BK:163:PRO:CG	1.39	1.33
22:DB:2551:A:C5	25:DE:144:ARG:HB3	1.62	1.33
22:FB:2708:U:H4'	25:FE:21:ILE:CG1	1.58	1.33
22:FB:1674:C:P	25:FE:136:ARG:HB2	1.69	1.33
10:GJ:63:PHE:CE2	14:GN:49:HIS:N	1.96	1.33
22:HB:3093:C:H1'	22:HB:2181:A:N6	1.02	1.33
22:HB:59:G:N3	45:HY:44:ARG:NH2	1.75	1.33
1:AA:521:G:C5	12:AL:49:ASN:OD1	1.79	1.33
1:AA:44:G:OP2	16:AP:12:LYS:HE2	1.27	1.33
1:CA:1239:A:H3'	7:CG:115:ARG:CG	1.57	1.33
22:DB:548:G:O2'	31:DK:33:ILE:CG2	1.75	1.33
22:HB:1884:A:N3	24:HD:244:ARG:HD2	1.38	1.33
1:IA:877:C:C4'	8:IH:88:LYS:HG2	1.56	1.33
22:JB:1861:G:H1'	53:J7:199:ASN:ND2	1.42	1.33
1:AA:43:C:O5'	16:AP:12:LYS:NZ	1.59	1.33
1:CA:378:G:OP1	16:CP:25:ARG:HG2	1.25	1.33
1:EA:761:G:C2	17:EQ:104:LYS:HE2	1.50	1.33
6:EF:99:ALA:HA	18:ER:62:GLU:OE2	1.23	1.33
22:HB:494:A:O4'	42:HV:56:LYS:HB2	1.17	1.33
22:HB:891:A:N3	22:HB:893:G:C6	1.97	1.33
22:JB:794:A:OP2	24:JD:53:PHE:HZ	1.01	1.33
1:AA:1059:C:C5'	14:AN:45:ARG:HH22	1.40	1.33
1:AA:1374:A:C2	7:AG:29:LYS:CE	2.10	1.33
23:BA:92:G:H1'	34:BN:21:ASP:O	1.18	1.33

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:1106:G:OP1	3:CC:172:ARG:HG3	1.26	1.33
22:DB:3093:C:C5'	29:DI:22:ASP:N	1.91	1.33
34:DN:37:ALA:C	43:DW:74:ARG:HH21	1.26	1.33
7:GG:44:TYR:OH	9:GI:41:VAL:HG22	1.15	1.33
22:HB:1806:G:O5'	24:HD:52:ARG:NH1	1.58	1.33
22:HB:489:A:C4'	42:HV:5:SER:HA	0.86	1.33
1:EA:1273:G:C8	1:IA:1265:G:C5'	2.12	1.33
22:JB:2464:G:C3'	34:JN:123:GLY:HA3	1.58	1.33
1:AA:1061:G:H5'	10:AJ:58:ASP:O	1.26	1.33
22:DB:2249:U:C5'	44:DX:18:PRO:CD	2.06	1.33
22:DB:922:A:N6	34:DN:16:GLY:HA3	1.44	1.33
25:DE:26:VAL:HG21	37:DQ:3:THR:CB	1.59	1.33
22:DB:456:C:C4'	38:DR:2:PRO:HG2	1.37	1.33
1:EA:377:G:H5'	16:EP:5:ARG:NH1	1.41	1.33
22:FB:2658:A:C2'	25:FE:187:ALA:HB1	1.55	1.33
1:GA:1225:A:H5''	13:GM:104:ARG:N	1.43	1.33
1:GA:824:C:O2'	8:GH:2:LEU:HD22	1.29	1.33
22:HB:1828:C:O2	22:HB:1912:G:C5'	1.75	1.33
22:HB:514:G:N1	40:HT:14:ARG:HG2	1.44	1.33
22:BB:1377:G:N7	47:B1:3:LYS:HG3	1.40	1.33
22:BB:2723:C:C1'	28:BH:150:LYS:CD	2.05	1.33
22:DB:2039:G:O2'	48:D2:5:PRO:CA	1.76	1.33
23:DA:78:A:C2	43:DW:22:VAL:CG2	2.10	1.33
1:EA:958:A:C4	19:ES:56:GLN:NE2	1.96	1.33
22:FB:3178:C:H5''	53:F7:36:PHE:O	1.28	1.33
1:GA:1225:A:H5'	13:GM:103:THR:CA	1.46	1.33
22:DB:1861:G:C2	53:D7:199:ASN:OD1	1.82	1.32
22:DB:2263:C:OP1	49:D3:8:ILE:HG12	1.23	1.32
22:FB:311:A:OP2	42:FV:91:ALA:CB	1.75	1.32
22:FB:674:U:OP1	26:FF:93:TYR:HE1	1.00	1.32
1:EA:1264:C:H5''	1:IA:1273:G:C2	1.64	1.32
1:IA:1359:C:C5'	14:IN:31:ARG:HG3	1.58	1.32
1:AA:1187:G:N3	14:AN:61:TRP:HA	1.44	1.32
22:BB:2767:C:H4'	25:BE:60:ASN:ND2	1.39	1.32
1:CA:953:G:H22	13:CM:120:LYS:CG	1.37	1.32
22:DB:1041:G:N2	52:D6:5:SER:CB	1.72	1.32
22:DB:648:A:H2	33:DM:109:LEU:CG	1.42	1.32
22:DB:2661:G:C4	25:DE:11:MET:HA	1.62	1.32
1:EA:537:G:C5'	12:EL:113:ARG:NH2	1.89	1.32
22:FB:2661:G:H1'	25:FE:11:MET:CE	1.60	1.32
22:HB:57:G:H3'	22:HB:72:A:N6	1.41	1.32

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:IA:1226:C:C4	13:IM:104:ARG:CB	2.11	1.32
6:IF:2:ARG:CZ	15:IO:2:PRO:HG3	1.57	1.32
22:JB:2850:U:C1'	37:JQ:13:LEU:HD12	1.58	1.32
22:BB:1377:G:N7	47:B1:3:LYS:CG	1.90	1.32
22:BB:2310:G:C5'	44:BX:71:ASN:HA	1.59	1.32
1:CA:1230:C:C2	13:CM:125:ARG:HD3	1.58	1.32
22:FB:1828:C:O2	22:FB:1912:G:C5'	1.74	1.32
22:HB:1338:G:C6	40:HT:107:ILE:O	1.81	1.32
1:IA:261:U:C5	20:IT:79:ARG:HD3	1.64	1.32
12:IL:11:VAL:CG2	17:IQ:36:ILE:HG23	1.57	1.32
13:IM:86:CYS:C	19:IS:74:PHE:HA	1.49	1.32
22:BB:886:A:O2'	43:BW:167:THR:HB	1.26	1.32
22:DB:176:A:O2'	47:D1:31:ILE:HG23	1.24	1.32
22:DB:1815:G:OP1	24:DD:54:ILE:CG2	1.78	1.32
22:DB:318:G:H5'	40:DT:12:LYS:CE	1.57	1.32
1:EA:1114:C:H1'	14:EN:60:SER:O	1.21	1.32
1:EA:926:G:C5	1:EA:1502:A:H2	1.46	1.32
22:HB:760:U:C5	48:H2:3:LYS:CE	2.10	1.32
22:JB:2820:C:C5'	37:JQ:62:SER:CB	1.85	1.32
22:JB:647:G:C6	33:JM:109:LEU:CD1	2.11	1.32
41:JU:9:ALA:N	45:JY:26:MET:SD	2.03	1.32
1:AA:668:G:H2'	15:AO:45:VAL:CG1	1.45	1.32
1:AA:815:A:H2	1:AA:1528:U:O4'	1.09	1.32
1:AA:741:G:O3'	15:AO:55:GLY:HA3	1.24	1.32
22:BB:2789:U:C2'	48:B2:42:SER:HB2	1.59	1.32
1:CA:280:C:C5	17:CQ:88:TYR:CE1	2.18	1.32
22:DB:1325:U:OP1	41:DU:68:PHE:CZ	1.81	1.32
1:EA:281:G:O6	17:EQ:98:LEU:HD12	1.23	1.32
1:EA:1060:C:H3'	3:EC:2:GLY:N	1.38	1.32
1:EA:238:G:C5'	17:EQ:38:ARG:NH2	1.92	1.32
22:FB:2263:C:C5'	49:F3:8:ILE:CD1	2.06	1.32
1:GA:921:U:O2	5:GE:19:MET:CB	1.75	1.32
22:JB:23:G:C1'	40:JT:96:TYR:OH	1.74	1.32
22:JB:1001:A:C5'	46:JZ:27:LYS:NZ	1.92	1.32
22:BB:1488:G:O6	22:BB:1536:G:C2	1.80	1.32
1:CA:1092:A:H5''	7:CG:4:ARG:CD	1.57	1.32
22:DB:1239:A:P	39:DS:73:LYS:CG	2.16	1.32
38:FR:47:TYR:CD1	39:FS:74:TYR:CB	2.11	1.32
22:HB:1816:G:C2	24:HD:252:LYS:CD	2.11	1.32
22:HB:8:A:N1	22:HB:2869:U:N3	1.74	1.32
22:HB:1236:G:N7	39:HS:71:ILE:HD11	1.44	1.32

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:HA:108:G:OP2	43:HW:90:GLU:N	1.63	1.32
1:IA:815:A:C3'	1:IA:1526:G:N2	1.90	1.32
1:IA:740:U:C5'	15:IO:35:ARG:CZ	2.05	1.32
22:JB:1998:A:O2'	48:J2:3:LYS:HB2	1.21	1.32
22:JB:869:C:H5'	44:JX:57:HIS:CB	1.50	1.32
1:CA:546:G:C2	4:CD:2:GLY:HA2	1.63	1.32
22:DB:413:G:C6	47:D1:63:PHE:CD1	2.17	1.32
1:EA:244:U:OP2	17:EQ:100:LYS:NZ	1.60	1.32
22:FB:2263:C:C5'	49:F3:8:ILE:CG1	2.07	1.32
22:HB:825:C:H4'	38:HR:13:ARG:NH2	1.00	1.32
1:IA:134:A:H61	16:IP:25:ARG:NH2	1.25	1.32
43:JW:49:THR:N	43:JW:95:SER:CB	1.92	1.32
1:AA:740:U:C1'	15:AO:42:HIS:ND1	1.90	1.32
22:BB:2862:G:C4'	48:B2:32:GLU:OE2	1.75	1.32
22:BB:700:C:H5''	50:B4:4:THR:N	1.45	1.32
22:BB:999:A:OP2	46:BZ:10:ILE:HD13	1.28	1.32
1:CA:932:C:H5''	7:CG:3:ARG:CG	1.56	1.32
1:CA:15:G:N2	5:CE:17:ALA:C	1.83	1.32
22:DB:589:C:C5'	38:DR:33:ARG:HG2	1.53	1.32
1:EA:973:G:O4'	10:EJ:54:PHE:CE2	1.80	1.32
22:FB:1171:A:C2	39:FS:8:GLY:O	1.82	1.32
22:FB:1363:C:H2'	22:FB:1588:A:C1'	1.58	1.32
22:FB:1673:C:H3'	25:FE:136:ARG:NE	1.38	1.32
1:GA:1226:C:N4	13:GM:104:ARG:HE	1.19	1.32
1:GA:265:G:N2	17:GQ:70:ARG:HH21	1.24	1.32
22:HB:504:G:H4'	40:HT:25:PHE:CG	1.62	1.32
22:HB:95:G:C1'	45:HY:45:GLN:CD	1.96	1.32
22:HB:95:G:H8	45:HY:41:HIS:CG	1.34	1.32
22:JB:348:U:H5''	42:JV:13:LYS:NZ	1.43	1.32
1:AA:180:U:C6	20:GT:100:ILE:O	1.83	1.32
1:AA:667:G:N3	15:AO:49:ASP:HB2	1.44	1.32
22:BB:872:G:O2'	22:BB:2247:A:H2	1.08	1.32
1:CA:1117:G:H4'	9:CI:9:ARG:NH1	1.41	1.32
22:DB:225:G:H4'	47:D1:28:ARG:CG	1.57	1.32
22:DB:413:G:C5	47:D1:63:PHE:CD1	2.16	1.32
22:DB:2039:G:C1'	48:D2:5:PRO:CG	2.02	1.32
22:DB:742:G:N7	24:DD:208:LYS:CD	1.93	1.32
22:FB:2260:C:H4'	22:FB:2368:G:N2	1.43	1.32
22:FB:1:G:O6	22:FB:2876:C:N4	1.61	1.32
22:FB:469:G:H3'	50:F4:40:HIS:CD2	1.61	1.32
29:FI:26:ARG:HG2	47:F1:73:LYS:C	1.45	1.32

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:FB:2618:A:O2'	31:FK:125:ARG:NH2	1.59	1.32
22:HB:2329:C:O5'	51:H5:42:ARG:CD	1.78	1.32
22:HB:2862:G:N3	48:H2:30:LEU:CB	1.89	1.32
34:HN:68:ARG:NH2	43:HW:117:VAL:HG22	1.34	1.32
1:IA:1190:G:P	3:IC:4:LYS:HA	1.70	1.32
22:JB:1996:A:C5'	40:JT:116:ILE:O	1.78	1.32
22:DB:2057:U:H5'	24:DD:228:PRO:CG	1.52	1.32
1:EA:1060:C:OP2	3:EC:2:GLY:C	1.68	1.32
1:EA:653:A:N1	8:EH:27:PRO:HG2	1.26	1.32
22:FB:2752:C:O4'	25:FE:166:THR:HG21	1.19	1.32
22:FB:1007:A:OP2	38:FR:94:VAL:HG23	1.22	1.32
22:FB:57:G:H5'	41:FU:73:ASN:O	1.18	1.32
1:GA:658:G:C5'	15:GO:8:LYS:NZ	1.75	1.32
22:HB:3170:A:O2'	53:H7:130:PRO:HG3	1.17	1.32
22:HB:2789:U:C1'	48:H2:30:LEU:HD12	1.60	1.32
22:HB:71:A:C4'	45:HY:54:ASN:HB2	1.58	1.32
34:HN:66:TYR:CE1	43:HW:115:ILE:HB	1.64	1.32
13:IM:84:ILE:HD11	19:IS:74:PHE:CE2	1.62	1.32
1:IA:1320:C:C4'	19:IS:73:GLU:HB3	1.57	1.32
22:JB:1197:U:OP1	46:JZ:26:ARG:CB	1.75	1.32
22:JB:1807:A:C5'	24:JD:63:ARG:NH1	1.91	1.32
22:JB:910:U:C2	22:JB:911:A:C5'	2.10	1.32
22:JB:1088:A:C5'	30:JJ:91:PRO:O	1.77	1.32
1:IA:1463:C:C6	37:JQ:116:ARG:NH1	1.98	1.32
22:JB:528:G:H4'	40:JT:97:VAL:CG2	1.59	1.32
23:BA:93:G:C5'	34:BN:23:LYS:NZ	1.93	1.31
1:CA:815:A:C2	1:CA:1528:U:O4'	1.82	1.31
23:DA:92:G:N2	34:DN:22:ALA:O	1.61	1.31
7:EG:149:ARG:HD3	11:EK:59:TYR:OH	1.18	1.31
22:FB:2396:C:OP1	51:F5:44:LYS:CE	1.76	1.31
22:FB:2241:U:OP2	44:FX:15:ASP:HA	1.20	1.31
1:GA:778:G:N2	11:GK:120:ARG:CD	1.93	1.31
1:GA:1114:C:O2	14:GN:61:TRP:CA	1.78	1.31
22:HB:494:A:C4	42:HV:56:LYS:CG	2.10	1.31
22:HB:2577:A:H5''	24:HD:235:GLY:O	1.19	1.31
22:JB:3171:A:O2'	53:J7:105:ARG:CD	1.78	1.31
22:BB:1861:G:C5	53:B7:199:ASN:HB2	1.64	1.31
23:BA:78:A:N3	43:BW:22:VAL:CG2	1.93	1.31
22:BB:1675:C:OP2	25:BE:134:TRP:CD2	1.80	1.31
22:BB:1684:G:H4'	32:BL:5:GLN:OE1	1.25	1.31
22:BB:1806:G:C1'	24:BD:52:ARG:NH2	1.92	1.31

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:BB:1141:U:C2	31:BK:106:TYR:CD1	2.17	1.31
22:DB:2551:A:C6	25:DE:144:ARG:HB2	1.64	1.31
22:DB:2462:C:O2'	34:DN:50:ALA:CB	1.78	1.31
34:DN:99:LYS:CG	43:DW:73:LYS:HG2	1.58	1.31
38:FR:47:TYR:CA	39:FS:74:TYR:HB3	1.58	1.31
1:GA:264:U:H1'	17:GQ:63:ARG:C	1.16	1.31
1:IA:1151:A:H4'	10:IJ:42:THR:N	1.43	1.31
1:IA:676:A:O2'	11:IK:115:PRO:CB	1.77	1.31
1:IA:1223:C:P	19:IS:78:ARG:HH21	1.51	1.31
22:JB:114:C:C4'	50:J4:19:ARG:NH2	1.92	1.31
23:JA:14:C:C5	44:JX:53:MET:N	1.96	1.31
22:JB:477:A:C5'	50:J4:16:HIS:CE1	2.12	1.31
22:JB:2820:C:C4'	37:JQ:62:SER:OG	1.77	1.31
10:AJ:65:LEU:CG	14:AN:56:VAL:HG22	1.58	1.31
1:CA:15:G:C4'	5:CE:24:ARG:NH2	1.94	1.31
1:CA:558:G:H4'	5:CE:121:LYS:NZ	1.43	1.31
22:DB:1795:C:H5''	24:DD:250:TRP:CZ2	1.64	1.31
22:DB:845:U:H5''	33:DM:39:SER:OG	1.17	1.31
22:FB:226:C:O2	51:F5:8:LYS:NZ	1.61	1.31
22:FB:544:U:OP1	38:FR:22:LYS:HE3	1.24	1.31
32:HL:87:SER:HA	37:HQ:82:PRO:O	1.27	1.31
1:IA:452:A:N3	16:IP:72:ARG:NH1	1.75	1.31
22:JB:337:G:O2'	42:JV:9:HIS:CD2	1.83	1.31
1:AA:16:A:C4'	5:AE:16:THR:CA	1.95	1.31
1:AA:974:A:N3	14:AN:31:ARG:HB3	1.44	1.31
22:BB:1143:A:O4'	31:BK:111:LYS:CG	1.78	1.31
22:BB:1673:C:H5''	25:BE:136:ARG:CG	1.57	1.31
22:BB:2646:C:O2'	28:BH:111:HIS:ND1	1.58	1.31
22:BB:2714:A:C1'	25:BE:205:SER:HB3	1.60	1.31
1:CA:407:G:H1'	4:CD:116:GLN:NE2	1.03	1.31
22:DB:2265:A:C6	49:D3:31:THR:OG1	1.81	1.31
1:EA:243:A:O2'	17:EQ:100:LYS:HG3	1.23	1.31
1:GA:1349:A:C4'	9:GI:121:ARG:NH1	1.85	1.31
22:HB:221:A:H5''	33:HM:68:VAL:CA	1.58	1.31
22:HB:2339:A:OP1	51:H5:49:VAL:CA	1.76	1.31
22:HB:917:U:C2'	43:HW:118:HIS:CD2	2.13	1.31
12:IL:11:VAL:CB	17:IQ:36:ILE:CG2	2.05	1.31
1:AA:668:G:C1'	15:AO:46:HIS:N	1.83	1.31
22:BB:418:C:H5'	53:B7:1:MET:CE	1.57	1.31
22:BB:489:A:O2'	42:BV:5:SER:CB	1.79	1.31
22:DB:2729:A:N1	52:D6:18:ARG:CZ	1.94	1.31

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:FB:940:G:O2'	46:FZ:34:VAL:HG22	1.27	1.31
22:HB:2760:G:N3	31:HK:149:LYS:NZ	1.73	1.31
1:IA:261:U:O4	20:IT:83:ARG:NH2	1.60	1.31
22:JB:16:G:C5'	48:J2:17:ASP:CA	2.08	1.31
22:JB:224:G:H1	51:J5:8:LYS:CG	1.12	1.31
22:JB:2399:C:C2'	51:J5:32:GLN:CB	2.08	1.31
22:JB:77:C:OP2	45:JY:7:ARG:NH2	1.60	1.31
1:AA:668:G:C1'	15:AO:45:VAL:HG12	1.60	1.31
22:DB:2328:G:P	51:D5:41:ILE:HD12	1.70	1.31
22:DB:1437:A:C3'	22:DB:1438:G:P	2.17	1.31
22:DB:574:C:OP2	39:DS:79:GLN:HA	1.26	1.31
1:EA:1439:C:P	20:ET:34:LYS:HD3	1.68	1.31
22:FB:469:G:C8	50:F4:40:HIS:HB2	1.63	1.31
22:FB:2764:U:H5'	25:FE:36:ARG:NH2	1.42	1.31
22:FB:660:G:O2'	51:F5:17:THR:HG23	1.19	1.31
38:FR:47:TYR:CD1	39:FS:74:TYR:CG	2.16	1.31
1:GA:1349:A:C5'	9:GI:121:ARG:NH1	1.90	1.31
13:GM:88:ARG:CB	13:GM:98:VAL:HG12	1.59	1.31
22:HB:811:G:N7	26:HF:56:ARG:NH1	1.79	1.31
1:IA:8:A:O2'	4:ID:209:ARG:NH1	1.58	1.31
22:JB:2064:U:C5'	47:J1:35:VAL:HG21	1.58	1.31
22:BB:177:U:H5'	47:B1:31:ILE:CB	1.58	1.31
1:CA:523:A:H61	12:CL:91:LYS:N	1.24	1.31
22:DB:795:A:N6	24:DD:222:ARG:HE	1.25	1.31
25:DE:151:TYR:HA	31:DK:106:TYR:CZ	1.66	1.31
22:DB:2728:A:O4'	28:DH:67:LEU:HD22	1.19	1.31
22:DB:1263:G:C1'	38:DR:13:ARG:HH22	1.41	1.31
23:FA:49:C:C4'	36:FP:95:LYS:HG3	1.60	1.31
1:GA:951:G:N3	13:GM:126:LYS:HG2	1.46	1.31
1:GA:35:G:C2'	12:GL:117:ARG:O	1.76	1.31
22:HB:2503:G:C1'	22:HB:2744:A:C2	2.11	1.31
23:BA:48:A:HO2'	36:BP:4:ALA:N	1.25	1.31
1:EA:880:C:OP2	12:EL:7:ILE:CG1	1.78	1.31
10:GJ:11:PHE:CD1	14:GN:54:PRO:HB2	1.66	1.31
22:HB:2861:A:N7	48:H2:31:THR:HG21	1.43	1.31
22:HB:3876:A:N7	53:H7:45:ASP:N	1.79	1.31
22:HB:3166:G:C8	53:H7:98:ARG:NE	1.97	1.31
22:JB:2209:G:O3'	47:J1:39:VAL:CA	1.76	1.31
22:JB:2823:G:OP1	37:JQ:103:LYS:HD3	1.14	1.31
22:BB:2470:U:H1'	22:BB:2549:G:OP1	1.24	1.31
23:BA:106:U:O2'	43:BW:88:TYR:CD1	1.79	1.31

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:1117:G:O3'	9:CI:9:ARG:NH2	1.62	1.31
1:EA:958:A:N1	19:ES:56:GLN:HG2	1.44	1.31
22:FB:231:G:N1	51:F5:4:MET:CG	1.84	1.31
22:FB:538:A:C8	31:FK:139:ARG:NH1	1.98	1.31
23:FA:116:C:O4'	36:FP:50:THR:CG2	1.76	1.31
1:GA:735:C:O4'	18:GR:75:ILE:HD12	1.18	1.31
1:GA:273:A:N3	17:GQ:15:MET:CB	1.91	1.31
13:IM:87:TYR:N	19:IS:74:PHE:HA	1.45	1.31
22:JB:3171:A:N7	53:J7:101:LYS:HD2	1.43	1.31
22:JB:1074:G:C4	30:JJ:88:SER:HB2	1.46	1.31
1:AA:545:C:H5''	4:AD:72:GLU:CB	1.60	1.31
22:BB:1135:C:C1'	52:B6:36:GLN:HG3	1.60	1.31
22:BB:1673:C:C5'	25:BE:136:ARG:HG2	1.58	1.31
22:BB:1834:G:H1'	24:BD:244:ARG:CG	1.56	1.31
22:DB:164:G:H4'	47:D1:12:CYS:CB	1.59	1.31
1:EA:586:C:C5'	8:EH:91:ARG:N	1.87	1.31
10:EJ:62:HIS:C	14:EN:59:ALA:CB	1.98	1.31
22:HB:60:A:C4'	45:HY:29:ARG:HH21	1.37	1.31
22:JB:2399:C:C2'	51:J5:32:GLN:HB3	1.57	1.31
22:JB:1744:G:N7	37:JQ:123:ARG:O	1.64	1.31
1:AA:1102:A:O3'	2:AB:98:LEU:HD22	1.14	1.30
1:AA:620:C:H4'	4:AD:138:TYR:CE1	1.65	1.30
1:AA:1374:A:C2	7:AG:29:LYS:HE3	1.66	1.30
1:AA:970:C:OP1	10:AJ:57:LYS:CG	1.77	1.30
22:BB:2265:A:C6	49:B3:38:LYS:CE	2.12	1.30
22:BB:3867:G:C4'	53:B7:42:LYS:HB2	1.61	1.30
22:DB:413:G:O6	47:D1:63:PHE:CE1	1.82	1.30
22:DB:1292:A:H5''	35:DO:33:ARG:CG	1.58	1.30
22:DB:658:G:H1'	22:DB:2330:G:OP1	1.28	1.30
22:DB:1018:C:O2'	31:DK:134:MET:HA	1.16	1.30
22:FB:1162:A:C1'	38:FR:78:THR:HG23	1.58	1.30
22:HB:602:C:O4'	51:H5:2:PRO:N	1.62	1.30
22:HB:1630:A:N6	40:HT:114:ALA:CB	1.94	1.30
1:IA:718:G:N7	18:IR:81:PHE:HZ	1.16	1.30
22:JB:1040:A:H4'	34:JN:125:LYS:NZ	1.44	1.30
22:JB:1166:A:P	38:JR:55:ARG:HH12	1.52	1.30
22:JB:1744:G:C6	37:JQ:124:VAL:CG2	2.13	1.30
22:JB:231:G:H22	51:J5:7:HIS:CD2	1.48	1.30
22:JB:2550:C:O2'	25:JE:143:GLN:HB3	1.18	1.30
22:JB:1810:U:C3'	24:JD:154:GLN:HE22	1.43	1.30
22:JB:1075:C:H1'	30:JJ:88:SER:O	1.23	1.30

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:JB:2707:G:C3'	32:JL:82:LYS:HE3	1.54	1.30
22:BB:1325:U:C6	41:BU:61:LYS:HE2	0.80	1.30
1:CA:546:G:P	4:CD:71:SER:HB2	1.71	1.30
1:CA:1092:A:C5'	7:CG:4:ARG:CD	2.08	1.30
22:DB:1815:G:OP1	24:DD:54:ILE:CB	1.79	1.30
22:DB:1834:G:H1'	24:DD:244:ARG:CD	1.60	1.30
7:EG:16:LEU:HG	9:EI:41:VAL:O	1.25	1.30
1:GA:255:G:OP1	17:GQ:65:ILE:HG21	1.23	1.30
22:HB:2329:C:P	51:H5:42:ARG:CD	2.17	1.30
22:HB:3876:A:H62	53:H7:45:ASP:CB	1.44	1.30
1:IA:1418:A:N3	22:JB:1942:G:H1'	1.43	1.30
1:IA:815:A:C2'	1:IA:1526:G:C2	2.12	1.30
22:JB:1261:G:H5'	26:JF:86:PRO:CD	1.50	1.30
22:JB:969:U:C4	34:JN:21:ASP:N	1.99	1.30
22:JB:2692:A:O2'	35:JO:14:SER:HB2	1.15	1.30
23:JA:49:C:C5'	36:JP:94:TYR:CE1	2.14	1.30
1:AA:1092:A:C4'	7:AG:4:ARG:CD	2.06	1.30
1:AA:958:A:C6	19:AS:56:GLN:HG3	1.65	1.30
1:CA:277:C:H5'	17:CQ:43:LEU:CD1	1.57	1.30
22:DB:2745:A:H2'	22:DB:2746:G:O4'	1.25	1.30
22:DB:456:C:O4'	38:DR:2:PRO:HG2	1.31	1.30
22:DB:915:C:C3'	43:DW:163:ASP:OD1	1.63	1.30
1:EA:1318:A:H4'	19:ES:10:PHE:CD1	1.64	1.30
1:EA:927:G:OP2	1:EA:1503:A:H8	1.03	1.30
1:GA:35:G:N3	12:GL:118:SER:HA	1.45	1.30
10:GJ:51:ARG:HG2	14:GN:45:ARG:NH1	0.98	1.30
22:JB:1468:A:C6	35:JO:80:MET:HG2	1.66	1.30
22:JB:969:U:C5	34:JN:21:ASP:HB2	1.65	1.30
1:AA:958:A:N1	19:AS:56:GLN:HG2	1.44	1.30
1:AA:760:G:O3'	17:AQ:102:GLY:CA	1.78	1.30
25:DE:19:ARG:CD	37:DQ:65:SER:CA	2.05	1.30
40:FT:60:ILE:CG2	48:F2:25:LEU:CG	2.07	1.30
22:FB:1406:A:H61	41:FU:15:LYS:CG	1.41	1.30
22:FB:1516:A:C2'	24:FD:98:ALA:HB2	1.61	1.30
1:GA:877:C:C1'	8:GH:3:THR:O	1.80	1.30
3:GC:29:TYR:OH	10:GJ:11:PHE:CZ	1.70	1.30
22:HB:2338:C:O4'	51:H5:52:LYS:HD2	1.26	1.30
22:HB:3167:U:C5	53:H7:98:ARG:CD	2.12	1.30
41:HU:46:PHE:HB2	45:HY:19:ASP:OD1	1.27	1.30
1:IA:877:C:H5''	8:IH:88:LYS:CE	1.60	1.30
1:IA:1226:C:C4	13:IM:104:ARG:HB2	1.66	1.30

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:JB:2263:C:P	49:J3:9:ILE:N	2.04	1.30
22:JB:2823:G:C5'	37:JQ:103:LYS:CG	2.08	1.30
22:JB:77:C:P	45:JY:7:ARG:NH2	2.03	1.30
23:JA:49:C:H4'	36:JP:95:LYS:CG	1.36	1.30
23:JA:49:C:C3'	36:JP:95:LYS:HG3	1.58	1.30
3:AC:58:GLU:HB3	10:AJ:92:THR:OG1	1.28	1.30
20:AT:100:ILE:HA	1:GA:179:A:N3	1.46	1.30
1:CA:742:G:H5'	15:CO:58:MET:SD	1.72	1.30
1:CA:8:A:H5'	5:CE:120:THR:O	1.30	1.30
22:DB:1437:A:O3'	22:DB:1438:G:P	0.90	1.30
22:DB:2249:U:C5'	44:DX:18:PRO:HD2	1.59	1.30
10:EJ:63:PHE:CZ	14:EN:58:LYS:HG2	1.66	1.30
13:EM:88:ARG:O	13:EM:98:VAL:HG11	1.28	1.30
1:GA:107:G:N2	20:GT:12:ALA:HA	1.44	1.30
22:HB:2646:C:O2	28:HH:109:TYR:HB2	1.15	1.30
12:IL:11:VAL:HG12	17:IQ:36:ILE:CD1	1.60	1.30
23:JA:117:G:C2'	36:JP:41:GLN:OE1	1.79	1.30
22:BB:1675:C:OP2	25:BE:134:TRP:CE3	1.82	1.30
1:CA:668:G:C4'	15:CO:48:LYS:H	1.44	1.30
1:CA:688:G:H5'	11:CK:47:VAL:O	1.32	1.30
22:DB:505:G:C5'	40:DT:25:PHE:HB3	1.60	1.30
22:FB:2399:C:C5	51:F5:31:HIS:HA	1.65	1.30
1:GA:1225:A:C5'	13:GM:104:ARG:H	1.40	1.30
13:GM:85:GLY:C	19:GS:74:PHE:CD2	2.03	1.30
1:GA:255:G:OP1	17:GQ:65:ILE:CG2	1.78	1.30
22:HB:2001:G:N3	38:HR:33:ARG:NH1	1.77	1.30
1:IA:261:U:C5	20:IT:79:ARG:CD	2.12	1.30
1:IA:718:G:C5	18:IR:81:PHE:CE2	2.17	1.30
22:JB:409:G:OP1	47:J1:10:VAL:HG22	1.21	1.30
22:JB:2557:G:N3	25:JE:133:LYS:HE2	1.46	1.30
1:AA:1221:G:O2'	19:AS:77:THR:HG21	1.22	1.30
22:BB:2814:G:O3'	35:BO:50:GLN:HA	1.15	1.30
43:BW:48:THR:HG21	43:BW:130:ILE:O	1.13	1.30
22:DB:2291:U:H4'	27:DG:85:VAL:O	1.29	1.30
22:DB:512:A:C5'	40:DT:15:LYS:HG3	1.62	1.30
23:DA:105:G:H4'	43:DW:91:PRO:CA	1.58	1.30
22:DB:864:C:C4'	46:DZ:43:MET:HG2	1.59	1.30
3:EC:18:TRP:CZ2	14:EN:53:LEU:HG	1.65	1.30
22:FB:2284:U:C1'	27:FG:152:MET:HE3	1.62	1.30
38:FR:47:TYR:HA	39:FS:74:TYR:CB	1.57	1.30
38:FR:88:ILE:O	39:FS:51:ALA:CB	1.79	1.30

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:FW:84:TYR:HB2	43:FW:93:GLU:CD	1.49	1.30
22:HB:916:U:C2'	43:HW:166:LEU:HD12	1.61	1.30
1:IA:637:G:C5'	17:IQ:2:PRO:HD3	1.59	1.30
22:JB:17:G:H5'	48:J2:14:SER:CA	1.61	1.30
22:JB:794:A:OP2	24:JD:53:PHE:CZ	1.83	1.30
22:BB:1805:G:N2	24:BD:52:ARG:CD	1.75	1.30
22:BB:2646:C:C2'	28:BH:111:HIS:ND1	1.87	1.30
22:BB:1325:U:C5	41:BU:61:LYS:CD	2.15	1.30
22:BB:888:G:C2'	43:BW:165:GLU:OE1	1.78	1.30
1:CA:1374:A:H4'	7:CG:28:ASN:OD1	1.31	1.30
22:FB:2615:U:C5'	25:FE:79:ARG:HB2	1.54	1.30
38:FR:47:TYR:CA	39:FS:74:TYR:CB	2.08	1.30
1:GA:932:C:H4'	7:GG:4:ARG:NE	1.46	1.30
22:HB:2594:U:N3	48:H2:9:LYS:HE3	1.46	1.30
1:IA:1194:U:H4'	5:IE:22:GLY:CA	1.61	1.30
1:IA:449:C:O3'	16:IP:42:ARG:CA	1.71	1.30
22:JB:1174:G:H1'	39:JS:88:GLN:C	0.97	1.30
22:BB:1786:C:O2	24:BD:252:LYS:HE3	1.28	1.30
22:BB:6:A:O2'	31:BK:163:PRO:CG	1.75	1.30
22:DB:2728:A:O4'	28:DH:67:LEU:CD2	1.80	1.30
22:DB:2614:A:O2'	25:DE:47:VAL:HG13	1.29	1.30
1:EA:1060:C:OP2	3:EC:2:GLY:CA	1.80	1.30
1:EA:1456:A:H5''	20:ET:28:ALA:CB	1.60	1.30
22:FB:2315:A:C6	44:FX:70:ILE:HG21	1.66	1.30
1:GA:251:G:O2'	17:GQ:67:LYS:HD2	1.18	1.30
1:GA:265:G:C4	17:GQ:64:PRO:CB	2.15	1.30
22:HB:502:A:H2	40:HT:28:ALA:O	1.01	1.30
22:HB:2372:A:H4'	33:HM:60:LEU:O	1.22	1.30
22:JB:1075:C:P	30:JJ:84:ILE:HD12	1.71	1.30
1:AA:689:C:OP2	11:AK:51:LYS:HD2	1.19	1.30
22:BB:910:U:H3'	22:BB:911:A:C8	1.66	1.30
1:CA:1229:A:N7	13:CM:120:LYS:N	1.76	1.30
22:DB:504:G:O3'	40:DT:25:PHE:CD2	1.85	1.30
1:EA:538:G:O3'	12:EL:114:LYS:CB	1.80	1.30
22:FB:1493:A:N1	22:FB:1573:G:N3	1.79	1.30
22:FB:544:U:OP1	38:FR:22:LYS:CE	1.78	1.30
1:GA:222:U:O2'	20:GT:68:LYS:HG2	1.12	1.30
1:GA:580:U:C5'	15:GO:54:ARG:HE	1.42	1.30
22:HB:1795:C:H4'	24:HD:250:TRP:CH2	1.65	1.30
22:HB:2751:C:O2'	25:HE:166:THR:HG21	1.22	1.30
1:IA:1439:C:OP1	20:IT:38:LYS:CE	1.78	1.30

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:IA:1147:C:H1'	9:II:16:ARG:NH2	0.98	1.30
22:JB:2310:G:O3'	44:JX:71:ASN:CA	1.80	1.30
22:BB:176:A:C2	47:B1:32:HIS:HE1	1.47	1.29
22:BB:1325:U:C5	41:BU:61:LYS:CE	2.03	1.29
22:BB:2474:G:O4'	34:BN:83:ARG:HG2	1.25	1.29
1:CA:588:G:C5'	8:CH:2:LEU:HB2	1.26	1.29
22:DB:1797:C:C1'	24:DD:49:ILE:HG21	1.61	1.29
22:DB:2034:A:OP1	25:DE:137:ARG:HD3	1.29	1.29
1:EA:1072:G:N2	2:EB:111:ARG:HE	1.27	1.29
22:FB:1405:A:N7	41:FU:15:LYS:CE	1.95	1.29
22:FB:1398:G:C4	22:FB:1415:C:O2	1.84	1.29
25:FE:19:ARG:NH2	37:FQ:65:SER:N	1.78	1.29
22:HB:1999:U:O2'	48:H2:8:LYS:HG2	1.31	1.29
22:HB:2826:C:C5'	35:HO:61:HIS:ND1	1.82	1.29
1:IA:186:C:O4'	20:IT:81:LYS:HE2	1.25	1.29
22:JB:1040:A:O3'	34:JN:125:LYS:CE	1.79	1.29
22:JB:1583:A:C1'	24:JD:84:TYR:CE1	2.15	1.29
1:AA:17:U:O2	1:AA:1079:G:N3	1.63	1.29
1:AA:16:A:C3'	5:AE:16:THR:HA	0.85	1.29
1:AA:1398:A:N3	5:AE:21:ALA:CB	1.94	1.29
40:FT:60:ILE:HB	48:F2:25:LEU:CD2	1.61	1.29
1:GA:192:U:C4'	20:GT:56:MET:CE	2.08	1.29
1:GA:1373:G:OP1	7:GG:36:LYS:HB3	1.15	1.29
22:JB:2810:A:OP1	37:JQ:6:LYS:CE	1.72	1.29
22:JB:3093:C:C5'	29:JI:24:TYR:HD2	1.44	1.29
22:JB:1265:G:O4'	38:JR:14:HIS:NE2	1.64	1.29
1:AA:1374:A:C4'	7:AG:28:ASN:OD1	1.76	1.29
1:AA:564:C:O2'	8:AH:91:ARG:NE	1.62	1.29
10:AJ:49:VAL:HG12	14:AN:45:ARG:CG	1.39	1.29
22:BB:1377:G:O6	47:B1:3:LYS:HB2	1.31	1.29
1:CA:15:G:N2	5:CE:17:ALA:O	1.64	1.29
22:DB:469:G:N7	50:D4:40:HIS:CD2	1.99	1.29
34:DN:38:MET:N	43:DW:74:ARG:CG	1.91	1.29
22:FB:1746:A:C5'	37:FQ:126:LYS:O	1.79	1.29
22:FB:7:G:H5'	31:FK:160:ALA:O	1.23	1.29
1:GA:265:G:N3	17:GQ:64:PRO:CB	1.94	1.29
1:IA:640:A:O3'	8:IH:127:LEU:CD1	1.80	1.29
1:IA:134:A:N6	16:IP:25:ARG:NH2	1.77	1.29
22:JB:539:A:C3'	22:JB:540:G:P	2.20	1.29
22:JB:634:G:N7	33:JM:98:LEU:CD1	1.96	1.29
22:BB:418:C:C5'	53:B7:1:MET:HE1	1.60	1.29

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:BB:1142:G:O4'	31:BK:110:LEU:HB3	1.23	1.29
22:DB:2753:C:O2'	25:DE:163:GLU:HG2	1.27	1.29
22:DB:2289:A:H2	27:DG:77:PHE:CE1	1.50	1.29
23:FA:62:C:OP1	36:FP:6:THR:HG21	1.20	1.29
1:GA:1249:C:O2'	9:GI:69:GLY:CA	1.79	1.29
1:IA:259:G:P	20:IT:80:ARG:NH1	2.04	1.29
22:JB:1812:U:OP1	24:JD:160:GLY:HA3	1.27	1.29
22:JB:63:A:C4	41:JU:62:ARG:NH2	2.00	1.29
22:BB:6:A:O2'	31:BK:163:PRO:HG2	1.29	1.29
22:BB:1237:G:H4'	39:BS:87:ARG:N	1.42	1.29
22:DB:164:G:C4'	47:D1:12:CYS:HB3	1.62	1.29
22:DB:2003:A:N6	48:D2:9:LYS:HE2	1.47	1.29
23:DA:92:G:C2	34:DN:22:ALA:N	2.00	1.29
22:FB:1742:G:H1'	22:FB:2835:A:C2'	1.63	1.29
1:GA:324:G:H4'	20:GT:15:ARG:NH2	1.46	1.29
1:GA:932:C:OP1	7:GG:4:ARG:HA	1.20	1.29
22:JB:2734:U:O4'	52:J6:15:LYS:CD	1.81	1.29
22:BB:887:G:O4'	43:BW:167:THR:CA	1.79	1.29
40:DT:52:ASP:HB3	48:D2:29:ASN:OD1	1.31	1.29
22:DB:2745:A:C2	22:DB:2746:G:H1'	1.67	1.29
22:FB:2282:G:H1'	27:FG:129:ASN:OD1	1.18	1.29
1:GA:778:G:H21	11:GK:120:ARG:CD	1.32	1.29
22:HB:489:A:C4'	42:HV:5:SER:CA	1.81	1.29
5:IE:151:LEU:CD2	8:IH:77:GLU:OE2	1.80	1.29
1:AA:1374:A:N3	7:AG:29:LYS:CE	1.95	1.29
22:BB:1043:A:C2'	52:B6:16:VAL:HB	1.63	1.29
23:BA:93:G:H4'	34:BN:23:LYS:NZ	1.43	1.29
22:BB:658:G:H1'	22:BB:2330:G:OP1	1.12	1.29
22:DB:2715:C:N3	22:DB:2749:A:C2	2.00	1.29
22:DB:869:C:C5'	44:DX:56:ASP:OD2	1.79	1.29
25:DE:26:VAL:CG1	37:DQ:3:THR:HG21	1.61	1.29
1:EA:238:G:OP1	17:EQ:38:ARG:NE	1.62	1.29
23:FA:9:G:C4'	36:FP:32:TYR:OH	1.78	1.29
22:FB:2241:U:P	44:FX:15:ASP:HA	1.72	1.29
22:JB:2260:C:H4'	22:JB:2368:G:N2	1.45	1.29
22:JB:592:G:H21	26:JF:78:VAL:CB	1.44	1.29
22:JB:633:G:H3'	33:JM:98:LEU:CD2	1.62	1.29
22:JB:672:C:C3'	26:JF:94:THR:H	1.43	1.29
22:JB:2823:G:C5	37:JQ:105:TYR:CD2	2.20	1.29
1:AA:624:C:C4'	16:AP:11:SER:N	1.95	1.29
25:BE:176:ARG:CD	37:BQ:19:ASP:CG	2.00	1.29

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:DB:1237:G:C4'	39:DS:87:ARG:CB	2.09	1.29
22:FB:409:G:C5'	47:F1:10:VAL:HG11	1.62	1.29
1:GA:815:A:N3	1:GA:1527:C:H1'	1.45	1.29
22:HB:3177:C:H4'	53:H7:163:PRO:CG	1.60	1.29
1:IA:768:A:C2	1:IA:1512:U:O2'	1.85	1.29
22:JB:3167:U:H5''	53:J7:97:LYS:CE	1.40	1.29
1:AA:877:C:C2	8:AH:3:THR:OG1	1.76	1.29
22:BB:596:C:C6	33:BM:29:THR:HG22	1.68	1.29
22:DB:2291:U:C5'	27:DG:85:VAL:O	1.79	1.29
22:DB:1017:C:C1'	31:DK:56:THR:CG2	2.11	1.29
22:DB:29:U:O3'	38:DR:8:ILE:CG2	1.76	1.29
22:DB:1237:G:H4'	39:DS:87:ARG:CB	1.63	1.29
34:DN:99:LYS:CB	43:DW:74:ARG:HB2	1.61	1.29
1:EA:686:U:OP1	11:EK:41:THR:HG22	1.15	1.29
22:FB:1266:G:N1	38:FR:37:GLN:NE2	1.80	1.29
1:GA:927:G:C1'	1:GA:1531:A:C2	2.14	1.29
1:GA:400:C:H5''	4:GD:73:ARG:NH2	1.48	1.29
13:GM:86:CYS:N	19:GS:74:PHE:CD2	2.00	1.29
22:HB:2861:A:C6	48:H2:40:LYS:NZ	1.99	1.29
1:AA:668:G:H1'	15:AO:46:HIS:N	0.97	1.29
22:BB:1356:G:O2'	22:BB:1613:G:C8	1.75	1.29
32:BL:91:PHE:C	37:BQ:79:ARG:CZ	1.96	1.29
1:EA:1117:G:H1'	9:EI:104:ARG:NH1	1.22	1.29
22:FB:529:U:P	40:FT:39:ARG:HG2	1.73	1.29
22:HB:2859:U:C4	48:H2:34:PRO:HG2	1.67	1.29
22:HB:1129:A:C4'	43:HW:76:ARG:NH1	1.94	1.29
29:JI:26:ARG:NE	47:J1:68:ARG:HH11	1.29	1.29
10:AJ:65:LEU:HB2	14:AN:56:VAL:CG2	1.60	1.28
22:BB:2334:C:N1	44:BX:32:LYS:CE	1.91	1.28
22:DB:1041:G:N2	52:D6:5:SER:HB3	1.19	1.28
22:DB:2544:A:OP1	32:DL:36:THR:CG2	1.81	1.28
22:DB:887:G:P	43:DW:167:THR:HB	1.73	1.28
1:EA:641:U:C5	8:EH:116:LYS:HG2	1.67	1.28
1:GA:826:C:H4'	8:GH:12:ARG:CD	1.61	1.28
13:GM:82:MET:SD	13:GM:92:HIS:CB	2.19	1.28
1:IA:600:C:P	8:IH:97:VAL:HG11	1.71	1.28
1:IA:259:G:OP2	20:IT:80:ARG:NH1	1.66	1.28
22:JB:469:G:P	50:J4:40:HIS:HA	1.71	1.28
22:JB:465:C:O2	50:J4:39:ARG:HD3	1.12	1.28
25:BE:76:ARG:HD2	37:BQ:2:GLN:NE2	1.42	1.28
3:CC:23:TYR:OH	10:CJ:9:ARG:HB2	1.13	1.28

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:DB:1582:A:OP1	24:DD:24:LEU:HD13	1.17	1.28
22:FB:2240:C:OP2	44:FX:14:ARG:CD	1.80	1.28
34:FN:27:TYR:CG	43:FW:73:LYS:CA	2.08	1.28
1:GA:1496:C:O2	22:HB:1902:A:H2	1.09	1.28
3:GC:23:TYR:HD2	10:GJ:94:VAL:CA	1.25	1.28
22:HB:3170:A:O3'	53:H7:131:ARG:NH2	1.64	1.28
22:HB:2001:G:N3	38:HR:33:ARG:CZ	1.90	1.28
22:JB:2571:G:O6	24:JD:237:GLU:CD	1.68	1.28
22:JB:647:G:N1	33:JM:109:LEU:HD13	1.44	1.28
22:BB:2328:G:OP2	51:B5:41:ILE:HD12	1.33	1.28
22:BB:1045:G:OP2	52:B6:16:VAL:CG2	1.81	1.28
22:BB:1237:G:C5'	39:BS:87:ARG:HB2	1.56	1.28
1:CA:1224:G:O2'	13:CM:102:ARG:HB3	1.28	1.28
22:DB:1815:G:OP1	24:DD:54:ILE:HB	1.30	1.28
22:DB:2661:G:H2'	25:DE:12:THR:OG1	1.29	1.28
22:DB:503:G:H1'	40:DT:28:ALA:CA	1.64	1.28
22:FB:23:G:O2'	40:FT:98:ASP:CG	1.69	1.28
22:FB:2773:G:N3	22:FB:2780:A:H1'	1.46	1.28
22:FB:3093:C:H5'	29:FI:22:ASP:N	1.44	1.28
1:GA:1059:C:O2'	10:GJ:52:GLY:CA	1.80	1.28
1:GA:969:A:N1	13:GM:126:LYS:CD	1.94	1.28
22:HB:1816:G:C2	24:HD:252:LYS:HD2	1.68	1.28
27:FG:179:LYS:CD	1:IA:1021:G:H4'	0.91	1.28
1:IA:247:G:H5'	17:IQ:100:LYS:CD	1.63	1.28
22:JB:2000:U:H4'	48:J2:8:LYS:CE	1.63	1.28
22:JB:672:C:O3'	26:JF:94:THR:N	1.66	1.28
22:JB:1040:A:C4'	34:JN:125:LYS:HZ3	1.46	1.28
22:BB:1325:U:O4	41:BU:61:LYS:HB2	1.22	1.28
22:BB:687:G:C8	26:BF:68:ARG:CZ	2.15	1.28
1:CA:1239:A:O2'	7:CG:115:ARG:HD2	1.24	1.28
22:DB:2283:G:O2'	27:DG:153:ASP:HB3	1.16	1.28
22:DB:2558:C:O4'	25:DE:133:LYS:CE	1.81	1.28
22:DB:2343:C:C5'	44:DX:38:VAL:O	1.80	1.28
1:EA:1313:U:OP2	19:ES:6:LYS:HA	1.33	1.28
1:EA:8:A:N3	4:ED:209:ARG:NH1	1.79	1.28
1:EA:280:C:H2'	17:EQ:95:TYR:OH	1.23	1.28
22:FB:346:C:O2	42:FV:79:SER:HB3	1.30	1.28
22:FB:457:C:C5'	38:FR:3:ARG:CD	2.05	1.28
1:GA:35:G:C4	12:GL:118:SER:HA	1.67	1.28
22:HB:2328:G:OP2	51:H5:41:ILE:HD12	1.33	1.28
22:HB:2064:U:OP1	47:H1:33:VAL:HG21	1.17	1.28

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:JB:1166:A:P	38:JR:55:ARG:NH1	2.06	1.28
26:JF:28:HIS:CG	33:JM:18:ARG:HE	1.50	1.28
23:JA:49:C:C4'	36:JP:95:LYS:HG3	1.63	1.28
1:AA:668:G:O2'	15:AO:45:VAL:HG13	1.24	1.28
1:CA:1230:C:N3	13:CM:125:ARG:O	1.65	1.28
22:DB:2627:G:N2	32:DL:28:GLY:HA3	0.98	1.28
22:FB:660:G:O2'	51:F5:17:THR:CG2	1.81	1.28
22:FB:1826:U:O2'	22:FB:1952:A:H2'	1.29	1.28
22:FB:2399:C:H5	51:F5:31:HIS:CA	1.44	1.28
3:GC:59:ARG:C	10:GJ:92:THR:CG2	2.01	1.28
22:HB:512:A:O5'	40:HT:16:GLN:CG	1.68	1.28
1:IA:537:G:H5''	12:IL:113:ARG:NH1	1.47	1.28
22:JB:1744:G:C6	37:JQ:124:VAL:HG23	1.67	1.28
22:JB:592:G:O3'	38:JR:5:LYS:HD3	1.21	1.28
22:BB:696:U:C5'	50:B4:16:HIS:CE1	2.03	1.28
1:CA:1226:C:N4	13:CM:104:ARG:NE	1.80	1.28
22:DB:2325:A:N1	49:D3:26:LYS:O	1.64	1.28
22:DB:1469:U:O2	35:DO:63:ARG:NH1	1.63	1.28
22:DB:3093:C:H5'	29:DI:22:ASP:N	0.96	1.28
22:DB:742:G:N7	24:DD:208:LYS:HE2	1.45	1.28
25:DE:52:ALA:CB	37:DQ:5:ILE:HG21	1.62	1.28
22:DB:1162:A:N3	38:DR:78:THR:CG2	1.96	1.28
34:DN:63:GLY:CA	43:DW:115:ILE:HD11	1.46	1.28
1:EA:1330:U:OP2	13:EM:26:GLY:HA3	1.29	1.28
38:FR:94:VAL:HG21	39:FS:10:LYS:O	1.22	1.28
22:HB:600:G:N2	51:H5:2:PRO:HD2	1.49	1.28
22:HB:2365:U:C1'	44:HX:37:LEU:HD11	1.61	1.28
22:HB:2344:G:OP1	44:HX:41:ARG:HA	1.12	1.28
1:IA:1349:A:OP1	9:II:121:ARG:HG2	1.18	1.28
1:IA:1057:G:OP1	3:IC:155:GLY:HA3	1.22	1.28
1:IA:237:C:C5'	17:IQ:27:PHE:HZ	1.44	1.28
22:JB:3124:G:C4'	53:J7:62:LYS:HD3	1.64	1.28
22:JB:2851:G:H4'	37:JQ:8:ASN:OD1	1.26	1.28
1:AA:43:C:C3'	16:AP:12:LYS:HE3	1.61	1.28
22:BB:1050:G:H4'	43:BW:37:LYS:CE	1.57	1.28
22:BB:2008:C:C1'	31:BK:103:TYR:CE2	1.93	1.28
32:BL:113:PRO:CG	37:BQ:76:GLY:N	1.97	1.28
22:BB:887:G:C5'	43:BW:170:SER:HB2	1.62	1.28
22:DB:2039:G:O2'	48:D2:5:PRO:HA	1.28	1.28
22:DB:2615:U:C3'	25:DE:79:ARG:HD2	1.61	1.28
22:DB:917:U:C5'	43:DW:122:ILE:HA	1.62	1.28

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:EA:1349:A:OP2	9:EI:118:LYS:HD3	1.15	1.28
1:EA:1457:A:OP1	20:ET:27:LYS:HB3	1.32	1.28
1:EA:401:C:O2'	1:EA:621:A:N3	1.63	1.28
22:FB:222:G:O6	51:F5:4:MET:SD	1.92	1.28
12:GL:19:ARG:O	12:GL:21:LYS:CG	1.74	1.28
22:HB:1829:C:H5'	22:HB:1911:A:C4'	1.63	1.28
22:HB:2063:A:O3'	47:H1:33:VAL:CG1	1.81	1.28
22:JB:1855:G:H1	22:JB:3877:A:N6	1.28	1.28
22:JB:1781:C:H4'	24:JD:213:ARG:NH1	1.44	1.28
1:AA:194:C:H4'	20:AT:65:LYS:O	1.30	1.28
23:BA:107:C:H5'	43:BW:88:TYR:C	1.54	1.28
1:CA:275:G:O2'	17:CQ:18:THR:HG21	1.30	1.28
7:EG:13:GLN:CG	9:EI:42:ARG:HH22	1.43	1.28
22:FB:1072:U:N3	30:FJ:10:LEU:C	1.84	1.28
22:FB:2:G:N1	22:FB:2875:C:N3	1.81	1.28
22:FB:2628:C:C1'	32:FL:28:GLY:HA3	1.62	1.28
40:FT:56:LEU:HA	48:F2:28:PRO:CD	1.15	1.28
1:GA:509:A:H5'	4:GD:52:SER:OG	1.18	1.28
1:GA:658:G:H5'	15:GO:8:LYS:NZ	0.97	1.28
22:HB:514:G:C2	40:HT:14:ARG:HG3	1.69	1.28
1:IA:684:A:C1'	11:IK:39:PRO:HD2	1.62	1.28
22:JB:63:A:O4'	41:JU:62:ARG:HD3	1.10	1.28
1:AA:970:C:O2	13:AM:126:LYS:HD3	1.25	1.28
22:BB:1805:G:C4'	24:BD:44:ASN:N	1.96	1.28
22:BB:625:A:C4'	26:BF:38:ARG:HD3	1.62	1.28
32:BL:87:SER:CA	37:BQ:82:PRO:O	1.81	1.28
22:DB:2494:C:C3'	31:DK:108:GLY:HA2	1.63	1.28
23:DA:105:G:C4'	43:DW:91:PRO:HA	1.45	1.28
22:FB:528:G:H5'	40:FT:35:PRO:O	1.18	1.28
22:FB:2393:G:O2'	33:FM:65:PHE:HB2	1.23	1.28
1:GA:947:G:OP1	13:GM:114:ARG:HG3	1.29	1.28
22:HB:597:U:O2'	26:HF:84:PHE:CZ	1.77	1.28
22:HB:825:C:C4'	38:HR:13:ARG:NH2	1.96	1.28
1:AA:1349:A:O3'	9:AI:121:ARG:HG2	1.29	1.28
22:BB:1143:A:O4'	31:BK:111:LYS:CE	1.80	1.28
22:BB:2236:U:P	44:BX:10:SER:HB3	1.62	1.28
22:BB:2462:C:C1'	34:BN:50:ALA:HB1	1.61	1.28
23:DA:117:G:C5'	36:DP:52:ALA:HA	1.62	1.28
22:DB:2733:A:C4	52:D6:15:LYS:HE2	1.69	1.28
43:DW:84:TYR:CD2	43:DW:128:ARG:NE	1.98	1.28
1:GA:35:G:C1'	12:GL:117:ARG:O	1.81	1.28

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:HB:3172:U:P	53:H7:105:ARG:NH1	2.06	1.28
12:IL:11:VAL:HG11	17:IQ:36:ILE:CG1	1.51	1.28
22:JB:2324:G:H4'	49:J3:40:TYR:CE1	1.69	1.28
22:JB:1583:A:N9	24:JD:84:TYR:CE1	2.00	1.28
22:JB:542:A:OP1	38:JR:28:ARG:NE	1.65	1.28
22:JB:312:G:C5'	42:JV:90:LYS:H	1.27	1.28
22:BB:1377:G:C4	47:B1:3:LYS:HG3	1.69	1.27
22:BB:1338:G:N2	40:BT:107:ILE:CG2	1.81	1.27
22:DB:2463:G:N2	34:DN:120:ARG:CD	1.96	1.27
22:DB:864:C:H4'	46:DZ:43:MET:CG	1.60	1.27
1:EA:827:U:C5'	8:EH:19:VAL:HG21	1.63	1.27
22:FB:1019:U:H5'	31:FK:63:ARG:CD	1.62	1.27
22:HB:2656:G:P	25:HE:121:ASN:HD22	1.55	1.27
22:HB:673:G:H5''	26:HF:93:TYR:CE1	1.68	1.27
34:HN:64:LYS:HB2	43:HW:173:PRO:O	1.11	1.27
1:IA:919:A:C4	1:IA:920:U:C5	1.94	1.27
1:AA:236:G:H4'	17:AQ:42:TYR:OH	1.29	1.27
22:BB:226:C:OP2	47:B1:28:ARG:NH1	1.63	1.27
22:BB:625:A:C5'	26:BF:38:ARG:HD3	1.65	1.27
22:BB:2814:G:N2	35:BO:92:GLY:H	1.29	1.27
1:CA:1187:G:N3	14:CN:61:TRP:HA	1.49	1.27
1:CA:127:G:N2	17:CQ:61:GLU:OE2	1.67	1.27
1:CA:277:C:OP1	17:CQ:43:LEU:HD21	1.33	1.27
22:DB:2411:A:C4	47:D1:27:THR:HB	0.82	1.27
22:DB:546:A:C4'	38:DR:57:PHE:CE1	2.13	1.27
22:DB:869:C:O2	44:DX:24:LYS:HD3	1.26	1.27
43:DW:84:TYR:OH	43:DW:91:PRO:HG2	1.18	1.27
1:EA:130:A:N6	17:EQ:64:PRO:HD3	1.31	1.27
22:FB:574:C:C5'	39:FS:82:ARG:HH12	1.47	1.27
1:GA:1102:A:O3'	2:GB:98:LEU:HD22	1.20	1.27
1:GA:932:C:C4'	7:GG:4:ARG:HG3	1.65	1.27
6:GF:46:ARG:NH2	18:GR:35:ARG:NH1	1.80	1.27
22:HB:2356:A:N3	36:HP:89:PHE:CE2	2.01	1.27
22:HB:2490:U:O2	25:HE:139:GLY:HA3	1.33	1.27
1:IA:1223:C:OP2	19:IS:78:ARG:NH2	1.67	1.27
1:IA:261:U:C5	20:IT:79:ARG:NE	2.01	1.27
22:JB:1583:A:H1'	24:JD:84:TYR:CE1	1.68	1.27
22:JB:1151:U:OP1	31:JK:51:LEU:HD12	1.22	1.27
1:AA:760:G:O2'	17:AQ:102:GLY:HA2	1.12	1.27
5:AE:78:HIS:HB3	8:AH:104:ARG:CZ	1.64	1.27
22:BB:2007:G:N2	31:BK:103:TYR:CE1	2.02	1.27

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:DB:1402:G:N1	22:DB:1412:C:C4	2.02	1.27
22:DB:2729:A:C2	52:D6:18:ARG:NH2	2.01	1.27
22:DB:503:G:H5'	40:DT:30:TYR:CZ	1.70	1.27
1:EA:1187:G:H1'	9:EI:111:ARG:CZ	1.53	1.27
40:FT:60:ILE:CG2	48:F2:25:LEU:HD21	1.63	1.27
22:FB:465:C:N4	50:F4:39:ARG:CD	1.82	1.27
22:FB:2614:A:H2	25:FE:79:ARG:NH1	1.11	1.27
22:FB:2810:A:H8	37:FQ:6:LYS:CG	1.37	1.27
7:GG:153:HIS:ND1	11:GK:59:TYR:HD1	1.12	1.27
22:HB:2577:A:C5'	24:HD:235:GLY:O	1.82	1.27
32:HL:91:PHE:CA	37:HQ:79:ARG:HD2	1.63	1.27
22:HB:1336:G:H5'	40:HT:103:LEU:CG	1.63	1.27
22:HB:918:A:OP1	43:HW:118:HIS:HB3	1.10	1.27
22:JB:3171:A:C2'	53:J7:105:ARG:HD3	1.46	1.27
22:JB:1001:A:H5'	46:JZ:27:LYS:CE	1.62	1.27
22:JB:2000:U:O3'	48:J2:8:LYS:HE3	1.24	1.27
22:JB:2261:G:C3'	49:J3:3:LYS:NZ	1.94	1.27
22:JB:2510:A:H5'	28:JH:174:GLY:O	1.27	1.27
38:JR:88:ILE:HB	39:JS:51:ALA:CB	1.62	1.27
22:JB:348:U:O3'	42:JV:13:LYS:CD	1.81	1.27
22:JB:489:A:H4'	42:JV:74:LEU:O	1.15	1.27
1:AA:15:G:O3'	5:AE:24:ARG:NH1	1.68	1.27
1:AA:1059:C:C4'	14:AN:45:ARG:NH2	1.96	1.27
22:BB:1237:G:C5'	39:BS:87:ARG:HB3	1.61	1.27
22:BB:1338:G:N2	40:BT:107:ILE:HG23	0.96	1.27
1:CA:1456:A:C5'	20:CT:28:ALA:HB1	1.60	1.27
22:DB:1234:C:O3'	39:DS:68:LYS:HD2	1.12	1.27
1:EA:1117:G:C1'	9:EI:104:ARG:NH1	1.70	1.27
10:EJ:63:PHE:C	14:EN:59:ALA:HB2	1.53	1.27
1:EA:188:C:C4	20:ET:105:SER:OG	1.85	1.27
23:FA:78:A:C4'	43:FW:13:LYS:HD3	1.49	1.27
22:HB:1377:G:OP1	47:H1:40:HIS:ND1	1.67	1.27
22:HB:2861:A:C1'	48:H2:33:CYS:N	1.95	1.27
22:HB:1150:C:OP1	31:HK:52:GLY:HA2	1.32	1.27
22:JB:3187:U:OP1	29:JI:11:LEU:HD21	1.18	1.27
22:JB:60:A:OP2	45:JY:44:ARG:CB	1.78	1.27
1:AA:529:G:N2	12:AL:49:ASN:H	1.24	1.27
22:BB:2007:G:N3	31:BK:103:TYR:HE1	1.29	1.27
22:BB:1050:G:C4'	43:BW:37:LYS:HE2	1.47	1.27
1:CA:559:A:OP2	5:CE:123:LEU:HA	1.10	1.27
22:DB:464:G:O6	50:D4:39:ARG:HD3	1.25	1.27

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:DB:512:A:H4'	40:DT:15:LYS:CG	1.63	1.27
1:EA:1102:A:C2	2:EB:104:ASN:ND2	2.03	1.27
1:EA:958:A:H1'	19:ES:55:LYS:CD	1.62	1.27
22:FB:1240:G:OP1	38:FR:16:LYS:HB3	1.23	1.27
1:GA:925:G:N2	1:GA:1503:A:P	2.07	1.27
22:HB:1090:C:H1'	30:HJ:132:ARG:NE	1.47	1.27
22:HB:2364:C:H1'	44:HX:69:PHE:CZ	1.68	1.27
1:AA:1308:U:OP1	13:AM:97:PRO:CB	1.83	1.27
22:BB:922:A:N3	22:BB:2244:C:H5'	1.47	1.27
22:DB:2661:G:N9	25:DE:11:MET:HA	1.46	1.27
1:EA:1057:G:H5''	3:EC:154:SER:C	1.18	1.27
1:EA:6:G:O6	5:EE:95:ALA:HB3	1.09	1.27
4:ED:50:ARG:NH1	5:EE:10:MET:SD	2.05	1.27
1:EA:643:C:O2	8:EH:132:GLU:CB	1.82	1.27
49:F3:24:THR:C	51:F5:35:GLY:CA	1.97	1.27
22:FB:60:A:N6	22:FB:92:U:O4	1.64	1.27
22:HB:2063:A:OP1	47:H1:20:VAL:HG21	1.25	1.27
22:HB:71:A:N9	45:HY:54:ASN:O	1.64	1.27
22:JB:320:A:C4'	42:JV:30:LYS:HB2	1.64	1.27
1:AA:1061:G:C5'	10:AJ:58:ASP:O	1.82	1.27
22:BB:1044:U:O4	52:B6:15:LYS:CG	1.82	1.27
22:BB:7:G:N1	22:BB:2870:C:C2	2.00	1.27
22:BB:1674:C:OP1	25:BE:134:TRP:HB3	1.13	1.27
22:DB:227:G:OP1	33:DM:59:ARG:NH2	1.65	1.27
32:DL:91:PHE:CG	37:DQ:79:ARG:HD2	1.68	1.27
22:HB:1381:G:O6	47:H1:1:MET:HB2	1.28	1.27
22:HB:1980:A:OP1	25:HE:135:HIS:HD2	1.16	1.27
25:HE:151:TYR:HA	31:HK:106:TYR:OH	1.34	1.27
1:IA:1148:U:OP1	9:II:14:VAL:HG11	1.14	1.27
23:JA:15:A:P	44:JX:53:MET:CE	2.22	1.27
22:JB:1820:G:N1	24:JD:221:GLN:HG2	1.47	1.27
22:JB:2261:G:H3'	49:J3:3:LYS:NZ	1.45	1.27
1:AA:438:G:H5'	4:AD:123:HIS:CD2	1.68	1.27
5:AE:148:VAL:HB	8:AH:107:LEU:CB	1.56	1.27
22:BB:1377:G:C6	47:B1:3:LYS:HB2	1.70	1.27
22:BB:1809:G:C5'	24:BD:63:ARG:CZ	2.11	1.27
25:BE:51:TYR:CD1	37:BQ:5:ILE:HG12	1.69	1.27
1:CA:35:G:O2'	12:CL:118:SER:O	1.53	1.27
22:DB:2662:C:N4	25:DE:21:ILE:HD12	1.50	1.27
1:EA:927:G:OP2	1:EA:1503:A:C8	1.86	1.27
22:FB:1828:C:O2	22:FB:1912:G:H5'	1.14	1.27

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:FB:756:C:OP1	25:FE:130:GLY:CA	1.83	1.27
40:FT:60:ILE:CG2	48:F2:25:LEU:CD1	1.81	1.27
22:HB:7:G:N2	22:HB:2871:U:C2	2.03	1.27
1:IA:815:A:C2	1:IA:1527:C:O2	1.87	1.27
23:JA:14:C:C5	44:JX:53:MET:HA	1.68	1.27
22:JB:573:C:C6	38:JR:37:GLN:OE1	1.81	1.27
34:BN:106:GLU:HG2	43:BW:114:ASP:O	1.24	1.27
1:CA:128:G:O3'	17:CQ:3:LYS:CE	1.65	1.27
22:DB:1135:C:H2'	52:D6:4:ARG:O	1.32	1.27
22:DB:2007:G:C5'	25:DE:149:ARG:HD2	1.64	1.27
22:DB:512:A:C4'	40:DT:15:LYS:HG3	1.65	1.27
33:FM:63:ARG:CZ	51:F5:9:MET:HE3	1.64	1.27
22:FB:1240:G:C5'	38:FR:16:LYS:CD	2.13	1.27
22:FB:1636:G:C1'	50:F4:1:MET:CA	2.11	1.27
1:GA:17:U:C5'	5:GE:16:THR:HB	1.65	1.27
22:HB:2505:G:H5'	22:HB:2722:C:OP1	1.23	1.27
32:HL:88:THR:C	37:HQ:81:PHE:HB2	1.53	1.27
22:JB:2399:C:C6	51:J5:32:GLN:CA	2.09	1.27
22:JB:2399:C:O2	51:J5:32:GLN:NE2	1.57	1.27
22:JB:979:A:O2'	46:JZ:13:PRO:HG3	1.16	1.27
22:JB:1583:A:C4	24:JD:84:TYR:CE1	2.20	1.27
22:JB:1265:G:C5'	38:JR:10:ARG:NE	1.91	1.27
25:BE:176:ARG:NH1	37:BQ:16:ILE:CA	1.83	1.27
25:BE:18:ASP:OD2	32:BL:85:ASP:HA	1.26	1.27
22:DB:2729:A:N1	52:D6:18:ARG:NH2	1.81	1.27
32:DL:91:PHE:CD1	37:DQ:79:ARG:HD2	1.69	1.27
22:DB:1630:A:C2	40:DT:108:PRO:HB3	1.69	1.27
1:EA:436:C:H5'	4:ED:156:GLU:CB	1.62	1.27
22:FB:1405:A:N6	41:FU:15:LYS:HE2	0.95	1.27
22:FB:2600:A:H4'	25:FE:159:HIS:N	1.48	1.27
22:FB:2713:A:N7	25:FE:204:ALA:O	1.68	1.27
22:HB:3167:U:C4	53:H7:98:ARG:NE	2.02	1.27
1:IA:1321:C:C5'	13:IM:87:TYR:CD2	2.15	1.27
22:JB:236:C:C1'	22:JB:632:A:O2'	1.81	1.27
22:BB:1235:C:C5	39:BS:71:ILE:HG21	1.69	1.26
22:BB:2029:G:H5''	48:B2:19:ARG:CD	1.62	1.26
1:CA:281:G:OP1	17:CQ:40:LYS:HE2	1.23	1.26
22:DB:225:G:C4'	47:D1:28:ARG:HG2	1.64	1.26
22:DB:2463:G:C1'	34:DN:121:LEU:CD1	2.11	1.26
32:DL:86:GLY:HA3	37:DQ:84:ALA:CB	1.61	1.26
22:DB:907:U:C5'	43:DW:143:ILE:HD11	1.63	1.26

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:DN:99:LYS:HB3	43:DW:74:ARG:CB	1.62	1.26
1:EA:1106:G:OP1	3:EC:172:ARG:HG3	1.22	1.26
25:FE:75:THR:HG21	37:FQ:2:GLN:NE2	1.46	1.26
43:FW:51:LEU:CD1	43:FW:128:ARG:HH21	1.42	1.26
1:GA:1320:C:H5''	19:GS:3:ARG:CD	1.63	1.26
1:IA:332:G:H1'	20:IT:16:HIS:NE2	1.50	1.26
22:JB:58:C:OP2	41:JU:75:ARG:NH1	1.68	1.26
1:AA:179:A:C4'	20:GT:100:ILE:HG23	1.44	1.26
1:AA:694:A:H5'	11:AK:53:SER:CB	1.61	1.26
22:BB:1829:C:O2'	22:BB:1910:A:C2'	1.83	1.26
22:BB:543:G:H4'	38:BR:41:ASN:OD1	1.09	1.26
1:CA:968:A:O4'	10:CJ:56:HIS:CE1	1.88	1.26
22:DB:3197:U:H1'	22:DB:2181:A:N7	1.48	1.26
22:DB:497:C:C2	40:DT:78:ASN:ND2	2.02	1.26
25:DE:151:TYR:CA	31:DK:106:TYR:CZ	2.16	1.26
1:EA:753:A:C2	8:EH:2:LEU:N	1.97	1.26
22:FB:1142:G:H1'	31:FK:111:LYS:CE	1.64	1.26
38:FR:43:ALA:HA	39:FS:75:LYS:CB	1.65	1.26
22:HB:236:C:H1'	22:HB:632:A:C1'	1.65	1.26
25:HE:151:TYR:CA	31:HK:106:TYR:CZ	2.18	1.26
1:IA:675:A:C6	11:IK:116:HIS:CG	2.20	1.26
22:JB:2182:A:O2'	47:J1:43:TRP:HB2	1.32	1.26
22:JB:2263:C:OP2	49:J3:9:ILE:HA	1.23	1.26
22:JB:1167:A:C5'	22:JB:1168:G:N7	1.98	1.26
22:JB:2186:G:N3	24:JD:70:ARG:NH2	1.81	1.26
22:JB:910:U:C4	22:JB:911:A:H5'	1.65	1.26
22:JB:529:U:OP1	40:JT:39:ARG:HG2	1.26	1.26
1:AA:734:G:O2'	18:AR:71:LYS:NZ	1.65	1.26
1:AA:970:C:OP1	10:AJ:57:LYS:HG2	1.10	1.26
1:AA:1396:A:C4	5:AE:19:MET:HE2	1.38	1.26
12:AL:10:LEU:HD12	17:AQ:32:TYR:CE2	1.69	1.26
22:BB:1400:A:N1	22:BB:1414:G:O6	1.67	1.26
22:BB:1805:G:H4'	24:BD:43:ARG:C	1.56	1.26
22:BB:2329:C:OP2	51:B5:42:ARG:HD3	1.32	1.26
23:BA:44:C:N3	27:BG:90:THR:HB	0.94	1.26
1:CA:1343:G:C5'	9:CI:122:ALA:HB3	1.64	1.26
1:CA:643:C:O3'	8:CH:31:PHE:HZ	1.14	1.26
22:DB:308:C:H5''	42:DV:93:ARG:NE	0.93	1.26
22:DB:547:U:C5'	31:DK:30:LYS:CG	2.07	1.26
22:FB:227:G:H4'	33:FM:55:ARG:NE	1.44	1.26
22:FB:2797:G:OP1	25:FE:111:LYS:CD	1.80	1.26

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:FB:1018:C:C1'	31:FK:134:MET:HG3	1.62	1.26
22:FB:591:G:OP2	38:FR:32:TYR:CE2	1.86	1.26
22:HB:57:G:OP1	41:HU:75:ARG:NH2	1.67	1.26
1:IA:1147:C:H1'	9:II:16:ARG:CZ	1.66	1.26
1:IA:16:A:O2'	5:IE:16:THR:HA	1.31	1.26
1:IA:186:C:O4'	20:IT:81:LYS:CE	1.82	1.26
22:JB:1200:G:H2'	39:JS:83:ARG:NH2	1.48	1.26
22:JB:2003:A:C2'	38:JR:25:TRP:CH2	2.17	1.26
22:JB:2842:C:C4	37:JQ:29:PRO:HD3	1.70	1.26
1:AA:761:G:H5'	17:AQ:102:GLY:N	1.47	1.26
22:BB:1149:G:OP1	31:BK:130:ALA:HA	1.32	1.26
22:BB:1437:A:C2'	22:BB:1438:G:C8	2.17	1.26
22:BB:2218:G:H5''	24:BD:230:ASP:CB	1.63	1.26
25:BE:176:ARG:HD2	37:BQ:19:ASP:OD1	1.29	1.26
22:DB:1666:G:N2	35:DO:106:ASP:CB	1.98	1.26
22:DB:2291:U:P	27:DG:70:ALA:HB2	1.76	1.26
22:DB:2543:A:OP2	32:DL:38:GLY:N	1.66	1.26
1:EA:761:G:N1	17:EQ:104:LYS:CE	1.93	1.26
22:FB:2023:C:OP1	31:FK:132:PHE:CB	1.84	1.26
22:FB:2398:U:H5''	51:F5:34:THR:OG1	1.29	1.26
22:FB:2821:G:H5''	37:FQ:106:TYR:OH	1.34	1.26
22:FB:756:C:OP1	25:FE:130:GLY:HA2	1.13	1.26
22:HB:2760:G:O2'	31:HK:149:LYS:HD3	1.35	1.26
22:HB:2646:C:O2'	28:HH:111:HIS:CB	1.83	1.26
40:JT:59:PHE:O	48:J2:28:PRO:HG3	1.15	1.26
1:AA:564:C:O2	8:AH:91:ARG:NH2	1.67	1.26
22:BB:2790:C:O2'	48:B2:42:SER:C	1.71	1.26
23:BA:78:A:C2	43:BW:22:VAL:HG21	1.70	1.26
22:BB:2600:A:H4'	25:BE:159:HIS:N	1.49	1.26
10:CJ:63:PHE:CZ	14:CN:58:LYS:HG2	1.68	1.26
22:FB:2007:G:H1'	31:FK:103:TYR:OH	1.36	1.26
22:FB:2715:C:C2	22:FB:2749:A:C2	2.23	1.26
22:FB:346:C:C2	42:FV:79:SER:HB3	1.61	1.26
22:HB:699:G:C4	50:H4:5:TYR:CA	2.17	1.26
22:HB:1261:G:C4	38:HR:3:ARG:HB2	1.69	1.26
22:JB:488:A:C2	42:JV:74:LEU:CD2	2.05	1.26
22:JB:1166:A:C6	46:JZ:7:ARG:NH1	2.03	1.26
1:AA:378:G:OP1	16:AP:25:ARG:CG	1.81	1.26
1:CA:376:G:H4'	16:CP:28:ARG:NH1	1.46	1.26
1:CA:815:A:H2	1:CA:1528:U:O4'	0.98	1.26
1:CA:9:G:OP1	5:CE:122:GLU:CB	1.84	1.26

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:CF:49:ALA:CB	18:CR:79:LEU:HA	1.65	1.26
22:DB:2498:U:H5'	22:DB:2546:G:N2	1.51	1.26
22:DB:2619:G:OP1	31:DK:122:HIS:NE2	1.68	1.26
22:FB:1469:U:O4	35:FO:60:LEU:HD12	1.30	1.26
22:FB:1072:U:N3	30:FJ:11:GLN:N	1.84	1.26
22:FB:2463:G:O2'	34:FN:121:LEU:HA	1.20	1.26
1:GA:265:G:H21	17:GQ:70:ARG:NH2	1.32	1.26
7:GG:17:VAL:CG2	9:GI:41:VAL:HG13	1.64	1.26
1:IA:751:U:O2'	15:IO:69:TYR:CE2	1.80	1.26
1:AA:439:A:H4'	4:AD:122:ARG:NH2	0.93	1.26
1:AA:932:C:C4'	7:AG:3:ARG:HD3	1.40	1.26
1:AA:274:A:O4'	17:AQ:15:MET:CG	1.82	1.26
22:BB:1805:G:C2	24:BD:51:SER:HB3	1.70	1.26
1:CA:1228:C:O4'	13:CM:118:ALA:O	1.53	1.26
22:DB:1795:C:C5'	24:DD:250:TRP:HZ2	1.46	1.26
34:DN:36:ILE:CG1	43:DW:74:ARG:HA	1.63	1.26
1:GA:877:C:H1'	8:GH:3:THR:CA	1.55	1.26
1:GA:376:G:C5'	16:GP:28:ARG:HH22	1.31	1.26
22:HB:648:A:C5'	33:HM:131:LYS:HZ1	1.46	1.26
22:JB:529:U:O3'	40:JT:39:ARG:NH2	1.65	1.26
22:JB:1818:G:OP2	24:JD:223:GLY:HA3	1.36	1.26
22:BB:1817:U:C5'	24:BD:224:SER:N	1.97	1.26
22:BB:2600:A:H4'	25:BE:158:GLY:C	1.56	1.26
1:CA:523:A:N6	12:CL:90:VAL:CG1	1.96	1.26
1:CA:559:A:C2	5:CE:124:GLY:O	1.87	1.26
1:CA:582:U:H4'	15:CO:68:ARG:NH2	1.50	1.26
22:DB:699:G:C4	50:D4:5:TYR:HA	1.69	1.26
22:DB:1809:G:C4'	24:DD:157:ARG:NH1	1.97	1.26
22:DB:2710:C:H4'	25:DE:169:ASN:CB	1.64	1.26
22:FB:231:G:O6	51:F5:4:MET:CB	1.84	1.26
1:GA:816:A:OP2	1:GA:1526:G:O2'	1.53	1.26
1:GA:1398:A:C5	5:GE:22:GLY:N	2.04	1.26
22:HB:2373:C:OP2	33:HM:62:LYS:HE3	1.24	1.26
22:JB:2464:G:H4'	34:JN:123:GLY:CA	1.66	1.26
22:JB:3167:U:C5'	53:J7:97:LYS:NZ	1.98	1.26
1:AA:741:G:N2	15:AO:51:HIS:HB3	1.51	1.26
22:BB:1401:G:C6	22:BB:1413:U:O4	1.87	1.26
22:BB:1631:C:C2	40:BT:108:PRO:HD2	1.71	1.26
22:BB:2365:U:O2'	44:BX:37:LEU:HD13	1.35	1.26
22:BB:1238:A:H5''	39:BS:73:LYS:CA	1.66	1.26
22:DB:1135:C:C2'	52:D6:4:ARG:O	1.83	1.26

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:DB:1402:G:C6	22:DB:1412:C:N4	2.03	1.26
22:DB:2035:G:C5'	25:DE:142:GLY:CA	2.01	1.26
41:DU:7:LEU:HD22	45:DY:27:GLU:OE2	1.34	1.26
1:EA:1320:C:N4	19:ES:36:ARG:HG2	1.50	1.26
22:FB:409:G:OP1	47:F1:10:VAL:CG2	1.83	1.26
22:FB:1516:A:O2'	24:FD:98:ALA:HB2	1.26	1.26
22:FB:2763:U:O2'	25:FE:41:THR:HG22	1.29	1.26
38:FR:47:TYR:HA	39:FS:74:TYR:CA	1.64	1.26
1:GA:1248:A:C2'	9:GI:70:LYS:HE3	1.64	1.26
1:GA:265:G:C4	17:GQ:64:PRO:HB2	1.71	1.26
13:IM:86:CYS:HA	19:IS:74:PHE:CA	1.64	1.26
22:JB:910:U:C2	22:JB:911:A:H5'	1.71	1.26
1:AA:1349:A:OP1	9:AI:120:ARG:N	1.66	1.26
22:BB:2814:G:H21	35:BO:92:GLY:N	1.29	1.26
22:BB:648:A:C2	33:BM:109:LEU:HG	1.68	1.26
22:DB:2040:A:O2'	48:D2:3:LYS:HG2	1.16	1.26
1:GA:729:A:N6	15:GO:51:HIS:CE1	2.01	1.26
22:HB:2372:A:H4'	33:HM:60:LEU:C	1.55	1.26
1:IA:707:C:H5''	11:IK:85:ARG:CZ	1.66	1.26
22:JB:596:C:OP1	33:JM:28:LYS:NZ	1.68	1.26
34:JN:61:ARG:CB	43:JW:109:GLN:O	1.83	1.26
1:AA:663:A:H5''	18:AR:64:ARG:NH1	1.48	1.25
1:AA:668:G:O2'	15:AO:45:VAL:CG1	1.74	1.25
5:AE:148:VAL:CG2	8:AH:107:LEU:HB3	1.64	1.25
22:BB:2039:G:C2	48:B2:5:PRO:HD3	1.70	1.25
22:BB:1809:G:H5'	24:BD:63:ARG:NH1	0.93	1.25
22:BB:687:G:H8	26:BF:68:ARG:CZ	1.48	1.25
43:BW:49:THR:OG1	43:BW:132:GLN:CD	1.72	1.25
1:CA:276:G:H21	17:CQ:68:ARG:NH2	1.30	1.25
1:CA:520:A:C8	12:CL:51:ALA:CB	2.07	1.25
10:CJ:63:PHE:CE2	14:CN:58:LYS:HG2	1.69	1.25
22:FB:2738:A:N3	28:FH:64:LEU:HD13	1.51	1.25
22:HB:2399:C:OP1	49:H3:24:THR:HG21	1.34	1.25
22:HB:1276:U:H1'	48:H2:10:LYS:CE	1.66	1.25
22:HB:1804:U:O2'	24:HD:46:ARG:CB	1.82	1.25
22:HB:1582:A:O2'	24:HD:215:LEU:HB3	1.19	1.25
22:HB:1468:A:N6	35:HO:76:VAL:CG2	1.99	1.25
22:HB:1338:G:C4	40:HT:107:ILE:HG23	1.65	1.25
1:EA:1273:G:H8	1:IA:1265:G:C5'	1.46	1.25
1:IA:589:C:C5'	8:IH:31:PHE:H	1.48	1.25
22:JB:3167:U:C2	53:J7:101:LYS:HE3	1.70	1.25

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:JB:2557:G:N2	25:JE:133:LYS:HE2	1.50	1.25
22:JB:2707:G:O3'	32:JL:82:LYS:CE	1.82	1.25
22:JB:2842:C:H42	37:JQ:28:ARG:CA	1.30	1.25
1:AA:1128:C:H5'	9:AI:16:ARG:NH1	1.51	1.25
22:BB:2790:C:O2	48:B2:43:HIS:NE2	1.67	1.25
22:BB:1044:U:OP2	52:B6:9:LYS:HG2	1.17	1.25
1:CA:943:U:H1'	9:CI:124:GLN:NE2	1.48	1.25
22:DB:6:A:H4'	31:DK:159:SER:O	1.15	1.25
1:EA:653:A:C2	8:EH:27:PRO:CG	2.18	1.25
22:FB:2598:C:O2	25:FE:154:LYS:NZ	1.68	1.25
22:FB:3875:A:O4'	53:F7:43:LYS:CB	1.76	1.25
22:FB:2372:A:O2'	33:FM:59:ARG:HA	1.14	1.25
1:GA:1114:C:H1'	14:GN:60:SER:O	1.12	1.25
1:GA:1226:C:N4	13:GM:104:ARG:CD	1.97	1.25
22:HB:2337:A:C2	51:H5:52:LYS:HD3	1.70	1.25
22:HB:543:G:O2'	38:HR:42:ALA:HA	1.33	1.25
22:HB:699:G:N3	50:H4:5:TYR:CA	1.99	1.25
22:HB:58:C:N3	22:HB:73:A:C2	2.03	1.25
22:HB:915:C:O2'	43:HW:163:ASP:HB2	1.31	1.25
1:IA:588:G:O2'	8:IH:31:PHE:HB2	1.34	1.25
1:IA:1320:C:OP1	19:IS:3:ARG:HD3	1.10	1.25
22:JB:2209:G:C3'	47:J1:39:VAL:HA	1.65	1.25
22:JB:1075:C:O4'	30:JJ:88:SER:OG	1.52	1.25
22:JB:2003:A:C2'	38:JR:25:TRP:HH2	1.47	1.25
22:JB:489:A:O2'	42:JV:74:LEU:HA	1.10	1.25
1:AA:620:C:H4'	4:AD:138:TYR:CZ	1.70	1.25
1:AA:1381:U:C4	7:AG:77:SER:O	1.88	1.25
23:BA:107:C:C4'	43:BW:89:GLY:CA	2.11	1.25
22:BB:1805:G:C2	24:BD:51:SER:CB	2.19	1.25
25:BE:17:ASN:C	37:BQ:87:LEU:HD11	1.55	1.25
22:BB:2725:C:O4'	28:BH:143:GLN:HB2	1.20	1.25
6:CF:48:LEU:HB3	18:CR:77:GLY:O	1.35	1.25
22:DB:2398:U:C5	51:D5:31:HIS:CA	2.17	1.25
22:DB:2289:A:C2	27:DG:77:PHE:CE1	2.24	1.25
1:GA:195:A:P	20:GT:65:LYS:HG2	1.77	1.25
7:GG:153:HIS:ND1	11:GK:59:TYR:CE1	2.03	1.25
22:HB:2862:G:N3	48:H2:30:LEU:HB3	1.44	1.25
22:HB:1817:U:P	24:HD:224:SER:H	1.59	1.25
22:HB:2847:G:O2'	35:HO:8:ARG:HG2	1.28	1.25
22:HB:658:G:H1'	22:HB:2330:G:OP1	1.09	1.25
22:HB:818:G:O5'	33:HM:42:GLY:N	1.69	1.25

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:JB:2209:G:O3'	47:J1:39:VAL:HG22	1.22	1.25
22:JB:647:G:N1	33:JM:109:LEU:CD1	2.00	1.25
22:JB:637:G:H21	33:JM:74:VAL:CG1	1.47	1.25
34:BN:66:TYR:HB2	43:BW:117:VAL:CG2	1.65	1.25
22:BB:2365:U:H1'	44:BX:37:LEU:CD2	1.64	1.25
49:D3:24:THR:HG23	51:D5:35:GLY:CA	1.66	1.25
22:DB:1810:U:OP1	24:DD:157:ARG:HG2	1.25	1.25
22:DB:2033:C:O2	25:DE:156:MET:SD	1.93	1.25
22:DB:675:C:C4'	33:DM:26:THR:OG1	1.69	1.25
1:EA:1189:C:H2'	3:EC:176:HIS:NE2	1.49	1.25
1:EA:488:C:C4'	4:ED:131:ARG:HD3	1.65	1.25
22:FB:1173:G:OP1	39:FS:24:SER:HA	1.31	1.25
22:FB:1613:G:C3'	22:FB:1614:C:P	2.24	1.25
22:FB:1041:G:C5'	34:FN:119:PHE:CE2	2.17	1.25
22:HB:2789:U:O4'	48:H2:30:LEU:HD11	1.21	1.25
22:HB:60:A:H4'	45:HY:29:ARG:NH2	0.93	1.25
22:HB:699:G:C1'	50:H4:5:TYR:O	1.82	1.25
1:EA:1273:G:N3	1:IA:1264:C:H5"	1.51	1.25
1:IA:1359:C:P	14:IN:31:ARG:HA	1.68	1.25
22:JB:2259:G:O6	44:JX:12:ASN:CB	1.85	1.25
22:JB:2707:G:O3'	32:JL:82:LYS:HE3	1.14	1.25
22:BB:1398:G:C2	22:BB:1416:A:C6	2.23	1.25
22:BB:777:A:OP2	24:BD:211:ARG:NH2	1.67	1.25
1:CA:1307:U:O3'	13:CM:109:THR:CG2	1.83	1.25
22:DB:2714:A:N6	22:DB:2750:G:H1'	1.51	1.25
22:FB:2643:G:OP1	32:FL:32:LYS:NZ	1.69	1.25
1:GA:875:C:O2'	8:GH:11:THR:HG21	1.09	1.25
22:HB:2328:G:OP1	51:H5:41:ILE:HD11	1.34	1.25
22:HB:2815:C:O2'	35:HO:91:PRO:HB3	1.13	1.25
1:IA:450:G:O2'	16:IP:15:PRO:CG	1.83	1.25
22:JB:3167:U:N3	53:J7:101:LYS:HE3	1.50	1.25
22:JB:1405:A:C5	41:JU:15:LYS:CE	2.19	1.25
22:JB:469:G:OP1	50:J4:41:GLN:OE1	1.54	1.25
1:AA:946:A:H4'	13:AM:114:ARG:NH2	1.49	1.25
22:BB:1142:G:C5	31:BK:104:THR:OG1	1.78	1.25
22:BB:2813:G:O3'	35:BO:46:PRO:HG3	1.36	1.25
1:CA:275:G:O2'	17:CQ:18:THR:CG2	1.84	1.25
22:DB:2790:C:HO2'	48:D2:43:HIS:CE1	1.49	1.25
22:DB:3197:U:C3'	22:DB:2181:A:P	2.25	1.25
22:DB:2661:G:N7	25:DE:11:MET:HA	1.50	1.25
1:EA:968:A:OP2	9:EI:125:TYR:HB3	1.10	1.25

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:FB:346:C:C2	42:FV:79:SER:CA	2.20	1.25
22:FB:2767:C:O2	25:FE:61:LYS:HE3	1.15	1.25
1:GA:694:A:O5'	11:GK:53:SER:HB2	1.16	1.25
1:GA:391:G:H5''	16:GP:8:ARG:NH1	1.50	1.25
1:GA:835:U:OP1	18:GR:64:ARG:HD2	1.34	1.25
1:GA:222:U:O2'	20:GT:68:LYS:CE	1.85	1.25
22:HB:3166:G:N7	53:H7:98:ARG:NH2	1.80	1.25
1:IA:767:A:H2	1:IA:1512:U:O2	1.15	1.25
22:JB:493:A:C4'	42:JV:56:LYS:HB2	1.67	1.25
1:AA:949:A:C5'	13:AM:102:ARG:HH21	1.50	1.25
22:BB:597:U:C5'	33:BM:28:LYS:CD	2.13	1.25
22:BB:1143:A:C1'	31:BK:111:LYS:CD	1.84	1.25
1:CA:6:G:O6	5:CE:95:ALA:HB3	1.30	1.25
22:DB:176:A:N3	47:D1:32:HIS:HE1	1.34	1.25
22:DB:2411:A:C2	47:D1:22:MET:HE3	1.72	1.25
1:EA:1298:C:C5	7:EG:114:ARG:NH1	2.00	1.25
22:FB:2810:A:C8	37:FQ:6:LYS:CD	2.20	1.25
22:FB:23:G:H1'	40:FT:96:TYR:CE2	1.70	1.25
23:FA:77:G:O2'	43:FW:31:SER:HB2	1.10	1.25
22:FB:999:A:OP2	46:FZ:8:SER:HA	1.10	1.25
1:GA:17:U:H5'	5:GE:16:THR:CB	1.65	1.25
22:HB:238:G:O2'	22:HB:620:G:OP1	1.55	1.25
22:HB:2848:A:N3	35:HO:7:GLY:O	1.68	1.25
22:HB:1805:G:N3	24:HD:51:SER:HB3	1.41	1.25
22:HB:1468:A:C8	35:HO:77:ARG:HD3	1.68	1.25
1:IA:675:A:N1	11:IK:116:HIS:HB2	1.31	1.25
1:IA:1320:C:OP1	19:IS:3:ARG:CD	1.83	1.25
22:JB:16:G:O5'	48:J2:17:ASP:HB3	1.09	1.25
22:JB:2486:C:H5''	22:JB:2552:C:N4	1.48	1.25
22:JB:2558:C:O3'	25:JE:132:LYS:NZ	1.70	1.25
34:JN:107:VAL:HG21	43:JW:112:LEU:CB	1.66	1.25
43:JW:84:TYR:CE2	43:JW:92:VAL:HG21	1.66	1.25
1:AA:265:G:C4'	17:AQ:65:ILE:HA	1.67	1.25
1:AA:1307:U:O3'	13:AM:109:THR:HG21	1.34	1.25
22:BB:1401:G:O6	22:BB:1413:U:O4	1.54	1.25
34:BN:36:ILE:O	43:BW:74:ARG:NH2	1.70	1.25
22:BB:338:G:C1'	42:BV:9:HIS:O	1.70	1.25
22:DB:2753:C:O2'	25:DE:163:GLU:CG	1.84	1.25
1:EA:520:A:O2'	12:EL:73:GLU:OE2	1.53	1.25
1:EA:246:A:OP2	17:EQ:100:LYS:HE2	1.30	1.25
1:EA:632:A:C2'	17:EQ:30:PRO:HA	1.65	1.25

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:FA:8:C:O2'	36:FP:32:TYR:CD1	1.86	1.25
22:FB:1405:A:C5	41:FU:15:LYS:CE	2.18	1.25
22:FB:590:C:OP1	38:FR:32:TYR:HB3	1.14	1.25
34:FN:99:LYS:CB	43:FW:74:ARG:CG	1.80	1.25
1:GA:1240:U:P	7:GG:115:ARG:HG3	1.76	1.25
22:HB:2861:A:C4	48:H2:31:THR:HG22	1.70	1.25
22:HB:1261:G:O5'	38:HR:2:PRO:CB	1.84	1.25
1:IA:1151:A:H4'	10:IJ:42:THR:CB	1.66	1.25
1:IA:588:G:O2'	8:IH:31:PHE:CB	1.84	1.25
22:JB:114:C:O4'	50:J4:19:ARG:NH2	1.69	1.25
22:JB:1747:G:O6	37:JQ:125:MET:C	1.72	1.25
22:JB:62:U:H5'	41:JU:73:ASN:OD1	1.32	1.25
22:BB:1414:G:H22	22:BB:1484:G:N2	1.35	1.25
22:BB:2725:C:C4'	28:BH:143:GLN:H	1.48	1.25
1:CA:1239:A:C3'	7:CG:115:ARG:HG2	1.66	1.25
1:EA:521:G:C5	12:EL:53:ARG:NH2	2.04	1.25
22:FB:2372:A:C1'	33:FM:59:ARG:CG	2.12	1.25
22:FB:7:G:C4'	31:FK:160:ALA:O	1.84	1.25
23:FA:49:C:H4'	36:FP:95:LYS:CG	1.50	1.25
22:FB:1405:A:C6	41:FU:15:LYS:CE	2.17	1.25
1:GA:324:G:C4'	20:GT:15:ARG:HH22	1.50	1.25
1:IA:1349:A:H5''	9:II:121:ARG:CZ	1.64	1.25
1:IA:928:G:C1'	1:IA:1532:U:HO2'	1.47	1.25
22:JB:1810:U:C4	24:JD:154:GLN:HG2	1.51	1.25
22:JB:1469:U:H2'	35:JO:63:ARG:NH1	1.52	1.25
22:JB:2003:A:O2'	38:JR:25:TRP:CZ2	1.75	1.25
22:BB:1398:G:O4'	22:BB:1416:A:N3	1.66	1.25
22:BB:700:C:C4'	50:B4:3:ARG:O	1.84	1.25
1:AA:711:G:O3'	24:BD:184:ARG:NH1	1.70	1.25
22:BB:505:G:O4'	40:BT:78:ASN:HB3	1.13	1.25
22:DB:1043:A:C5'	52:D6:23:VAL:CG2	2.11	1.25
22:DB:1834:G:C2'	24:DD:244:ARG:HG3	1.65	1.25
22:DB:318:G:H5'	40:DT:12:LYS:NZ	0.92	1.25
22:FB:574:C:H5''	39:FS:82:ARG:NH1	1.50	1.25
13:GM:87:TYR:CB	19:GS:73:GLU:O	1.84	1.25
22:HB:1809:G:OP1	24:HD:63:ARG:HD3	1.35	1.25
1:IA:673:G:H5''	6:IF:87:ARG:NH2	1.51	1.25
23:JA:117:G:O3'	36:JP:52:ALA:HA	1.13	1.25
22:JB:1197:U:H2'	22:JB:1198:C:O4'	1.25	1.25
22:JB:1781:C:H5''	24:JD:213:ARG:NH2	1.50	1.25
22:BB:1810:U:OP1	24:BD:157:ARG:HG2	1.36	1.25

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:429:U:OP1	4:CD:9:CYS:HB2	1.31	1.25
1:CA:620:C:O3'	4:CD:138:TYR:HE1	1.11	1.25
22:DB:590:C:H5''	38:DR:32:TYR:CD1	1.70	1.25
22:DB:742:G:N7	24:DD:208:LYS:CE	1.98	1.25
22:DB:674:U:O2	33:DM:23:PRO:HB3	1.33	1.25
38:DR:47:TYR:CD1	39:DS:74:TYR:CB	2.08	1.25
22:FB:506:G:OP2	40:FT:21:ARG:HB2	1.15	1.25
23:FA:79:U:OP2	43:FW:10:PRO:CG	1.85	1.25
1:GA:826:C:O2'	8:GH:12:ARG:HG2	1.33	1.25
22:HB:2337:A:N3	51:H5:52:LYS:HD3	1.50	1.25
22:HB:567:G:C5'	31:HK:73:ASN:HA	1.66	1.25
3:IC:23:TYR:HB3	10:IJ:92:THR:CG2	1.65	1.25
22:JB:1828:C:O2	22:JB:1912:G:C5'	1.83	1.25
22:JB:646:C:P	33:JM:127:ALA:HB3	1.75	1.25
22:JB:2847:G:N2	35:JO:8:ARG:O	1.70	1.25
22:JB:2315:A:C2	44:JX:70:ILE:HD13	1.72	1.25
1:AA:1292:U:H4'	9:AI:38:GLN:OE1	1.37	1.24
22:BB:574:C:C5	39:BS:79:GLN:OE1	1.90	1.24
22:DB:1746:A:OP1	37:DQ:124:VAL:HG21	1.09	1.24
22:DB:699:G:C4	50:D4:5:TYR:O	1.90	1.24
1:EA:529:G:N2	12:EL:51:ALA:CB	1.98	1.24
22:FB:940:G:N3	46:FZ:37:THR:HB	1.50	1.24
22:HB:891:A:H1'	22:HB:893:G:N7	1.49	1.24
1:IA:684:A:C4'	11:IK:38:ASN:HB3	1.67	1.24
22:JB:1202:U:H5'	39:JS:81:ARG:CB	1.60	1.24
22:JB:1829:C:C5'	22:JB:1911:A:H4'	1.65	1.24
22:JB:465:C:C2	50:J4:39:ARG:HD3	1.72	1.24
22:JB:2558:C:C4'	25:JE:132:LYS:HD3	1.65	1.24
22:JB:1468:A:N6	35:JO:80:MET:SD	2.08	1.24
22:JB:2259:G:O6	44:JX:12:ASN:HB2	1.12	1.24
23:BA:44:C:O2'	27:BG:63:GLN:CD	1.73	1.24
22:BB:1143:A:N9	31:BK:111:LYS:HE2	1.49	1.24
1:CA:403:C:OP1	4:CD:137:SER:OG	1.53	1.24
22:DB:1040:A:O3'	34:DN:125:LYS:CE	1.85	1.24
22:DB:2464:G:N9	34:DN:120:ARG:NH1	1.75	1.24
1:EA:927:G:N3	1:EA:1532:U:H4'	1.52	1.24
1:EA:244:U:P	17:EQ:100:LYS:NZ	2.11	1.24
1:EA:435:C:O2'	4:ED:156:GLU:CB	1.83	1.24
22:FB:88:G:H21	41:FU:67:ARG:NH2	1.34	1.24
22:FB:337:G:C2'	42:FV:9:HIS:CD2	2.14	1.24
1:GA:132:C:C4'	20:GT:74:LYS:NZ	1.92	1.24

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:HB:2338:C:C5'	51:H5:50:LEU:HB3	1.66	1.24
1:IA:531:U:O2	1:IA:1208:C:H4'	1.37	1.24
1:EA:1272:G:N2	1:IA:1264:C:H1'	1.53	1.24
1:IA:815:A:O2'	1:IA:1526:G:C2	1.82	1.24
23:BA:107:C:H5''	43:BW:89:GLY:C	1.56	1.24
22:BB:2237:C:OP1	44:BX:11:LYS:HA	1.12	1.24
1:CA:1228:C:C1'	13:CM:118:ALA:O	1.84	1.24
22:DB:1581:C:C5	24:DD:28:ARG:CZ	2.19	1.24
22:DB:2623:A:C3'	22:DB:2624:G:P	2.24	1.24
22:DB:2653:A:H1'	32:DL:41:ASN:OD1	1.11	1.24
1:EA:1308:U:H3'	13:EM:99:ARG:NH1	0.94	1.24
1:EA:376:G:H4'	16:EP:28:ARG:NH2	1.49	1.24
22:FB:1636:G:C1'	50:F4:1:MET:N	2.01	1.24
22:FB:1269:G:C2	26:FF:76:THR:HG23	1.71	1.24
6:GF:50:TYR:CE1	18:GR:77:GLY:HA2	1.72	1.24
22:HB:2448:A:H4'	34:HN:57:ARG:NH1	1.49	1.24
22:HB:915:C:O2'	43:HW:163:ASP:CB	1.85	1.24
22:HB:1884:A:C2	24:HD:244:ARG:HD2	1.72	1.24
22:JB:469:G:OP1	50:J4:40:HIS:HA	1.07	1.24
22:JB:2823:G:O6	37:JQ:60:SER:OG	1.54	1.24
22:JB:528:G:O2'	40:JT:96:TYR:HA	1.35	1.24
23:BA:91:A:N7	34:BN:21:ASP:HB2	1.52	1.24
22:BB:700:C:H5''	50:B4:3:ARG:C	1.56	1.24
22:BB:2334:C:O4'	44:BX:32:LYS:HD2	1.30	1.24
1:CA:1265:G:C5'	1:GA:1273:G:O4'	1.82	1.24
1:CA:323:U:O2'	20:CT:15:ARG:CD	1.84	1.24
22:DB:176:A:C2'	47:D1:31:ILE:HG22	1.67	1.24
22:DB:2249:U:C5'	44:DX:18:PRO:CG	2.16	1.24
1:EA:265:G:N2	17:EQ:67:LYS:HE2	1.52	1.24
22:FB:1437:A:O3'	22:FB:1438:G:OP2	1.54	1.24
22:FB:1583:A:H1'	24:FD:84:TYR:CE1	1.72	1.24
22:FB:610:G:H4'	26:FF:98:GLN:NE2	1.51	1.24
22:HB:2329:C:O5'	51:H5:42:ARG:HD3	1.32	1.24
22:JB:827:C:C5	33:JM:32:ARG:NE	2.05	1.24
1:AA:179:A:H4'	20:GT:100:ILE:CG2	1.64	1.24
22:BB:187:U:H5'	50:B4:26:SER:OG	1.32	1.24
22:BB:111:G:HO3'	22:BB:112:U:P	0.97	1.24
22:BB:1135:C:O4'	52:B6:36:GLN:CG	1.84	1.24
22:BB:1143:A:C5'	31:BK:111:LYS:HD2	1.64	1.24
1:CA:230:G:C4'	16:CP:26:ARG:HH21	1.48	1.24
22:DB:2039:G:C2'	48:D2:5:PRO:HD3	1.65	1.24

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:DB:2291:U:C4'	27:DG:85:VAL:O	1.85	1.24
22:DB:2395:C:OP2	33:DM:62:LYS:HB3	1.08	1.24
22:DB:2710:C:O2'	25:DE:169:ASN:HB3	1.37	1.24
13:CM:9:ILE:HD13	27:DG:144:ASP:OD1	1.16	1.24
23:DA:92:G:N3	34:DN:21:ASP:C	1.88	1.24
22:DB:29:U:H5'	38:DR:7:GLY:O	1.29	1.24
22:FB:2756:A:N6	25:FE:42:ASP:OD1	1.66	1.24
1:GA:188:C:N4	20:GT:89:ARG:NH2	1.83	1.24
22:HB:2553:G:N2	25:HE:142:GLY:H	1.35	1.24
1:IA:864:A:H4'	1:IA:1078:U:O2	1.37	1.24
1:AA:667:G:H1	15:AO:46:HIS:CD2	1.42	1.24
22:BB:15:G:OP1	48:B2:20:ARG:NH1	1.71	1.24
22:BB:2343:C:O2	44:BX:66:LYS:CD	1.85	1.24
22:BB:2462:C:O2	34:BN:54:VAL:HG11	1.31	1.24
22:BB:2461:G:O6	34:BN:54:VAL:HG12	1.09	1.24
1:CA:899:C:N3	24:DD:4:LYS:NZ	1.85	1.24
1:CA:953:G:N2	13:CM:120:LYS:HG3	1.46	1.24
22:DB:1583:A:C1'	24:DD:84:TYR:CE1	1.76	1.24
1:EA:538:G:H5''	12:EL:114:LYS:N	1.50	1.24
22:FB:2240:C:OP2	44:FX:14:ARG:HD2	1.07	1.24
22:JB:603:C:O2	22:JB:677:G:N2	1.71	1.24
22:JB:787:A:OP1	24:JD:49:ILE:HD13	1.08	1.24
22:JB:2558:C:O3'	25:JE:132:LYS:CE	1.86	1.24
10:AJ:47:PHE:HE1	14:AN:56:VAL:CG1	1.29	1.24
22:BB:1070:G:OP1	30:BJ:114:ASP:OD2	1.56	1.24
1:CA:1104:G:O2'	2:CB:111:ARG:NH1	1.68	1.24
1:CA:1190:G:H4'	3:CC:176:HIS:CE1	1.73	1.24
1:CA:265:G:O2'	17:CQ:65:ILE:O	1.56	1.24
6:CF:48:LEU:HD22	18:CR:77:GLY:C	1.58	1.24
22:DB:507:A:OP2	40:DT:20:LEU:C	1.76	1.24
22:FB:2399:C:H3'	51:F5:32:GLN:CD	1.57	1.24
1:GA:1309:G:H5''	13:GM:81:LEU:CD1	1.67	1.24
1:GA:927:G:N2	1:GA:1532:U:C4'	1.99	1.24
22:HB:490:A:H5''	42:HV:3:ARG:CB	1.61	1.24
22:HB:1816:G:N2	24:HD:252:LYS:HD2	0.91	1.24
34:HN:62:GLY:HA3	43:HW:110:GLY:CA	1.66	1.24
22:HB:94:C:C2'	45:HY:41:HIS:ND1	1.87	1.24
22:JB:2506:C:OP1	52:J6:33:LYS:HB3	1.37	1.24
22:JB:1996:A:C4'	40:JT:116:ILE:C	2.05	1.24
22:JB:62:U:C5'	41:JU:73:ASN:OD1	1.84	1.24
22:JB:1470:G:N9	35:JO:60:LEU:HD13	1.52	1.24

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:JB:338:G:C2'	42:JV:77:HIS:CE1	2.20	1.24
1:AA:1398:A:N3	5:AE:21:ALA:HB1	1.49	1.24
1:AA:15:G:C4'	5:AE:24:ARG:NE	1.83	1.24
22:BB:2862:G:C1'	48:B2:31:THR:HA	1.66	1.24
22:BB:418:C:C5'	53:B7:1:MET:CE	2.14	1.24
22:BB:2474:G:O4'	34:BN:83:ARG:CG	1.82	1.24
1:CA:559:A:OP2	5:CE:122:GLU:O	1.56	1.24
22:FB:2313:G:O2'	36:FP:15:ARG:NH1	1.67	1.24
22:FB:968:C:OP1	34:FN:75:VAL:HG12	1.36	1.24
22:FB:458:G:H5'	38:FR:5:LYS:NZ	1.51	1.24
22:HB:489:A:O3'	42:HV:5:SER:HB2	1.06	1.24
22:HB:941:U:O4'	46:HZ:24:GLY:N	1.67	1.24
1:IA:637:G:OP2	17:IQ:5:VAL:CG2	1.86	1.24
22:JB:410:A:H5''	47:J1:58:LYS:CD	1.68	1.24
22:JB:910:U:C3'	22:JB:911:A:OP2	1.83	1.24
22:JB:205:A:C5'	33:JM:144:GLU:HG3	1.68	1.24
22:JB:1744:G:N7	37:JQ:124:VAL:HG22	1.53	1.24
1:AA:1373:G:H5''	7:AG:36:LYS:CB	1.67	1.24
1:AA:658:G:C5'	15:AO:8:LYS:NZ	2.01	1.24
1:AA:974:A:P	14:AN:32:SER:HB3	1.78	1.24
22:BB:1378:A:OP2	47:B1:40:HIS:CE1	1.91	1.24
22:BB:1885:C:O3'	24:BD:241:GLY:HA2	1.33	1.24
22:BB:2760:G:OP1	31:BK:145:HIS:O	1.55	1.24
22:BB:489:A:O2'	42:BV:5:SER:HB2	1.33	1.24
22:BB:886:A:H1'	43:BW:167:THR:OG1	1.35	1.24
1:CA:234:C:O3'	17:CQ:70:ARG:CG	1.85	1.24
25:DE:151:TYR:C	31:DK:106:TYR:CZ	2.11	1.24
34:DN:66:TYR:CE1	43:DW:116:VAL:HA	1.63	1.24
22:DB:1050:G:C4'	43:DW:37:LYS:HZ3	1.49	1.24
1:EA:1056:U:P	3:EC:162:GLN:CA	2.25	1.24
1:EA:1189:C:O2'	3:EC:176:HIS:CD2	1.91	1.24
1:EA:1225:A:H5'	13:EM:101:GLN:C	1.58	1.24
22:FB:869:C:O2'	44:FX:24:LYS:HG2	1.11	1.24
22:FB:2786:G:C5'	25:FE:59:VAL:HG13	1.67	1.24
1:GA:778:G:C2	11:GK:120:ARG:HD3	1.72	1.24
22:HB:2337:A:O2'	51:H5:52:LYS:NZ	1.66	1.24
22:HB:1376:C:C5	47:H1:3:LYS:HA	1.65	1.24
1:IA:237:C:C5'	17:IQ:27:PHE:CZ	2.21	1.24
3:IC:23:TYR:CD2	10:IJ:93:GLY:HA2	1.72	1.24
22:JB:2003:A:C8	48:J2:9:LYS:HE2	1.71	1.24
22:JB:3170:A:O2'	53:J7:131:ARG:NH1	1.69	1.24

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:JB:2688:G:OP1	35:JO:18:VAL:HG13	1.16	1.24
22:JB:528:G:H5''	40:JT:35:PRO:O	1.34	1.24
22:DB:2615:U:C1'	25:DE:79:ARG:CZ	2.06	1.24
32:DL:85:ASP:O	37:DQ:84:ALA:N	1.69	1.24
22:FB:1162:A:C2'	38:FR:78:THR:HG23	1.68	1.24
22:FB:2764:U:C5'	25:FE:36:ARG:NH2	2.00	1.24
22:HB:2378:G:O2'	49:H3:20:PHE:CZ	1.88	1.24
22:HB:492:G:H5'	42:HV:3:ARG:NH1	1.50	1.24
1:IA:642:A:N1	8:IH:131:GLY:CA	1.98	1.24
1:IA:1117:G:N3	9:II:106:ALA:HB2	0.91	1.24
22:JB:2411:A:C2	47:J1:30:GLU:HA	1.72	1.24
22:JB:2669:C:C3'	35:JO:17:ARG:NH2	1.99	1.24
1:AA:980:C:O4'	14:AN:19:ARG:NH2	1.71	1.23
1:AA:663:A:C5'	18:AR:64:ARG:HH12	1.49	1.23
22:BB:574:C:OP1	39:BS:79:GLN:HA	1.31	1.23
1:CA:932:C:H5'	7:CG:3:ARG:CB	1.64	1.23
22:DB:24:G:C4'	40:DT:98:ASP:HB3	1.68	1.23
22:DB:648:A:N6	33:DM:77:LEU:O	1.70	1.23
22:DB:868:U:C1'	44:DX:25:LYS:CD	1.91	1.23
22:FB:2653:A:H5''	32:FL:44:TYR:OH	1.35	1.23
22:FB:491:A:C5'	42:FV:55:THR:CG2	2.16	1.23
22:HB:1236:G:C5	39:HS:71:ILE:HD11	1.72	1.23
3:IC:23:TYR:O	10:IJ:92:THR:HG21	1.33	1.23
1:IA:1320:C:C1'	19:IS:73:GLU:HB3	1.45	1.23
23:JA:117:G:O2'	36:JP:41:GLN:CD	1.73	1.23
22:JB:2263:C:OP1	49:J3:28:ARG:NH1	1.71	1.23
22:JB:2258:G:C1'	22:JB:2306:A:H1'	1.67	1.23
33:JM:62:LYS:N	51:J5:30:ARG:HH11	1.33	1.23
1:AA:426:G:O4'	4:AD:42:GLN:HB2	1.37	1.23
1:AA:663:A:C4'	18:AR:64:ARG:HH12	1.48	1.23
22:BB:3867:G:O4'	53:B7:42:LYS:CB	1.84	1.23
22:BB:2237:C:OP2	44:BX:4:LYS:NZ	1.70	1.23
1:CA:559:A:N6	5:CE:126:ARG:HD3	1.51	1.23
22:DB:1673:C:N1	25:DE:136:ARG:NH2	1.85	1.23
22:DB:641:G:O6	51:D5:15:LYS:HE2	1.33	1.23
34:DN:36:ILE:HG13	43:DW:74:ARG:CA	1.68	1.23
1:EA:1298:C:C6	7:EG:114:ARG:NH1	2.06	1.23
22:FB:156:G:O3'	22:FB:157:G:OP2	1.54	1.23
1:GA:1114:C:O2	14:GN:61:TRP:HA	1.09	1.23
22:HB:420:C:OP2	53:H7:197:GLU:HG2	1.12	1.23
22:HB:631:G:O2'	33:HM:101:ARG:NH2	1.71	1.23

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:JA:49:C:C4'	36:JP:95:LYS:CG	2.17	1.23
22:JB:71:A:N1	45:JY:58:ALA:N	1.83	1.23
1:AA:509:A:O4'	4:AD:54:TYR:HD2	1.19	1.23
22:BB:1488:G:N2	22:BB:1535:C:N3	1.85	1.23
22:BB:2725:C:O3'	28:BH:141:VAL:CG2	1.86	1.23
1:CA:588:G:C5'	8:CH:2:LEU:CB	2.10	1.23
22:DB:2751:C:H5'	25:DE:202:ALA:CB	1.63	1.23
32:DL:91:PHE:CE1	37:DQ:79:ARG:HG3	1.73	1.23
22:DB:886:A:C5'	34:DN:66:TYR:HE2	1.49	1.23
1:EA:1392:G:H5'	1:EA:1531:A:OP1	1.34	1.23
22:FB:2262:C:O2'	49:F3:8:ILE:HD13	1.35	1.23
22:FB:2400:G:OP2	51:F5:32:GLN:HG3	1.33	1.23
22:FB:2628:C:O3'	32:FL:29:ILE:HD13	1.13	1.23
43:FW:64:ALA:C	43:FW:128:ARG:NH1	1.90	1.23
1:GA:267:C:OP1	17:GQ:67:LYS:HG3	1.37	1.23
22:HB:57:G:C3'	22:HB:72:A:N6	1.97	1.23
34:HN:68:ARG:NE	43:HW:117:VAL:HG11	1.54	1.23
22:HB:918:A:OP1	43:HW:118:HIS:CB	1.85	1.23
1:IA:1226:C:C2	13:IM:104:ARG:HB2	1.73	1.23
22:BB:2655:C:O3'	22:BB:2656:G:P	1.96	1.23
23:BA:105:G:C4'	43:BW:92:VAL:H	1.46	1.23
22:DB:1176:U:O2	22:DB:1198:C:H1'	1.36	1.23
22:DB:2733:A:C2	52:D6:15:LYS:HD3	1.72	1.23
22:DB:460:U:H2'	26:DF:78:VAL:CG2	1.67	1.23
22:DB:2645:C:C6	28:DH:109:TYR:HE2	1.54	1.23
22:DB:1040:A:C4'	34:DN:125:LYS:NZ	2.00	1.23
1:EA:1227:A:H3'	13:EM:111:LYS:NZ	1.36	1.23
1:EA:546:G:OP2	4:ED:71:SER:HB2	1.31	1.23
22:FB:2463:G:O3'	34:FN:47:GLN:NE2	1.70	1.23
22:FB:58:C:O4'	22:FB:72:A:C5	1.90	1.23
1:IA:1186:G:O2'	9:II:113:LYS:NZ	1.65	1.23
1:IA:835:U:C5'	18:IR:64:ARG:NH2	2.01	1.23
22:JB:2734:U:O4'	52:J6:15:LYS:HD2	1.11	1.23
22:JB:2464:G:C3'	34:JN:123:GLY:CA	2.15	1.23
22:JB:2823:G:H3'	37:JQ:103:LYS:O	1.32	1.23
10:AJ:11:PHE:CE1	14:AN:54:PRO:O	1.92	1.23
1:AA:583:A:H1'	17:AQ:91:ARG:CZ	1.69	1.23
22:BB:1136:G:C4	52:B6:4:ARG:O	1.91	1.23
22:BB:2826:C:O2'	35:BO:60:LEU:HD23	1.27	1.23
22:DB:2599:U:H1'	25:DE:156:MET:O	1.37	1.23
1:EA:586:C:C5'	8:EH:91:ARG:H	1.46	1.23

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:EA:376:G:C4'	16:EP:28:ARG:NH2	2.00	1.23
22:FB:1406:A:N6	41:FU:15:LYS:HG2	1.52	1.23
22:HB:1148:G:C5'	31:HK:133:GLY:HA3	1.69	1.23
22:HB:71:A:N7	45:HY:58:ALA:HB3	1.26	1.23
1:IA:1188:A:H5'	9:II:114:TYR:CE2	1.72	1.23
1:IA:261:U:C4	20:IT:79:ARG:CZ	2.21	1.23
22:JB:1781:C:C4'	24:JD:213:ARG:CZ	2.17	1.23
1:AA:740:U:H1'	15:AO:42:HIS:ND1	1.50	1.23
22:BB:494:A:N3	42:BV:56:LYS:HG3	1.51	1.23
1:CA:134:A:C2	16:CP:25:ARG:NH2	2.07	1.23
22:DB:2236:U:O3'	44:DX:10:SER:HB3	1.06	1.23
22:DB:548:G:H4'	31:DK:32:TYR:CD2	1.71	1.23
22:DB:699:G:C2	50:D4:5:TYR:CA	2.02	1.23
22:DB:2291:U:OP1	27:DG:70:ALA:HB2	1.37	1.23
34:DN:99:LYS:CG	43:DW:73:LYS:HZ2	1.45	1.23
22:FB:1992:G:OP1	40:FT:62:ARG:CB	1.87	1.23
22:FB:891:A:C6	22:FB:909:C:N3	2.07	1.23
1:GA:836:G:OP2	18:GR:61:LYS:NZ	1.72	1.23
22:HB:891:A:C2	22:HB:893:G:N1	2.06	1.23
22:HB:94:C:OP1	45:HY:40:PRO:HD2	1.27	1.23
1:IA:752:G:H5'	15:IO:69:TYR:OH	1.12	1.23
23:JA:14:C:C5	44:JX:53:MET:CA	2.20	1.23
43:JW:51:LEU:HB3	43:JW:128:ARG:NH2	1.50	1.23
1:AA:274:A:O4'	17:AQ:15:MET:HG2	1.16	1.23
22:BB:1070:G:O4'	30:BJ:115:LEU:CD2	1.86	1.23
22:BB:1142:G:H4'	31:BK:111:LYS:CB	1.65	1.23
22:BB:1816:G:OP2	24:BD:54:ILE:HD11	1.31	1.23
23:BA:44:C:C2	27:BG:90:THR:HB	1.72	1.23
1:CA:17:U:O3'	5:CE:14:ARG:NH2	1.71	1.23
23:DA:96:C:OP1	43:DW:14:LEU:O	1.54	1.23
22:DB:2753:C:H4'	25:DE:164:ARG:N	1.45	1.23
25:DE:26:VAL:CG2	37:DQ:3:THR:OG1	1.85	1.23
22:DB:2293:G:OP1	27:DG:88:LYS:NZ	1.72	1.23
1:EA:1104:G:O4'	2:EB:111:ARG:HD2	1.30	1.23
22:FB:1629:G:O4'	50:F4:3:ARG:HD3	1.37	1.23
22:FB:547:U:O2	31:FK:71:THR:HG21	1.31	1.23
22:FB:2236:U:H3'	44:FX:10:SER:OG	1.35	1.23
1:GA:932:C:C5'	7:GG:4:ARG:CG	2.17	1.23
13:GM:86:CYS:N	19:GS:74:PHE:HD2	1.33	1.23
22:HB:3875:A:O2'	53:H7:42:LYS:HG3	1.30	1.23
22:HB:2273:C:OP2	36:HP:11:LEU:HG	1.15	1.23

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:HB:494:A:O4'	42:HV:56:LYS:CB	1.84	1.23
22:JB:2463:G:H21	34:JN:120:ARG:NE	1.36	1.23
22:JB:2638:G:N7	28:JH:180:GLY:CA	2.02	1.23
22:BB:3866:A:C2'	53:B7:43:LYS:HA	1.65	1.23
22:BB:1002:C:C2	22:BB:1174:G:N2	2.07	1.23
22:BB:887:G:O4'	43:BW:167:THR:HA	1.09	1.23
1:CA:1229:A:N3	13:CM:125:ARG:CG	1.73	1.23
1:CA:1230:C:O2	13:CM:125:ARG:HD2	1.39	1.23
22:DB:1163:C:C1'	38:DR:78:THR:CA	2.16	1.23
22:DB:2700:U:H3	22:DB:2848:A:N6	1.33	1.23
22:DB:795:A:H61	24:DD:222:ARG:NE	1.33	1.23
22:FB:1752:U:HO3'	22:FB:1753:A:P	0.93	1.23
22:FB:2292:C:O3'	27:FG:88:LYS:HD3	1.36	1.23
22:FB:2491:C:OP1	25:FE:120:TRP:NE1	1.71	1.23
43:FW:51:LEU:HD13	43:FW:128:ARG:CZ	1.68	1.23
22:FB:76:C:H5''	45:FY:52:GLN:CD	1.60	1.23
1:GA:1248:A:H1'	9:GI:70:LYS:NZ	1.49	1.23
13:GM:87:TYR:HB2	19:GS:73:GLU:C	1.58	1.23
1:GA:195:A:P	20:GT:65:LYS:HE2	1.77	1.23
1:GA:132:C:C5'	20:GT:74:LYS:HZ3	1.51	1.23
22:HB:673:G:C5'	26:HF:93:TYR:CD1	2.20	1.23
1:IA:640:A:O3'	8:IH:127:LEU:HD11	1.26	1.23
1:IA:1320:C:C1'	19:IS:73:GLU:N	1.99	1.23
22:JB:637:G:N2	33:JM:74:VAL:HG13	1.51	1.23
22:JB:2464:G:O3'	34:JN:123:GLY:HA3	1.10	1.23
1:AA:1128:C:O3'	9:AI:18:PHE:CZ	1.92	1.23
13:AM:83:ASP:O	13:AM:93:ARG:HD3	1.30	1.23
23:BA:93:G:H5''	34:BN:23:LYS:NZ	1.48	1.23
22:BB:2795:A:C4'	35:BO:5:LYS:HG2	1.68	1.23
1:CA:1239:A:C3'	7:CG:115:ARG:CG	2.17	1.23
12:CL:16:GLU:C	12:CL:19:ARG:HE	1.40	1.23
22:DB:2263:C:OP1	49:D3:8:ILE:CG1	1.87	1.23
22:DB:1163:C:O4'	38:DR:78:THR:CA	1.85	1.23
4:ED:57:ARG:NH2	5:EE:111:GLU:OE2	1.72	1.23
22:FB:15:G:C2'	48:F2:18:MET:HG3	1.69	1.23
38:FR:43:ALA:CA	39:FS:75:LYS:HB2	1.67	1.23
40:FT:60:ILE:CG2	48:F2:25:LEU:CD2	2.15	1.23
22:HB:1789:U:C5'	24:HD:257:LEU:CB	2.16	1.23
22:HB:3093:C:C1'	22:HB:2181:A:H61	1.45	1.23
22:HB:71:A:C6	45:HY:58:ALA:HB3	1.72	1.23
22:JB:2399:C:H2'	51:J5:32:GLN:CB	1.65	1.23

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:JB:2707:G:C4'	32:JL:82:LYS:HE3	1.68	1.23
22:BB:1143:A:N9	31:BK:111:LYS:CE	2.01	1.23
22:BB:115:G:C6	22:BB:117:A:N6	2.07	1.23
22:BB:1805:G:N2	24:BD:51:SER:CB	2.01	1.23
1:EA:278:G:N2	17:EQ:96:GLN:CD	1.90	1.23
1:EA:973:G:H4'	10:EJ:54:PHE:CE1	1.72	1.23
1:EA:1102:A:N3	2:EB:108:ILE:CD1	2.00	1.23
34:FN:106:GLU:O	43:FW:113:VAL:CG1	1.85	1.23
1:GA:1186:G:N2	14:GN:61:TRP:HB2	1.52	1.23
1:IA:1100:C:H41	2:IB:144:ARG:NH2	1.32	1.23
1:EA:1273:G:C2	1:IA:1264:C:C5'	2.21	1.23
22:JB:2505:G:C1'	52:J6:2:LYS:HE2	1.52	1.23
22:JB:543:G:O5'	38:JR:22:LYS:NZ	1.72	1.23
22:JB:63:A:C4	41:JU:62:ARG:HG2	1.73	1.23
1:AA:1221:G:O3'	19:AS:77:THR:CB	1.86	1.22
1:AA:1230:C:C2'	13:AM:125:ARG:NH1	2.02	1.22
1:AA:761:G:H5'	17:AQ:102:GLY:CA	1.69	1.22
22:BB:176:A:C2'	47:B1:31:ILE:HG23	1.61	1.22
22:BB:2398:U:C5	51:B5:31:HIS:HA	1.71	1.22
23:BA:106:U:H4'	43:BW:88:TYR:CG	1.74	1.22
22:BB:1143:A:C2	31:BK:103:TYR:HB2	1.73	1.22
22:BB:1239:A:OP2	39:BS:73:LYS:HG2	1.06	1.22
22:BB:1438:G:N1	22:BB:1591:U:O2	1.72	1.22
22:BB:686:C:C4'	26:BF:74:VAL:HG13	1.64	1.22
22:BB:2343:C:O2'	44:BX:66:LYS:HB3	1.39	1.22
22:DB:574:C:H5'	39:DS:82:ARG:NH2	1.51	1.22
22:DB:529:U:C5'	40:DT:39:ARG:HH21	1.51	1.22
1:EA:1318:A:C4'	19:ES:10:PHE:CD1	2.21	1.22
1:EA:958:A:N3	19:ES:55:LYS:HB3	1.51	1.22
23:FA:79:U:OP1	43:FW:14:LEU:HD21	1.33	1.22
22:FB:95:G:C4'	45:FY:39:GLN:HA	1.61	1.22
34:HN:64:LYS:CB	43:HW:173:PRO:O	1.86	1.22
1:IA:955:U:O2	19:IS:80:TYR:CE1	1.92	1.22
3:IC:23:TYR:CB	10:IJ:92:THR:HG22	1.70	1.22
22:JB:1379:A:P	47:J1:1:MET:SD	2.36	1.22
22:JB:2260:C:H4'	22:JB:2368:G:C2	1.75	1.22
22:JB:70:A:N6	41:JU:30:SER:HB2	1.51	1.22
22:BB:1042:G:N9	52:B6:6:SER:HA	1.25	1.22
22:BB:1669:A:O2'	22:BB:2797:G:N2	1.72	1.22
23:BA:44:C:O2'	27:BG:63:GLN:NE2	1.69	1.22
15:CO:89:GLY:N	22:DB:729:A:OP1	1.71	1.22

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:DB:1050:G:O5'	43:DW:37:LYS:HE2	1.39	1.22
22:FB:2616:U:H5''	25:FE:81:PHE:CE1	1.75	1.22
22:FB:528:G:O3'	40:FT:39:ARG:HG2	1.36	1.22
22:FB:596:C:H5''	33:FM:28:LYS:NZ	1.53	1.22
34:FN:27:TYR:CE1	43:FW:73:LYS:CA	2.21	1.22
1:GA:264:U:H2'	17:GQ:64:PRO:O	1.10	1.22
3:GC:59:ARG:O	10:GJ:92:THR:HG21	1.13	1.22
22:HB:2398:U:O4	51:H5:31:HIS:ND1	1.72	1.22
22:HB:2463:G:N2	34:HN:120:ARG:CD	2.03	1.22
22:HB:2815:C:O2'	35:HO:91:PRO:CB	1.88	1.22
22:HB:2760:G:O2'	31:HK:149:LYS:CD	1.86	1.22
1:IA:597:G:N2	8:IH:131:GLY:CA	1.77	1.22
1:IA:1151:A:C5'	10:IJ:42:THR:H	1.50	1.22
1:IA:637:G:O4'	17:IQ:2:PRO:CG	1.85	1.22
22:JB:1204:G:H5'	33:JM:37:GLN:NE2	0.91	1.22
22:JB:1268:U:OP2	26:JF:68:ARG:HD3	1.38	1.22
22:JB:603:C:N4	22:JB:677:G:O6	1.70	1.22
22:JB:827:C:C4	33:JM:32:ARG:NE	2.06	1.22
1:AA:1350:A:O2'	7:AG:33:ASP:HA	1.38	1.22
1:AA:738:C:P	6:AF:92:LYS:HZ1	1.61	1.22
1:AA:658:G:H5''	15:AO:8:LYS:NZ	1.51	1.22
22:BB:177:U:C5'	47:B1:31:ILE:HG12	1.67	1.22
23:BA:106:U:H1'	43:BW:88:TYR:CE1	1.73	1.22
22:BB:1507:A:OP1	24:BD:99:ASP:HB3	1.31	1.22
34:BN:63:GLY:CA	43:BW:112:LEU:CD2	2.16	1.22
34:BN:106:GLU:CB	43:BW:113:VAL:CG2	2.12	1.22
1:CA:529:G:C5	12:CL:48:PRO:HG2	1.72	1.22
22:DB:2249:U:C5'	44:DX:18:PRO:HG2	1.67	1.22
22:DB:2619:G:P	31:DK:122:HIS:NE2	2.11	1.22
22:DB:922:A:H61	34:DN:16:GLY:CA	1.51	1.22
22:FB:1411:C:C2'	22:FB:1412:C:C6	2.21	1.22
22:FB:1887:G:C3'	22:FB:1888:C:P	2.25	1.22
1:GA:925:G:N2	1:GA:1502:A:O3'	1.72	1.22
1:GA:253:U:O2	17:GQ:15:MET:CE	1.87	1.22
22:HB:1260:A:O3'	38:HR:2:PRO:CD	1.84	1.22
1:IA:450:G:O2'	16:IP:15:PRO:HG2	1.28	1.22
22:JB:2370:G:N1	49:J3:2:ALA:N	1.73	1.22
22:JB:2375:G:O6	51:J5:31:HIS:ND1	1.71	1.22
22:JB:643:A:C2	22:JB:2382:C:H1'	1.72	1.22
22:JB:2826:C:H4'	35:JO:61:HIS:ND1	1.52	1.22
22:JB:309:G:OP2	42:JV:93:ARG:HD3	1.37	1.22

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:BB:625:A:C4'	26:BF:38:ARG:CD	2.16	1.22
1:CA:1230:C:N1	13:CM:125:ARG:HD3	1.53	1.22
1:CA:741:G:H4'	15:CO:55:GLY:CA	1.70	1.22
22:DB:1193:G:OP1	39:DS:25:LEU:HG	1.05	1.22
22:DB:37:C:O2'	26:DF:45:THR:OG1	1.57	1.22
22:DB:704:G:C5'	24:DD:218:LYS:HZ1	1.41	1.22
22:DB:706:A:OP2	24:DD:58:HIS:CE1	1.92	1.22
38:FR:91:ASN:ND2	39:FS:10:LYS:HZ3	1.35	1.22
1:GA:1060:C:OP1	10:GJ:59:SER:HB3	1.36	1.22
1:GA:254:G:H1'	17:GQ:16:GLN:O	1.35	1.22
22:HB:1234:C:C5'	39:HS:68:LYS:CD	2.16	1.22
22:HB:1746:A:P	37:HQ:124:VAL:HG21	1.79	1.22
22:HB:3877:A:OP1	53:H7:40:ASP:OD2	1.57	1.22
22:HB:61:U:O4	22:HB:91:A:N6	1.71	1.22
22:HB:636:G:N1	33:HM:97:ARG:NE	1.78	1.22
22:HB:1817:U:OP2	24:HD:223:GLY:HA2	1.04	1.22
32:HL:86:GLY:HA3	37:HQ:84:ALA:CB	1.67	1.22
1:IA:1297:C:C1'	7:IG:114:ARG:NH1	1.98	1.22
1:IA:588:G:OP1	8:IH:31:PHE:HZ	0.92	1.22
22:JB:1090:C:H1'	30:JJ:132:ARG:NE	1.51	1.22
22:JB:593:C:OP1	38:JR:5:LYS:CA	1.87	1.22
1:AA:1187:G:C4	14:AN:61:TRP:HA	1.73	1.22
22:BB:511:A:O3'	22:BB:512:A:P	1.96	1.22
32:BL:87:SER:OG	37:BQ:81:PHE:O	1.55	1.22
1:CA:621:A:OP1	4:CD:139:ARG:CZ	1.87	1.22
1:CA:1374:A:O2'	7:CG:28:ASN:HB3	1.33	1.22
22:DB:2040:A:O2'	48:D2:3:LYS:CG	1.86	1.22
22:DB:934:G:H1'	44:DX:23:VAL:CG2	1.69	1.22
22:FB:2590:U:N3	48:F2:2:ALA:HB2	1.55	1.22
22:FB:828:C:H5''	39:FS:86:HIS:CE1	1.69	1.22
1:GA:192:U:H4'	20:GT:56:MET:SD	1.80	1.22
22:HB:941:U:N3	46:HZ:21:GLN:O	1.68	1.22
1:IA:676:A:O2'	11:IK:115:PRO:HB3	1.29	1.22
43:JW:51:LEU:CD2	43:JW:128:ARG:HH21	1.52	1.22
22:BB:1805:G:N3	24:BD:52:ARG:NE	1.86	1.22
22:BB:492:G:H5''	42:BV:3:ARG:NH1	1.41	1.22
22:BB:704:G:C5'	24:BD:218:LYS:NZ	2.01	1.22
22:DB:869:C:O2'	44:DX:24:LYS:HE2	1.19	1.22
1:EA:1114:C:O2'	14:EN:61:TRP:HB3	1.35	1.22
1:GA:1517:G:C8	22:HB:1902:A:O3'	1.91	1.22
23:HA:45:C:O2'	27:HG:92:ARG:NH1	1.73	1.22

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:HB:2358:C:P	36:HP:19:THR:HG23	1.79	1.22
1:IA:707:C:C5'	11:IK:85:ARG:HH22	1.51	1.22
22:JB:2505:G:H1'	52:J6:2:LYS:CE	1.70	1.22
22:BB:1043:A:C8	52:B6:23:VAL:HG23	1.68	1.22
22:BB:2007:G:N3	31:BK:103:TYR:CE1	2.08	1.22
1:CA:135:C:O2'	16:CP:1:MET:HB2	1.28	1.22
22:DB:465:C:C4	50:D4:39:ARG:NH1	2.07	1.22
1:EA:281:G:O6	17:EQ:98:LEU:CD1	1.88	1.22
15:EO:89:GLY:OXT	22:FB:729:A:OP2	1.56	1.22
2:GB:53:ARG:NH2	8:GH:68:ARG:NH1	1.85	1.22
22:HB:2646:C:O2'	28:HH:111:HIS:HB3	1.36	1.22
22:HB:2814:G:OP1	35:HO:8:ARG:NH1	1.73	1.22
22:JB:2533:U:H2'	22:JB:2534:U:C5	1.75	1.22
22:JB:567:G:H4'	31:JK:73:ASN:CA	1.69	1.22
1:IA:1462:G:C4'	37:JQ:121:ARG:HH22	1.50	1.22
1:AA:430:A:OP1	4:AD:7:PRO:HA	1.36	1.22
1:CA:674:G:H5'	6:CF:50:TYR:OH	1.36	1.22
1:CA:234:C:O2	17:CQ:61:GLU:OE1	1.58	1.22
23:DA:106:U:H4'	43:DW:88:TYR:CE2	1.75	1.22
22:DB:2328:G:P	51:D5:41:ILE:CD1	2.26	1.22
22:DB:574:C:H5''	39:DS:82:ARG:CZ	1.67	1.22
22:DB:827:C:OP1	39:DS:84:THR:O	1.58	1.22
22:FB:1000:G:OP2	46:FZ:9:VAL:HG21	1.11	1.22
22:HB:1135:C:O2'	52:H6:4:ARG:C	1.78	1.22
22:HB:857:U:H1'	22:HB:946:U:O2	1.38	1.22
25:HE:54:LYS:HB2	37:HQ:6:LYS:NZ	1.54	1.22
1:IA:1151:A:C4'	10:IJ:42:THR:H	1.50	1.22
1:IA:1321:C:H5''	13:IM:87:TYR:CZ	1.74	1.22
1:IA:835:U:H5'	18:IR:64:ARG:NH2	1.52	1.22
1:IA:1100:C:N4	2:IB:144:ARG:NH2	1.81	1.22
1:IA:363:A:N1	12:IL:30:ALA:HA	1.52	1.22
13:IM:87:TYR:N	19:IS:74:PHE:CA	2.03	1.22
22:JB:635:C:OP1	51:J5:63:PRO:HD3	1.35	1.22
22:BB:2724:G:N2	28:BH:143:GLN:HE22	1.38	1.22
1:CA:420:U:O3'	3:CC:127:ARG:NH2	1.70	1.22
1:CA:529:G:O6	12:CL:48:PRO:HG2	1.10	1.22
1:CA:740:U:OP1	15:CO:35:ARG:NH1	1.73	1.22
22:DB:699:G:N1	50:D4:5:TYR:HA	1.52	1.22
22:DB:2710:C:C4'	25:DE:169:ASN:CG	1.98	1.22
22:DB:2728:A:O2'	28:DH:67:LEU:HB2	1.38	1.22
1:GA:555:C:OP2	12:GL:20:LYS:HD2	1.27	1.22

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:HB:1044:U:OP2	52:H6:9:LYS:CG	1.68	1.22
1:IA:684:A:H5'	11:IK:38:ASN:ND2	1.52	1.22
22:JB:2240:C:H5''	22:JB:2366:U:O2'	1.38	1.22
22:JB:969:U:H5	34:JN:21:ASP:CB	1.52	1.22
22:DB:413:G:C5	47:D1:63:PHE:CE1	2.25	1.22
22:DB:547:U:H5'	31:DK:30:LYS:CD	1.70	1.22
22:DB:567:G:H5'	31:DK:73:ASN:O	1.36	1.22
22:DB:1615:C:H5'	41:DU:33:ALA:CB	1.70	1.22
23:FA:79:U:OP1	43:FW:14:LEU:CD2	1.88	1.22
29:FI:26:ARG:HG2	47:F1:73:LYS:OXT	1.07	1.22
1:GA:16:A:C5'	5:GE:15:ARG:HB3	1.68	1.22
1:GA:324:G:C5'	20:GT:15:ARG:HH22	1.51	1.22
1:GA:108:G:O6	20:GT:15:ARG:NH1	1.69	1.22
22:HB:1381:G:OP1	50:H4:25:LYS:HG3	1.07	1.22
22:HB:1789:U:H5'	24:HD:257:LEU:CG	1.68	1.22
22:HB:95:G:H1'	45:HY:45:GLN:OE1	1.32	1.22
22:JB:17:G:C5'	48:J2:14:SER:HA	1.70	1.22
22:JB:3167:U:C3'	53:J7:97:LYS:CE	2.17	1.22
1:AA:1374:A:C1'	7:AG:28:ASN:O	1.77	1.21
1:AA:1077:G:N2	5:AE:45:PHE:HZ	1.37	1.21
22:BB:1453:A:H3'	22:BB:1454:U:C6	1.74	1.21
22:BB:1805:G:C5'	24:BD:43:ARG:CA	2.18	1.21
22:BB:2600:A:O4'	25:BE:158:GLY:CA	1.88	1.21
22:BB:2669:C:N4	35:BO:15:SER:HA	1.55	1.21
22:DB:2728:A:C4'	28:DH:67:LEU:CD1	1.99	1.21
22:DB:539:A:OP2	31:DK:139:ARG:NH2	1.73	1.21
22:FB:1394:G:N3	22:FB:1588:A:N6	1.87	1.21
22:FB:3866:A:C1'	53:F7:195:LYS:HD3	1.68	1.21
22:FB:979:A:H4'	46:FZ:13:PRO:CB	1.48	1.21
1:GA:107:G:N1	20:GT:14:LYS:HB3	1.52	1.21
22:HB:1378:A:C5'	47:H1:11:PRO:CB	2.17	1.21
22:HB:95:G:C1'	45:HY:45:GLN:CG	2.16	1.21
1:IA:767:A:C2	1:IA:1512:U:O2	1.93	1.21
1:IA:815:A:H3'	1:IA:1526:G:N2	1.46	1.21
22:JB:2328:G:H5''	51:J5:42:ARG:NH1	1.53	1.21
1:AA:1239:A:C2'	7:AG:115:ARG:HD2	1.70	1.21
22:BB:1042:G:H8	52:B6:6:SER:CB	1.42	1.21
22:BB:2726:U:H5''	28:BH:138:LYS:NZ	1.55	1.21
6:CF:83:ASP:OD1	24:DD:168:LYS:NZ	1.72	1.21
13:CM:87:TYR:C	13:CM:91:ARG:HG2	1.34	1.21
1:CA:111:G:OP1	16:CP:27:LYS:HE3	1.38	1.21

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:DB:2735:C:N4	52:D6:35:ARG:HH21	1.28	1.21
22:DB:1829:C:O2'	22:DB:1910:A:N3	1.69	1.21
22:DB:413:G:O6	47:D1:63:PHE:CZ	1.89	1.21
1:EA:1055:A:H2	3:EC:156:ARG:CD	1.53	1.21
10:GJ:64:GLU:O	14:GN:56:VAL:HG12	1.04	1.21
22:HB:2550:C:O2	25:HE:143:GLN:HG2	1.40	1.21
1:IA:1443:G:O6	37:JQ:98:LYS:HG2	1.36	1.21
15:AO:89:GLY:OXT	22:BB:729:A:OP2	1.59	1.21
22:DB:2333:A:O2'	44:DX:32:LYS:CE	1.89	1.21
1:EA:623:C:N4	4:ED:139:ARG:HH22	1.34	1.21
22:FB:1274:C:OP2	40:FT:118:LYS:HG3	1.39	1.21
22:FB:677:G:O3'	22:FB:678:G:P	1.97	1.21
22:FB:979:A:O3'	46:FZ:13:PRO:CA	1.87	1.21
22:FB:2811:G:C5'	37:FQ:4:HIS:HE1	1.52	1.21
22:HB:1861:G:N9	53:H7:199:ASN:HB2	1.55	1.21
22:HB:3875:A:C2	53:H7:43:LYS:HA	1.75	1.21
22:HB:221:A:OP1	33:HM:67:ASN:O	1.55	1.21
22:HB:95:G:C1'	45:HY:45:GLN:HG2	1.68	1.21
1:IA:637:G:O4'	17:IQ:2:PRO:HG3	1.39	1.21
22:JB:2722:C:H3'	52:J6:35:ARG:NH2	1.51	1.21
22:JB:1040:A:O3'	34:JN:125:LYS:HE2	1.06	1.21
22:BB:1805:G:H4'	24:BD:44:ASN:CA	1.70	1.21
22:BB:2725:C:O3'	28:BH:141:VAL:HG23	1.34	1.21
22:BB:742:G:C8	24:BD:208:LYS:HE2	1.75	1.21
25:BE:176:ARG:NH1	37:BQ:16:ILE:HA	1.35	1.21
34:BN:29:ALA:CB	43:BW:119:ASN:OD1	1.89	1.21
1:CA:953:G:C2	13:CM:120:LYS:CG	2.21	1.21
1:CA:1457:A:OP1	20:CT:27:LYS:HB3	1.35	1.21
22:DB:922:A:N6	34:DN:17:ARG:H	1.39	1.21
22:HB:1234:C:C5'	39:HS:68:LYS:HD2	1.69	1.21
1:EA:1265:G:H4'	1:IA:1272:G:C2'	1.68	1.21
1:IA:815:A:C4	1:IA:1508:G:N2	2.09	1.21
1:IA:620:C:H4'	4:ID:138:TYR:CD1	1.75	1.21
26:JF:86:PRO:HG2	38:JR:2:PRO:CB	1.68	1.21
1:AA:980:C:H4'	14:AN:19:ARG:NH2	1.36	1.21
1:AA:509:A:C8	4:AD:54:TYR:CE2	2.27	1.21
10:AJ:49:VAL:CG1	14:AN:45:ARG:CB	2.17	1.21
22:BB:1042:G:C2'	52:B6:23:VAL:HG21	1.68	1.21
22:BB:24:G:H1'	40:BT:98:ASP:CG	1.61	1.21
22:BB:1795:C:C5'	24:BD:250:TRP:CZ2	2.10	1.21
22:BB:2365:U:O2'	44:BX:37:LEU:CD1	1.88	1.21

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:1055:A:O2'	3:CC:161:GLU:O	1.57	1.21
1:CA:1239:A:C2'	7:CG:115:ARG:HD2	1.71	1.21
22:DB:864:C:O2'	46:DZ:40:VAL:HA	1.36	1.21
1:EA:1104:G:C1'	2:EB:111:ARG:CD	1.78	1.21
1:EA:1382:C:H4'	7:EG:79:ARG:CZ	1.70	1.21
22:FB:346:C:C2	42:FV:79:SER:HA	1.76	1.21
22:FB:1150:C:H5''	31:FK:51:LEU:O	1.39	1.21
22:FB:966:A:OP2	34:FN:18:MET:SD	1.97	1.21
22:FB:312:G:C5'	42:FV:89:GLY:HA2	1.71	1.21
1:GA:1398:A:N7	5:GE:22:GLY:HA2	1.53	1.21
1:GA:1349:A:C4'	9:GI:121:ARG:HH12	1.47	1.21
22:HB:2399:C:OP1	51:H5:33:ASN:CB	1.71	1.21
1:IA:452:A:O3'	16:IP:73:LEU:HD11	1.39	1.21
22:JB:2074:U:H1'	47:J1:43:TRP:O	1.06	1.21
22:JB:2722:C:C5	52:J6:35:ARG:NH1	2.07	1.21
22:JB:539:A:HO3'	22:JB:540:G:P	1.08	1.21
22:BB:2236:U:OP2	44:BX:4:LYS:HG2	1.37	1.21
1:CA:546:G:OP2	4:CD:71:SER:HB2	1.08	1.21
1:CA:408:A:H4'	4:CD:112:VAL:CG1	1.69	1.21
22:DB:2040:A:C1'	48:D2:3:LYS:HB3	1.64	1.21
22:DB:699:G:N3	50:D4:5:TYR:HA	1.54	1.21
23:FA:79:U:OP2	43:FW:10:PRO:CB	1.88	1.21
22:FB:2263:C:H5''	49:F3:8:ILE:CG1	1.69	1.21
22:FB:980:G:C5'	46:FZ:13:PRO:HA	1.70	1.21
43:FW:47:SER:O	43:FW:95:SER:OG	1.54	1.21
22:HB:1340:C:OP1	40:HT:119:LYS:HD2	1.41	1.21
1:IA:332:G:H1'	20:IT:16:HIS:CD2	1.73	1.21
22:JB:63:A:N3	41:JU:62:ARG:HG2	0.88	1.21
22:BB:2725:C:H4'	28:BH:142:GLY:N	1.56	1.21
22:BB:2474:G:C1'	34:BN:83:ARG:CG	1.90	1.21
1:CA:546:G:OP2	4:CD:71:SER:CB	1.88	1.21
22:DB:164:G:H5''	47:D1:12:CYS:O	1.38	1.21
22:DB:2551:A:C5	25:DE:144:ARG:CB	2.24	1.21
22:FB:2461:G:N2	34:FN:53:ILE:HD12	1.54	1.21
22:FB:1240:G:OP2	38:FR:16:LYS:HG2	1.38	1.21
22:FB:1405:A:C6	41:FU:15:LYS:HE3	1.71	1.21
1:GA:324:G:C4'	20:GT:15:ARG:NH2	2.02	1.21
22:HB:3197:U:C2	22:HB:2203:G:C6	2.27	1.21
1:IA:973:G:O2'	10:IJ:54:PHE:CZ	1.92	1.21
22:JB:528:G:N3	40:JT:96:TYR:CD2	2.09	1.21
22:JB:592:G:OP1	38:JR:8:ILE:CA	1.86	1.21

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:JB:631:G:C6	33:JM:96:TYR:CD2	2.28	1.21
23:JA:49:C:C5'	36:JP:94:TYR:HE1	1.48	1.21
1:AA:430:A:OP1	4:AD:8:VAL:N	1.72	1.21
1:AA:877:C:O2	8:AH:3:THR:CB	1.89	1.21
10:AJ:50:ILE:O	14:AN:45:ARG:CD	1.89	1.21
22:BB:1674:C:OP1	25:BE:134:TRP:CB	1.87	1.21
22:BB:1861:G:O6	53:B7:199:ASN:O	1.54	1.21
22:BB:2825:A:C2	35:BO:61:HIS:CD2	2.29	1.21
22:DB:643:A:C4'	33:DM:66:ASN:O	1.89	1.21
1:EA:880:C:OP1	12:EL:7:ILE:CB	1.85	1.21
22:FB:2398:U:H3'	51:F5:31:HIS:O	1.10	1.21
22:FB:2810:A:C8	37:FQ:6:LYS:HD2	1.75	1.21
1:GA:720:C:O2	18:GR:50:ILE:CD1	1.87	1.21
12:GL:10:LEU:C	17:GQ:32:TYR:CD2	2.14	1.21
22:HB:1437:A:H2'	22:HB:1438:G:C8	1.74	1.21
22:HB:1889:G:OP1	22:HB:1913:G:N7	1.72	1.21
22:HB:2339:A:OP1	51:H5:49:VAL:HA	1.05	1.21
22:HB:5:A:C2	22:HB:2873:G:C6	2.29	1.21
12:IL:22:SER:C	12:IL:23:LYS:N	1.93	1.21
22:JB:2210:C:P	47:J1:39:VAL:HG22	1.79	1.21
23:JA:10:U:H4'	36:JP:28:ARG:NH1	0.89	1.21
23:JA:10:U:O2	36:JP:49:GLN:HG3	1.10	1.21
22:JB:2708:U:OP1	32:JL:82:LYS:HG3	1.39	1.21
1:AA:694:A:C5'	11:AK:53:SER:CB	2.15	1.21
1:AA:740:U:O2	15:AO:49:ASP:OD1	1.59	1.21
23:BA:107:C:C4'	43:BW:89:GLY:HA3	1.68	1.21
34:BN:29:ALA:HB3	43:BW:119:ASN:CG	1.59	1.21
22:DB:2708:U:H4'	25:DE:21:ILE:CG1	1.71	1.21
22:DB:2313:G:O2'	36:DP:15:ARG:NH1	1.74	1.21
1:EA:958:A:C2	19:ES:55:LYS:CB	2.23	1.21
23:FA:44:C:O3'	27:FG:64:LYS:HE3	1.41	1.21
23:FA:92:G:H21	34:FN:22:ALA:CA	1.52	1.21
22:FB:2708:U:C4'	25:FE:21:ILE:HD11	1.47	1.21
38:FR:44:THR:C	39:FS:76:SER:HA	1.58	1.21
22:FB:1165:G:OP1	38:FR:62:ILE:HG21	1.39	1.21
22:HB:700:C:C5'	50:H4:4:THR:HA	1.69	1.21
22:HB:1078:A:C2	30:HJ:23:VAL:CG1	2.23	1.21
22:HB:2489:C:C4'	25:HE:126:PRO:HD2	1.70	1.21
22:HB:1167:A:C2	38:HR:48:ARG:CD	2.24	1.21
22:JB:2264:C:C4	49:J3:27:ASN:HA	1.74	1.21
22:JB:1075:C:C1'	30:JJ:88:SER:O	1.88	1.21

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1350:A:OP2	9:AI:121:ARG:HG3	1.34	1.21
1:AA:529:G:N1	12:AL:48:PRO:CD	1.78	1.21
22:BB:596:C:OP2	33:BM:30:ALA:CB	1.88	1.21
22:DB:512:A:C5'	40:DT:15:LYS:CG	2.19	1.21
22:FB:58:C:C2	22:FB:72:A:C2	2.27	1.21
22:FB:311:A:OP2	42:FV:91:ALA:HB2	1.30	1.21
22:HB:1036:G:O3'	22:HB:1037:U:P	1.98	1.21
22:HB:2685:A:H4'	35:HO:64:ARG:NH2	1.53	1.21
22:HB:1261:G:P	38:HR:2:PRO:HB3	1.80	1.21
22:HB:1019:U:C1'	38:HR:59:ARG:NH2	2.03	1.21
1:IA:752:G:C5'	15:IO:69:TYR:CE1	2.24	1.21
23:JA:62:C:OP1	36:JP:6:THR:CG2	1.89	1.21
22:JB:2241:U:H3'	44:JX:15:ASP:OD2	1.35	1.21
1:AA:1230:C:C2	13:AM:125:ARG:HD3	1.76	1.20
1:AA:1320:C:H1'	19:AS:73:GLU:N	1.57	1.20
22:BB:1109:A:O2'	30:BJ:7:ILE:CD1	1.88	1.20
22:BB:177:U:C5'	47:B1:31:ILE:CG1	2.19	1.20
22:BB:1583:A:N6	24:BD:89:SER:OG	1.71	1.20
22:BB:2464:G:H5'	34:BN:47:GLN:NE2	1.54	1.20
1:CA:1316:G:O3'	14:CN:18:VAL:CG1	1.90	1.20
1:CA:1077:G:N1	5:CE:45:PHE:CE2	2.08	1.20
22:FB:2372:A:O2'	33:FM:59:ARG:CB	1.88	1.20
22:FB:2652:G:C4'	32:FL:46:HIS:CE1	2.23	1.20
38:FR:45:TYR:HA	39:FS:76:SER:OG	1.38	1.20
1:GA:1225:A:OP1	13:GM:102:ARG:CB	1.87	1.20
22:HB:2064:U:OP1	47:H1:33:VAL:CG2	1.87	1.20
22:HB:59:G:N2	22:HB:86:U:C4	2.08	1.20
34:HN:66:TYR:CE1	43:HW:115:ILE:CB	2.10	1.20
1:IA:686:U:C1'	11:IK:42:TRP:HE1	1.52	1.20
22:JB:2463:G:N2	34:JN:120:ARG:CZ	1.94	1.20
22:JB:2685:A:C4'	35:JO:64:ARG:NH2	2.04	1.20
1:AA:1239:A:C3'	7:AG:115:ARG:HG2	1.71	1.20
22:BB:2394:G:H5''	33:BM:63:ARG:O	1.37	1.20
22:BB:886:A:C2	43:BW:167:THR:HG23	1.74	1.20
1:CA:1345:U:C5'	9:CI:120:ARG:CZ	2.09	1.20
5:CE:151:LEU:HB3	8:CH:42:GLU:O	1.36	1.20
22:DB:2713:A:C8	25:DE:205:SER:C	1.91	1.20
22:DB:2463:G:C1'	34:DN:121:LEU:HD12	1.68	1.20
1:EA:880:C:OP2	12:EL:7:ILE:CB	1.84	1.20
22:FB:1261:G:OP1	26:FF:86:PRO:HG3	1.36	1.20
22:FB:1889:G:OP1	22:FB:1913:G:N7	1.74	1.20

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:FB:498:C:O4'	40:FT:77:ALA:CB	1.87	1.20
22:FB:965:G:C5'	34:FN:18:MET:HG3	1.70	1.20
22:HB:3876:A:N6	53:H7:45:ASP:HB3	1.54	1.20
22:HB:1998:A:C4	48:H2:6:VAL:CG1	2.23	1.20
22:HB:2789:U:N1	48:H2:30:LEU:HD12	1.54	1.20
22:HB:2826:C:C4'	35:HO:64:ARG:HH12	1.55	1.20
41:HU:92:ALA:HB1	45:HY:27:GLU:CB	1.70	1.20
22:JB:2313:G:O2'	36:JP:15:ARG:NH1	1.74	1.20
26:JF:28:HIS:CB	33:JM:18:ARG:HE	1.54	1.20
22:BB:755:C:C4'	25:BE:129:HIS:NE2	2.04	1.20
34:BN:36:ILE:HG12	43:BW:74:ARG:NH1	1.56	1.20
1:CA:1117:G:C4'	9:CI:9:ARG:CZ	2.18	1.20
22:DB:2040:A:C2'	48:D2:3:LYS:HB3	1.72	1.20
22:DB:696:U:H5''	50:D4:16:HIS:ND1	1.55	1.20
1:EA:1320:C:H1'	19:ES:72:GLY:C	1.62	1.20
1:GA:694:A:O5'	11:GK:53:SER:CB	1.89	1.20
1:GA:277:C:OP1	17:GQ:41:LYS:HB3	1.39	1.20
1:GA:192:U:C5'	20:GT:56:MET:CE	2.19	1.20
22:HB:1225:G:N2	40:HT:12:LYS:NZ	1.89	1.20
1:EA:1273:G:C5'	1:IA:1265:G:H3'	1.52	1.20
1:IA:752:G:C5'	15:IO:69:TYR:OH	1.90	1.20
1:IA:925:G:O4'	1:IA:1502:A:H1'	1.42	1.20
1:IA:1314:C:N4	19:IS:4:SER:OG	1.74	1.20
22:JB:610:G:C5'	26:JF:99:VAL:HG22	1.71	1.20
22:JB:1204:G:C5'	33:JM:37:GLN:HE22	1.39	1.20
1:AA:17:U:O2	1:AA:1079:G:C2	1.93	1.20
1:AA:815:A:N6	1:AA:1529:G:O2'	1.71	1.20
1:AA:331:G:C2	20:AT:8:ARG:O	1.93	1.20
22:BB:2790:C:O3'	48:B2:42:SER:O	1.56	1.20
22:BB:6:A:N6	22:BB:2870:C:H42	1.37	1.20
22:BB:2725:C:C5'	28:BH:142:GLY:C	2.08	1.20
22:BB:1070:G:OP1	30:BJ:114:ASP:CG	1.79	1.20
22:DB:2236:U:O3'	44:DX:10:SER:CB	1.89	1.20
22:DB:2615:U:C4'	25:DE:79:ARG:CG	2.07	1.20
22:DB:2181:A:H1'	29:DI:24:TYR:CD2	1.42	1.20
1:EA:520:A:O3'	12:EL:72:GLY:O	1.56	1.20
22:FB:2:G:N2	22:FB:2875:C:O2	1.73	1.20
1:GA:17:U:H5''	5:GE:14:ARG:CD	1.70	1.20
1:GA:265:G:N3	17:GQ:70:ARG:NH2	1.89	1.20
1:GA:264:U:C1'	17:GQ:63:ARG:C	2.05	1.20
22:HB:3187:U:O3'	29:HI:20:VAL:HG13	1.38	1.20

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:JA:10:U:C2	36:JP:49:GLN:HG3	1.75	1.20
22:JB:2462:C:O2	34:JN:121:LEU:HD11	1.41	1.20
22:BB:176:A:C2	47:B1:32:HIS:CE1	2.28	1.20
22:BB:2218:G:OP2	24:BD:230:ASP:N	1.75	1.20
22:DB:1437:A:H2'	22:DB:1438:G:C8	1.77	1.20
22:DB:2463:G:H21	34:DN:120:ARG:CD	1.52	1.20
1:EA:1318:A:O3'	19:ES:10:PHE:HB2	1.41	1.20
1:EA:761:G:C6	17:EQ:104:LYS:HE3	1.70	1.20
1:EA:1382:C:H4'	7:EG:79:ARG:NE	1.55	1.20
22:FB:2264:C:C5	49:F3:27:ASN:O	1.93	1.20
29:FI:30:ILE:HG21	47:F1:73:LYS:O	1.39	1.20
1:GA:265:G:N2	17:GQ:70:ARG:NH2	1.85	1.20
7:GG:149:ARG:O	11:GK:59:TYR:CE2	1.95	1.20
22:HB:420:C:OP2	53:H7:197:GLU:CG	1.90	1.20
25:HE:151:TYR:HA	31:HK:106:TYR:CE2	1.77	1.20
22:HB:1019:U:O2'	38:HR:59:ARG:HD2	1.39	1.20
22:HB:489:A:C3'	42:HV:5:SER:HA	1.71	1.20
41:HU:91:LEU:HD13	45:HY:24:GLU:CD	1.61	1.20
1:IA:1057:G:OP1	3:IC:163:ALA:HB1	1.41	1.20
22:JB:491:A:C1'	42:JV:53:VAL:CG1	2.12	1.20
22:BB:3867:G:C4'	53:B7:42:LYS:CB	2.17	1.20
13:CM:87:TYR:C	13:CM:91:ARG:CG	2.05	1.20
22:FB:2209:G:O2'	47:F1:39:VAL:HG13	1.34	1.20
22:FB:2283:G:N3	27:FG:153:ASP:OD1	1.73	1.20
1:GA:580:U:C3'	15:GO:57:LEU:HD21	1.71	1.20
10:GJ:51:ARG:CA	14:GN:45:ARG:CZ	2.19	1.20
22:HB:1828:C:O2	22:HB:1912:G:H5'	1.33	1.20
22:HB:505:G:H1'	40:HT:78:ASN:O	1.39	1.20
23:HA:107:C:H5''	43:HW:89:GLY:N	1.55	1.20
22:HB:2310:G:C5'	44:HX:71:ASN:CA	2.20	1.20
1:IA:675:A:C2	11:IK:116:HIS:CG	2.28	1.20
22:JB:1998:A:C2'	48:J2:3:LYS:HB2	1.17	1.20
22:JB:1087:C:C1'	30:JJ:90:THR:HA	1.68	1.20
22:JB:646:C:OP1	33:JM:127:ALA:HB3	1.40	1.20
23:JA:117:G:O3'	36:JP:52:ALA:CA	1.87	1.20
1:AA:974:A:C2	14:AN:31:ARG:CB	2.23	1.20
10:AJ:64:GLU:O	14:AN:56:VAL:C	1.80	1.20
1:AA:666:G:C1'	15:AO:51:HIS:CG	2.24	1.20
22:BB:1109:A:C2'	30:BJ:7:ILE:HD11	1.71	1.20
22:BB:2365:U:C2'	44:BX:37:LEU:HD11	1.72	1.20
1:CA:759:A:C4	17:CQ:98:LEU:CB	2.17	1.20

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:DA:77:G:O2'	43:DW:30:VAL:C	1.80	1.20
22:DB:1581:C:C5	24:DD:28:ARG:NH2	2.10	1.20
22:DB:644:A:OP1	33:DM:70:THR:CG2	1.89	1.20
23:FA:9:G:H4'	36:FP:32:TYR:OH	1.06	1.20
1:GA:323:U:C2'	20:GT:19:SER:HB2	1.47	1.20
22:JB:205:A:C5'	33:JM:144:GLU:CG	2.18	1.20
1:AA:980:C:O2	14:AN:21:TYR:CE1	1.92	1.20
13:AM:99:ARG:NE	19:AS:2:PRO:HB3	1.52	1.20
22:BB:910:U:C2	22:BB:911:A:O4'	1.81	1.20
25:BE:17:ASN:O	37:BQ:87:LEU:HD11	1.41	1.20
34:BN:64:LYS:O	43:BW:115:ILE:HD11	1.34	1.20
22:BB:2344:G:OP1	44:BX:41:ARG:HA	1.05	1.20
1:CA:932:C:C4'	7:CG:3:ARG:HD3	1.69	1.20
22:DB:2039:G:N2	48:D2:3:LYS:C	1.93	1.20
22:DB:1042:G:H5'	52:D6:8:LYS:CE	1.72	1.20
22:DB:2405:A:OP2	44:DX:2:ALA:N	1.74	1.20
22:DB:676:G:OP1	33:DM:27:ASP:OD2	1.56	1.20
1:EA:1439:C:OP1	20:ET:34:LYS:HD3	1.41	1.20
22:FB:827:C:C4	33:FM:32:ARG:NH1	1.96	1.20
22:FB:2372:A:C1'	33:FM:59:ARG:CB	1.93	1.20
1:GA:375:U:H5'	16:GP:17:TYR:OH	1.40	1.20
1:GA:35:G:N3	12:GL:118:SER:CA	2.05	1.20
22:HB:2310:G:O2'	44:HX:70:ILE:HG22	1.27	1.20
22:JB:797:A:C5	24:JD:229:VAL:CG2	2.23	1.20
22:JB:62:U:C4'	41:JU:62:ARG:NH1	1.90	1.20
22:BB:916:U:O2	43:BW:166:LEU:HA	1.38	1.20
1:CA:827:U:C4'	8:CH:21:LYS:HD3	1.72	1.20
22:DB:538:A:H3'	31:DK:139:ARG:CZ	1.70	1.20
22:DB:227:G:P	33:DM:59:ARG:HH21	1.62	1.20
22:FB:2692:A:O2'	35:FO:15:SER:N	1.75	1.20
22:FB:2773:G:C2	22:FB:2780:A:H1'	1.75	1.20
22:FB:864:C:H5'	46:FZ:42:GLY:O	1.35	1.20
34:FN:36:ILE:CD1	43:FW:74:ARG:O	1.89	1.20
22:HB:2760:G:OP1	31:HK:145:HIS:O	1.57	1.20
1:IA:1130:A:H4'	9:II:18:PHE:CD1	1.75	1.20
22:JB:1336:G:C5'	40:JT:105:ARG:HD3	1.71	1.20
22:JB:1999:U:O2	48:J2:6:VAL:CB	1.70	1.20
22:JB:3175:C:C4'	53:J7:31:GLU:OE1	1.86	1.20
22:JB:77:C:OP1	45:JY:7:ARG:CD	1.88	1.20
22:BB:1398:G:C2	22:BB:1416:A:C5	2.29	1.20
22:BB:2310:G:O2'	44:BX:70:ILE:CG2	1.89	1.20

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1470:G:O2'	32:BL:17:ARG:NH1	1.73	1.20
22:DB:2039:G:N2	48:D2:3:LYS:O	1.75	1.20
22:DB:2283:G:O2'	27:DG:153:ASP:CB	1.89	1.20
22:DB:2399:C:N4	51:D5:31:HIS:ND1	1.87	1.20
22:DB:2725:C:H1'	28:DH:139:GLN:C	1.59	1.20
32:DL:87:SER:CB	37:DQ:83:PHE:N	1.89	1.20
34:DN:99:LYS:HB2	43:DW:73:LYS:CG	1.72	1.20
1:EA:598:U:O2'	8:EH:95:VAL:HG23	1.04	1.20
22:FB:2448:A:H4'	34:FN:58:HIS:CE1	1.77	1.20
22:FB:2394:G:C5'	33:FM:64:GLY:HA2	1.64	1.20
22:FB:1003:C:H5''	38:FR:47:TYR:CZ	1.77	1.20
1:GA:1367:C:OP2	9:GI:115:GLY:HA2	1.42	1.20
1:GA:277:C:OP1	17:GQ:41:LYS:CB	1.88	1.20
13:GM:6:GLY:HA2	27:HG:110:ARG:NH2	1.42	1.20
22:HB:1998:A:N6	48:H2:7:PRO:CD	2.03	1.20
22:JB:3166:G:C3'	53:J7:98:ARG:H	1.54	1.20
22:JB:2262:C:O3'	49:J3:8:ILE:HG12	1.02	1.20
22:JB:626:A:N3	26:JF:172:VAL:CG1	1.96	1.20
22:JB:910:U:H3'	22:JB:911:A:P	1.82	1.20
22:JB:2557:G:N3	25:JE:133:LYS:CE	2.03	1.20
1:AA:16:A:H4'	5:AE:16:THR:CA	1.50	1.19
23:BA:96:C:P	43:BW:14:LEU:HB2	1.81	1.19
22:BB:2470:U:O2	22:BB:2548:G:O3'	1.54	1.19
22:BB:597:U:H4'	33:BM:28:LYS:CD	1.71	1.19
22:BB:818:G:O5'	33:BM:41:SER:CA	1.90	1.19
22:BB:1805:G:H5''	24:BD:43:ARG:CA	1.72	1.19
22:BB:2600:A:O3'	25:BE:159:HIS:CB	1.89	1.19
22:DB:809:C:OP2	26:DF:57:LYS:HG3	1.37	1.19
22:DB:2856:U:H4'	35:DO:93:GLY:C	1.61	1.19
6:EF:49:ALA:CB	18:ER:80:PRO:HD3	1.71	1.19
1:EA:538:G:C4'	12:EL:114:LYS:HB2	1.70	1.19
22:FB:2714:A:N6	22:FB:2750:G:H1'	1.57	1.19
22:FB:891:A:N1	22:FB:909:C:N3	1.88	1.19
22:FB:2372:A:C2'	33:FM:59:ARG:HG3	1.71	1.19
38:FR:47:TYR:HD1	39:FS:74:TYR:CB	1.50	1.19
1:GA:60:A:H62	20:GT:12:ALA:CB	1.54	1.19
22:HB:1378:A:C5'	47:H1:11:PRO:HB2	1.70	1.19
1:IA:1057:G:P	3:IC:163:ALA:CB	2.30	1.19
22:JB:1861:G:C1'	53:J7:199:ASN:HD21	1.53	1.19
22:JB:2848:A:C2	35:JO:7:GLY:O	1.94	1.19
13:AM:81:LEU:CB	13:AM:92:HIS:NE2	2.00	1.19

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:BA:107:C:H4'	43:BW:89:GLY:CA	1.67	1.19
22:BB:1040:A:C4'	34:BN:125:LYS:HZ3	1.38	1.19
22:BB:1398:G:O4'	22:BB:1416:A:C2	1.95	1.19
22:BB:1437:A:N6	22:BB:1439:G:N2	1.90	1.19
22:BB:675:C:OP1	33:BM:26:THR:HG23	1.37	1.19
22:BB:741:G:O3'	24:BD:17:THR:O	1.56	1.19
22:BB:2553:G:N2	25:BE:140:SER:OG	1.75	1.19
22:BB:2007:G:C2	31:BK:103:TYR:CE1	2.29	1.19
22:BB:597:U:C4'	33:BM:28:LYS:HD2	1.72	1.19
1:CA:922:G:O2'	5:CE:21:ALA:HB2	1.43	1.19
1:EA:1240:U:P	7:EG:115:ARG:HG2	1.81	1.19
40:FT:60:ILE:HG21	48:F2:25:LEU:CG	1.71	1.19
22:FB:2714:A:C1'	25:FE:205:SER:HB3	1.72	1.19
22:HB:2760:G:N2	31:HK:149:LYS:HZ2	1.26	1.19
22:HB:1995:G:C5'	40:HT:118:LYS:N	2.03	1.19
1:IA:1196:U:OP2	1:IA:1397:C:C4	1.95	1.19
22:JB:2399:C:C6	51:J5:32:GLN:HA	1.27	1.19
22:JB:1001:A:C4'	46:JZ:27:LYS:HZ3	1.54	1.19
22:JB:1828:C:O2	22:JB:1912:G:H5'	1.03	1.19
22:JB:469:G:OP1	50:J4:40:HIS:CA	1.88	1.19
1:AA:529:G:N2	12:AL:49:ASN:CA	2.03	1.19
6:AF:83:ASP:OD1	24:BD:168:LYS:NZ	1.75	1.19
1:AA:980:C:C4'	14:AN:19:ARG:HH22	1.42	1.19
22:BB:625:A:C4'	26:BF:38:ARG:NE	2.04	1.19
22:BB:2725:C:C4'	28:BH:143:GLN:N	2.05	1.19
22:DB:547:U:C4'	31:DK:30:LYS:HG3	1.73	1.19
34:DN:98:VAL:HG22	43:DW:73:LYS:CE	1.56	1.19
22:FB:3875:A:H8	53:F7:43:LYS:CG	1.39	1.19
1:GA:735:C:N1	18:GR:75:ILE:CD1	2.04	1.19
22:HB:2337:A:C2'	51:H5:52:LYS:NZ	2.05	1.19
22:HB:1454:U:H3	22:HB:1568:A:N6	1.40	1.19
22:HB:487:G:O3'	22:HB:488:A:P	2.00	1.19
22:HB:512:A:H1'	40:HT:12:LYS:O	1.03	1.19
22:HB:1995:G:OP2	40:HT:120:ARG:HB2	1.40	1.19
1:IA:392:G:P	16:IP:12:LYS:HA	1.81	1.19
22:JB:2265:A:N7	49:J3:31:THR:OG1	1.71	1.19
22:BB:1674:C:OP2	25:BE:134:TRP:CD1	1.96	1.19
1:CA:558:G:C5'	5:CE:121:LYS:HE2	1.72	1.19
13:CM:88:ARG:N	13:CM:91:ARG:CG	1.85	1.19
22:DB:1469:U:C4	35:DO:60:LEU:CD1	2.26	1.19
22:DB:29:U:C5'	38:DR:7:GLY:C	2.10	1.19

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:EA:391:G:H5''	16:EP:8:ARG:NH2	0.87	1.19
1:EA:518:C:C1'	12:EL:51:ALA:HA	1.72	1.19
23:FA:9:G:H5'	36:FP:32:TYR:CE1	1.77	1.19
43:FW:88:TYR:O	43:FW:90:GLU:HB3	1.39	1.19
1:GA:778:G:N2	11:GK:120:ARG:HD2	1.50	1.19
1:GA:778:G:N3	11:GK:120:ARG:CD	2.06	1.19
22:HB:419:G:P	53:H7:1:MET:SD	2.40	1.19
22:JB:2001:G:H1'	38:JR:33:ARG:CD	1.64	1.19
1:AA:332:G:H4'	20:AT:13:LEU:CD1	1.71	1.19
22:DB:2007:G:C4'	25:DE:149:ARG:HD2	1.72	1.19
22:DB:2328:G:OP2	51:D5:41:ILE:CD1	1.91	1.19
22:DB:1168:G:O3'	46:DZ:27:LYS:NZ	1.73	1.19
23:FA:10:U:O2	36:FP:49:GLN:HG3	1.41	1.19
23:FA:116:C:O2'	36:FP:50:THR:HA	1.07	1.19
1:GA:975:A:H2'	14:GN:31:ARG:O	1.40	1.19
22:HB:1613:G:C3'	22:HB:1614:C:P	2.30	1.19
22:HB:57:G:H2'	22:HB:72:A:C6	1.77	1.19
22:JB:394:U:H1'	47:J1:13:LYS:HE2	1.25	1.19
22:JB:1999:U:O2	48:J2:7:PRO:HD2	1.05	1.19
22:JB:2851:G:O3'	37:JQ:8:ASN:HB2	1.04	1.19
22:BB:1135:C:H2'	52:B6:4:ARG:CA	1.48	1.19
22:BB:1490:U:N3	22:BB:1535:C:OP2	1.75	1.19
22:BB:156:G:O2'	50:B4:35:ARG:NH2	1.75	1.19
22:BB:2474:G:H4'	34:BN:83:ARG:N	1.57	1.19
22:DB:187:U:H5'	50:D4:26:SER:OG	1.41	1.19
23:DA:9:G:H4'	36:DP:32:TYR:OH	1.42	1.19
22:DB:865:A:O4'	46:DZ:39:ALA:HA	1.07	1.19
1:EA:1061:G:H4'	10:EJ:56:HIS:NE2	1.56	1.19
1:EA:1320:C:C2	19:ES:72:GLY:HA3	1.77	1.19
1:EA:392:G:OP2	16:EP:12:LYS:HG2	1.41	1.19
22:FB:1041:G:H5'	34:FN:119:PHE:CZ	1.77	1.19
22:FB:1164:C:H4'	38:FR:76:TYR:CE2	1.76	1.19
22:FB:2292:C:C5'	27:FG:87:ILE:HD11	1.70	1.19
22:HB:60:A:OP2	45:HY:44:ARG:CB	1.91	1.19
22:HB:95:G:O2'	45:HY:45:GLN:NE2	1.74	1.19
4:ID:205:GLU:HB3	5:IE:101:ILE:HG23	1.20	1.19
22:JB:3167:U:C4'	53:J7:97:LYS:HE2	1.70	1.19
22:JB:2282:G:H1'	27:JG:129:ASN:OD1	1.41	1.19
22:JB:2842:C:N4	37:JQ:28:ARG:CA	1.91	1.19
22:JB:673:G:OP1	26:JF:92:ASP:O	1.57	1.19
26:JF:28:HIS:CG	33:JM:18:ARG:NE	2.10	1.19

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:BB:1673:C:C6	25:BE:136:ARG:NH2	2.09	1.19
22:BB:704:G:H5''	24:BD:218:LYS:NZ	1.54	1.19
22:BB:680:U:OP2	33:BM:48:PHE:HA	1.39	1.19
22:BB:1040:A:C4'	34:BN:125:LYS:NZ	1.84	1.19
1:CA:255:G:C8	17:CQ:17:LYS:NZ	2.10	1.19
40:DT:52:ASP:CB	48:D2:29:ASN:OD1	1.90	1.19
22:FB:1203:A:H4'	33:FM:37:GLN:H	1.06	1.19
1:GA:254:G:C4	17:GQ:16:GLN:O	1.96	1.19
22:HB:3179:C:OP1	53:H7:38:GLY:CA	1.89	1.19
22:JB:1268:U:OP2	26:JF:68:ARG:CD	1.90	1.19
22:JB:2463:G:N2	34:JN:120:ARG:NE	1.88	1.19
22:JB:512:A:H4'	40:JT:15:LYS:C	1.63	1.19
22:JB:646:C:OP1	33:JM:127:ALA:CB	1.90	1.19
22:JB:493:A:H4'	42:JV:56:LYS:CB	1.71	1.19
1:AA:43:C:O5'	16:AP:12:LYS:CE	1.91	1.19
1:AA:264:U:O2	17:AQ:64:PRO:CD	1.89	1.19
22:BB:2273:C:OP2	36:BP:11:LEU:HG	1.40	1.19
22:BB:574:C:P	39:BS:79:GLN:CA	2.31	1.19
22:BB:1149:G:OP1	31:BK:130:ALA:CA	1.91	1.19
22:BB:596:C:C1'	33:BM:29:THR:HG21	1.73	1.19
1:CA:10:A:N7	5:CE:126:ARG:HD2	1.57	1.19
22:FB:1021:A:OP1	38:FR:66:ASN:ND2	1.75	1.19
22:FB:999:A:OP1	46:FZ:7:ARG:C	1.79	1.19
34:FN:99:LYS:CB	43:FW:74:ARG:CB	2.19	1.19
22:FB:828:C:C5'	39:FS:86:HIS:NE2	2.02	1.19
22:FB:491:A:C4'	42:FV:55:THR:HG23	1.70	1.19
22:HB:677:G:H2'	22:HB:678:G:O4'	1.42	1.19
22:JB:1437:A:O3'	22:JB:1438:G:P	1.99	1.19
22:JB:2262:C:O3'	49:J3:8:ILE:CG1	1.91	1.19
22:JB:512:A:C5'	40:JT:16:GLN:HA	1.70	1.19
22:JB:635:C:OP1	51:J5:63:PRO:CD	1.90	1.19
22:JB:847:C:O2'	22:JB:2337:A:H1'	1.42	1.19
1:AA:17:U:C5'	5:AE:16:THR:CB	2.12	1.19
22:BB:1401:G:C6	22:BB:1413:U:C4	2.30	1.19
22:BB:505:G:C2'	40:BT:82:ASN:CB	2.20	1.19
1:CA:1316:G:O3'	14:CN:18:VAL:HG11	1.03	1.19
22:DB:677:G:O3'	22:DB:678:G:P	1.99	1.19
22:DB:2615:U:H1'	25:DE:79:ARG:NH1	1.57	1.19
22:FB:1363:C:C2'	22:FB:1588:A:H1'	1.71	1.19
22:FB:409:G:OP1	47:F1:10:VAL:HG22	1.35	1.19
22:FB:57:G:C5'	41:FU:73:ASN:O	1.86	1.19

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:FB:1290:A:H1'	35:FO:24:GLN:HA	1.20	1.19
1:GA:932:C:H4'	7:GG:4:ARG:CG	1.71	1.19
1:GA:16:A:H1'	5:GE:17:ALA:N	1.11	1.19
22:HB:647:G:C5	33:HM:128:ALA:HB2	1.77	1.19
25:HE:151:TYR:CA	31:HK:106:TYR:OH	1.90	1.19
22:JB:2723:C:OP1	52:J6:33:LYS:NZ	1.76	1.19
22:JB:2505:G:O3'	52:J6:33:LYS:O	1.57	1.19
22:JB:1810:U:N3	24:JD:154:GLN:CG	2.03	1.19
22:JB:1810:U:C2'	24:JD:154:GLN:NE2	1.91	1.19
22:JB:1001:A:H5'	46:JZ:27:LYS:HE2	1.19	1.19
1:AA:179:A:C5	20:GT:99:LEU:O	1.96	1.19
1:CA:1148:U:C4'	9:CI:66:ARG:NH2	2.04	1.19
1:CA:815:A:C2	1:CA:1529:G:N3	2.11	1.19
1:CA:519:C:H5'	12:CL:51:ALA:CA	1.71	1.19
23:DA:92:G:C2	34:DN:22:ALA:CA	2.26	1.19
34:DN:29:ALA:O	43:DW:119:ASN:OD1	1.59	1.19
1:EA:653:A:N1	8:EH:27:PRO:CB	2.04	1.19
22:FB:477:A:C5'	50:F4:16:HIS:HE1	1.57	1.19
22:FB:2283:G:O2'	27:FG:153:ASP:HB3	1.36	1.19
22:FB:2398:U:C3'	51:F5:31:HIS:O	1.89	1.19
22:FB:1019:U:C5'	31:FK:63:ARG:HD2	1.72	1.19
1:GA:251:G:O2'	17:GQ:67:LYS:CD	1.90	1.19
22:HB:539:A:OP2	31:HK:139:ARG:HB2	1.43	1.19
1:IA:589:C:H5'	8:IH:31:PHE:HB2	1.23	1.19
22:JB:3124:G:O3'	53:J7:61:ALA:O	1.56	1.19
22:JB:2636:A:OP2	28:JH:181:GLY:HA3	1.39	1.19
1:AA:546:G:OP2	4:AD:72:GLU:N	1.74	1.18
1:AA:864:A:OP1	5:AE:86:ALA:HB2	1.36	1.18
22:BB:1045:G:P	52:B6:16:VAL:CG2	2.29	1.18
22:BB:2793:G:P	35:BO:42:LYS:HE3	1.82	1.18
22:BB:575:U:C4	39:BS:79:GLN:CG	2.22	1.18
22:BB:2334:C:H5'	44:BX:21:LEU:HD11	1.21	1.18
1:CA:741:G:C4'	15:CO:55:GLY:HA3	1.73	1.18
25:DE:51:TYR:OH	37:DQ:3:THR:HA	1.39	1.18
22:FB:1437:A:O3'	22:FB:1438:G:P	2.00	1.18
22:FB:2291:U:H5''	27:FG:85:VAL:O	1.42	1.18
22:FB:504:G:N2	40:FT:78:ASN:OD1	1.74	1.18
22:FB:2242:C:OP2	44:FX:15:ASP:OD2	1.61	1.18
1:GA:1224:G:O2'	13:GM:102:ARG:HB3	1.06	1.18
22:HB:1487:C:N3	22:HB:1536:G:N1	1.88	1.18
22:HB:498:C:O2	40:HT:74:SER:HB2	1.25	1.18

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:HB:2310:G:H4'	44:HX:71:ASN:CA	1.73	1.18
1:IA:640:A:N3	8:IH:128:GLY:O	1.76	1.18
13:IM:82:MET:HA	13:IM:92:HIS:CD2	1.77	1.18
1:IA:752:G:H5''	15:IO:69:TYR:CE1	1.78	1.18
22:JB:543:G:C5'	38:JR:22:LYS:NZ	2.06	1.18
1:AA:17:U:O2'	1:AA:1079:G:H1'	1.39	1.18
22:BB:597:U:C4'	33:BM:28:LYS:CE	2.21	1.18
1:CA:1320:C:H1'	19:CS:73:GLU:N	1.56	1.18
1:CA:1439:C:OP1	20:CT:34:LYS:HD3	1.43	1.18
22:DB:2470:U:C4	22:DB:2548:G:O2'	1.96	1.18
22:DB:2614:A:O2'	25:DE:47:VAL:CG1	1.90	1.18
22:DB:1673:C:C4'	25:DE:136:ARG:HG2	1.51	1.18
22:DB:227:G:P	33:DM:59:ARG:NH2	2.16	1.18
1:EA:1180:A:OP1	9:EI:103:THR:HA	1.40	1.18
3:EC:18:TRP:NE1	14:EN:53:LEU:N	1.73	1.18
22:FB:547:U:C2	31:FK:71:THR:CG2	2.25	1.18
23:FA:116:C:O2'	36:FP:50:THR:CA	1.89	1.18
22:HB:3176:A:H2	53:H7:162:GLN:NE2	1.41	1.18
22:HB:2861:A:H1'	48:H2:33:CYS:N	1.02	1.18
22:HB:2551:A:P	25:HE:144:ARG:HB3	1.83	1.18
25:HE:52:ALA:HB1	37:HQ:7:ILE:HD12	1.22	1.18
1:IA:1104:G:O2'	2:IB:111:ARG:NH1	1.76	1.18
22:JB:2323:U:C5'	49:J3:39:LYS:HD3	1.73	1.18
22:JB:2411:A:N1	47:J1:30:GLU:HA	1.57	1.18
22:JB:2826:C:H5'	35:JO:61:HIS:CE1	1.77	1.18
22:JB:643:A:H2	22:JB:2382:C:C1'	1.56	1.18
1:AA:761:G:H4'	17:AQ:102:GLY:O	1.42	1.18
22:BB:1675:C:P	25:BE:134:TRP:CE3	2.35	1.18
1:CA:1310:G:N7	13:CM:99:ARG:NH1	1.91	1.18
1:CA:435:C:O2'	4:CD:156:GLU:HG2	1.03	1.18
13:CM:88:ARG:N	13:CM:91:ARG:HG2	1.37	1.18
22:DB:2411:A:C2	47:D1:22:MET:CE	2.25	1.18
1:EA:246:A:OP2	17:EQ:100:LYS:CE	1.89	1.18
22:FB:88:G:N2	41:FU:65:VAL:HG21	1.58	1.18
1:GA:1202:G:N7	10:GJ:54:PHE:CZ	2.11	1.18
22:HB:1236:G:N7	39:HS:71:ILE:CD1	2.06	1.18
22:HB:2364:C:O2	44:HX:69:PHE:HE1	0.86	1.18
1:IA:1320:C:H1'	19:IS:73:GLU:N	1.11	1.18
22:JB:2262:C:OP1	49:J3:9:ILE:HD12	1.03	1.18
22:JB:3124:G:H5''	53:J7:61:ALA:C	1.63	1.18
26:JF:86:PRO:CG	38:JR:2:PRO:HB3	1.71	1.18

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:BA:59:A:C4'	27:BG:23:SER:HB2	1.72	1.18
22:BB:827:C:H5'	39:BS:84:THR:N	1.43	1.18
22:BB:497:C:C1'	40:BT:80:LEU:CD1	2.22	1.18
34:BN:106:GLU:CB	43:BW:113:VAL:HG22	1.69	1.18
22:DB:1861:G:N1	53:D7:199:ASN:CG	1.97	1.18
34:DN:99:LYS:HG2	43:DW:73:LYS:NZ	1.44	1.18
22:DB:1050:G:C4'	43:DW:37:LYS:NZ	2.04	1.18
1:EA:1081:G:H5'	5:EE:18:ARG:HG3	1.24	1.18
1:EA:279:A:C2	17:EQ:97:SER:O	1.96	1.18
1:EA:1103:C:O2	2:EB:111:ARG:HG3	1.01	1.18
22:FB:2798:A:P	25:FE:112:GLY:HA3	1.83	1.18
38:FR:46:GLU:HB2	39:FS:75:LYS:CG	1.72	1.18
10:GJ:64:GLU:C	14:GN:56:VAL:HG12	1.62	1.18
1:GA:1360:A:OP2	14:GN:21:TYR:HB3	1.43	1.18
22:HB:2357:A:H5''	36:HP:26:ARG:CZ	1.74	1.18
22:HB:3171:A:P	53:H7:131:ARG:NH2	2.17	1.18
1:IA:927:G:C5	1:IA:1531:A:O2'	1.96	1.18
3:IC:23:TYR:CD2	10:IJ:93:GLY:N	2.12	1.18
1:IA:1457:A:H4'	20:IT:24:LEU:O	1.41	1.18
22:BB:1400:A:C2	22:BB:1414:G:O6	1.96	1.18
22:BB:1583:A:C1'	24:BD:84:TYR:CE1	2.26	1.18
22:BB:1109:A:C3'	30:BJ:7:ILE:HD12	1.72	1.18
32:BL:91:PHE:O	37:BQ:79:ARG:NH1	1.73	1.18
1:CA:1345:U:H5''	9:CI:120:ARG:NH1	0.85	1.18
1:CA:827:U:C5'	8:CH:21:LYS:CD	1.89	1.18
22:DB:922:A:N6	34:DN:16:GLY:CA	2.04	1.18
22:FB:3178:C:O2'	53:F7:38:GLY:O	1.61	1.18
22:FB:1636:G:H1'	50:F4:1:MET:N	1.52	1.18
22:FB:2239:C:H3'	44:FX:14:ARG:CD	1.73	1.18
22:HB:2064:U:H5'	47:H1:33:VAL:CG1	1.73	1.18
22:HB:2273:C:OP2	36:HP:11:LEU:CG	1.91	1.18
22:JB:205:A:C4'	33:JM:144:GLU:HB2	1.74	1.18
22:JB:2074:U:C1'	47:J1:43:TRP:O	1.91	1.18
22:JB:63:A:C1'	41:JU:62:ARG:HB2	1.70	1.18
22:JB:58:C:OP2	41:JU:75:ARG:CZ	1.89	1.18
1:AA:409:G:OP2	4:AD:22:LYS:NZ	1.75	1.18
22:BB:1786:C:O2	24:BD:252:LYS:CE	1.92	1.18
22:BB:2265:A:N6	49:B3:38:LYS:CE	2.05	1.18
22:BB:2724:G:H21	28:BH:143:GLN:NE2	1.39	1.18
34:BN:106:GLU:CB	43:BW:113:VAL:CG1	2.22	1.18
22:BB:1050:G:H5'	43:BW:37:LYS:HE2	1.24	1.18

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:932:C:H3'	7:CG:3:ARG:CD	1.73	1.18
22:DB:2025:A:N6	31:DK:142:ARG:NH1	1.68	1.18
22:DB:2745:A:C2'	22:DB:2746:G:H5'	1.69	1.18
22:DB:476:G:OP1	50:D4:5:TYR:CZ	1.97	1.18
22:DB:567:G:O4'	31:DK:73:ASN:HA	1.41	1.18
22:DB:545:C:C2'	38:DR:53:LYS:HE3	1.72	1.18
1:EA:188:C:H42	20:ET:105:SER:CA	1.57	1.18
13:EM:89:GLY:HA2	13:EM:92:HIS:NE2	1.55	1.18
22:FB:1265:G:H1	38:FR:37:GLN:CB	1.48	1.18
22:FB:491:A:C5'	42:FV:55:THR:HG23	1.73	1.18
22:FB:24:G:C4'	40:FT:98:ASP:CB	2.21	1.18
22:FB:2311:U:OP1	44:FX:70:ILE:O	1.61	1.18
22:HB:2558:C:O2'	25:HE:132:LYS:HD3	1.00	1.18
22:HB:2788:C:O2	48:H2:30:LEU:CD2	1.90	1.18
22:HB:2857:C:OP1	35:HO:98:LEU:HD11	1.01	1.18
22:HB:2862:G:C2	48:H2:30:LEU:CB	2.12	1.18
23:JA:49:C:H5'	36:JP:94:TYR:CE1	1.74	1.18
22:JB:490:A:H5'	42:JV:3:ARG:CZ	1.74	1.18
1:AA:1220:G:N3	19:AS:54:GLY:CA	2.07	1.18
1:AA:738:C:OP1	6:AF:92:LYS:NZ	1.74	1.18
22:BB:122:G:H5''	22:BB:1390:G:OP1	1.42	1.18
22:BB:2334:C:O4'	44:BX:32:LYS:CD	1.92	1.18
22:BB:2725:C:H5'	28:BH:143:GLN:N	1.58	1.18
5:CE:141:GLN:HG2	8:CH:69:ARG:NH1	1.58	1.18
22:DB:1176:U:N3	22:DB:1198:C:O2	1.77	1.18
22:DB:2653:A:C1'	32:DL:41:ASN:OD1	1.92	1.18
22:DB:505:G:H5''	40:DT:25:PHE:CB	1.73	1.18
22:DB:6:A:O2'	31:DK:161:GLN:HA	1.44	1.18
1:EA:586:C:H5''	8:EH:91:ARG:N	1.26	1.18
22:FB:2284:U:H1'	27:FG:152:MET:N	1.59	1.18
1:GA:186:C:H5'	20:GT:78:ALA:CB	1.73	1.18
5:GE:78:HIS:HB2	8:GH:138:TRP:CZ3	1.78	1.18
1:GA:659:U:C4'	15:GO:5:LYS:HE3	1.74	1.18
1:GA:836:G:OP2	18:GR:61:LYS:HE3	1.19	1.18
22:HB:2490:U:O2	25:HE:139:GLY:CA	1.92	1.18
22:JB:1166:A:OP1	38:JR:55:ARG:NH1	1.72	1.18
22:JB:113:C:O2'	22:JB:124:A:O2'	1.59	1.18
22:JB:1827:G:O3'	22:JB:1828:C:P	2.01	1.18
22:JB:1204:G:H5''	33:JM:37:GLN:OE1	1.01	1.18
1:AA:1382:C:H5''	7:AG:79:ARG:HD2	1.18	1.18
1:AA:875:C:O2'	8:AH:11:THR:HG21	1.43	1.18

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:974:A:OP2	14:AN:32:SER:HB3	1.02	1.18
22:BB:675:C:OP1	33:BM:26:THR:CG2	1.91	1.18
1:CA:969:A:H4'	10:CJ:55:LYS:NZ	1.59	1.18
1:CA:1257:U:P	3:CC:27:LYS:NZ	2.16	1.18
1:CA:1308:U:P	13:CM:109:THR:HG21	1.83	1.18
22:DB:1581:C:C4	24:DD:28:ARG:NH2	2.11	1.18
22:DB:2470:U:C2	22:DB:2548:G:O3'	1.97	1.18
22:DB:2576:G:C5'	24:DD:239:ARG:NH2	2.05	1.18
22:DB:935:C:C4'	44:DX:26:PHE:HE2	1.57	1.18
1:EA:435:C:O2'	4:ED:156:GLU:HG2	1.28	1.18
22:FB:2254:C:H1'	34:FN:86:LYS:HE3	1.25	1.18
6:GF:49:ALA:HB2	18:GR:78:LEU:O	1.41	1.18
1:GA:1484:C:H4'	22:HB:1943:A:O2'	1.39	1.18
22:HB:2463:G:N2	34:HN:120:ARG:HD3	1.57	1.18
22:HB:2541:U:C4'	32:HL:23:ARG:HH11	1.57	1.18
22:HB:2747:C:C4'	31:HK:114:THR:OG1	1.89	1.18
22:JB:1269:G:OP1	26:JF:66:ASN:O	1.61	1.18
22:JB:1379:A:H5''	47:J1:1:MET:CE	1.72	1.18
22:JB:2464:G:C4'	34:JN:123:GLY:CA	2.19	1.18
22:JB:2636:A:OP2	28:JH:180:GLY:O	1.62	1.18
22:JB:348:U:H4'	42:JV:13:LYS:CG	1.72	1.18
1:AA:331:G:OP2	20:AT:10:LEU:HG	1.42	1.18
22:BB:147:G:OP1	47:B1:49:PHE:CZ	1.97	1.18
22:BB:930:A:C8	23:BA:83:C:H5'	1.79	1.18
22:BB:1169:C:H4'	46:BZ:27:LYS:NZ	1.59	1.18
22:BB:2725:C:H5''	28:BH:142:GLY:CA	1.73	1.18
22:DB:2495:G:P	31:DK:108:GLY:O	2.02	1.18
22:DB:1007:A:C4'	38:DR:93:LYS:N	2.01	1.18
1:EA:489:C:OP1	4:ED:132:ARG:CG	1.92	1.18
22:FB:547:U:H5'	31:FK:30:LYS:HG3	1.25	1.18
1:GA:36:C:C4'	12:GL:117:ARG:HD2	1.24	1.18
22:HB:2328:G:P	51:H5:41:ILE:CD1	2.32	1.18
22:HB:1041:G:H5''	34:HN:119:PHE:CE2	1.79	1.18
22:HB:8:A:C5'	31:HK:36:ASN:HD21	1.50	1.18
1:IA:401:C:O2'	1:IA:621:A:N3	1.74	1.18
22:JB:509:U:O4'	42:JV:54:ILE:CG2	1.74	1.18
22:BB:720:A:C6	22:BB:738:G:H1'	1.79	1.18
1:CA:1345:U:OP1	9:CI:120:ARG:NH2	1.75	1.18
22:DB:2063:A:O5'	47:D1:20:VAL:HG21	1.43	1.18
22:DB:1401:G:O6	22:DB:1413:U:O4	1.57	1.18
22:DB:1797:C:H1'	24:DD:49:ILE:CG2	1.74	1.18

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:DL:113:PRO:HG3	37:DQ:76:GLY:N	1.58	1.18
22:FB:3:U:O4	22:FB:2874:A:N6	1.75	1.18
22:FB:863:C:O2	46:FZ:39:ALA:O	1.60	1.18
1:GA:175:C:C4'	20:GT:25:ARG:CG	2.22	1.18
22:HB:1:G:C2	22:HB:2877:A:N6	2.11	1.18
22:HB:1019:U:O4'	38:HR:59:ARG:NH2	1.76	1.18
1:IA:128:G:H5'	17:IQ:61:GLU:CD	1.60	1.18
1:AA:273:A:C2	17:AQ:15:MET:HB3	1.78	1.17
22:BB:2760:G:N2	31:BK:150:VAL:CG1	2.07	1.17
13:CM:90:LEU:CD1	19:CS:76:PRO:HD2	1.74	1.17
22:DB:308:C:H5''	42:DV:93:ARG:CZ	1.73	1.17
22:DB:887:G:O4'	43:DW:167:THR:CA	1.75	1.17
1:EA:1264:C:C5'	1:IA:1273:G:N2	2.06	1.17
1:EA:391:G:C5'	16:EP:8:ARG:CZ	2.04	1.17
1:EA:17:U:O3'	5:EE:14:ARG:NH1	1.77	1.17
22:FB:2283:G:O2'	27:FG:153:ASP:CB	1.91	1.17
22:FB:24:G:O4'	40:FT:98:ASP:HB3	1.42	1.17
1:GA:331:G:C6	20:GT:9:ASN:O	1.97	1.17
1:GA:675:A:C2	11:GK:116:HIS:N	2.11	1.17
22:HB:124:A:N6	50:H4:45:SER:HB3	1.59	1.17
22:HB:2463:G:H21	34:HN:120:ARG:CG	1.57	1.17
32:HL:87:SER:OG	37:HQ:81:PHE:O	1.59	1.17
1:IA:932:C:H5'	7:IG:4:ARG:HG3	1.19	1.17
1:IA:451:A:C5'	16:IP:72:ARG:HH22	1.57	1.17
1:IA:835:U:OP1	18:IR:64:ARG:NE	1.75	1.17
22:JB:2577:A:O3'	24:JD:228:PRO:HG3	1.41	1.17
22:JB:2638:G:H5''	28:JH:178:ALA:N	1.57	1.17
7:AG:149:ARG:NE	11:AK:59:TYR:OH	1.78	1.17
22:BB:1143:A:H1'	31:BK:101:THR:OG1	1.45	1.17
22:BB:1817:U:C5'	24:BD:224:SER:H	1.46	1.17
22:BB:2599:U:O2'	25:BE:156:MET:O	1.59	1.17
1:CA:1374:A:N3	7:CG:29:LYS:HE3	1.59	1.17
22:DB:1164:C:OP1	38:DR:80:ILE:HG13	1.44	1.17
22:DB:1236:G:O6	39:DS:71:ILE:CG1	1.81	1.17
22:DB:795:A:N6	24:DD:222:ARG:NE	1.87	1.17
22:DB:2786:G:O4'	25:DE:59:VAL:HG13	1.40	1.17
1:EA:1117:G:O2'	9:EI:9:ARG:NH1	1.70	1.17
1:EA:1226:C:O3'	13:EM:111:LYS:NZ	1.73	1.17
1:EA:437:U:C5'	4:ED:155:LEU:CD1	2.22	1.17
1:EA:932:C:H5''	7:EG:3:ARG:HD3	1.25	1.17
1:EA:375:U:O3'	16:EP:6:LEU:HD22	1.45	1.17

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:FB:64:C:N4	41:FU:65:VAL:N	1.90	1.17
38:FR:44:THR:C	39:FS:76:SER:CA	2.01	1.17
22:FB:1008:G:C5'	38:FR:92:ARG:CG	2.00	1.17
1:GA:1349:A:H5''	9:GI:121:ARG:NH1	1.49	1.17
22:HB:1071:U:O4	30:HJ:130:THR:CA	1.91	1.17
22:HB:2448:A:C4'	34:HN:57:ARG:CD	2.19	1.17
22:JB:2603:G:H1'	48:J2:22:HIS:CD2	1.78	1.17
22:JB:1999:U:O4'	48:J2:3:LYS:HG2	1.40	1.17
22:JB:474:G:N2	50:J4:12:ARG:HE	1.42	1.17
22:JB:71:A:C6	45:JY:58:ALA:HB2	1.78	1.17
22:JB:2003:A:O2'	38:JR:25:TRP:CH2	1.86	1.17
23:JA:14:C:C5	44:JX:52:GLY:O	1.92	1.17
22:JB:979:A:H4'	46:JZ:13:PRO:HB3	1.26	1.17
22:BB:1142:G:N7	31:BK:104:THR:OG1	1.62	1.17
22:BB:6:A:O2'	31:BK:163:PRO:CD	1.90	1.17
22:BB:827:C:OP2	39:BS:83:ARG:HA	1.43	1.17
22:BB:1631:C:N3	40:BT:107:ILE:HG13	1.58	1.17
1:CA:1257:U:OP1	3:CC:27:LYS:NZ	1.77	1.17
1:CA:1344:C:O3'	9:CI:120:ARG:NE	1.77	1.17
22:DB:2623:A:HO3'	22:DB:2624:G:P	1.09	1.17
22:DB:2463:G:C2	34:DN:120:ARG:HD3	1.79	1.17
22:FB:2752:C:O4'	25:FE:166:THR:CG2	1.92	1.17
1:GA:274:A:C5'	17:GQ:14:LYS:CG	2.22	1.17
22:HB:2504:G:O2'	22:HB:2721:A:H2'	1.40	1.17
1:IA:1151:A:C4'	10:IJ:42:THR:CB	2.21	1.17
6:IF:2:ARG:CZ	15:IO:2:PRO:CG	2.15	1.17
22:JB:1829:C:H4'	22:JB:1910:A:C2'	1.61	1.17
22:JB:77:C:OP1	45:JY:7:ARG:HD3	1.42	1.17
22:BB:2862:G:O4'	48:B2:31:THR:HA	1.44	1.17
22:BB:1143:A:C4	31:BK:111:LYS:CE	2.27	1.17
1:CA:412:A:N3	4:CD:30:LYS:O	1.78	1.17
1:CA:620:C:H5''	4:CD:138:TYR:OH	1.42	1.17
13:CM:90:LEU:CD1	19:CS:76:PRO:CD	2.22	1.17
22:DB:176:A:H2'	47:D1:31:ILE:HG22	1.23	1.17
22:DB:1582:A:OP1	24:DD:24:LEU:CD1	1.92	1.17
22:DB:469:G:N7	50:D4:40:HIS:HD2	1.35	1.17
22:DB:2662:C:H2'	32:DL:82:LYS:NZ	1.59	1.17
1:GA:16:A:H5''	5:GE:15:ARG:CB	1.74	1.17
1:GA:1114:C:H5'	14:GN:57:ARG:NH2	1.59	1.17
22:HB:1805:G:C2	24:HD:51:SER:CB	2.21	1.17
22:HB:1727:C:H5'	22:HB:2833:C:O2	1.43	1.17

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:IA:1057:G:OP1	3:IC:163:ALA:CB	1.90	1.17
1:IA:1186:G:N2	14:IN:61:TRP:OXT	1.77	1.17
1:IA:835:U:C5'	18:IR:64:ARG:HH22	1.57	1.17
1:AA:1230:C:O2	13:AM:125:ARG:NH1	1.78	1.17
22:BB:115:G:O6	22:BB:117:A:N6	1.76	1.17
1:CA:815:A:N9	1:CA:1529:G:C6	2.12	1.17
1:CA:620:C:C4'	4:CD:138:TYR:CZ	2.20	1.17
13:CM:83:ASP:O	13:CM:93:ARG:NH1	1.76	1.17
22:DB:1043:A:OP1	52:D6:8:LYS:HA	1.01	1.17
22:DB:2708:U:C5'	25:DE:21:ILE:HD11	1.74	1.17
22:DB:1163:C:O4'	38:DR:78:THR:HA	1.01	1.17
1:GA:16:A:H5''	5:GE:15:ARG:HB3	1.20	1.17
1:GA:664:G:OP1	18:GR:64:ARG:HB3	1.45	1.17
22:HB:1487:C:N4	22:HB:1536:G:O6	1.78	1.17
22:HB:2826:C:C4'	35:HO:64:ARG:NH1	2.08	1.17
23:HA:48:A:H1'	36:HP:4:ALA:N	1.60	1.17
22:HB:1995:G:C5'	40:HT:118:LYS:H	1.56	1.17
22:HB:512:A:C1'	40:HT:12:LYS:O	1.92	1.17
1:IA:1117:G:C2	9:II:106:ALA:HB2	1.79	1.17
1:IA:686:U:O5'	11:IK:41:THR:HG22	1.43	1.17
1:AA:15:G:C6	5:AE:19:MET:HB2	1.79	1.17
22:BB:1036:G:H1'	22:BB:1145:C:H4'	1.21	1.17
22:BB:1143:A:C1'	31:BK:111:LYS:CE	2.21	1.17
22:BB:568:G:H2'	22:BB:569:C:C1'	1.73	1.17
22:BB:811:G:OP1	26:BF:54:THR:O	1.62	1.17
1:CA:1206:G:H4'	3:CC:193:TYR:C	1.65	1.17
1:CA:644:G:C8	8:CH:92:ARG:NE	2.10	1.17
1:CA:932:C:P	7:CG:3:ARG:HB3	1.83	1.17
1:CA:8:A:O4'	5:CE:103:GLY:HA2	1.45	1.17
22:DB:546:A:C4'	38:DR:57:PHE:HZ	1.42	1.17
22:DB:497:C:O2	40:DT:78:ASN:ND2	1.78	1.17
22:DB:887:G:O2'	43:DW:149:ALA:O	1.58	1.17
22:DB:935:C:C4'	44:DX:26:PHE:CE2	2.27	1.17
22:FB:15:G:C1'	48:F2:18:MET:HG3	1.61	1.17
22:FB:1411:C:C6	22:FB:1412:C:H5	1.36	1.17
22:FB:457:C:P	38:FR:3:ARG:HG2	1.83	1.17
22:FB:63:A:H2'	41:FU:70:GLY:C	1.30	1.17
22:HB:1041:G:C4	52:H6:6:SER:HB3	1.79	1.17
22:HB:2:G:N2	22:HB:2876:C:N3	1.91	1.17
22:HB:1338:G:C1'	40:HT:107:ILE:HG22	1.74	1.17
22:HB:511:A:H2'	40:HT:16:GLN:HG2	1.25	1.17

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:IA:16:A:O2'	5:IE:16:THR:CA	1.92	1.17
22:JB:2206:C:O4'	24:JD:262:LYS:NZ	1.78	1.17
1:AA:876:G:O2'	8:AH:4:ASP:OD2	1.59	1.17
22:BB:1042:G:H2'	52:B6:23:VAL:CG2	1.75	1.17
1:CA:254:G:C4	17:CQ:16:GLN:HB3	1.78	1.17
1:CA:953:G:N1	13:CM:120:LYS:CG	2.07	1.17
23:DA:44:C:C5'	27:DG:64:LYS:HE3	1.74	1.17
22:DB:413:G:O6	47:D1:63:PHE:CD1	1.93	1.17
22:DB:659:G:H21	51:D5:46:LYS:CE	1.55	1.17
27:DG:179:LYS:HE3	1:GA:1021:G:O2'	1.45	1.17
1:EA:1100:C:H2'	2:EB:98:LEU:HD22	1.19	1.17
22:FB:1005:U:C6	38:FR:51:ARG:NH1	2.11	1.17
22:FB:1290:A:H1'	35:FO:24:GLN:CA	1.74	1.17
1:GA:676:A:N3	11:GK:118:GLY:O	1.76	1.17
1:GA:739:C:O2	15:GO:46:HIS:CE1	1.98	1.17
22:HB:2861:A:C2	48:H2:40:LYS:CB	2.28	1.17
33:HM:63:ARG:HD3	51:H5:8:LYS:CD	1.73	1.17
1:IA:1151:A:C4'	10:IJ:42:THR:N	2.06	1.17
22:JB:1075:C:OP1	30:JJ:84:ILE:HD12	1.25	1.17
22:JB:2209:G:O3'	47:J1:39:VAL:CB	1.81	1.17
22:JB:2338:C:O2'	33:JM:57:ILE:HD13	1.02	1.17
22:JB:2553:G:N1	25:JE:140:SER:OG	1.75	1.17
22:JB:3119:A:N6	53:J7:101:LYS:NZ	1.90	1.17
22:JB:529:U:OP1	40:JT:39:ARG:CG	1.93	1.17
22:BB:1441:A:O4'	22:BB:1587:A:N6	1.77	1.17
22:BB:1148:G:OP1	31:BK:132:PHE:HE2	1.02	1.17
1:CA:814:A:H2	1:CA:1526:G:O2'	1.23	1.17
3:CC:132:ARG:HH22	4:CD:47:ARG:NH1	1.38	1.17
22:DB:1670:G:C6	35:DO:11:ASN:HA	1.78	1.17
22:DB:524:A:OP1	38:DR:30:LYS:HD3	1.43	1.17
1:EA:583:A:H4'	17:EQ:90:ILE:CG2	1.66	1.17
1:GA:875:C:O2'	8:GH:11:THR:CG2	1.91	1.17
22:HB:1998:A:N6	48:H2:7:PRO:HG3	1.57	1.17
22:HB:544:U:P	38:HR:22:LYS:HD3	1.85	1.17
22:HB:70:A:N6	41:HU:31:PRO:HD2	1.57	1.17
22:HB:69:G:O3'	22:HB:70:A:P	2.03	1.17
22:HB:1795:C:O3'	24:HD:250:TRP:HH2	1.27	1.17
22:HB:1071:U:O4	30:HJ:130:THR:HA	1.00	1.17
22:HB:2365:U:H5''	44:HX:39:ARG:NH1	1.59	1.17
22:JB:23:G:H1'	40:JT:96:TYR:OH	1.02	1.17
22:JB:2636:A:OP2	28:JH:180:GLY:C	1.83	1.17

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:JW:48:THR:CG2	43:JW:130:ILE:CD1	2.22	1.17
1:AA:1392:G:C4'	1:AA:1531:A:H5''	1.73	1.17
1:AA:928:G:H4'	1:AA:1533:C:N4	1.59	1.17
22:BB:648:A:N6	33:BM:78:SER:HB2	1.60	1.17
1:CA:742:G:C5'	15:CO:58:MET:SD	2.30	1.17
1:CA:815:A:C4	1:CA:1529:G:C2	2.31	1.17
1:CA:995:C:N4	14:CN:4:LYS:HD3	1.59	1.17
1:CA:1228:C:C4'	13:CM:118:ALA:C	2.07	1.17
22:DB:1887:G:C2	22:DB:1888:C:H1'	1.78	1.17
22:DB:1672:A:O2'	25:DE:115:GLY:N	1.74	1.17
22:DB:886:A:C2	43:DW:166:LEU:CA	2.22	1.17
1:EA:632:A:O2'	17:EQ:30:PRO:CA	1.93	1.17
22:FB:1240:G:C5'	38:FR:16:LYS:HD2	1.74	1.17
1:GA:195:A:OP1	20:GT:65:LYS:HE2	1.44	1.17
1:GA:755:G:OP1	15:GO:65:ARG:NH2	1.78	1.17
1:IA:392:G:OP1	16:IP:12:LYS:HA	1.43	1.17
1:IA:600:C:OP2	8:IH:97:VAL:HG11	1.44	1.17
1:IA:589:C:H5''	8:IH:31:PHE:N	1.59	1.17
1:IA:1186:G:O2'	9:II:113:LYS:CE	1.91	1.17
1:IA:1320:C:C1'	19:IS:73:GLU:CB	2.06	1.17
22:JB:2399:C:C3'	51:J5:32:GLN:CB	2.23	1.17
1:AA:1349:A:OP1	9:AI:120:ARG:CA	1.92	1.17
22:BB:2766:U:C5'	25:BE:64:GLN:CB	2.00	1.17
1:CA:421:U:P	3:CC:127:ARG:NH2	2.17	1.17
23:DA:92:G:N2	34:DN:22:ALA:H	1.39	1.17
25:DE:19:ARG:HD2	37:DQ:65:SER:CA	1.71	1.17
38:DR:42:ALA:O	39:DS:75:LYS:HD2	1.44	1.17
22:DB:503:G:H5'	40:DT:30:TYR:CE2	1.77	1.17
1:EA:583:A:H4'	17:EQ:90:ILE:CB	1.73	1.17
1:EA:973:G:C4'	10:EJ:54:PHE:CZ	2.27	1.17
7:EG:149:ARG:CD	11:EK:59:TYR:OH	1.93	1.17
22:FB:1636:G:H4'	50:F4:1:MET:HG3	1.25	1.17
22:FB:1399:C:C2	22:FB:1414:G:N2	2.11	1.17
22:FB:3093:C:H5''	29:FI:21:LYS:C	1.64	1.17
1:GA:111:G:C5'	16:GP:27:LYS:HG2	1.74	1.17
22:HB:2063:A:O3'	47:H1:33:VAL:HG13	1.02	1.17
22:HB:3866:A:N6	53:H7:44:GLY:O	1.75	1.17
1:GA:1483:A:N1	22:HB:1942:G:O2'	1.75	1.17
13:GM:93:ARG:NH1	22:HB:900:U:H3'	1.60	1.17
1:IA:1393:U:C2'	1:IA:1394:A:P	2.32	1.17
1:IA:237:C:H5''	17:IQ:27:PHE:CZ	1.78	1.17

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:JB:1088:A:H5''	30:JJ:92:ASN:CG	1.63	1.17
22:JB:2850:U:C4	37:JQ:14:ARG:NH2	2.13	1.17
22:BB:1954:A:N7	24:BD:239:ARG:HA	1.59	1.16
22:BB:2464:G:O2'	34:BN:123:GLY:HA2	1.45	1.16
1:CA:279:A:C6	17:CQ:95:TYR:O	1.96	1.16
3:CC:23:TYR:CE2	10:CJ:9:ARG:CG	2.14	1.16
1:CA:559:A:H61	5:CE:126:ARG:CD	1.57	1.16
22:DB:2003:A:N7	48:D2:9:LYS:CE	2.06	1.16
22:DB:3093:C:C5'	29:DI:21:LYS:CA	2.15	1.16
22:DB:642:A:H1'	33:DM:64:GLY:HA3	1.23	1.16
22:DB:2464:G:C1'	34:DN:120:ARG:HH12	1.56	1.16
34:DN:29:ALA:C	43:DW:119:ASN:OD1	1.81	1.16
34:DN:29:ALA:O	43:DW:119:ASN:ND2	1.77	1.16
1:EA:377:G:C5'	16:EP:5:ARG:NH1	2.07	1.16
1:EA:1226:C:OP2	13:EM:91:ARG:CZ	1.92	1.16
22:FB:1240:G:OP1	38:FR:16:LYS:CB	1.93	1.16
22:FB:606:A:C2	33:FM:22:GLY:O	1.98	1.16
22:HB:760:U:H5	48:H2:3:LYS:CE	1.53	1.16
22:HB:514:G:N1	40:HT:14:ARG:CG	2.07	1.16
22:HB:71:A:C4'	45:HY:54:ASN:CB	2.20	1.16
1:IA:453:A:OP1	16:IP:73:LEU:CD2	1.91	1.16
1:IA:877:C:O3'	8:IH:88:LYS:CG	1.93	1.16
1:IA:452:A:O2'	16:IP:72:ARG:HG2	1.40	1.16
22:JB:3124:G:C5'	53:J7:62:LYS:CG	2.11	1.16
22:JB:1629:G:H4'	50:J4:3:ARG:HD2	1.25	1.16
22:JB:684:C:H5	33:JM:45:LYS:CB	1.56	1.16
22:DB:1237:G:C5'	39:DS:87:ARG:HB3	1.73	1.16
22:DB:1325:U:C2	41:DU:61:LYS:CE	2.25	1.16
22:DB:24:G:H4'	40:DT:98:ASP:HB3	1.27	1.16
22:DB:1007:A:C3'	38:DR:93:LYS:H	1.58	1.16
22:FB:2498:U:H5'	22:FB:2546:G:N2	1.60	1.16
22:FB:2773:G:C5	22:FB:2780:A:C2	2.34	1.16
22:FB:606:A:H2	33:FM:22:GLY:O	1.24	1.16
22:FB:2614:A:H4'	25:FE:78:LEU:N	1.58	1.16
43:FW:65:LEU:CD2	43:FW:128:ARG:NH1	2.07	1.16
1:GA:186:C:H1'	20:GT:81:LYS:CD	1.75	1.16
1:GA:222:U:O2'	20:GT:68:LYS:CD	1.93	1.16
22:HB:2062:U:O3'	47:H1:32:HIS:CD2	1.98	1.16
22:HB:2337:A:H2'	51:H5:52:LYS:HZ3	1.11	1.16
22:HB:494:A:H1'	42:HV:56:LYS:CB	1.65	1.16
22:HB:2365:U:O4'	44:HX:37:LEU:HD11	1.44	1.16

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:IA:954:G:O2'	13:IM:120:LYS:HE2	1.43	1.16
22:JB:1628:C:H4'	50:J4:6:GLN:CA	1.70	1.16
22:JB:2003:A:N7	48:J2:9:LYS:HE2	1.56	1.16
1:AA:958:A:N3	19:AS:56:GLN:NE2	1.91	1.16
22:BB:3866:A:H3'	53:B7:43:LYS:HA	1.17	1.16
22:BB:1374:G:OP1	47:B1:52:THR:HG22	1.02	1.16
22:BB:1461:C:O2'	22:BB:1561:A:H4'	1.42	1.16
22:BB:2767:C:C1'	25:BE:61:LYS:NZ	2.06	1.16
22:BB:511:A:H2	40:BT:12:LYS:C	1.46	1.16
22:BB:742:G:H5''	24:BD:18:THR:OG1	1.45	1.16
1:CA:277:C:OP1	17:CQ:43:LEU:CD2	1.92	1.16
1:CA:619:U:C5	4:CD:133:VAL:HG13	1.79	1.16
22:DB:1018:C:C1'	31:DK:134:MET:HG3	1.75	1.16
22:DB:2760:G:C4'	31:DK:149:LYS:CE	2.16	1.16
1:EA:632:A:O2'	17:EQ:30:PRO:HA	1.03	1.16
1:EA:668:G:C1'	15:EO:46:HIS:CD2	2.28	1.16
22:FB:3176:A:O2'	53:F7:33:ILE:HG21	1.45	1.16
22:FB:2600:A:C1'	25:FE:158:GLY:CA	2.23	1.16
22:HB:1861:G:N9	53:H7:199:ASN:CB	2.07	1.16
22:HB:742:G:H5''	24:HD:18:THR:HG21	1.24	1.16
22:HB:648:A:C5'	33:HM:131:LYS:NZ	2.07	1.16
22:HB:1261:G:C8	38:HR:2:PRO:CB	2.06	1.16
22:JB:2208:U:N3	47:J1:42:PHE:CE1	2.13	1.16
22:JB:684:C:C5	33:JM:45:LYS:HB3	1.79	1.16
1:AA:16:A:O3'	5:AE:16:THR:N	1.78	1.16
22:BB:1142:G:C8	31:BK:106:TYR:O	1.98	1.16
22:BB:1143:A:C4	31:BK:111:LYS:HE3	1.81	1.16
22:BB:2334:C:C5'	44:BX:21:LEU:HG	1.76	1.16
1:CA:136:C:O2'	16:CP:63:GLY:HA2	1.41	1.16
3:CC:132:ARG:HH12	4:CD:47:ARG:NH1	1.41	1.16
22:DB:225:G:C3'	47:D1:28:ARG:HG2	1.74	1.16
1:EA:588:G:C8	8:EH:2:LEU:HD12	1.81	1.16
22:FB:2326:C:O4'	49:F3:40:TYR:OH	1.61	1.16
1:GA:1081:G:N7	5:GE:47:LYS:NZ	1.92	1.16
22:HB:2310:G:HO2'	44:HX:70:ILE:CG2	1.54	1.16
22:HB:568:G:N1	38:HR:45:TYR:OH	1.78	1.16
1:IA:363:A:N1	12:IL:30:ALA:CA	2.07	1.16
1:IA:1206:G:C5'	3:IC:192:THR:O	1.92	1.16
1:IA:657:G:O2'	15:IO:23:GLY:HA2	1.43	1.16
22:JB:2043:A:C8	26:JF:62:LYS:HE2	1.80	1.16
22:JB:2240:C:H4'	22:JB:2366:U:C2'	1.75	1.16

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:JB:2559:U:P	25:JE:132:LYS:NZ	2.19	1.16
22:JB:93:A:C6	45:JY:41:HIS:NE2	2.11	1.16
22:JB:2491:C:C2	25:JE:140:SER:HB3	1.80	1.16
1:AA:331:G:N2	20:AT:8:ARG:N	1.93	1.16
22:BB:3867:G:O4'	53:B7:42:LYS:HB2	1.00	1.16
22:BB:659:G:H21	51:B5:46:LYS:CE	1.58	1.16
1:CA:720:C:H5'	18:CR:52:PRO:HG3	1.21	1.16
22:DB:2618:A:H4'	31:DK:125:ARG:HH12	1.05	1.16
22:DB:2615:U:C1'	25:DE:79:ARG:NE	2.08	1.16
34:DN:38:MET:N	43:DW:74:ARG:HG3	1.53	1.16
1:EA:538:G:C3'	12:EL:114:LYS:HB2	1.74	1.16
22:FB:2661:G:C4	25:FE:11:MET:HA	1.81	1.16
23:FA:117:G:H1'	36:FP:41:GLN:CG	1.62	1.16
22:HB:1998:A:N6	48:H2:7:PRO:CG	2.07	1.16
22:HB:2760:G:C2'	31:HK:149:LYS:HD2	1.76	1.16
41:HU:4:TYR:CZ	45:HY:18:ILE:CG2	2.20	1.16
1:IA:767:A:N1	1:IA:1512:U:H1'	1.61	1.16
1:IA:781:A:O2'	1:IA:1514:C:O2	1.59	1.16
22:JB:1583:A:C5	24:JD:84:TYR:HD1	1.60	1.16
1:AA:275:G:H1'	17:AQ:15:MET:HE1	1.26	1.16
22:BB:1378:A:H5''	47:B1:40:HIS:CE1	1.80	1.16
22:BB:1810:U:OP1	24:BD:157:ARG:CG	1.94	1.16
23:BA:106:U:C2'	43:BW:88:TYR:CD1	2.28	1.16
1:CA:1266:G:OP2	1:GA:1273:G:H4'	1.46	1.16
22:DB:2578:G:N7	24:DD:237:GLU:N	1.89	1.16
22:DB:2615:U:C4'	25:DE:79:ARG:HG3	1.72	1.16
22:DB:475:U:C4'	50:D4:5:TYR:HB2	1.76	1.16
22:DB:2760:G:H4'	31:DK:149:LYS:HD3	1.19	1.16
22:DB:869:C:H4'	44:DX:56:ASP:CG	1.63	1.16
1:EA:1263:C:H1'	1:IA:1263:C:O3'	1.40	1.16
6:EF:50:TYR:CD1	18:ER:80:PRO:HA	1.81	1.16
22:FB:1516:A:C1'	24:FD:98:ALA:CB	2.23	1.16
22:FB:3877:A:N6	22:FB:1862:C:N3	1.92	1.16
1:GA:192:U:H5'	20:GT:56:MET:HE2	1.24	1.16
1:GA:921:U:C2	5:GE:19:MET:HB3	1.81	1.16
22:HB:1376:C:H5''	47:H1:55:ARG:NH2	0.83	1.16
22:HB:2310:G:H5'	44:HX:71:ASN:HA	1.17	1.16
1:IA:647:C:H5''	17:IQ:83:ASP:OD1	1.41	1.16
1:IA:589:C:C5'	8:IH:31:PHE:N	2.07	1.16
1:IA:1187:G:N9	9:II:113:LYS:HE3	1.59	1.16
1:IA:453:A:OP1	16:IP:73:LEU:HD21	1.00	1.16

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:JB:543:G:C3'	38:JR:22:LYS:NZ	2.08	1.16
22:BB:127:C:O4'	22:BB:1360:G:N2	1.79	1.16
23:BA:59:A:H4'	27:BG:23:SER:HB2	1.26	1.16
1:CA:519:C:C5'	12:CL:51:ALA:HA	1.74	1.16
22:DB:176:A:O2'	47:D1:31:ILE:CG2	1.92	1.16
22:DB:221:A:OP2	51:D5:7:HIS:CE1	1.99	1.16
22:DB:2653:A:C4'	32:DL:42:LYS:HG2	1.74	1.16
22:DB:2237:C:OP1	44:DX:10:SER:O	1.62	1.16
22:FB:409:G:H4'	47:F1:39:VAL:CG1	1.76	1.16
22:FB:643:A:H2	22:FB:2382:C:C1'	1.57	1.16
1:GA:175:C:H4'	20:GT:25:ARG:CG	1.76	1.16
1:GA:828:A:OP1	8:GH:21:LYS:HE3	1.00	1.16
1:GA:1061:G:C1'	10:GJ:56:HIS:CE1	2.28	1.16
22:HB:2002:A:O2'	38:HR:34:ASN:OD1	1.64	1.16
22:HB:2861:A:C2	48:H2:31:THR:HB	1.80	1.16
22:HB:1805:G:O2'	24:HD:44:ASN:O	1.62	1.16
1:IA:258:G:OP2	20:IT:87:LYS:CG	1.93	1.16
1:IA:864:A:C4'	1:IA:1078:U:O2	1.94	1.16
1:IA:1057:G:O3'	3:IC:154:SER:HB2	0.98	1.16
22:JB:2722:C:C6	52:J6:35:ARG:NH1	2.14	1.16
22:JB:2708:U:OP1	32:JL:82:LYS:CG	1.93	1.16
22:JB:2786:G:C4'	25:JE:61:LYS:HD2	1.75	1.16
22:JB:3093:C:H5'	29:JI:24:TYR:CD2	1.61	1.16
1:AA:108:G:H2'	20:AT:12:ALA:HB1	1.22	1.16
1:AA:426:G:O3'	4:AD:41:GLY:HA2	1.46	1.16
1:AA:429:U:OP1	4:AD:9:CYS:O	1.61	1.16
12:AL:10:LEU:CD1	17:AQ:32:TYR:CE2	2.27	1.16
22:BB:1790:G:P	24:BD:258:LYS:HG3	1.86	1.16
22:BB:2671:C:O2'	22:BB:2822:U:O2'	1.62	1.16
1:CA:349:A:H1'	20:CT:8:ARG:NH1	1.61	1.16
1:CA:1374:A:C2	7:CG:29:LYS:NZ	2.13	1.16
22:DB:2039:G:C2'	48:D2:5:PRO:CD	2.22	1.16
22:DB:865:A:N3	46:DZ:39:ALA:CB	2.08	1.16
22:FB:2464:G:H4'	34:FN:123:GLY:N	1.61	1.16
22:FB:24:G:O4'	40:FT:98:ASP:CB	1.93	1.16
1:GA:502:G:OP1	12:GL:116:SER:HA	1.01	1.16
22:HB:2857:C:OP1	35:HO:98:LEU:CG	1.93	1.16
1:IA:815:A:H2'	1:IA:1526:G:N2	1.53	1.16
22:JB:797:A:N7	24:JD:229:VAL:HG23	1.58	1.16
22:JB:2570:C:C5	24:JD:237:GLU:CB	2.26	1.16
22:JB:592:G:N2	26:JF:78:VAL:HB	1.60	1.16

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:JB:760:U:C6	40:JT:111:ARG:HB2	1.79	1.16
22:JB:348:U:C5'	42:JV:13:LYS:HD3	1.76	1.16
1:AA:1348:U:OP1	9:AI:110:GLU:HB2	1.46	1.16
1:AA:1382:C:C4'	7:AG:79:ARG:HG3	1.76	1.16
22:BB:1043:A:H2'	52:B6:16:VAL:CB	1.76	1.16
34:BN:29:ALA:HB3	43:BW:119:ASN:OD1	1.40	1.16
3:CC:23:TYR:CZ	10:CJ:9:ARG:HB2	1.81	1.16
22:DB:2003:A:C6	48:D2:9:LYS:HE2	1.81	1.16
22:DB:1289:A:C2	35:DO:23:ALA:HB1	1.79	1.16
22:DB:2713:A:N6	25:DE:203:LYS:HZ3	1.27	1.16
22:FB:528:G:OP1	40:FT:36:ARG:HA	1.45	1.16
22:HB:2329:C:OP2	51:H5:42:ARG:HD3	1.42	1.16
22:HB:761:G:C2'	40:HT:111:ARG:N	2.05	1.16
22:HB:2463:G:H1'	34:HN:121:LEU:HD12	1.19	1.16
1:IA:1297:C:C1'	7:IG:114:ARG:HH12	1.54	1.16
1:IA:637:G:O5'	17:IQ:2:PRO:HD3	1.44	1.16
1:IA:1320:C:O4'	19:IS:73:GLU:HB3	1.46	1.16
22:JB:2463:G:C5'	34:JN:47:GLN:HG2	1.75	1.16
22:JB:1812:U:H3'	24:JD:159:ALA:CB	1.76	1.16
22:JB:2707:G:C4'	32:JL:82:LYS:CE	2.24	1.16
22:BB:2203:G:O3'	22:BB:2204:A:P	2.02	1.16
22:BB:742:G:OP1	24:BD:18:THR:OG1	1.59	1.16
32:BL:90:ARG:C	37:BQ:79:ARG:HH11	1.49	1.16
1:CA:985:C:O2'	19:CS:55:LYS:HE3	1.18	1.16
22:DB:568:G:O3'	22:DB:569:C:P	2.03	1.16
1:EA:1123:A:O4'	10:EJ:37:PRO:O	1.61	1.16
22:FB:1666:G:N2	35:FO:106:ASP:HB3	1.49	1.16
22:FB:1674:C:P	25:FE:134:TRP:HB3	1.86	1.16
22:FB:64:C:N4	41:FU:65:VAL:HG23	1.61	1.16
22:HB:552:C:H2'	22:HB:553:C:H4'	1.24	1.16
13:GM:6:GLY:CA	27:HG:110:ARG:HH21	1.59	1.16
1:IA:1187:G:N9	9:II:113:LYS:CE	2.07	1.16
1:IA:815:A:C5	1:IA:1508:G:N2	2.14	1.16
1:IA:1187:G:O4'	9:II:113:LYS:HE2	1.41	1.16
22:JB:1217:U:C2	33:JM:14:LYS:CE	2.29	1.16
1:AA:275:G:O5'	17:AQ:14:LYS:CB	1.91	1.15
22:BB:1136:G:C5	52:B6:4:ARG:O	1.99	1.15
22:BB:1804:U:C1'	24:BD:46:ARG:CG	2.20	1.15
22:BB:1072:U:O4	30:BJ:54:PRO:HB2	1.01	1.15
22:BB:1143:A:N1	31:BK:103:TYR:HD2	1.44	1.15
32:BL:89:ILE:CA	37:BQ:81:PHE:HB3	1.69	1.15

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:668:G:H4'	15:CO:48:LYS:N	1.38	1.15
22:FB:2701:A:C8	22:FB:2848:A:N7	2.14	1.15
22:FB:1666:G:N2	35:FO:106:ASP:HB2	1.41	1.15
22:FB:2311:U:C5'	44:FX:70:ILE:HG22	1.74	1.15
1:GA:815:A:C2	1:GA:1527:C:O2	1.99	1.15
1:GA:265:G:C2	17:GQ:70:ARG:NH2	2.12	1.15
1:GA:1060:C:OP1	10:GJ:51:ARG:HB2	1.42	1.15
22:HB:1043:A:H4'	52:H6:23:VAL:HG23	1.28	1.15
1:IA:1148:U:H5''	9:II:14:VAL:CB	1.77	1.15
22:JB:1336:G:H5'	40:JT:105:ARG:CD	1.74	1.15
22:JB:1811:A:OP1	24:JD:155:LEU:CB	1.93	1.15
22:JB:3167:U:C5'	53:J7:97:LYS:HZ3	1.58	1.15
22:JB:552:C:H2'	22:JB:553:C:H4'	1.23	1.15
22:JB:1820:G:C6	24:JD:221:GLN:CG	2.29	1.15
22:BB:1127:C:O3'	22:BB:1128:G:P	2.03	1.15
22:BB:2372:A:H1'	33:BM:59:ARG:HB3	1.21	1.15
22:BB:801:A:O2'	50:B4:4:THR:OG1	1.64	1.15
22:BB:2814:G:C5'	35:BO:46:PRO:HA	1.76	1.15
22:DB:1291:G:OP1	35:DO:35:GLN:O	1.64	1.15
22:DB:2373:C:H5'	33:DM:59:ARG:NH1	1.60	1.15
22:DB:1992:G:C5'	40:DT:62:ARG:CB	2.25	1.15
22:HB:60:A:OP2	45:HY:44:ARG:CG	1.74	1.15
22:HB:1265:G:OP1	38:HR:14:HIS:CE1	1.99	1.15
1:IA:826:C:O2'	8:IH:15:ASN:HB2	1.45	1.15
22:JB:3168:G:N1	53:J7:101:LYS:CG	1.96	1.15
1:AA:985:C:H4'	19:AS:55:LYS:NZ	1.61	1.15
22:BB:2725:C:C5'	28:BH:142:GLY:CA	2.24	1.15
22:DB:1402:G:C6	22:DB:1412:C:C4	2.32	1.15
34:DN:66:TYR:HB2	43:DW:117:VAL:C	1.49	1.15
1:GA:1398:A:C5	5:GE:22:GLY:CA	2.29	1.15
1:GA:975:A:C2'	14:GN:31:ARG:O	1.94	1.15
10:GJ:65:LEU:CA	14:GN:56:VAL:HA	1.76	1.15
1:GA:720:C:C1'	18:GR:50:ILE:HB	1.75	1.15
22:HB:2594:U:H3	48:H2:9:LYS:CE	1.58	1.15
22:HB:505:G:O4'	40:HT:78:ASN:HB3	1.44	1.15
22:HB:2656:G:OP2	25:HE:121:ASN:ND2	1.79	1.15
22:HB:2670:C:P	35:HO:17:ARG:NH2	2.18	1.15
1:IA:483:C:O2	16:IP:13:HIS:NE2	1.79	1.15
1:IA:668:G:C1'	15:IO:46:HIS:HD2	1.28	1.15
22:JB:1468:A:H61	35:JO:80:MET:CG	1.57	1.15
22:JB:1747:G:C5	37:JQ:126:LYS:HA	1.80	1.15

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:JB:2399:C:H3'	51:J5:32:GLN:CB	1.75	1.15
22:JB:494:A:O3'	42:JV:59:LYS:HD2	1.38	1.15
1:AA:529:G:C6	12:AL:48:PRO:HD3	1.72	1.15
22:BB:2329:C:P	51:B5:42:ARG:HD3	1.86	1.15
23:BA:106:U:O2'	43:BW:88:TYR:CB	1.95	1.15
22:BB:1488:G:N1	22:BB:1535:C:C4	2.13	1.15
13:CM:86:CYS:HB2	13:CM:92:HIS:CD2	1.52	1.15
22:DB:1453:A:OP2	22:DB:1454:U:O4	1.64	1.15
22:DB:3197:U:H3'	22:DB:2181:A:P	1.86	1.15
22:FB:2239:C:H41	44:FX:12:ASN:HB2	0.98	1.15
22:FB:1583:A:C1'	24:FD:84:TYR:HE1	1.59	1.15
22:FB:2239:C:C3'	44:FX:14:ARG:NE	2.09	1.15
1:GA:750:G:O4'	15:GO:22:THR:OG1	1.64	1.15
1:GA:778:G:C2	11:GK:120:ARG:CD	2.28	1.15
1:GA:663:A:OP1	18:GR:65:ILE:CD1	1.94	1.15
22:HB:1:G:N2	22:HB:2877:A:N6	1.92	1.15
1:IA:684:A:N3	11:IK:39:PRO:HG3	1.56	1.15
22:JB:2558:C:H4'	25:JE:132:LYS:CG	1.75	1.15
22:JB:309:G:OP2	42:JV:93:ARG:CD	1.94	1.15
22:JB:910:U:N3	22:JB:911:A:H5'	0.83	1.15
22:JB:1811:A:OP1	24:JD:155:LEU:HB3	1.00	1.15
22:JB:1820:G:C2	24:JD:221:GLN:HG2	1.82	1.15
22:JB:1996:A:C4'	40:JT:116:ILE:O	1.94	1.15
5:AE:148:VAL:CB	8:AH:107:LEU:CB	2.07	1.15
22:BB:828:C:H5'	39:BS:86:HIS:NE2	1.61	1.15
25:BE:181:LEU:HD22	37:BQ:12:LEU:CD2	1.76	1.15
22:BB:2008:C:H1'	31:BK:103:TYR:CD2	1.81	1.15
34:BN:66:TYR:CE1	43:BW:115:ILE:HB	1.81	1.15
1:CA:620:C:O3'	4:CD:138:TYR:CE1	2.00	1.15
23:DA:107:C:C5'	43:DW:88:TYR:C	2.14	1.15
22:DB:1804:U:C2	24:DD:46:ARG:HB3	1.79	1.15
22:DB:2551:A:N7	25:DE:144:ARG:HB3	1.60	1.15
22:DB:2753:C:C4'	25:DE:164:ARG:H	1.37	1.15
22:DB:648:A:C2	33:DM:109:LEU:HG	1.80	1.15
22:DB:922:A:N6	34:DN:17:ARG:N	1.94	1.15
22:DB:1234:C:C3'	39:DS:68:LYS:HD2	1.76	1.15
34:DN:99:LYS:HG3	43:DW:73:LYS:HZ2	1.10	1.15
22:FB:687:G:H5''	26:FF:70:GLY:O	1.46	1.15
1:GA:37:U:OP1	12:GL:125:PRO:CD	1.80	1.15
22:HB:2398:U:H5''	51:H5:34:THR:N	1.62	1.15
1:IA:1392:G:N2	1:IA:1502:A:H5'	1.61	1.15

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:JB:348:U:O2	42:JV:11:ASN:CG	1.85	1.15
22:JB:205:A:H4'	33:JM:144:GLU:HB2	1.19	1.15
22:JB:2692:A:O2'	35:JO:14:SER:CB	1.94	1.15
1:AA:619:U:O2'	4:AD:129:ASN:ND2	1.78	1.15
1:AA:1215:G:H5''	14:AN:3:ARG:HH22	1.11	1.15
10:AJ:65:LEU:HB2	14:AN:56:VAL:CB	1.75	1.15
22:BB:332:C:H4'	26:BF:159:ARG:O	1.45	1.15
32:BL:89:ILE:HA	37:BQ:81:PHE:CB	1.76	1.15
22:BB:827:C:H5''	39:BS:84:THR:N	1.41	1.15
23:BA:106:U:O3'	43:BW:88:TYR:HB3	1.45	1.15
1:CA:588:G:H5'	8:CH:2:LEU:CB	1.71	1.15
23:DA:92:G:N2	34:DN:22:ALA:N	1.92	1.15
22:DB:2704:U:O3'	22:DB:2705:A:P	2.04	1.15
22:DB:917:U:H5'	43:DW:122:ILE:CA	1.77	1.15
1:EA:639:G:C2'	8:EH:116:LYS:NZ	2.10	1.15
1:EA:1188:A:H5'	9:EI:114:TYR:CD2	1.63	1.15
10:GJ:50:ILE:O	14:GN:45:ARG:HD3	1.44	1.15
22:HB:1338:G:C4	40:HT:107:ILE:HG22	1.71	1.15
22:HB:2365:U:O2'	44:HX:37:LEU:HD13	1.44	1.15
22:HB:857:U:O2	22:HB:946:U:C2	1.97	1.15
22:HB:1040:A:O2'	34:HN:123:GLY:O	1.63	1.15
22:HB:494:A:N9	42:HV:56:LYS:CG	2.06	1.15
1:IA:877:C:O3'	8:IH:88:LYS:HG2	1.46	1.15
1:IA:1117:G:C2	9:II:106:ALA:CB	2.30	1.15
22:JB:3124:G:O5'	53:J7:62:LYS:CD	1.82	1.15
22:JB:3171:A:C8	53:J7:101:LYS:CD	2.29	1.15
22:JB:527:C:OP2	48:J2:12:SER:OG	1.61	1.15
22:JB:76:C:OP1	45:JY:7:ARG:NH1	1.79	1.15
13:AM:99:ARG:HE	19:AS:2:PRO:CB	1.58	1.15
22:DB:309:G:OP1	42:DV:93:ARG:HB3	1.44	1.15
22:DB:565:A:C2'	31:DK:74:MET:SD	2.34	1.15
38:DR:47:TYR:CD1	39:DS:74:TYR:CG	2.32	1.15
22:DB:1325:U:C5	41:DU:61:LYS:CE	2.08	1.15
1:EA:1226:C:OP2	13:EM:91:ARG:NH1	1.78	1.15
1:EA:633:G:H4'	17:EQ:28:PRO:CG	1.76	1.15
22:FB:643:A:H2	22:FB:2382:C:H1'	1.04	1.15
22:FB:2578:G:O6	24:FD:237:GLU:HG2	1.46	1.15
10:GJ:65:LEU:CA	14:GN:56:VAL:HG13	1.76	1.15
22:HB:891:A:C2	22:HB:893:G:C2	2.35	1.15
22:HB:2747:C:H4'	31:HK:114:THR:OG1	0.97	1.15
22:HB:2760:G:C2'	31:HK:149:LYS:CD	2.25	1.15

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:HB:2814:G:O4'	35:HO:45:ARG:HG2	1.45	1.15
1:IA:1098:C:OP1	2:IB:144:ARG:HB3	1.45	1.15
1:IA:675:A:C6	11:IK:116:HIS:CB	2.19	1.15
22:JB:2489:C:O2'	25:JE:126:PRO:HD3	1.47	1.15
22:JB:1173:G:H4'	39:JS:91:THR:N	1.41	1.15
1:AA:108:G:HO2'	20:AT:12:ALA:CB	1.54	1.15
1:AA:1225:A:C5'	13:AM:103:THR:OG1	1.94	1.15
1:AA:1392:G:H5'	1:AA:1531:A:C5'	1.75	1.15
1:AA:1229:A:OP2	13:AM:119:GLY:HA3	1.44	1.15
22:BB:1041:G:C5	52:B6:5:SER:HB3	1.60	1.15
22:BB:625:A:C4'	26:BF:38:ARG:HE	1.58	1.15
22:BB:755:C:H4'	25:BE:129:HIS:CE1	1.80	1.15
5:CE:143:ARG:HH22	8:CH:69:ARG:NH1	1.44	1.15
1:CA:276:G:N2	17:CQ:68:ARG:HH22	1.43	1.15
22:DB:2708:U:C4'	25:DE:21:ILE:HG13	1.74	1.15
38:DR:94:VAL:HG21	39:DS:10:LYS:O	1.44	1.15
1:EA:1349:A:OP2	9:EI:118:LYS:CD	1.93	1.15
1:EA:598:U:H3	8:EH:115:SER:CB	1.56	1.15
1:EA:129(A):G:C8	17:EQ:72:ARG:NH1	2.15	1.15
23:FA:96:C:OP1	43:FW:14:LEU:O	1.61	1.15
22:FB:1752:U:C3'	22:FB:1753:A:P	2.33	1.15
22:FB:2811:G:H5''	37:FQ:4:HIS:CE1	1.80	1.15
34:FN:27:TYR:HB3	43:FW:73:LYS:HG3	1.21	1.15
1:GA:276:G:OP1	17:GQ:20:THR:OG1	1.62	1.15
1:GA:1368:G:N7	9:GI:112:LYS:HD3	1.62	1.15
22:HB:490:A:H5'	42:HV:3:ARG:CB	1.63	1.15
1:IA:192:U:H4'	20:IT:57:ARG:NH1	1.62	1.15
1:IA:265:G:O4'	17:IQ:67:LYS:NZ	1.79	1.15
22:JB:2510:A:H5'	28:JH:174:GLY:C	1.66	1.15
22:JB:2722:C:H6	52:J6:35:ARG:CZ	1.58	1.15
1:AA:1059:C:C5'	14:AN:45:ARG:NH2	2.05	1.15
1:AA:15:G:O2'	5:AE:17:ALA:HB2	1.43	1.15
22:BB:176:A:N7	47:B1:30:GLU:HB3	1.60	1.15
22:BB:2859:U:O5'	48:B2:52:TYR:HE1	0.81	1.15
22:BB:1142:G:H1'	31:BK:110:LEU:CD2	1.75	1.15
1:CA:332:G:O2'	20:CT:13:LEU:HD11	1.47	1.15
23:DA:105:G:C3'	43:DW:91:PRO:HB3	1.75	1.15
22:DB:1468:A:N6	35:DO:63:ARG:HH21	1.43	1.15
22:DB:1479:G:O2'	22:DB:1543:G:O2'	1.65	1.15
22:DB:1804:U:O2	24:DD:46:ARG:CB	1.93	1.15
22:DB:2661:G:C5	25:DE:11:MET:N	2.14	1.15

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:FI:26:ARG:CG	47:F1:73:LYS:OXT	1.95	1.15
22:FB:1019:U:C5'	31:FK:63:ARG:CD	2.23	1.15
22:FB:2713:A:H62	25:FE:203:LYS:HB3	1.12	1.15
22:FB:687:G:C5'	26:FF:70:GLY:O	1.95	1.15
22:FB:999:A:OP2	46:FZ:8:SER:CA	1.94	1.15
22:FB:528:G:C5'	40:FT:35:PRO:O	1.92	1.15
1:GA:192:U:C5'	20:GT:56:MET:HE2	1.76	1.15
22:HB:2448:A:C4'	34:HN:57:ARG:HH11	1.60	1.15
38:HR:17:VAL:HG23	39:HS:75:LYS:NZ	1.61	1.15
1:IA:375:U:O2'	16:IP:28:ARG:NH2	1.79	1.15
1:IA:376:G:H4'	16:IP:28:ARG:HH12	0.99	1.15
22:JB:477:A:C5'	50:J4:16:HIS:ND1	2.08	1.15
23:JA:14:C:C3'	44:JX:53:MET:CE	2.21	1.15
1:AA:521:G:C8	12:AL:53:ARG:NH1	2.15	1.15
1:AA:1298:C:C4	7:AG:114:ARG:HD3	1.81	1.15
1:AA:264:U:O2	17:AQ:64:PRO:HD2	1.46	1.15
22:BB:18:U:OP1	38:BR:26:GLY:O	1.65	1.15
22:DB:176:A:C2'	47:D1:31:ILE:CG2	2.24	1.15
22:DB:865:A:N3	46:DZ:39:ALA:HB2	1.60	1.15
22:DB:1804:U:O2	24:DD:46:ARG:HB3	1.01	1.15
22:DB:869:C:H4'	44:DX:56:ASP:OD2	1.35	1.15
1:EA:1117:G:N2	9:EI:106:ALA:HB2	1.62	1.15
1:EA:753:A:H61	8:EH:2:LEU:CD2	1.58	1.15
22:FB:2716:G:C6	22:FB:2748:C:N3	2.14	1.15
22:FB:603:C:O2	22:FB:677:G:N2	1.79	1.15
22:FB:73:A:H5'	45:FY:44:ARG:NH2	1.59	1.15
22:FB:1110:G:N2	28:FH:168:GLN:HE22	1.45	1.15
22:FB:1021:A:H5'	38:FR:66:ASN:OD1	0.98	1.15
1:GA:254:G:C1'	17:GQ:16:GLN:O	1.93	1.15
1:GA:1373:G:OP1	7:GG:36:LYS:CB	1.94	1.15
1:GA:1291:G:C5'	7:GG:41:ARG:HH12	1.47	1.15
1:GA:974:A:OP2	14:GN:29:ARG:NH2	1.77	1.15
1:GA:720:C:O2	18:GR:50:ILE:HD12	0.97	1.15
1:IA:1186:G:H2'	9:II:113:LYS:HZ1	1.07	1.15
1:IA:1393:U:O3'	1:IA:1394:A:OP1	1.60	1.15
1:IA:1462:G:C4'	37:JQ:121:ARG:NH2	2.07	1.15
1:IA:1372:U:O2'	7:IG:35:LYS:HA	0.99	1.15
22:JB:2206:C:H1'	24:JD:262:LYS:NZ	1.43	1.15
22:JB:2701:A:C2	35:JO:6:ALA:CB	2.30	1.15
22:JB:2742:G:O2'	28:JH:150:LYS:HG2	1.47	1.15
22:JB:1200:G:O2'	39:JS:83:ARG:NE	1.78	1.15

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:BB:464:G:H1	50:B4:39:ARG:NH2	1.44	1.14
22:BB:2646:C:O2'	28:BH:111:HIS:NE2	1.80	1.14
22:BB:887:G:C1'	43:BW:167:THR:CA	2.26	1.14
1:CA:968:A:O4'	10:CJ:56:HIS:HE1	1.24	1.14
22:DB:1808:C:OP1	24:DD:87:ASN:OD1	1.62	1.14
22:DB:1746:A:OP1	37:DQ:124:VAL:CG2	1.96	1.14
34:DN:29:ALA:O	43:DW:119:ASN:CG	1.86	1.14
1:EA:1021:G:O2'	27:JG:179:LYS:CD	1.94	1.14
22:FB:3875:A:C8	53:F7:43:LYS:CG	2.21	1.14
22:FB:2463:G:O3'	34:FN:47:GLN:CD	1.83	1.14
1:GA:129:U:O5'	17:GQ:3:LYS:CE	1.94	1.14
1:GA:128:G:O2'	17:GQ:60:ILE:HD11	0.99	1.14
22:HB:2788:C:O2	48:H2:30:LEU:HD22	1.45	1.14
22:HB:2861:A:N9	48:H2:31:THR:HG22	1.61	1.14
1:IA:1057:G:O3'	3:IC:154:SER:CB	1.93	1.14
22:JB:2722:C:H5'	52:J6:35:ARG:HD3	1.21	1.14
22:JB:2463:G:N2	34:JN:120:ARG:CD	2.11	1.14
22:JB:633:G:OP1	33:JM:101:ARG:HG3	1.40	1.14
22:JB:2811:G:OP2	37:JQ:6:LYS:HA	0.96	1.14
22:BB:1805:G:H5'	24:BD:43:ARG:HA	1.28	1.14
22:BB:742:G:C5'	24:BD:18:THR:OG1	1.94	1.14
1:CA:780:A:O2'	1:CA:1523:G:H4'	1.33	1.14
1:CA:815:A:N1	1:CA:1529:G:C2'	2.09	1.14
1:CA:545:C:H5''	4:CD:72:GLU:CB	1.77	1.14
22:DB:456:C:C4'	38:DR:2:PRO:CG	2.25	1.14
22:DB:934:G:H1'	44:DX:23:VAL:CB	1.76	1.14
22:DB:1008:G:OP1	38:DR:92:ARG:HD3	1.45	1.14
22:FB:1003:C:H5''	38:FR:47:TYR:OH	1.40	1.14
22:FB:2811:G:C5'	37:FQ:4:HIS:CE1	2.29	1.14
22:FB:603:C:N3	22:FB:677:G:N1	1.93	1.14
22:FB:2256:G:O2'	34:FN:14:PHE:HZ	0.82	1.14
22:FB:1173:G:O4'	39:FS:22:VAL:HG12	1.48	1.14
22:FB:1992:G:OP1	40:FT:62:ARG:HB3	1.46	1.14
22:FB:348:U:C5'	42:FV:13:LYS:CB	1.95	1.14
1:GA:132:C:C5'	20:GT:74:LYS:NZ	2.08	1.14
13:GM:87:TYR:N	19:GS:73:GLU:O	1.76	1.14
22:HB:1381:G:OP1	50:H4:25:LYS:CB	1.94	1.14
22:HB:1338:G:C8	40:HT:107:ILE:HG21	1.67	1.14
22:HB:1789:U:H5''	24:HD:257:LEU:HB3	1.27	1.14
22:HB:1998:A:N9	48:H2:6:VAL:CG1	2.10	1.14
22:HB:917:U:C2'	43:HW:118:HIS:NE2	2.04	1.14

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:HB:636:G:C2	33:HM:97:ARG:NH2	2.14	1.14
1:IA:877:C:C3'	8:IH:88:LYS:HG2	1.77	1.14
1:AA:1457:A:H5''	20:AT:27:LYS:CG	1.77	1.14
22:BB:1806:G:C1'	24:BD:52:ARG:HH22	1.56	1.14
22:BB:1816:G:N2	24:BD:252:LYS:HD3	1.38	1.14
1:AA:1495:U:O4'	22:BB:1895:A:C2	2.00	1.14
25:BE:195:LEU:HD11	37:BQ:2:GLN:CD	1.39	1.14
22:BB:596:C:C3'	33:BM:29:THR:OG1	1.92	1.14
23:BA:78:A:H5'	43:BW:31:SER:HB2	1.28	1.14
1:CA:430:A:OP1	4:CD:8:VAL:N	1.77	1.14
23:DA:106:U:C4'	43:DW:88:TYR:CE1	2.30	1.14
22:DB:1043:A:OP1	52:D6:8:LYS:CA	1.95	1.14
22:DB:1834:G:O4'	24:DD:244:ARG:CG	1.95	1.14
32:DL:91:PHE:CD1	37:DQ:79:ARG:CD	2.30	1.14
23:DA:105:G:C4'	43:DW:91:PRO:CB	2.21	1.14
1:EA:1329:A:OP1	13:EM:28:ALA:N	1.78	1.14
1:EA:437:U:H5''	4:ED:155:LEU:CD1	1.75	1.14
22:FB:2708:U:C5'	25:FE:21:ILE:HD11	1.76	1.14
1:GA:1240:U:OP1	7:GG:115:ARG:HG3	1.45	1.14
12:GL:19:ARG:C	12:GL:21:LYS:HG2	1.67	1.14
22:HB:2029:G:H5''	48:H2:19:ARG:HD3	1.28	1.14
1:IA:1187:G:O4'	9:II:113:LYS:HG2	1.48	1.14
1:IA:620:C:C4'	4:ID:138:TYR:CE1	2.29	1.14
1:IA:1189:C:OP1	10:IJ:51:ARG:NH1	1.79	1.14
1:IA:675:A:N6	11:IK:116:HIS:HB2	1.62	1.14
22:JB:2073:A:N1	47:J1:42:PHE:CD1	2.15	1.14
22:JB:3122:U:O2	53:J7:158:LYS:NZ	1.60	1.14
26:JF:43:ALA:HB1	38:JR:2:PRO:HG3	1.15	1.14
22:JB:339:U:H4'	42:JV:77:HIS:H	1.04	1.14
43:JW:84:TYR:CZ	43:JW:92:VAL:CG2	2.30	1.14
1:AA:1495:U:O4'	22:BB:1895:A:H2	1.28	1.14
1:AA:15:G:H4'	5:AE:24:ARG:NE	1.00	1.14
22:BB:2523:G:C5'	22:BB:2624:G:N7	2.09	1.14
22:BB:2728:A:O2'	28:BH:67:LEU:HD22	1.47	1.14
1:CA:407:G:C4'	4:CD:116:GLN:CB	2.15	1.14
13:CM:81:LEU:O	13:CM:92:HIS:HB3	1.43	1.14
1:CA:378:G:OP1	16:CP:25:ARG:CG	1.96	1.14
22:DB:2716:G:H1	22:DB:2749:A:H1'	1.10	1.14
22:DB:2733:A:N3	52:D6:15:LYS:CD	2.08	1.14
1:EA:1057:G:C5'	3:EC:154:SER:C	2.14	1.14
22:FB:1670:G:C2	35:FO:11:ASN:CG	2.20	1.14

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:FB:1828:C:H1'	22:FB:1912:G:OP1	1.45	1.14
22:FB:2023:C:OP1	31:FK:132:PHE:HB2	0.97	1.14
22:FB:1265:G:C4'	38:FR:32:TYR:CE1	2.12	1.14
22:FB:25:U:H5'	40:FT:100:GLY:HA2	1.26	1.14
22:FB:88:G:N2	41:FU:67:ARG:NH2	1.96	1.14
1:GA:659:U:H4'	15:GO:5:LYS:CE	1.75	1.14
1:GA:375:U:H4'	16:GP:17:TYR:CE2	1.81	1.14
38:HR:94:VAL:HG11	39:HS:10:LYS:CE	1.76	1.14
1:IA:1372:U:O2'	7:IG:35:LYS:CA	1.95	1.14
22:JB:2397:A:H4'	49:J3:21:TYR:HE2	1.05	1.14
49:J3:24:THR:CG2	51:J5:35:GLY:O	1.80	1.14
22:JB:230:C:H41	51:J5:4:MET:HE2	1.06	1.14
22:JB:2550:C:O2	25:JE:143:GLN:HG2	1.47	1.14
1:AA:108:G:C2'	20:AT:12:ALA:HB1	1.69	1.14
1:AA:712:A:C4'	24:BD:182:LEU:HD11	1.76	1.14
1:AA:518:C:C4'	12:AL:50:SER:N	2.09	1.14
23:BA:92:G:O2'	34:BN:22:ALA:HB2	1.46	1.14
1:CA:1344:C:C4'	9:CI:120:ARG:HG2	1.75	1.14
1:CA:439:A:H4'	4:CD:122:ARG:NH2	1.62	1.14
1:CA:376:G:C4'	16:CP:28:ARG:HH12	1.59	1.14
22:DB:1401:G:C2	22:DB:1413:U:C2	2.35	1.14
22:DB:2661:G:C8	25:DE:11:MET:CA	2.28	1.14
22:DB:2752:C:O4'	25:DE:166:THR:HG21	1.46	1.14
22:DB:2713:A:N6	25:DE:203:LYS:CB	2.10	1.14
22:DB:1173:G:O4'	39:DS:22:VAL:CG1	1.95	1.14
22:FB:2240:C:P	44:FX:14:ARG:CD	2.34	1.14
22:FB:547:U:C5'	31:FK:30:LYS:HG3	1.73	1.14
22:FB:737:C:O3'	22:FB:738:G:P	2.06	1.14
22:FB:938:G:N2	46:FZ:39:ALA:HB2	1.63	1.14
33:FM:63:ARG:CZ	51:F5:9:MET:CE	2.25	1.14
25:FE:75:THR:CG2	37:FQ:2:GLN:HE22	1.59	1.14
22:FB:57:G:H5''	41:FU:73:ASN:C	1.42	1.14
22:FB:2315:A:C5	44:FX:70:ILE:CD1	2.15	1.14
1:GA:1080:A:O2'	5:GE:17:ALA:O	1.64	1.14
22:HB:602:C:C1'	51:H5:2:PRO:N	2.08	1.14
22:HB:2543:A:N1	22:HB:2625:U:O2'	1.81	1.14
22:HB:1795:C:O3'	24:HD:250:TRP:CH2	2.00	1.14
22:HB:1081:A:C2	30:HJ:10:LEU:HD13	1.81	1.14
1:IA:1358:U:O3'	14:IN:31:ARG:HA	1.47	1.14
1:IA:765:G:OP2	15:IO:50:HIS:CD2	1.98	1.14
22:JB:1040:A:H1'	22:JB:2465:G:H5'	1.25	1.14

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:JB:226:C:C2'	22:JB:2373:C:H1'	1.77	1.14
22:JB:642:A:N6	22:JB:2394:G:H21	1.45	1.14
23:JA:49:C:H5''	36:JP:94:TYR:CE1	1.80	1.14
22:JB:348:U:C5'	42:JV:13:LYS:CB	2.25	1.14
1:AA:1343:G:H4'	9:AI:122:ALA:CB	1.77	1.14
1:AA:1382:C:H4'	7:AG:79:ARG:HG3	1.16	1.14
5:AE:80:ILE:HG21	8:AH:138:TRP:CE3	1.82	1.14
22:BB:2601:C:C5'	25:BE:159:HIS:HD2	1.60	1.14
1:CA:948:C:H5''	13:CM:106:ASN:HA	1.25	1.14
1:CA:520:A:O5'	12:CL:52:LEU:O	1.53	1.14
22:DB:2329:C:P	51:D5:42:ARG:HD3	1.88	1.14
22:DB:465:C:N3	50:D4:39:ARG:NH1	1.95	1.14
22:DB:1809:G:H5'	24:DD:63:ARG:NH1	1.61	1.14
22:DB:2751:C:C4'	25:DE:202:ALA:HB1	1.78	1.14
1:EA:1102:A:C2	2:EB:108:ILE:HD11	1.82	1.14
22:FB:2615:U:C5'	25:FE:79:ARG:CB	2.14	1.14
22:FB:2629:U:OP1	32:FL:29:ILE:HD12	1.45	1.14
13:EM:72:ALA:CB	27:FG:113:ASP:HB3	1.78	1.14
34:FN:99:LYS:HB3	43:FW:74:ARG:CB	1.76	1.14
1:GA:128:G:O2'	17:GQ:60:ILE:CD1	1.94	1.14
1:GA:675:A:C2	11:GK:115:PRO:HA	1.82	1.14
22:HB:2372:A:H1'	33:HM:60:LEU:N	1.62	1.14
22:HB:742:G:H5''	24:HD:18:THR:CG2	1.76	1.14
22:HB:1796:A:N3	24:HD:51:SER:OG	1.79	1.14
1:IA:279:A:N6	17:IQ:97:SER:O	1.81	1.14
1:IA:968:A:H2'	9:II:128:ARG:HG3	1.22	1.14
3:IC:23:TYR:CE2	10:IJ:93:GLY:CA	2.25	1.14
1:IA:708:C:H5'	11:IK:20:TYR:CE2	1.83	1.14
22:JB:512:A:H5''	40:JT:16:GLN:CA	1.78	1.14
22:JB:348:U:H5'	42:JV:13:LYS:CB	1.77	1.14
1:AA:740:U:C2	15:AO:42:HIS:CE1	2.30	1.14
1:AA:953:G:C8	13:AM:123:ALA:O	1.80	1.14
1:AA:108:G:O2'	20:AT:12:ALA:HB2	0.99	1.14
32:BL:83:ARG:HD2	37:BQ:83:PHE:HD2	1.01	1.14
22:BB:888:G:C4	43:BW:165:GLU:HG2	1.82	1.14
22:BB:887:G:H5''	43:BW:170:SER:CB	1.78	1.14
23:BA:77:G:O2'	43:BW:29:ASN:ND2	1.69	1.14
22:DB:176:A:N9	47:D1:30:GLU:HB3	1.61	1.14
22:DB:1040:A:O3'	34:DN:125:LYS:HE2	0.97	1.14
22:DB:2034:A:C4'	25:DE:141:ILE:HD11	1.77	1.14
22:DB:2627:G:H21	32:DL:28:GLY:CA	1.49	1.14

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:DB:507:A:OP2	40:DT:20:LEU:CA	1.96	1.14
34:DN:38:MET:HA	43:DW:74:ARG:CG	1.63	1.14
1:EA:1310:G:C8	19:ES:2:PRO:HD3	1.81	1.14
1:EA:589:C:C1'	8:EH:29:SER:HB2	1.76	1.14
22:FB:1670:G:C2	35:FO:11:ASN:ND2	2.16	1.14
22:FB:546:A:H4'	38:FR:57:PHE:HZ	1.06	1.14
3:GC:29:TYR:OH	10:GJ:11:PHE:CE1	2.01	1.14
22:HB:1260:A:H4'	38:HR:2:PRO:CD	1.76	1.14
22:HB:2357:A:O3'	36:HP:19:THR:HG21	1.25	1.14
22:JB:2603:G:O4'	48:J2:22:HIS:CE1	2.00	1.14
22:JB:1001:A:H4'	46:JZ:27:LYS:NZ	1.61	1.14
22:JB:2603:G:H1'	48:J2:22:HIS:NE2	1.62	1.14
22:JB:236:C:H1'	22:JB:632:A:O2'	1.01	1.14
22:JB:2181:A:C2	29:JI:28:TRP:HB2	1.81	1.14
1:AA:1239:A:O2'	7:AG:115:ARG:HD2	1.48	1.14
22:BB:1041:G:H5''	34:BN:119:PHE:CE2	1.82	1.14
22:BB:1861:G:C6	53:B7:199:ASN:CB	2.31	1.14
22:DB:2598:C:OP1	25:DE:152:LYS:NZ	1.81	1.14
22:DB:2745:A:H2'	22:DB:2746:G:C4'	1.76	1.14
22:DB:596:C:C5	33:DM:30:ALA:HB3	1.83	1.14
22:DB:827:C:N4	33:DM:32:ARG:HH11	1.43	1.14
22:DB:1666:G:H21	35:DO:106:ASP:CB	1.53	1.14
1:EA:449:C:O3'	16:EP:42:ARG:O	1.65	1.14
22:FB:413:G:N7	47:F1:63:PHE:CD1	2.16	1.14
22:FB:2258:G:C1'	22:FB:2306:A:H1'	1.77	1.14
22:FB:968:C:OP1	34:FN:75:VAL:CG1	1.94	1.14
22:FB:29:U:O4'	38:FR:8:ILE:HD13	1.46	1.14
22:FB:64:C:C4	41:FU:65:VAL:HG23	1.82	1.14
22:HB:1471:G:N2	22:HB:2681:A:H62	1.45	1.14
22:HB:1888:C:O2'	22:HB:1889:G:P	2.05	1.14
22:HB:237:G:N2	22:HB:618:A:O2'	1.81	1.14
25:HE:52:ALA:O	37:HQ:5:ILE:CD1	1.94	1.14
1:IA:1151:A:H4'	10:IJ:42:THR:CA	1.76	1.14
1:IA:1226:C:C6	13:IM:104:ARG:CB	2.28	1.14
1:IA:684:A:O4'	11:IK:38:ASN:HB3	1.46	1.14
1:IA:928:G:O4'	1:IA:1532:U:O2'	1.61	1.14
22:JB:2365:U:H4'	44:JX:38:VAL:HB	1.29	1.14
22:JB:2811:G:P	37:JQ:5:ILE:O	2.06	1.14
22:JB:631:G:C6	33:JM:96:TYR:CE2	2.36	1.14
22:JB:953:G:H5''	33:JM:38:LYS:C	1.67	1.14
1:AA:1396:A:C4	5:AE:19:MET:CE	2.31	1.14

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:624:C:H4'	16:AP:11:SER:N	0.98	1.14
1:AA:740:U:N1	15:AO:42:HIS:CE1	2.13	1.14
22:BB:1453:A:O5'	22:BB:1454:U:H5	1.27	1.14
22:BB:2218:G:H4'	24:BD:230:ASP:HB3	1.24	1.14
22:BB:506:G:O4'	40:BT:82:ASN:HA	1.48	1.14
1:CA:583:A:H1'	17:CQ:91:ARG:CD	1.76	1.14
1:CA:760:G:O6	17:CQ:105:ALA:CA	1.95	1.14
22:DB:186:C:OP1	50:D4:33:ARG:NH1	1.81	1.14
22:DB:914:C:H2'	43:DW:163:ASP:OD2	1.45	1.14
22:DB:1041:G:P	34:DN:125:LYS:HE2	1.85	1.14
22:DB:1666:G:N2	35:DO:106:ASP:HB2	1.60	1.14
22:DB:2313:G:C2'	36:DP:15:ARG:HH11	1.61	1.14
22:DB:574:C:H5''	39:DS:82:ARG:NH2	1.54	1.14
1:EA:1265:G:C4'	1:IA:1272:G:O2'	1.94	1.14
22:FB:1269:G:N2	26:FF:76:THR:CA	2.11	1.14
22:FB:2600:A:H1'	25:FE:158:GLY:CA	1.77	1.14
22:FB:597:U:H5'	33:FM:28:LYS:HD2	1.20	1.14
22:FB:2372:A:C2'	33:FM:59:ARG:CG	2.26	1.14
38:FR:88:ILE:O	39:FS:51:ALA:HB1	1.47	1.14
22:HB:1487:C:N3	22:HB:1533:G:O6	1.80	1.14
22:HB:2606:G:H1'	22:HB:2757:G:C2	1.81	1.14
22:JB:3124:G:H5'	53:J7:62:LYS:HG2	1.25	1.14
22:JB:2734:U:C1'	52:J6:15:LYS:CD	2.24	1.14
22:BB:1003:C:N3	22:BB:1173:G:N1	1.96	1.14
22:BB:2600:A:C1'	25:BE:158:GLY:HA2	1.76	1.14
22:BB:1809:G:H5''	24:BD:157:ARG:HH11	1.01	1.14
22:BB:505:G:C4'	40:BT:78:ASN:HB3	1.78	1.14
1:CA:815:A:O4'	1:CA:1529:G:O6	1.65	1.14
1:CA:938:A:O2'	7:CG:95:ARG:NH2	1.81	1.14
1:CA:644:G:H4'	8:CH:89:PRO:CB	1.78	1.14
1:CA:740:U:OP1	15:CO:35:ARG:CZ	1.96	1.14
23:DA:92:G:C2	34:DN:22:ALA:O	1.99	1.14
22:DB:2725:C:H1'	28:DH:139:GLN:CA	1.75	1.14
22:DB:547:U:OP1	31:DK:30:LYS:HD3	1.48	1.14
1:EA:673:G:H5''	6:EF:87:ARG:CZ	1.78	1.14
22:FB:10:A:N6	22:FB:2607:C:H5''	1.62	1.14
22:FB:506:G:OP2	40:FT:21:ARG:CB	1.94	1.14
34:FN:106:GLU:CB	43:FW:115:ILE:CD1	2.02	1.14
10:GJ:47:PHE:HE1	14:GN:56:VAL:CG1	1.61	1.14
22:HB:55:A:H1'	22:HB:125:A:C2	1.82	1.14
22:HB:2240:C:OP2	44:HX:14:ARG:CG	1.94	1.14

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:JB:3170:A:O3'	53:J7:128:LEU:CD2	1.96	1.14
22:JB:1698:C:O3'	22:JB:1699:A:P	2.05	1.14
22:JB:75:C:C1'	45:JY:55:THR:C	1.82	1.14
1:AA:1220:G:O2'	19:AS:53:ASN:O	1.64	1.13
1:AA:43:C:H3'	16:AP:12:LYS:HE3	1.25	1.13
22:BB:111:G:C3'	22:BB:112:U:P	2.36	1.13
22:DB:115:G:H5''	50:D4:19:ARG:NH2	1.62	1.13
22:DB:2728:A:C1'	28:DH:67:LEU:CD2	2.25	1.13
22:DB:857:U:O2	22:DB:946:U:C2	2.02	1.13
22:DB:2494:C:H5''	31:DK:108:GLY:HA3	1.24	1.13
22:DB:2448:A:C4'	34:DN:58:HIS:HE1	1.59	1.13
34:DN:37:ALA:C	43:DW:74:ARG:NH2	1.98	1.13
22:FB:1290:A:C2	35:FO:27:ALA:HB2	1.82	1.13
1:GA:1392:G:H5'	1:GA:1530:G:O3'	1.48	1.13
10:GJ:64:GLU:C	14:GN:56:VAL:CG1	2.15	1.13
10:GJ:47:PHE:CE1	14:GN:56:VAL:HG11	1.82	1.13
12:GL:11:VAL:HA	17:GQ:32:TYR:CD1	1.81	1.13
22:HB:1805:G:N3	24:HD:51:SER:HB2	1.57	1.13
22:HB:2310:G:H5'	44:HX:71:ASN:CA	1.76	1.13
38:HR:101:ARG:NH2	39:HS:43:GLU:OE2	1.79	1.13
1:IA:1057:G:H5'	3:IC:196:LEU:CD2	1.77	1.13
1:IA:752:G:C5'	15:IO:69:TYR:CZ	2.30	1.13
13:IM:84:ILE:CD1	19:IS:74:PHE:CE2	2.29	1.13
1:IA:1483:A:C2	22:JB:1943:A:C1'	2.02	1.13
22:JB:2811:G:H5''	37:JQ:4:HIS:CE1	1.83	1.13
22:JB:2821:G:OP2	37:JQ:105:TYR:OH	1.64	1.13
1:AA:1151:A:H4'	10:AJ:39:PRO:HB2	1.25	1.13
1:AA:275:G:C1'	17:AQ:15:MET:CE	2.01	1.13
22:BB:1397:A:N3	22:BB:1418:C:C4	2.15	1.13
25:BE:17:ASN:C	37:BQ:87:LEU:CD1	2.15	1.13
1:CA:780:A:C3'	1:CA:1523:G:H5'	1.78	1.13
1:CA:1229:A:N3	13:CM:125:ARG:HG2	1.52	1.13
22:DB:1193:G:OP1	39:DS:25:LEU:CG	1.94	1.13
22:DB:1325:U:OP1	41:DU:68:PHE:CE1	2.01	1.13
1:EA:598:U:C2'	8:EH:130:GLY:HA3	1.69	1.13
22:FB:409:G:C4'	47:F1:39:VAL:HG11	1.77	1.13
22:FB:1265:G:N3	38:FR:33:ARG:CA	2.10	1.13
22:FB:8:A:H5''	31:FK:79:PHE:HZ	1.01	1.13
22:FB:2490:U:C5'	25:FE:122:PHE:CE1	2.31	1.13
22:FB:2372:A:C4'	33:FM:60:LEU:H	1.60	1.13
38:FR:91:ASN:CG	39:FS:10:LYS:HG3	1.69	1.13

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:FB:63:A:O2'	41:FU:70:GLY:O	1.66	1.13
22:FB:864:C:C1'	46:FZ:39:ALA:C	2.17	1.13
10:GJ:65:LEU:CB	14:GN:56:VAL:CG1	2.12	1.13
22:HB:1835:C:H5'	24:HD:255:LYS:NZ	1.63	1.13
22:HB:1884:A:N3	24:HD:244:ARG:CD	2.11	1.13
22:HB:2599:U:O2'	25:HE:157:ALA:O	1.67	1.13
22:HB:1150:C:OP1	31:HK:52:GLY:CA	1.96	1.13
1:IA:1115:C:H6	14:IN:61:TRP:CB	1.58	1.13
1:IA:401:C:O2'	1:IA:621:A:C2	2.00	1.13
1:IA:676:A:O2'	11:IK:115:PRO:CA	1.95	1.13
22:JB:1812:U:OP1	24:JD:160:GLY:CA	1.96	1.13
22:JB:2464:G:C4'	34:JN:123:GLY:N	2.09	1.13
43:JW:48:THR:CG2	43:JW:130:ILE:HD11	1.76	1.13
43:JW:65:LEU:CD2	43:JW:128:ARG:NE	2.09	1.13
1:AA:974:A:C2	14:AN:31:ARG:HG2	1.83	1.13
1:AA:750:G:H1'	15:AO:22:THR:OG1	1.46	1.13
22:BB:1397:A:C4	22:BB:1418:C:C4	2.36	1.13
22:BB:1416:A:C4'	22:BB:1485:U:C4'	2.26	1.13
22:BB:2333:A:O2'	44:BX:31:VAL:CG1	1.94	1.13
22:BB:1805:G:N2	24:BD:52:ARG:HD3	0.80	1.13
34:BN:36:ILE:C	43:BW:74:ARG:NH2	2.00	1.13
22:DB:2541:U:O3'	32:DL:25:LEU:HD23	1.45	1.13
1:EA:435:C:O2'	4:ED:156:GLU:HB3	1.42	1.13
22:FB:3177:C:H4'	53:F7:163:PRO:HG2	1.14	1.13
22:FB:1493:A:C2	22:FB:1573:G:C2	2.35	1.13
22:FB:548:G:C1'	31:FK:33:ILE:CG2	2.15	1.13
22:FB:547:U:H1'	31:FK:32:TYR:N	1.61	1.13
34:FN:27:TYR:CG	43:FW:73:LYS:HA	1.56	1.13
22:FB:2239:C:N4	44:FX:12:ASN:HB2	1.63	1.13
1:GA:106:C:N4	20:GT:14:LYS:HE2	1.62	1.13
1:GA:1392:G:C2	1:GA:1502:A:C5'	2.16	1.13
1:GA:9:G:H5''	5:GE:104:ALA:HB2	1.29	1.13
1:GA:1226:C:N4	13:GM:104:ARG:HG3	1.43	1.13
13:GM:87:TYR:CA	19:GS:73:GLU:O	1.96	1.13
22:HB:1829:C:C4'	22:HB:1911:A:H4'	1.77	1.13
22:JB:2259:G:N3	22:JB:2367:A:C2	2.15	1.13
22:JB:2463:G:N2	34:JN:120:ARG:HD3	1.64	1.13
22:JB:2206:C:C2'	24:JD:262:LYS:HZ1	1.60	1.13
40:JT:60:ILE:HG22	48:J2:25:LEU:HD11	1.22	1.13
22:JB:468:A:OP1	41:JU:67:ARG:NH1	1.81	1.13
23:JA:14:C:C4	44:JX:52:GLY:O	1.94	1.13

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:378:G:OP1	16:AP:25:ARG:HG2	1.39	1.13
22:BB:2008:C:C6	31:BK:103:TYR:OH	1.97	1.13
22:BB:543:G:C4	22:BB:570:G:N2	2.17	1.13
22:BB:7:G:C5'	31:BK:161:GLN:NE2	2.12	1.13
38:BR:94:VAL:HG11	39:BS:10:LYS:HD2	1.16	1.13
22:BB:886:A:H2'	43:BW:167:THR:CB	1.69	1.13
1:CA:15:G:N2	5:CE:18:ARG:HA	1.49	1.13
1:CA:15:G:H22	5:CE:18:ARG:HA	0.99	1.13
22:DB:1043:A:H5'	52:D6:23:VAL:HG21	1.28	1.13
1:EA:9:G:P	5:EE:121:LYS:HZ2	1.70	1.13
22:FB:1139:A:H62	22:FB:2469:G:P	1.70	1.13
22:FB:2284:U:H1'	27:FG:152:MET:H	1.00	1.13
22:FB:1686:A:H8	32:FL:5:GLN:OE1	1.29	1.13
22:FB:1009:C:OP1	38:FR:80:ILE:HG21	1.46	1.13
6:GF:81:ILE:O	24:HD:137:PRO:HB3	1.46	1.13
1:GA:1249:C:O3'	9:GI:68:GLY:O	1.64	1.13
1:GA:323:U:C1'	20:GT:19:SER:HB2	1.77	1.13
22:HB:3122:U:O2'	53:H7:158:LYS:NZ	1.82	1.13
22:HB:1265:G:O6	38:HR:36:PHE:CD1	2.02	1.13
22:HB:2814:G:H4'	35:HO:45:ARG:HG3	1.29	1.13
1:IA:134:A:N6	16:IP:25:ARG:CZ	2.07	1.13
22:JB:2208:U:O2'	47:J1:40:HIS:HB2	1.45	1.13
22:JB:3176:A:P	53:J7:33:ILE:CD1	2.35	1.13
22:JB:509:U:H1'	42:JV:54:ILE:CG2	1.63	1.13
22:JB:797:A:C6	24:JD:229:VAL:HG21	1.83	1.13
22:JB:1129:A:H5''	43:JW:76:ARG:HH11	1.01	1.13
1:AA:1128:C:O3'	9:AI:18:PHE:CE1	2.02	1.13
1:AA:974:A:N3	14:AN:31:ARG:CB	2.11	1.13
22:BB:1510:A:H2	22:BB:1595:A:H1'	1.04	1.13
22:BB:2032:G:N3	25:BE:156:MET:CE	2.11	1.13
22:BB:332:C:OP2	26:BF:130:THR:CG2	1.94	1.13
22:BB:487:G:O3'	22:BB:488:A:P	2.07	1.13
1:CA:127:G:N3	17:CQ:4:LYS:NZ	1.97	1.13
1:CA:332:G:OP1	20:CT:8:ARG:C	1.87	1.13
1:CA:1298:C:C4	7:CG:114:ARG:HD3	1.82	1.13
33:DM:50:GLU:OE2	51:D5:58:MET:HG2	0.95	1.13
22:DB:1673:C:O3'	25:DE:136:ARG:HB2	1.40	1.13
22:DB:3123:G:H5'	53:D7:158:LYS:HZ2	1.04	1.13
25:DE:8:LYS:HB3	37:DQ:3:THR:HB	1.29	1.13
1:EA:537:G:O3'	12:EL:113:ARG:HD3	1.46	1.13
22:FB:2262:C:O2'	49:F3:8:ILE:CD1	1.96	1.13

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:FB:457:C:H5'	38:FR:3:ARG:HD2	1.24	1.13
22:FB:999:A:OP1	46:FZ:7:ARG:HG2	1.45	1.13
22:FB:3093:C:C5'	29:FI:22:ASP:N	2.11	1.13
1:GA:1350:A:N6	9:GI:118:LYS:HE3	1.59	1.13
1:GA:927:G:H4'	1:GA:1503:A:C8	1.82	1.13
13:GM:87:TYR:HB2	19:GS:73:GLU:CA	1.78	1.13
23:HA:53:G:OP2	36:HP:62:GLY:O	1.66	1.13
22:HB:1668:G:OP1	35:HO:11:ASN:CG	1.86	1.13
25:HE:52:ALA:O	37:HQ:5:ILE:HG12	1.43	1.13
41:HU:91:LEU:O	45:HY:24:GLU:OE1	1.66	1.13
1:IA:826:C:H4'	8:IH:12:ARG:HA	1.31	1.13
22:JB:2701:A:N3	35:JO:6:ALA:CB	2.10	1.13
1:AA:1383:C:C5'	7:AG:79:ARG:NH2	2.10	1.13
22:BB:2557:G:N3	25:BE:133:LYS:HE2	1.61	1.13
22:BB:1237:G:O2'	39:BS:86:HIS:HA	1.44	1.13
22:BB:863:C:O2'	46:BZ:18:LYS:HB3	1.44	1.13
1:CA:1344:C:H4'	9:CI:120:ARG:CB	1.79	1.13
1:CA:279:A:C5	17:CQ:95:TYR:O	2.00	1.13
22:DB:1829:C:C1'	22:DB:1911:A:H1'	1.70	1.13
1:EA:186:C:H4'	20:ET:81:LYS:HD3	1.16	1.13
22:FB:1203:A:C5'	33:FM:36:GLY:N	2.12	1.13
22:FB:2035:G:H4'	25:FE:143:GLN:H	1.08	1.13
22:FB:337:G:O2'	42:FV:9:HIS:CD2	0.78	1.13
38:FR:46:GLU:HB2	39:FS:75:LYS:HG3	1.19	1.13
1:GA:927:G:H4'	1:GA:1503:A:H8	1.12	1.13
22:HB:1752:U:O3'	22:HB:1753:A:P	2.05	1.13
22:HB:2328:G:H3'	51:H5:42:ARG:HD2	1.19	1.13
1:IA:1187:G:C4'	9:II:113:LYS:HG2	1.77	1.13
1:IA:608:A:C2	16:IP:31:LYS:CD	2.32	1.13
33:JM:60:LEU:O	51:J5:27:SER:OG	1.64	1.13
22:JB:1167:A:H5''	22:JB:1168:G:N7	1.60	1.13
22:JB:1202:U:H6	39:JS:81:ARG:NH1	1.45	1.13
22:JB:511:A:O3'	22:JB:512:A:P	2.05	1.13
1:AA:265:G:O4'	17:AQ:65:ILE:HA	1.45	1.13
1:AA:509:A:C4	4:AD:54:TYR:CE2	2.37	1.13
1:AA:1383:C:C5'	7:AG:79:ARG:HH22	1.62	1.13
1:AA:876:G:O2'	8:AH:4:ASP:CG	1.86	1.13
13:AM:83:ASP:C	13:AM:84:ILE:O	1.84	1.13
22:BB:2671:C:O2'	22:BB:2822:U:H1'	1.48	1.13
1:CA:1229:A:N7	13:CM:120:LYS:CB	2.11	1.13
22:DB:1002:C:C2	22:DB:1174:G:N2	2.16	1.13

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:DB:2411:A:C5	47:D1:28:ARG:N	2.17	1.13
22:DB:2627:G:H21	32:DL:28:GLY:N	1.47	1.13
22:DB:3197:U:O2'	22:DB:2181:A:C8	2.01	1.13
22:FB:2240:C:O5'	44:FX:14:ARG:CG	1.97	1.13
22:FB:2285:U:C6	27:FG:40:LEU:HD21	1.83	1.13
22:FB:2623:A:O3'	22:FB:2624:G:P	2.07	1.13
22:FB:659:G:H21	51:F5:46:LYS:NZ	1.45	1.13
22:HB:1668:G:P	35:HO:11:ASN:ND2	2.22	1.13
22:HB:2025:A:N7	31:HK:142:ARG:NH2	1.91	1.13
22:HB:2236:U:H3'	44:HX:4:LYS:HZ3	1.09	1.13
22:HB:2343:C:H5''	44:HX:40:GLN:HB2	1.16	1.13
1:IA:1186:G:O4'	9:II:110:GLU:OE2	1.64	1.13
22:JB:16:G:P	48:J2:17:ASP:HB3	1.88	1.13
22:JB:2692:A:C2'	35:JO:14:SER:CB	2.26	1.13
22:JB:673:G:OP1	26:JF:93:TYR:HA	1.49	1.13
1:AA:1349:A:OP1	9:AI:120:ARG:HB2	1.48	1.13
1:AA:43:C:H3'	16:AP:12:LYS:CE	1.77	1.13
22:BB:1834:G:H1'	24:BD:244:ARG:HG3	1.15	1.13
25:BE:7:THR:N	37:BQ:3:THR:OG1	1.80	1.13
1:CA:235:C:H5'	17:CQ:70:ARG:HB2	1.23	1.13
22:DB:512:A:H5''	40:DT:15:LYS:CG	1.76	1.13
32:DL:87:SER:HB2	37:DQ:83:PHE:N	1.40	1.13
1:EA:436:C:H5'	4:ED:156:GLU:HB3	1.19	1.13
22:FB:2328:G:H3'	51:F5:42:ARG:HD3	1.18	1.13
22:FB:2578:G:N7	24:FD:236:GLY:HA2	1.63	1.13
33:FM:63:ARG:NH2	51:F5:9:MET:CE	2.12	1.13
1:GA:222:U:O2'	20:GT:68:LYS:HE2	1.45	1.13
1:GA:922:G:H1'	5:GE:19:MET:SD	1.88	1.13
1:GA:958:A:N6	19:GS:77:THR:O	1.81	1.13
22:HB:3876:A:C5	53:H7:45:ASP:N	2.09	1.13
22:HB:3093:C:C1'	22:HB:2181:A:C6	2.25	1.13
22:HB:916:U:H1'	43:HW:165:GLU:O	1.49	1.13
3:IC:23:TYR:O	10:IJ:92:THR:CG2	1.96	1.13
1:IA:684:A:H1'	11:IK:39:PRO:N	1.64	1.13
1:IA:237:C:H4'	17:IQ:27:PHE:CZ	1.84	1.13
23:JA:10:U:O2	36:JP:49:GLN:CG	1.95	1.13
22:JB:597:U:C1'	26:JF:84:PHE:CE2	2.11	1.13
22:JB:1071:U:O4	30:JJ:130:THR:O	1.65	1.13
22:JB:1163:C:H1'	38:JR:77:SER:OG	1.49	1.13
22:BB:2229:G:C8	34:BN:85:GLY:HA2	1.84	1.13
34:BN:99:LYS:HB3	43:BW:74:ARG:CG	1.79	1.13

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:430:A:P	4:CD:8:VAL:CG2	2.36	1.13
1:CA:1077:G:N1	5:CE:45:PHE:CZ	2.17	1.13
1:CA:587:G:H4'	8:CH:3:THR:CA	1.77	1.13
22:DB:1140:A:H2	22:DB:2549:G:H4'	1.10	1.13
22:DB:648:A:C2	33:DM:109:LEU:CD2	2.31	1.13
22:DB:1834:G:O4'	24:DD:244:ARG:HG3	1.49	1.13
23:DA:93:G:H5'	34:DN:22:ALA:HA	1.30	1.13
22:FB:2533:U:O3'	22:FB:2534:U:P	2.05	1.13
38:FR:43:ALA:HA	39:FS:75:LYS:HB2	1.17	1.13
1:GA:946:A:O3'	13:GM:114:ARG:NE	1.82	1.13
1:IA:1393:U:O3'	1:IA:1394:A:P	2.07	1.13
1:IA:590:C:H5'	8:IH:30:ARG:HE	1.04	1.13
22:JB:16:G:C4'	48:J2:17:ASP:CB	1.99	1.13
22:JB:3876:A:OP2	53:J7:43:LYS:HE3	1.36	1.13
22:JB:592:G:H4'	38:JR:5:LYS:CD	1.77	1.13
22:JB:75:C:N4	45:JY:59:GLU:OE1	1.80	1.13
1:AA:668:G:OP1	15:AO:48:LYS:CD	1.93	1.12
1:AA:759:A:N6	17:AQ:98:LEU:HD12	1.55	1.12
1:AA:958:A:C6	19:AS:56:GLN:CG	2.31	1.12
23:BA:105:G:H4'	43:BW:92:VAL:N	1.32	1.12
22:BB:2725:C:C5'	28:BH:143:GLN:N	2.12	1.12
1:CA:111:G:C5'	16:CP:27:LYS:HG2	1.78	1.12
1:CA:403:C:P	4:CD:137:SER:OG	2.06	1.12
1:CA:1228:C:H4'	13:CM:118:ALA:C	1.45	1.12
22:DB:2470:U:O2	22:DB:2548:G:O3'	1.67	1.12
1:EA:1073:U:H1'	2:EB:107:THR:HG21	1.31	1.12
1:EA:1189:C:C2'	3:EC:176:HIS:NE2	2.10	1.12
1:EA:1313:U:H3'	19:ES:6:LYS:HD3	1.13	1.12
9:EI:114:TYR:HB2	10:EJ:59:SER:O	1.48	1.12
3:EC:14:ILE:HD11	14:EN:57:ARG:HH11	1.14	1.12
22:FB:1469:U:C5	35:FO:60:LEU:HD13	1.83	1.12
22:FB:2209:G:O2'	47:F1:39:VAL:CG1	1.97	1.12
22:FB:2760:G:H4'	31:FK:149:LYS:HE2	1.29	1.12
22:FB:2786:G:O4'	25:FE:59:VAL:CG1	1.97	1.12
22:FB:1001:A:H5'	46:FZ:27:LYS:CE	1.79	1.12
27:DG:179:LYS:HD3	1:GA:1021:G:H4'	1.14	1.12
22:HB:3179:C:OP1	53:H7:38:GLY:HA2	0.95	1.12
22:HB:1746:A:H5'	37:HQ:126:LYS:OXT	1.46	1.12
22:HB:2862:G:N2	48:H2:30:LEU:HD22	1.61	1.12
32:HL:83:ARG:NH1	37:HQ:81:PHE:HD2	1.38	1.12
22:HB:2310:G:H5''	44:HX:71:ASN:O	1.49	1.12

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:IA:129(A):G:N7	17:IQ:63:ARG:HB3	1.49	1.12
22:JB:2056:C:H4'	24:JD:229:VAL:CA	1.79	1.12
22:JB:2366:U:O2'	44:JX:16:SER:HB3	0.96	1.12
23:JA:15:A:P	44:JX:53:MET:HE2	1.83	1.12
1:AA:1092:A:H4'	7:AG:4:ARG:CD	1.54	1.12
1:AA:1350:A:OP1	9:AI:121:ARG:NE	1.81	1.12
10:AJ:65:LEU:HD13	14:AN:56:VAL:CG2	1.78	1.12
22:BB:1044:U:O4	52:B6:15:LYS:HG2	0.98	1.12
22:BB:2008:C:C1'	31:BK:103:TYR:CZ	2.30	1.12
1:CA:6:G:O6	5:CE:95:ALA:CB	1.97	1.12
1:CA:735:C:OP1	18:CR:68:LYS:CE	1.96	1.12
1:CA:16:A:O2'	5:CE:16:THR:CB	1.96	1.12
22:DB:1173:G:O4'	39:DS:22:VAL:HG12	1.49	1.12
1:EA:1114:C:C2'	14:EN:61:TRP:HB3	1.79	1.12
1:EA:633:G:C5'	17:EQ:28:PRO:HG2	1.79	1.12
38:FR:45:TYR:CA	39:FS:76:SER:OG	1.95	1.12
22:FB:24:G:H4'	40:FT:98:ASP:HB3	1.25	1.12
1:GA:108:G:C6	20:GT:15:ARG:CD	2.32	1.12
22:HB:2328:G:P	51:H5:41:ILE:HD12	1.87	1.12
22:HB:1582:A:C4	24:HD:211:ARG:HG3	1.85	1.12
22:HB:811:G:N7	26:HF:56:ARG:CZ	2.11	1.12
22:HB:2358:C:H5'	36:HP:19:THR:OG1	1.46	1.12
34:HN:62:GLY:HA3	43:HW:110:GLY:HA2	1.26	1.12
1:IA:707:C:C5'	11:IK:85:ARG:NH1	2.01	1.12
22:JB:402:A:C6	22:JB:2392:G:H4'	1.84	1.12
22:JB:3187:U:C5'	29:JI:11:LEU:HD23	1.79	1.12
22:JB:2001:G:H1'	38:JR:33:ARG:HD3	1.21	1.12
1:AA:958:A:N1	19:AS:56:GLN:CG	2.10	1.12
1:AA:518:C:C4'	12:AL:50:SER:H	1.62	1.12
1:AA:760:G:H1'	17:AQ:98:LEU:HB3	1.30	1.12
1:CA:597:G:H2'	8:CH:94:TYR:CE1	1.85	1.12
22:DB:872:G:H1'	22:DB:2247:A:C2	1.84	1.12
22:DB:2793:G:OP2	35:DO:42:LYS:HE3	1.46	1.12
22:DB:934:G:C1'	44:DX:23:VAL:HG21	1.78	1.12
1:EA:1055:A:C2	3:EC:156:ARG:CD	2.28	1.12
22:FB:410:A:H5''	47:F1:58:LYS:HE2	1.27	1.12
22:FB:2752:C:C1'	25:FE:166:THR:HG21	1.79	1.12
22:FB:63:A:H4'	41:FU:71:GLN:HE21	1.09	1.12
22:HB:1816:G:C2	24:HD:252:LYS:HD3	1.79	1.12
22:HB:575:U:N3	39:HS:79:GLN:OE1	1.81	1.12
22:HB:761:G:C3'	40:HT:111:ARG:N	2.11	1.12

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:HB:891:A:H2	22:HB:893:G:C2	1.66	1.12
22:HB:1148:G:O2'	31:HK:134:MET:SD	2.04	1.12
3:IC:23:TYR:CZ	10:IJ:93:GLY:O	2.01	1.12
1:IA:1321:C:H5'	13:IM:87:TYR:CD2	1.80	1.12
13:IM:86:CYS:HA	19:IS:74:PHE:CB	1.79	1.12
22:JB:2283:G:H4'	27:JG:130:LEU:HD22	1.28	1.12
38:JR:87:ASN:HD22	39:JS:50:ASP:CB	1.60	1.12
22:JB:489:A:H5'	42:JV:75:ALA:CB	1.79	1.12
22:BB:1044:U:OP2	52:B6:9:LYS:CG	1.96	1.12
22:BB:1045:G:H4'	52:B6:18:ARG:NE	1.64	1.12
22:BB:1338:G:N3	40:BT:107:ILE:HG21	1.65	1.12
22:BB:1461:C:H1'	22:BB:1561:A:O2'	1.45	1.12
25:BE:176:ARG:CZ	37:BQ:16:ILE:HA	1.77	1.12
1:CA:1374:A:O2'	7:CG:28:ASN:C	1.87	1.12
1:CA:1383:C:C5'	7:CG:79:ARG:HH22	1.61	1.12
1:CA:349:A:O2'	20:CT:8:ARG:NE	1.82	1.12
22:DB:2653:A:H4'	32:DL:42:LYS:CG	1.79	1.12
22:DB:574:C:H5	39:DS:79:GLN:CD	1.50	1.12
22:DB:967:G:H5''	34:DN:76:THR:O	1.27	1.12
22:DB:2551:A:C6	25:DE:144:ARG:CB	2.32	1.12
22:DB:1292:A:H4'	35:DO:33:ARG:HD2	1.27	1.12
32:DL:91:PHE:HA	37:DQ:79:ARG:CZ	1.79	1.12
22:DB:1239:A:OP1	39:DS:73:LYS:HG2	1.49	1.12
22:FB:1586:A:N7	22:FB:1587:A:C5	2.17	1.12
22:FB:2040:A:C2	48:F2:2:ALA:CA	2.33	1.12
22:FB:2056:C:H4'	24:FD:228:PRO:O	1.47	1.12
22:FB:2773:G:C5	22:FB:2780:A:N3	2.17	1.12
22:FB:3866:A:N1	53:F7:196:VAL:HG13	1.64	1.12
10:GJ:65:LEU:HA	14:GN:56:VAL:CA	1.80	1.12
22:HB:1630:A:N6	40:HT:114:ALA:HB1	1.57	1.12
22:HB:506:G:H1'	40:HT:82:ASN:HA	1.27	1.12
22:HB:543:G:H4'	38:HR:42:ALA:HB2	1.16	1.12
1:IA:1107:C:H4'	3:IC:150:LYS:NZ	1.63	1.12
1:IA:538:G:C8	12:IL:115:LYS:NZ	2.17	1.12
1:IA:128:G:O3'	17:IQ:62:SER:O	1.65	1.12
22:JB:226:C:H2'	22:JB:2373:C:H1'	1.12	1.12
22:JB:846:A:C8	33:JM:53:ARG:NH1	2.16	1.12
1:AA:836:G:OP2	18:AR:61:LYS:NZ	1.82	1.12
22:BB:1044:U:H3'	52:B6:16:VAL:HG22	1.23	1.12
22:BB:2372:A:O2'	33:BM:60:LEU:N	1.81	1.12
22:BB:613:A:N6	33:BM:97:ARG:HD2	1.63	1.12

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:DA:93:G:H5'	34:DN:22:ALA:CB	1.78	1.12
22:DB:1142:G:O6	31:DK:105:GLY:CA	1.97	1.12
22:DB:1829:C:H1'	22:DB:1911:A:H1'	1.30	1.12
1:EA:407:G:O2'	4:ED:116:GLN:CD	1.87	1.12
1:EA:188:C:N4	20:ET:105:SER:OG	1.81	1.12
22:FB:231:G:C5	51:F5:4:MET:HG2	1.83	1.12
22:FB:1240:G:P	38:FR:16:LYS:CG	2.34	1.12
22:FB:2463:G:O2'	34:FN:121:LEU:CA	1.97	1.12
1:GA:1240:U:P	7:GG:115:ARG:CG	2.36	1.12
1:GA:1367:C:C5	9:GI:112:LYS:NZ	2.17	1.12
22:HB:1019:U:C4'	38:HR:59:ARG:HH21	1.61	1.12
22:HB:494:A:N3	42:HV:56:LYS:HG3	1.63	1.12
22:HB:71:A:N7	45:HY:58:ALA:HB2	1.50	1.12
1:IA:752:G:H5''	15:IO:69:TYR:HE1	1.03	1.12
1:IA:22:G:O2'	1:IA:913:A:N1	1.80	1.12
1:IA:1060:C:OP2	3:IC:2:GLY:HA3	1.49	1.12
1:IA:1380:U:C5	7:IG:3:ARG:HG2	1.83	1.12
1:IA:134:A:N6	16:IP:25:ARG:HH22	1.37	1.12
22:JB:1166:A:N6	46:JZ:7:ARG:CZ	1.93	1.12
22:JB:1202:U:C2	39:JS:80:TYR:OH	2.02	1.12
22:JB:1791:C:H5''	24:JD:147:LEU:HD13	1.19	1.12
1:AA:690:G:N7	11:AK:51:LYS:NZ	1.97	1.12
1:AA:1349:A:OP1	9:AI:120:ARG:CB	1.95	1.12
1:AA:973:G:H4'	14:AN:41:ARG:NH2	1.65	1.12
22:BB:1143:A:C4'	31:BK:111:LYS:HD2	1.57	1.12
22:BB:677:G:C1'	22:BB:951:G:H5'	1.80	1.12
22:BB:677:G:O4'	22:BB:951:G:H5'	1.46	1.12
22:BB:625:A:H5'	26:BF:38:ARG:HD3	1.30	1.12
22:BB:2724:G:O2'	28:BH:143:GLN:HA	0.96	1.12
22:BB:2464:G:O2'	34:BN:123:GLY:CA	1.97	1.12
25:BE:18:ASP:HA	37:BQ:87:LEU:HD13	1.18	1.12
22:BB:2364:C:O2	44:BX:69:PHE:HE1	1.26	1.12
1:CA:546:G:C2	4:CD:2:GLY:CA	2.33	1.12
1:CA:1102:A:C2	2:CB:108:ILE:HD11	1.83	1.12
1:EA:1060:C:P	3:EC:2:GLY:CA	2.35	1.12
1:EA:1114:C:C1'	14:EN:60:SER:O	1.97	1.12
1:EA:586:C:O2'	8:EH:89:PRO:HG2	1.49	1.12
1:EA:958:A:C1'	19:ES:55:LYS:HZ3	1.62	1.12
22:FB:2396:C:OP1	51:F5:44:LYS:HE3	1.44	1.12
22:FB:337:G:O2'	42:FV:9:HIS:CG	2.01	1.12
22:FB:589:C:OP1	38:FR:33:ARG:HG3	1.45	1.12

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:FB:2600:A:C1'	25:FE:158:GLY:HA2	1.77	1.12
22:FB:2600:A:O4'	25:FE:158:GLY:HA3	1.48	1.12
40:FT:60:ILE:HG22	48:F2:25:LEU:CG	1.74	1.12
43:FW:85:MET:O	43:FW:91:PRO:CB	1.95	1.12
1:GA:1249:C:O2'	9:GI:69:GLY:HA2	1.33	1.12
1:GA:132:C:H5'	20:GT:74:LYS:HZ3	1.06	1.12
1:GA:1373:G:C5'	7:GG:36:LYS:N	2.10	1.12
22:HB:124:A:H62	50:H4:45:SER:CB	1.63	1.12
22:HB:2064:U:P	47:H1:33:VAL:CG1	2.38	1.12
22:HB:2861:A:H1'	48:H2:33:CYS:CA	1.68	1.12
22:HB:94:C:H2'	45:HY:41:HIS:ND1	0.94	1.12
22:HB:2311:U:OP2	44:HX:51:VAL:HG23	1.50	1.12
1:IA:670:G:H21	6:IF:77:ARG:NH1	1.48	1.12
1:IA:922:G:O2'	5:IE:19:MET:SD	2.07	1.12
22:JB:1885:C:O3'	24:JD:242:ALA:HA	1.49	1.12
43:JW:48:THR:HG22	43:JW:130:ILE:HD13	1.16	1.12
1:AA:1381:U:C5	7:AG:77:SER:O	2.03	1.12
1:AA:740:U:H1'	15:AO:42:HIS:NE2	1.61	1.12
34:BN:36:ILE:CG1	43:BW:74:ARG:CZ	2.26	1.12
1:CA:1188:A:O3'	10:CJ:61:GLU:OE2	1.64	1.12
22:DB:1135:C:O2'	52:D6:4:ARG:C	1.81	1.12
22:DB:1111:C:C1'	28:DH:168:GLN:NE2	2.13	1.12
22:DB:2292:C:O3'	27:DG:88:LYS:HD3	1.50	1.12
22:DB:886:A:H5'	43:DW:118:HIS:CE1	1.84	1.12
22:DB:6:A:HO2'	31:DK:161:GLN:HA	0.99	1.12
34:DN:36:ILE:HG13	43:DW:74:ARG:HA	1.24	1.12
1:EA:438:G:H5''	4:ED:125:HIS:NE2	1.62	1.12
6:EF:48:LEU:HD22	18:ER:78:LEU:N	1.62	1.12
22:FB:1290:A:H2	35:FO:27:ALA:HB2	1.09	1.12
22:FB:1629:G:O4'	50:F4:3:ARG:CD	1.96	1.12
22:FB:2039:G:H21	48:F2:3:LYS:N	1.45	1.12
22:FB:2462:C:O2'	34:FN:50:ALA:HB3	1.42	1.12
43:FW:51:LEU:HB3	43:FW:128:ARG:HH22	1.05	1.12
1:GA:230:G:H4'	16:GP:26:ARG:NH2	1.64	1.12
1:GA:264:U:O2'	17:GQ:63:ARG:O	1.68	1.12
22:HB:1998:A:H62	48:H2:7:PRO:CG	1.60	1.12
26:HF:28:HIS:CE1	33:HM:18:ARG:HH11	1.67	1.12
22:HB:505:G:H21	40:HT:80:LEU:HB3	1.06	1.12
22:JB:474:G:H22	50:J4:12:ARG:NE	1.48	1.12
22:JB:530:G:C1'	40:JT:94:GLU:CD	2.17	1.12
22:JB:1820:G:N1	24:JD:221:GLN:CG	2.13	1.12

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1307:U:H4'	13:AM:109:THR:CG2	1.79	1.12
1:AA:273:A:H2'	17:AQ:15:MET:HA	1.31	1.12
23:BA:105:G:C5'	43:BW:92:VAL:HG22	1.78	1.12
1:CA:932:C:C5'	7:CG:3:ARG:CD	2.12	1.12
23:DA:92:G:H1	34:DN:39:GLU:HG3	0.98	1.12
22:DB:2432:A:O4'	22:DB:2551:A:O2'	1.67	1.12
34:DN:27:TYR:CE2	43:DW:73:LYS:HA	1.85	1.12
34:DN:99:LYS:CB	43:DW:73:LYS:HG2	1.78	1.12
1:EA:1456:A:H5''	20:ET:28:ALA:HB2	1.28	1.12
22:FB:124:A:H5'	50:F4:19:ARG:NE	1.63	1.12
22:FB:6:A:C2	31:FK:162:LYS:CE	2.28	1.12
22:FB:1175:A:H4'	39:FS:89:ASN:ND2	1.65	1.12
22:HB:2652:G:O2'	32:HL:42:LYS:HG2	1.47	1.12
22:HB:824:U:OP2	33:HM:31:GLY:O	1.65	1.12
22:HB:2462:C:H1'	34:HN:50:ALA:CB	1.77	1.12
10:IJ:64:GLU:HG2	14:IN:59:ALA:HA	1.29	1.12
22:JB:410:A:O3'	47:J1:58:LYS:HD3	1.46	1.12
22:JB:53:G:O2'	50:J4:35:ARG:HD3	1.31	1.12
29:JI:46:LEU:CD1	53:J7:216:LYS:NZ	2.12	1.12
22:JB:1628:C:C4'	50:J4:6:GLN:HA	1.79	1.12
22:BB:1071:U:OP1	30:BJ:75:SER:HB2	1.46	1.12
22:BB:1397:A:C2	22:BB:1418:C:C4	2.37	1.12
22:BB:1236:G:H1	39:BS:73:LYS:HG3	1.15	1.12
22:BB:492:G:H5'	42:BV:3:ARG:HH11	0.97	1.12
22:BB:869:C:H4'	44:BX:57:HIS:N	1.53	1.12
1:CA:436:C:O2	4:CD:157:LEU:HD13	1.50	1.12
1:CA:587:G:H5''	8:CH:3:THR:O	1.40	1.12
23:DA:107:C:H5''	43:DW:88:TYR:C	1.70	1.12
22:DB:1583:A:N9	24:DD:84:TYR:CD1	2.17	1.12
22:DB:2494:C:C5'	31:DK:108:GLY:CA	2.22	1.12
22:DB:2448:A:H1'	34:DN:57:ARG:CD	1.79	1.12
1:EA:1298:C:C5	7:EG:114:ARG:HG2	1.84	1.12
1:EA:632:A:N3	17:EQ:30:PRO:CB	2.13	1.12
22:FB:2399:C:C5	51:F5:31:HIS:CA	2.25	1.12
22:FB:2399:C:C3'	51:F5:32:GLN:CB	2.12	1.12
22:FB:29:U:H4'	38:FR:8:ILE:HB	1.22	1.12
22:FB:892:A:N6	22:FB:912:A:C2	2.18	1.12
22:FB:3093:C:C5'	29:FI:21:LYS:C	2.16	1.12
22:FB:1041:G:C5'	34:FN:119:PHE:HE2	1.58	1.12
34:FN:27:TYR:CG	43:FW:73:LYS:CB	2.31	1.12
1:GA:236:G:C4'	17:GQ:25:ARG:CZ	2.03	1.12

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:HB:2558:C:O2'	25:HE:132:LYS:CE	1.98	1.12
22:HB:3093:C:O4'	22:HB:2181:A:N1	1.83	1.12
22:HB:539:A:O3'	22:HB:540:G:P	2.08	1.12
22:HB:2448:A:H1'	34:HN:57:ARG:CD	1.68	1.12
1:IA:1373:G:H5'	7:IG:36:LYS:H	1.10	1.12
1:IA:707:C:C5'	11:IK:85:ARG:NH2	2.11	1.12
22:JB:2397:A:OP1	51:J5:41:ILE:HD13	1.49	1.12
22:JB:2722:C:C6	52:J6:35:ARG:NH2	2.17	1.12
22:JB:1197:U:C5'	46:JZ:26:ARG:NH2	2.11	1.12
22:JB:489:A:C5'	42:JV:75:ALA:HB2	1.80	1.12
22:JB:616:U:OP1	26:JF:97:ARG:HG3	1.45	1.12
22:JB:2701:A:C2	35:JO:6:ALA:HB2	1.85	1.12
23:JA:10:U:C5'	36:JP:28:ARG:NH1	2.12	1.12
1:AA:1131:G:C5'	9:AI:2:GLU:CG	2.28	1.12
1:AA:1257:U:OP1	3:AC:27:LYS:NZ	1.82	1.12
22:BB:2365:U:H5'	44:BX:39:ARG:NH1	1.63	1.12
25:BE:19:ARG:HD2	37:BQ:86:PRO:HD2	1.32	1.12
1:CA:1075:C:H5'	2:CB:103:THR:HG22	1.15	1.12
1:CA:735:C:OP1	18:CR:68:LYS:HE2	1.50	1.12
23:DA:107:C:H5'	43:DW:88:TYR:HB3	1.14	1.12
22:DB:865:A:O4'	46:DZ:39:ALA:CA	1.81	1.12
9:EI:111:ARG:NH1	14:EN:61:TRP:OXT	1.81	1.12
49:F3:24:THR:O	51:F5:35:GLY:CA	0.82	1.12
22:FB:3875:A:H5''	53:F7:43:LYS:HD2	1.27	1.12
22:FB:1746:A:H5'	37:FQ:126:LYS:C	1.70	1.12
22:FB:979:A:H4'	46:FZ:13:PRO:HB2	1.17	1.12
22:FB:828:C:H5'	39:FS:86:HIS:CE1	1.81	1.12
43:FW:51:LEU:CG	43:FW:128:ARG:NH2	2.12	1.12
22:HB:1998:A:N6	48:H2:7:PRO:HD3	1.60	1.12
22:HB:699:G:H2'	50:H4:5:TYR:C	1.69	1.12
1:IA:1115:C:C6	14:IN:61:TRP:HB2	1.84	1.12
1:IA:1188:A:H5'	9:II:114:TYR:CZ	1.85	1.12
1:IA:740:U:H5'	15:IO:35:ARG:NH1	1.65	1.12
22:JB:219:G:C4	51:J5:4:MET:N	2.14	1.12
23:JA:14:C:C6	44:JX:53:MET:HA	1.78	1.12
22:JB:1074:G:N3	30:JJ:88:SER:CB	2.12	1.12
22:JB:1200:G:C2'	39:JS:83:ARG:NH2	2.07	1.12
22:JB:2558:C:C5'	25:JE:132:LYS:CG	2.27	1.12
1:AA:1471:G:OP1	32:BL:17:ARG:CD	1.97	1.11
1:AA:273:A:N3	17:AQ:15:MET:HB3	1.64	1.11
1:AA:1239:A:C3'	7:AG:115:ARG:CG	2.26	1.11

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:BB:1047:G:O3'	22:BB:1048:U:P	2.08	1.11
22:BB:1109:A:O2'	30:BJ:7:ILE:HD11	0.95	1.11
22:BB:1401:G:C2	22:BB:1413:U:N3	2.18	1.11
22:BB:221:A:OP1	33:BM:67:ASN:ND2	1.82	1.11
22:BB:2364:C:O2	44:BX:69:PHE:CE1	2.02	1.11
1:CA:18:C:P	5:CE:14:ARG:HH12	1.70	1.11
6:CF:49:ALA:HB2	18:CR:79:LEU:HA	1.15	1.11
22:DB:2328:G:OP2	51:D5:41:ILE:HD12	0.94	1.11
22:DB:177:U:O4'	47:D1:30:GLU:O	1.68	1.11
22:DB:704:G:H5'	24:DD:218:LYS:NZ	1.53	1.11
23:DA:44:C:H4'	27:DG:64:LYS:HG3	1.18	1.11
22:FB:3875:A:C5'	53:F7:43:LYS:CD	2.26	1.11
25:FE:18:ASP:OD1	32:FL:85:ASP:CA	1.96	1.11
32:FL:91:PHE:CD1	37:FQ:79:ARG:HD2	1.84	1.11
10:GJ:49:VAL:HG21	14:GN:45:ARG:HA	1.16	1.11
1:GA:449:C:H1'	16:GP:42:ARG:NH2	1.58	1.11
1:GA:274:A:OP1	17:GQ:14:LYS:HE3	1.46	1.11
1:GA:264:U:O2'	17:GQ:64:PRO:C	1.89	1.11
22:HB:2062:U:O2'	47:H1:32:HIS:ND1	1.83	1.11
22:HB:2760:G:C1'	31:HK:149:LYS:HD2	1.78	1.11
22:HB:494:A:C1'	42:HV:56:LYS:HB3	1.69	1.11
22:HB:4:C:O2	22:HB:2874:A:N1	1.83	1.11
22:HB:57:G:C2'	22:HB:72:A:N6	2.12	1.11
1:IA:1379:G:N7	7:IG:2:ALA:O	1.82	1.11
1:IA:707:C:H5'	11:IK:85:ARG:NH2	1.65	1.11
1:IA:641:U:C5'	8:IH:116:LYS:HB3	1.53	1.11
22:JB:2209:G:O3'	47:J1:39:VAL:HA	1.41	1.11
22:JB:465:C:O2	50:J4:39:ARG:CD	1.97	1.11
22:JB:2510:A:C5'	28:JH:174:GLY:O	1.95	1.11
22:JB:348:U:O3'	42:JV:13:LYS:HD2	1.48	1.11
22:JB:1149:G:OP1	31:JK:132:PHE:CE1	2.03	1.11
20:AT:100:ILE:HA	1:GA:179:A:C2	1.83	1.11
22:BB:1401:G:C2	22:BB:1413:U:C2	2.38	1.11
25:BE:176:ARG:NH2	37:BQ:19:ASP:OD2	1.81	1.11
32:BL:113:PRO:HG3	37:BQ:76:GLY:N	1.59	1.11
1:CA:1074:G:O2'	2:CB:103:THR:O	1.67	1.11
1:CA:644:G:O2'	8:CH:90:GLY:HA2	1.49	1.11
1:CA:953:G:H22	13:CM:120:LYS:CB	1.63	1.11
1:CA:488:C:H4'	4:CD:131:ARG:HD3	1.32	1.11
22:DB:1007:A:H4'	38:DR:93:LYS:N	1.57	1.11
22:DB:1673:C:O3'	25:DE:136:ARG:CB	1.82	1.11

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:DB:2658:A:O2'	25:DE:188:ILE:N	1.80	1.11
22:DB:1072:U:N3	30:DJ:10:LEU:O	1.81	1.11
1:EA:1392:G:C5'	1:EA:1531:A:OP1	1.98	1.11
22:FB:409:G:H5'	47:F1:10:VAL:HG11	1.17	1.11
22:FB:8:A:H5''	31:FK:79:PHE:CZ	1.83	1.11
22:HB:2399:C:P	51:H5:32:GLN:CB	2.31	1.11
22:HB:628:A:OP1	26:HF:100:ARG:NH1	1.82	1.11
22:HB:648:A:H5''	33:HM:131:LYS:HZ1	1.03	1.11
1:IA:186:C:C4'	20:IT:81:LYS:HE2	1.79	1.11
22:JB:1998:A:C2'	48:J2:3:LYS:CB	1.78	1.11
22:JB:230:C:H41	51:J5:4:MET:CE	1.61	1.11
22:JB:1810:U:N3	24:JD:154:GLN:HG2	1.18	1.11
22:JB:2722:C:C6	52:J6:35:ARG:CZ	2.32	1.11
22:JB:3166:G:H3'	53:J7:98:ARG:N	1.63	1.11
22:JB:673:G:P	26:JF:93:TYR:CA	2.38	1.11
22:JB:2850:U:O4'	37:JQ:13:LEU:CD1	1.98	1.11
23:BA:107:C:O3'	43:BW:89:GLY:HA3	1.46	1.11
22:BB:2814:G:H5''	35:BO:46:PRO:HA	1.26	1.11
22:BB:597:U:H5'	33:BM:28:LYS:CD	1.76	1.11
4:CD:204:ILE:CG2	5:CE:101:ILE:HD11	1.80	1.11
1:CA:740:U:OP1	15:CO:35:ARG:NH2	1.82	1.11
1:CA:742:G:H5'	15:CO:58:MET:CE	1.79	1.11
22:DB:1176:U:C2	22:DB:1198:C:O2	2.03	1.11
22:DB:2725:C:H4'	28:DH:141:VAL:CG2	1.79	1.11
22:DB:2745:A:O2'	22:DB:2746:G:H5'	1.48	1.11
7:EG:16:LEU:CG	9:EI:41:VAL:O	1.97	1.11
1:EA:538:G:O3'	12:EL:114:LYS:HB3	1.44	1.11
22:FB:409:G:H4'	47:F1:39:VAL:HG11	1.13	1.11
22:FB:2786:G:O4'	25:FE:59:VAL:HG13	1.47	1.11
27:FG:38:GLU:H	27:FG:87:ILE:HG12	1.14	1.11
27:DG:179:LYS:HD3	1:GA:1021:G:C4'	1.76	1.11
1:GA:1226:C:H41	13:GM:104:ARG:CB	1.62	1.11
1:GA:824:C:H1'	8:GH:2:LEU:CD2	1.79	1.11
1:IA:538:G:N7	12:IL:115:LYS:NZ	1.98	1.11
1:IA:588:G:P	8:IH:31:PHE:CZ	2.41	1.11
1:IA:826:C:C5'	8:IH:12:ARG:HG2	1.80	1.11
1:IA:1349:A:H5''	9:II:121:ARG:NH2	1.63	1.11
12:IL:16:GLU:O	12:IL:17:LYS:N	1.83	1.11
22:JB:2000:U:C4'	48:J2:8:LYS:NZ	2.12	1.11
22:JB:46:C:N4	22:JB:156:G:H1	1.45	1.11
22:JB:1999:U:O2	48:J2:7:PRO:CD	1.98	1.11

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:JB:592:G:O2'	38:JR:5:LYS:HE3	1.22	1.11
22:JB:884:C:H5''	34:JN:70:PHE:CZ	1.85	1.11
22:JB:320:A:H2'	42:JV:25:LEU:HD13	1.23	1.11
1:AA:622:A:OP2	4:AD:139:ARG:NH2	1.83	1.11
22:BB:1401:G:N1	22:BB:1413:U:N3	1.95	1.11
25:BE:181:LEU:CD2	37:BQ:12:LEU:CG	2.27	1.11
1:CA:815:A:C5	1:CA:1529:G:C4	2.37	1.11
1:CA:981:U:O2'	14:CN:31:ARG:NH1	1.84	1.11
22:DB:1162:A:N3	38:DR:78:THR:HG21	1.65	1.11
22:DB:2394:G:C4'	33:DM:64:GLY:HA2	1.79	1.11
32:DL:113:PRO:HD3	37:DQ:75:GLU:HB3	1.14	1.11
1:EA:1100:C:N4	2:EB:144:ARG:HH22	1.47	1.11
1:EA:691:G:H8	11:EK:26:ASN:ND2	1.48	1.11
1:EA:1190:G:H4'	3:EC:176:HIS:HE1	1.04	1.11
6:EF:49:ALA:CB	18:ER:79:LEU:HA	1.80	1.11
22:FB:1234:C:H5''	39:FS:68:LYS:NZ	1.64	1.11
22:FB:2614:A:C5'	25:FE:78:LEU:N	1.80	1.11
22:FB:63:A:C2'	41:FU:70:GLY:C	2.02	1.11
1:GA:18:C:H4'	5:GE:130:ASN:ND2	1.65	1.11
22:HB:2489:C:H4'	25:HE:126:PRO:CD	1.79	1.11
22:HB:869:C:H4'	44:HX:57:HIS:N	1.56	1.11
1:IA:1319:A:OP1	19:IS:5:LEU:CD2	1.92	1.11
1:IA:1321:C:H5''	13:IM:87:TYR:CD2	1.80	1.11
1:IA:134:A:C6	16:IP:25:ARG:NH1	2.18	1.11
1:IA:392:G:OP1	16:IP:11:SER:O	1.68	1.11
1:IA:825:G:H21	8:IH:11:THR:CG2	1.64	1.11
22:JB:115:G:O3'	50:J4:22:MET:CE	1.97	1.11
22:JB:969:U:C5	34:JN:21:ASP:CB	2.30	1.11
1:AA:509:A:N9	4:AD:54:TYR:CE2	2.18	1.11
1:AA:740:U:O4'	15:AO:42:HIS:ND1	1.83	1.11
1:AA:815:A:C2	1:AA:1528:U:O4'	2.01	1.11
22:BB:1050:G:C4'	43:BW:37:LYS:CE	2.18	1.11
1:CA:335:C:H5'	1:CA:1434:A:O2'	1.48	1.11
1:CA:1348:U:OP2	9:CI:109:VAL:HA	1.51	1.11
22:DB:2710:C:C2'	25:DE:169:ASN:HB3	1.79	1.11
1:EA:1312:G:N7	19:ES:4:SER:OG	1.83	1.11
1:EA:1344:C:O4'	9:EI:121:ARG:NH1	1.84	1.11
1:EA:537:G:OP1	12:EL:113:ARG:NH2	1.84	1.11
22:FB:1531:C:C2'	22:FB:1572:C:H1'	1.81	1.11
23:FA:116:C:O4'	36:FP:50:THR:HG21	1.40	1.11
22:FB:23:G:C1'	40:FT:96:TYR:HE2	1.62	1.11

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:GA:230:G:H5''	16:GP:26:ARG:HH21	1.07	1.11
22:HB:3126:A:H5''	53:H7:26:PHE:HE1	1.15	1.11
22:HB:631:G:C2'	33:HM:101:ARG:NH2	2.14	1.11
22:HB:1019:U:O2'	38:HR:59:ARG:CD	1.99	1.11
3:IC:26:LYS:HE3	10:IJ:95:GLU:HG3	1.18	1.11
1:IA:922:G:C1'	5:IE:19:MET:SD	2.37	1.11
1:IA:449:C:H5''	16:IP:43:LYS:HB3	1.22	1.11
22:JB:53:G:H4'	50:J4:36:ALA:HB2	1.31	1.11
1:AA:877:C:C2	8:AH:3:THR:CB	2.32	1.11
22:BB:227:G:H4'	33:BM:55:ARG:NE	1.02	1.11
1:CA:126:G:N2	17:CQ:4:LYS:CE	2.13	1.11
1:CA:1396:A:C2	5:CE:19:MET:HE3	1.73	1.11
1:CA:277:C:C5'	17:CQ:43:LEU:CD1	2.28	1.11
1:EA:529:G:C2	12:EL:51:ALA:HB2	1.85	1.11
1:EA:377:G:OP1	16:EP:5:ARG:HD3	1.48	1.11
22:FB:2040:A:O2'	48:F2:3:LYS:HG2	1.49	1.11
22:FB:2637:C:H3'	28:FH:179:THR:HG23	1.17	1.11
22:FB:643:A:C2	22:FB:2382:C:H1'	1.85	1.11
1:GA:541:G:N3	4:GD:43:HIS:NE2	1.99	1.11
22:HB:2337:A:C2'	51:H5:52:LYS:HZ3	1.63	1.11
22:HB:2487:G:H5''	22:HB:2534:U:H5'	1.33	1.11
1:IA:1223:C:P	19:IS:78:ARG:NH2	2.22	1.11
1:IA:261:U:C5	20:IT:79:ARG:CZ	2.32	1.11
22:JB:1780:A:OP1	24:JD:222:ARG:HA	1.49	1.11
22:JB:71:A:N1	45:JY:57:LYS:C	2.02	1.11
1:AA:190:A:H5'	1:GA:187:G:H22	0.97	1.11
1:AA:272:C:N3	17:AQ:16:GLN:NE2	1.79	1.11
1:AA:1343:G:H4'	9:AI:122:ALA:HB3	1.18	1.11
22:BB:331:U:O4	26:BF:134:ILE:HD11	1.50	1.11
22:BB:2646:C:C1'	28:BH:111:HIS:CG	2.20	1.11
1:CA:135:C:O2	16:CP:1:MET:N	1.83	1.11
22:DB:1042:G:H5'	52:D6:8:LYS:NZ	1.63	1.11
22:DB:2490:U:H5'	25:DE:122:PHE:CE1	1.82	1.11
22:DB:2290:A:O2'	27:DG:79:LEU:HD11	1.50	1.11
22:DB:2181:A:C1'	29:DI:24:TYR:CD2	2.26	1.11
1:EA:1103:C:O2	2:EB:111:ARG:CG	1.98	1.11
22:FB:1289:A:H2	35:FO:23:ALA:O	0.76	1.11
22:FB:346:C:N1	42:FV:79:SER:HA	1.63	1.11
1:GA:1225:A:C5'	13:GM:103:THR:N	2.00	1.11
1:GA:951:G:O2'	13:GM:126:LYS:CB	1.90	1.11
1:GA:718:G:C5	18:GR:81:PHE:CE2	2.38	1.11

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:GA:1320:C:C4'	19:GS:3:ARG:NH1	2.14	1.11
22:HB:636:G:H1	33:HM:97:ARG:CZ	1.62	1.11
22:HB:1041:G:H5''	34:HN:119:PHE:CZ	1.85	1.11
1:IA:1240:U:OP1	7:IG:115:ARG:HA	1.50	1.11
22:JB:1999:U:O2	48:J2:6:VAL:HB	1.34	1.11
22:JB:3167:U:H3'	53:J7:97:LYS:HE2	1.11	1.11
22:JB:1780:A:OP1	24:JD:221:GLN:O	1.68	1.11
22:JB:2399:C:O5'	51:J5:33:ASN:N	1.84	1.11
22:JB:543:G:H3'	38:JR:22:LYS:NZ	1.48	1.11
22:JB:1405:A:N6	41:JU:15:LYS:HE2	1.63	1.11
22:BB:1070:G:C4	30:BJ:126:THR:HG22	1.85	1.11
22:BB:2462:C:C2'	34:BN:50:ALA:HB1	1.58	1.11
22:BB:533:C:H5''	22:BB:550:C:O2'	1.49	1.11
1:CA:1374:A:O3'	7:CG:28:ASN:ND2	1.84	1.11
1:CA:666:G:N2	15:CO:52:SER:OG	1.83	1.11
22:DB:1746:A:P	37:DQ:124:VAL:HG21	1.90	1.11
22:DB:2725:C:H4'	28:DH:141:VAL:HG23	1.32	1.11
22:DB:868:U:H1'	44:DX:25:LYS:HD3	1.29	1.11
34:DN:66:TYR:HE1	43:DW:116:VAL:CA	1.63	1.11
1:EA:926:G:C5	1:EA:1502:A:C2	2.26	1.11
1:EA:407:G:C1'	4:ED:116:GLN:NE2	2.13	1.11
1:EA:188:C:H42	20:ET:105:SER:HA	1.02	1.11
22:FB:3866:A:N9	53:F7:195:LYS:HB2	1.66	1.11
22:FB:1516:A:N3	24:FD:98:ALA:HB1	1.64	1.11
22:FB:2614:A:C4'	25:FE:78:LEU:N	1.70	1.11
22:HB:2311:U:OP2	44:HX:51:VAL:CG2	1.98	1.11
22:HB:2463:G:H22	34:HN:120:ARG:HD3	0.96	1.11
22:HB:1325:U:H5	41:HU:61:LYS:HB2	1.14	1.11
43:HW:84:TYR:CE2	43:HW:128:ARG:NH1	2.18	1.11
1:IA:653:A:N6	8:IH:29:SER:CB	2.13	1.11
22:JB:3176:A:O2'	53:J7:164:GLN:CG	1.96	1.11
22:JB:922:A:H1'	22:JB:2244:C:H5'	1.32	1.11
34:JN:105:PHE:O	43:JW:115:ILE:CG2	1.97	1.11
1:AA:60:A:N7	20:AT:11:SER:HB2	1.64	1.11
22:BB:419:G:H5''	53:B7:198:THR:CG2	1.80	1.11
22:BB:1109:A:C3'	30:BJ:7:ILE:CD1	2.28	1.11
22:BB:1141:U:H3'	31:BK:107:GLN:CD	1.65	1.11
22:BB:1143:A:H2	31:BK:103:TYR:CB	1.63	1.11
22:BB:2723:C:O4'	28:BH:150:LYS:CD	1.99	1.11
22:BB:1805:G:C2	24:BD:52:ARG:NE	2.13	1.11
22:BB:37:C:O2'	26:BF:45:THR:CB	1.99	1.11

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:BB:596:C:C2'	33:BM:29:THR:CB	2.29	1.11
1:CA:280:C:C5	17:CQ:88:TYR:CZ	2.39	1.11
22:DB:2003:A:C5	48:D2:9:LYS:NZ	2.10	1.11
22:DB:2729:A:C2	52:D6:18:ARG:CZ	2.34	1.11
22:DB:2738:A:C1'	28:DH:64:LEU:CD1	1.97	1.11
22:DB:648:A:C2	33:DM:109:LEU:HD21	1.85	1.11
22:DB:907:U:H5''	43:DW:143:ILE:CD1	1.80	1.11
22:DB:2394:G:H5''	33:DM:63:ARG:HB3	1.22	1.11
43:DW:67:LYS:CA	43:DW:128:ARG:NH1	2.14	1.11
22:DB:917:U:O2	43:DW:166:LEU:HD11	1.49	1.11
43:DW:84:TYR:OH	43:DW:91:PRO:CG	1.99	1.11
22:FB:1018:C:O2'	31:FK:134:MET:HA	1.49	1.11
22:FB:2239:C:H41	44:FX:12:ASN:CB	1.64	1.11
22:FB:2370:G:O3'	22:FB:2371:A:P	2.08	1.11
22:FB:332:C:OP2	26:FF:129:LYS:O	1.67	1.11
22:FB:346:C:N3	42:FV:79:SER:CB	2.12	1.11
22:FB:504:G:H4'	40:FT:25:PHE:CE2	1.85	1.11
22:FB:2282:G:C1'	27:FG:129:ASN:OD1	1.99	1.11
1:GA:1392:G:H5'	1:GA:1531:A:P	1.89	1.11
1:GA:815:A:H2'	1:GA:1526:G:C2	1.84	1.11
22:HB:1376:C:C5	47:H1:3:LYS:CA	2.26	1.11
22:HB:2062:U:O3'	47:H1:32:HIS:CG	2.01	1.11
22:HB:71:A:C1'	45:HY:54:ASN:O	1.97	1.11
22:HB:71:A:O4'	45:HY:54:ASN:HB2	1.33	1.11
22:HB:71:A:O4'	45:HY:54:ASN:HB3	1.42	1.11
38:HR:101:ARG:NH2	39:HS:43:GLU:CD	2.04	1.11
1:IA:657:G:N3	15:IO:23:GLY:HA3	1.64	1.11
13:IM:89:GLY:O	13:IM:90:LEU:HB2	1.50	1.11
13:IM:82:MET:HA	13:IM:92:HIS:HD2	1.06	1.11
1:IA:450:G:H22	16:IP:13:HIS:CE1	1.68	1.11
22:JB:2823:G:H5'	37:JQ:103:LYS:CG	1.72	1.11
22:JB:567:G:H4'	31:JK:73:ASN:HA	1.22	1.11
22:JB:2541:U:O5'	32:JL:23:ARG:HD2	1.48	1.11
38:JR:47:TYR:HB2	39:JS:75:LYS:O	1.17	1.11
22:JB:312:G:C5'	42:JV:90:LYS:N	1.85	1.11
34:JN:61:ARG:HB2	43:JW:109:GLN:O	0.94	1.11
10:AJ:64:GLU:O	14:AN:56:VAL:CA	1.98	1.11
22:BB:1140:A:H2	22:BB:2549:G:H4'	1.03	1.11
22:BB:2310:G:H5'	44:BX:71:ASN:HA	1.11	1.11
1:CA:17:U:H5'	5:CE:16:THR:HB	1.32	1.11
22:DB:1007:A:O3'	38:DR:93:LYS:N	1.76	1.11

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:DB:1887:G:C5	22:DB:1888:C:C5	2.39	1.11
1:EA:1264:C:C5'	1:IA:1273:G:C2	2.32	1.11
22:FB:2350:G:O2'	49:F3:46:LYS:HA	1.48	1.11
22:FB:1018:C:H1'	31:FK:134:MET:CG	1.80	1.11
22:FB:1292:A:C5'	35:FO:33:ARG:HB3	1.64	1.11
22:FB:497:C:O2	40:FT:78:ASN:ND2	1.82	1.11
22:FB:2542:U:OP1	32:FL:25:LEU:HD22	1.49	1.11
1:GA:1060:C:OP1	10:GJ:59:SER:CB	1.99	1.11
1:GA:111:G:OP1	16:GP:27:LYS:HE3	1.48	1.11
1:GA:663:A:H4'	18:GR:64:ARG:HH12	1.05	1.11
1:GA:735:C:N1	18:GR:75:ILE:HD13	1.65	1.11
22:HB:759:C:C3'	48:H2:2:ALA:CB	1.80	1.11
22:HB:1483:G:O2'	22:HB:1484:G:C1'	1.99	1.11
22:HB:636:G:N1	33:HM:97:ARG:CZ	2.14	1.11
22:HB:1338:G:N7	40:HT:107:ILE:HG23	1.63	1.11
1:IA:129(A):G:C2'	17:IQ:63:ARG:HH11	1.47	1.11
1:IA:1328:C:OP1	13:IM:28:ALA:HB2	1.49	1.11
1:IA:766:A:N6	1:IA:1511:G:H1'	1.65	1.11
1:IA:1206:G:H4'	3:IC:193:TYR:HA	1.17	1.11
22:JB:3168:G:C5	53:J7:101:LYS:CE	2.30	1.11
22:JB:1807:A:H4'	24:JD:63:ARG:NH1	1.63	1.11
22:JB:1468:A:N6	35:JO:80:MET:CG	2.13	1.11
1:AA:1221:G:O2'	19:AS:77:THR:CG2	1.97	1.10
1:AA:825:G:N2	8:AH:8:ASP:OD1	1.83	1.10
34:BN:66:TYR:HE1	43:BW:115:ILE:HB	0.94	1.10
1:CA:1239:A:O2'	7:CG:115:ARG:CD	1.99	1.10
22:DB:1292:A:C4'	35:DO:33:ARG:CD	2.20	1.10
22:DB:512:A:H5''	40:DT:15:LYS:HG3	1.22	1.10
1:EA:1190:G:H4'	3:EC:176:HIS:CE1	1.85	1.10
1:EA:1057:G:O2'	3:EC:197:GLY:HA3	1.52	1.10
1:EA:633:G:H4'	17:EQ:28:PRO:CD	1.80	1.10
22:FB:219:G:H5'	51:F5:62:LEU:CD1	1.80	1.10
23:FA:14:C:C6	44:FX:53:MET:HA	1.86	1.10
22:FB:1162:A:O2'	38:FR:78:THR:HG23	1.51	1.10
22:FB:1992:G:H5'	40:FT:62:ARG:HA	1.24	1.10
22:FB:2264:C:OP2	49:F3:28:ARG:HD3	1.50	1.10
22:FB:2394:G:H4'	33:FM:64:GLY:HA3	1.32	1.10
22:FB:504:G:O3'	40:FT:25:PHE:CD2	2.04	1.10
1:GA:273:A:H2'	17:GQ:15:MET:HG2	1.30	1.10
2:GB:53:ARG:NH2	8:GH:68:ARG:HH11	1.42	1.10
1:GA:273:A:C2	17:GQ:15:MET:SD	2.44	1.10

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:GA:192:U:H4'	20:GT:56:MET:HE1	1.23	1.10
22:JB:124:A:H62	50:J4:18:PHE:C	1.53	1.10
33:JM:67:ASN:HD21	51:J5:7:HIS:HB3	1.06	1.10
22:JB:1743:C:N4	37:JQ:125:MET:C	2.05	1.10
22:JB:2239:C:O2'	22:JB:2367:A:H4'	1.47	1.10
22:JB:2056:C:C4'	24:JD:229:VAL:HA	1.81	1.10
27:JG:38:GLU:H	27:JG:87:ILE:HG12	1.14	1.10
10:AJ:64:GLU:N	14:AN:57:ARG:O	1.84	1.10
1:AA:1113:C:O2'	14:AN:57:ARG:NH1	1.82	1.10
22:BB:2218:G:H4'	24:BD:230:ASP:CB	1.80	1.10
22:BB:505:G:O4'	40:BT:78:ASN:CB	1.97	1.10
1:CA:1220:G:O2'	19:CS:53:ASN:O	1.67	1.10
1:CA:1257:U:P	3:CC:27:LYS:HZ1	1.72	1.10
22:DB:465:C:N4	50:D4:39:ARG:CZ	2.14	1.10
22:DB:226:C:C6	47:D1:28:ARG:NH2	2.18	1.10
22:DB:857:U:C2	22:DB:946:U:C2	2.39	1.10
1:EA:521:G:P	12:EL:72:GLY:O	2.09	1.10
1:EA:668:G:N3	15:EO:46:HIS:NE2	1.99	1.10
1:EA:1310:G:N7	19:ES:2:PRO:HD3	1.65	1.10
22:FB:2039:G:N2	48:F2:3:LYS:H	1.47	1.10
22:FB:1256:C:H1'	33:FM:15:ASP:HA	1.26	1.10
22:FB:340:G:N7	42:FV:28:LYS:HB2	1.64	1.10
1:GA:1393:U:O3'	1:GA:1394:A:C8	2.01	1.10
22:HB:2365:U:H1'	44:HX:37:LEU:CG	1.81	1.10
22:HB:512:A:P	40:HT:16:GLN:NE2	2.23	1.10
1:IA:1463:C:H6	37:JQ:116:ARG:NH1	1.36	1.10
13:IM:93:ARG:HH22	22:JB:900:U:H3'	1.14	1.10
22:JB:2399:C:H3'	51:J5:33:ASN:N	1.66	1.10
22:JB:1998:A:H1'	48:J2:2:ALA:O	1.50	1.10
22:JB:230:C:N4	51:J5:4:MET:CE	2.15	1.10
22:JB:609:U:C5'	26:JF:26:VAL:HG11	1.80	1.10
22:JB:2826:C:O2'	35:JO:61:HIS:HB2	1.51	1.10
22:JB:2823:G:C6	37:JQ:105:TYR:CD2	2.38	1.10
22:JB:320:A:O3'	42:JV:30:LYS:HG3	1.51	1.10
22:JB:940:G:H21	46:JZ:40:VAL:HG22	0.96	1.10
1:AA:1441:G:H1	20:AT:27:LYS:NZ	1.50	1.10
1:AA:529:G:O6	12:AL:46:LYS:HD3	1.48	1.10
1:AA:620:C:O3'	4:AD:138:TYR:HE1	1.34	1.10
22:BB:1000:G:O5'	22:BB:1168:G:H5'	1.51	1.10
22:BB:1972:G:H5''	32:BL:7:ARG:NH1	1.67	1.10
22:BB:2653:A:H1'	32:BL:41:ASN:HD21	1.06	1.10

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:BB:887:G:N9	43:BW:167:THR:HG22	1.66	1.10
1:CA:1231:G:N9	13:CM:126:LYS:CD	2.14	1.10
1:CA:15:G:N1	1:CA:1080:A:O2'	1.84	1.10
1:CA:619:U:C2	4:CD:133:VAL:HA	1.86	1.10
1:CA:1231:G:C1'	13:CM:126:LYS:HD3	1.80	1.10
22:DB:2710:C:H4'	25:DE:169:ASN:OD1	1.19	1.10
22:DB:2713:A:C6	25:DE:203:LYS:NZ	2.18	1.10
22:DB:863:C:H4'	46:DZ:18:LYS:HB3	1.30	1.10
1:EA:1272:G:H21	1:IA:1264:C:C1'	1.62	1.10
22:FB:1322:G:H1'	50:F4:7:PRO:HG3	1.24	1.10
22:FB:573:C:H1'	38:FR:37:GLN:OE1	1.50	1.10
34:FN:27:TYR:HB2	43:FW:73:LYS:CG	1.73	1.10
1:GA:1349:A:C5'	9:GI:121:ARG:HH11	1.57	1.10
1:GA:450:G:O2'	16:GP:15:PRO:HG3	1.51	1.10
1:GA:195:A:OP1	20:GT:65:LYS:CE	1.98	1.10
22:HB:2342:U:H4'	44:HX:38:VAL:HG12	1.30	1.10
22:HB:3197:U:C4	22:HB:2203:G:C5	2.40	1.10
22:HB:2620:G:H5''	31:HK:102:ARG:HH12	1.11	1.10
1:IA:1060:C:OP2	3:IC:2:GLY:CA	1.98	1.10
1:IA:1393:U:C2'	1:IA:1394:A:OP2	1.99	1.10
1:IA:1186:G:H4'	9:II:110:GLU:OE2	1.45	1.10
1:IA:1148:U:OP1	9:II:14:VAL:CG2	1.99	1.10
1:IA:1148:U:H5''	9:II:14:VAL:HB	1.23	1.10
22:JB:2517:C:H1'	52:J6:2:LYS:HB3	1.19	1.10
22:JB:1200:G:C2'	39:JS:83:ARG:HE	1.62	1.10
22:JB:1996:A:O4'	40:JT:117:ILE:HG22	1.51	1.10
40:JT:59:PHE:O	48:J2:28:PRO:CG	1.98	1.10
22:JB:63:A:O4'	41:JU:62:ARG:CD	1.98	1.10
22:JB:1001:A:C5'	46:JZ:27:LYS:CE	2.27	1.10
1:AA:780:A:O3'	1:AA:1523:G:H5'	1.50	1.10
22:BB:1043:A:C2'	52:B6:16:VAL:CB	2.29	1.10
22:BB:2739:G:N2	28:BH:139:GLN:CG	2.14	1.10
22:BB:2855:C:O2	35:BO:92:GLY:O	1.68	1.10
22:BB:529:U:C5'	40:BT:39:ARG:NH2	2.13	1.10
22:BB:1816:G:P	24:BD:54:ILE:HD11	1.91	1.10
27:BG:38:GLU:H	27:BG:87:ILE:HG12	1.14	1.10
1:CA:559:A:OP2	5:CE:122:GLU:C	1.89	1.10
22:DB:2752:C:C4'	25:DE:166:THR:HB	1.81	1.10
32:DL:113:PRO:HG3	37:DQ:76:GLY:CA	1.81	1.10
34:DN:98:VAL:HG21	43:DW:73:LYS:CE	1.80	1.10
22:FB:230:C:N4	51:F5:4:MET:CG	2.12	1.10

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:GA:195:A:OP1	20:GT:65:LYS:CD	1.99	1.10
1:GA:520:A:OP1	12:GL:52:LEU:HG	1.50	1.10
22:HB:60:A:OP2	45:HY:44:ARG:HB2	1.47	1.10
22:HB:2364:C:C1'	44:HX:69:PHE:HZ	1.65	1.10
1:IA:1226:C:N1	13:IM:104:ARG:HB2	1.64	1.10
22:JB:114:C:O4'	22:JB:124:A:H1'	1.47	1.10
22:JB:47:G:N3	22:JB:155:G:C6	2.19	1.10
22:JB:2397:A:H4'	49:J3:21:TYR:CE2	1.85	1.10
3:AC:61:ALA:HB2	10:AJ:95:GLU:HA	1.27	1.10
1:AA:521:G:H8	12:AL:53:ARG:NH1	1.46	1.10
22:BB:2856:U:H1'	35:BO:45:ARG:HH21	1.08	1.10
1:CA:720:C:H5''	18:CR:52:PRO:HB3	1.22	1.10
22:DB:1292:A:H5''	35:DO:33:ARG:HD3	1.23	1.10
22:DB:2462:C:O2'	34:DN:50:ALA:HB1	1.39	1.10
23:DA:105:G:H5''	43:DW:91:PRO:HA	1.14	1.10
1:EA:243:A:N9	17:EQ:99:SER:HB2	1.63	1.10
1:EA:1186:G:O3'	9:EI:113:LYS:HD3	1.51	1.10
13:EM:83:ASP:CB	22:FB:900(A):A:P	2.38	1.10
22:FB:1007:A:O3'	38:FR:92:ARG:HB3	1.50	1.10
22:FB:2462:C:O2'	34:FN:50:ALA:HB1	1.49	1.10
1:CA:1265:G:H5''	1:GA:1273:G:O4'	0.93	1.10
1:GA:17:U:O2'	5:GE:14:ARG:NH2	1.83	1.10
6:GF:50:TYR:HE1	18:GR:77:GLY:HA2	0.97	1.10
7:GG:153:HIS:CD2	11:GK:93:GLN:CG	2.24	1.10
22:HB:1325:U:H3'	41:HU:61:LYS:HE3	1.31	1.10
22:HB:2629:U:H4'	32:HL:29:ILE:HD12	1.16	1.10
22:HB:7:G:O6	22:HB:2870:C:N4	1.82	1.10
22:HB:2365:U:C5'	44:HX:39:ARG:NH1	2.14	1.10
1:EA:1263:C:O2	1:IA:1264:C:O4'	1.69	1.10
1:IA:637:G:C5'	17:IQ:2:PRO:CD	2.29	1.10
1:IA:751:U:C2'	15:IO:69:TYR:OH	1.98	1.10
22:JB:2399:C:C3'	51:J5:33:ASN:H	1.65	1.10
22:JB:77:C:OP1	45:JY:7:ARG:CG	1.99	1.10
22:JB:1001:A:C4'	46:JZ:27:LYS:NZ	2.13	1.10
7:AG:149:ARG:CD	11:AK:59:TYR:OH	1.99	1.10
22:BB:678:G:OP1	33:BM:38:LYS:HE3	1.50	1.10
22:BB:704:G:H5'	24:BD:218:LYS:HZ3	1.03	1.10
22:BB:2856:U:H5'	35:BO:94:TYR:N	1.64	1.10
1:CA:1239:A:C2'	7:CG:115:ARG:CG	2.29	1.10
1:CA:1374:A:O2'	7:CG:28:ASN:CB	2.00	1.10
22:DB:2713:A:H62	25:DE:203:LYS:CB	1.64	1.10

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:DB:2729:A:C2	52:D6:18:ARG:NH1	2.19	1.10
22:DB:504:G:O3'	40:DT:25:PHE:CE2	2.05	1.10
22:DB:2728:A:H1'	28:DH:67:LEU:HD22	1.28	1.10
22:DB:590:C:H5'	38:DR:32:TYR:O	1.48	1.10
1:EA:922:G:N2	1:EA:1396:A:N1	1.98	1.10
1:EA:613:C:C5'	4:ED:86:LYS:CE	2.04	1.10
1:EA:958:A:N6	19:ES:56:GLN:HG3	1.65	1.10
22:FB:1673:C:O3'	25:FE:136:ARG:HB2	1.51	1.10
22:FB:597:U:C5'	33:FM:28:LYS:HE2	1.81	1.10
22:FB:94:C:H2'	45:FY:40:PRO:CG	1.82	1.10
38:FR:91:ASN:ND2	39:FS:10:LYS:HG2	1.56	1.10
22:FB:498:C:O4'	40:FT:77:ALA:HB1	1.50	1.10
22:FB:2315:A:N9	44:FX:70:ILE:CD1	2.15	1.10
1:GA:1061:G:H4'	10:GJ:58:ASP:OD2	1.31	1.10
1:GA:1250:A:C5'	9:GI:68:GLY:HA2	1.82	1.10
1:GA:1392:G:N3	1:GA:1502:A:H5''	1.52	1.10
1:GA:267:C:OP1	17:GQ:67:LYS:CG	1.98	1.10
23:HA:44:C:O2	27:HG:90:THR:O	1.67	1.10
22:HB:591:G:H5''	38:HR:11:ARG:NH2	1.40	1.10
27:HG:38:GLU:H	27:HG:87:ILE:HG12	1.14	1.10
22:HB:2357:A:O3'	36:HP:19:THR:HG23	1.48	1.10
22:HB:1261:G:O5'	38:HR:2:PRO:HB3	0.93	1.10
1:IA:653:A:H61	8:IH:29:SER:HB3	1.17	1.10
10:IJ:46:ARG:HH11	14:IN:59:ALA:HB1	1.13	1.10
22:JB:3876:A:OP2	53:J7:43:LYS:CE	1.99	1.10
22:JB:205:A:C5'	33:JM:144:GLU:HB2	1.74	1.10
22:JB:2847:G:N2	35:JO:8:ARG:C	2.05	1.10
22:JB:1265:G:H1'	38:JR:32:TYR:CE1	1.85	1.10
1:AA:1349:A:C5'	9:AI:120:ARG:O	1.99	1.10
13:AM:83:ASP:C	13:AM:93:ARG:HD3	1.71	1.10
22:BB:1045:G:OP2	52:B6:16:VAL:HG23	1.50	1.10
22:BB:658:G:C1'	22:BB:2330:G:OP1	1.99	1.10
22:BB:2474:G:H4'	34:BN:83:ARG:HG3	1.27	1.10
22:BB:497:C:H1'	40:BT:80:LEU:CD1	1.81	1.10
34:BN:65:ILE:HA	43:BW:115:ILE:HD12	1.11	1.10
1:CA:429:U:H3'	4:CD:8:VAL:HB	1.16	1.10
1:CA:436:C:C5'	4:CD:156:GLU:CB	2.18	1.10
1:CA:559:A:P	5:CE:122:GLU:O	2.08	1.10
1:CA:529:G:O6	12:CL:48:PRO:CD	1.98	1.10
22:DB:2745:A:C2'	22:DB:2746:G:C5'	2.28	1.10
22:DB:934:G:O2'	44:DX:23:VAL:HG21	1.50	1.10

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:DB:2856:U:O4'	35:DO:93:GLY:HA3	0.94	1.10
22:DB:524:A:H5''	38:DR:30:LYS:HB3	1.22	1.10
22:DB:886:A:H5'	43:DW:118:HIS:HE1	1.09	1.10
1:EA:826:C:H1'	8:EH:15:ASN:ND2	1.65	1.10
22:FB:2037:A:N7	48:F2:5:PRO:HG3	1.65	1.10
22:FB:1239:A:OP1	39:FS:73:LYS:NZ	1.84	1.10
22:FB:2239:C:O2'	22:FB:2367:A:H4'	1.52	1.10
22:FB:337:G:H21	42:FV:10:HIS:HA	1.13	1.10
22:FB:7:G:C1'	31:FK:162:LYS:HZ3	1.65	1.10
38:FR:47:TYR:HA	39:FS:74:TYR:HA	1.25	1.10
38:FR:88:ILE:CG1	39:FS:52:GLY:HA2	1.81	1.10
22:FB:999:A:OP1	46:FZ:7:ARG:CG	1.98	1.10
1:GA:694:A:C5'	11:GK:53:SER:CB	2.30	1.10
1:GA:750:G:C4'	15:GO:22:THR:OG1	2.00	1.10
10:GJ:64:GLU:OE2	14:GN:57:ARG:HB3	1.34	1.10
1:GA:377:G:H5'	16:GP:5:ARG:HH12	1.01	1.10
1:GA:734:G:O2'	18:GR:71:LYS:HE2	1.49	1.10
22:HB:1075:C:H5''	30:HJ:84:ILE:CG2	1.80	1.10
22:HB:1815:G:OP1	24:HD:54:ILE:HB	0.92	1.10
3:IC:23:TYR:CG	10:IJ:93:GLY:HA2	1.85	1.10
13:IM:86:CYS:CA	19:IS:74:PHE:CA	2.22	1.10
22:JB:69:G:O3'	22:JB:70:A:P	2.09	1.10
22:JB:1812:U:H3'	24:JD:159:ALA:HB1	1.28	1.10
22:JB:1996:A:C5'	40:JT:117:ILE:CA	2.02	1.10
22:BB:1044:U:C5	52:B6:15:LYS:CA	2.19	1.10
1:CA:880:C:OP1	12:CL:8:ASN:OD1	1.69	1.10
22:DB:2550:C:O2'	25:DE:143:GLN:NE2	1.85	1.10
27:DG:38:GLU:H	27:DG:87:ILE:HG12	1.14	1.10
34:DN:103:VAL:O	43:DW:117:VAL:HG13	1.52	1.10
22:DB:1325:U:N1	41:DU:61:LYS:CE	1.94	1.10
1:EA:1117:G:C1'	9:EI:104:ARG:CZ	2.13	1.10
1:EA:880:C:OP1	12:EL:7:ILE:HB	0.95	1.10
40:FT:60:ILE:HG23	48:F2:25:LEU:HD11	1.22	1.10
22:FB:2262:C:C5'	49:F3:3:LYS:HZ3	1.64	1.10
22:FB:218:A:OP1	51:F5:63:PRO:HG2	1.50	1.10
13:EM:93:ARG:NH2	22:FB:900:U:C4	2.19	1.10
1:GA:274:A:H5''	17:GQ:14:LYS:HG2	1.29	1.10
41:HU:9:ALA:HA	45:HY:26:MET:SD	1.92	1.10
1:IA:637:G:O4'	17:IQ:2:PRO:CD	1.99	1.10
1:IA:640:A:O2'	8:IH:127:LEU:HD13	1.37	1.10
22:JB:2603:G:C1'	48:J2:22:HIS:NE2	2.15	1.10

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:JB:15:G:OP1	48:J2:20:ARG:O	1.69	1.10
22:JB:2848:A:N9	35:JO:6:ALA:HB1	1.66	1.10
22:JB:697:G:H5'	50:J4:11:LYS:HD2	1.22	1.10
22:JB:1265:G:H5''	38:JR:10:ARG:NE	1.13	1.10
43:JW:48:THR:C	43:JW:95:SER:HB3	1.72	1.10
43:JW:51:LEU:HD22	43:JW:128:ARG:NH2	1.67	1.10
1:AA:254:G:C4	17:AQ:16:GLN:HB3	1.87	1.10
22:BB:418:C:H3'	53:B7:197:GLU:OE1	1.42	1.10
22:BB:2614:A:H5'	25:BE:77:ILE:HD12	1.14	1.10
1:CA:760:G:O6	17:CQ:105:ALA:C	1.88	1.10
22:DB:696:U:C5'	50:D4:16:HIS:HE1	1.51	1.10
22:DB:475:U:H4'	50:D4:5:TYR:CB	1.82	1.10
22:DB:704:G:H5''	24:DD:218:LYS:HZ1	1.05	1.10
1:EA:640:A:H2'	8:EH:116:LYS:HB2	1.23	1.10
22:FB:124:A:H5'	50:F4:19:ARG:HE	1.03	1.10
22:FB:219:G:H3'	51:F5:3:LYS:CB	1.56	1.10
22:FB:2752:C:H4'	25:FE:166:THR:CB	1.80	1.10
34:FN:36:ILE:HB	43:FW:74:ARG:HG2	1.29	1.10
22:FB:1746:A:H5'	37:FQ:126:LYS:O	0.93	1.10
1:GA:186:C:H1'	20:GT:81:LYS:CE	1.82	1.10
1:GA:264:U:H1'	17:GQ:64:PRO:N	1.40	1.10
1:GA:668:G:C1'	15:GO:45:VAL:CG1	2.12	1.10
1:GA:377:G:H5'	16:GP:5:ARG:NH1	1.65	1.10
22:HB:1374:G:H4'	47:H1:53:GLU:CG	1.75	1.10
22:HB:3877:A:O3'	22:HB:1861:G:P	2.10	1.10
22:HB:8:A:C5'	31:HK:36:ASN:ND2	1.98	1.10
32:HL:119:ARG:NH2	37:HQ:43:ASN:C	2.05	1.10
1:IA:1186:G:O2'	9:II:113:LYS:CD	1.99	1.10
22:JB:2722:C:C3'	52:J6:35:ARG:HH21	1.64	1.10
22:JB:222:G:OP2	51:J5:11:LYS:NZ	1.85	1.10
1:AA:1077:G:N2	5:AE:45:PHE:CZ	2.18	1.10
1:AA:1187:G:N3	14:AN:61:TRP:CA	2.13	1.10
22:BB:1816:G:OP2	24:BD:54:ILE:CD1	2.00	1.10
32:BL:89:ILE:HA	37:BQ:81:PHE:HB3	1.11	1.10
34:BN:66:TYR:HD1	43:BW:115:ILE:HG22	1.00	1.10
22:BB:827:C:C5'	39:BS:84:THR:CA	2.23	1.10
23:BA:105:G:C4'	43:BW:92:VAL:N	1.99	1.10
1:CA:1307:U:O3'	13:CM:109:THR:HG21	0.93	1.10
1:CA:1318:A:H4'	19:CS:10:PHE:HB2	1.28	1.10
22:DB:164:G:C5'	47:D1:12:CYS:HB3	1.82	1.10
22:DB:1674:C:H5''	25:DE:134:TRP:CB	1.80	1.10

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:DE:26:VAL:HG11	37:DQ:3:THR:HG21	1.16	1.10
23:DA:53:G:OP2	36:DP:63:ASN:ND2	1.85	1.10
22:DB:318:G:O3'	40:DT:12:LYS:CE	1.99	1.10
1:EA:244:U:OP2	17:EQ:100:LYS:CE	1.94	1.10
22:FB:2628:C:O4'	32:FL:28:GLY:HA3	1.48	1.10
22:FB:529:U:H5'	40:FT:39:ARG:CG	1.80	1.10
25:FE:176:ARG:CD	37:FQ:20:HIS:CE1	2.35	1.10
22:FB:529:U:H5'	40:FT:39:ARG:CD	1.78	1.10
1:GA:579:G:O2'	15:GO:54:ARG:HD2	1.51	1.10
1:GA:621:A:OP1	4:GD:139:ARG:NH2	1.84	1.10
22:HB:1378:A:C5'	47:H1:11:PRO:HG2	1.82	1.10
22:HB:965:G:OP1	34:HN:18:MET:HB3	1.52	1.10
22:HB:2372:A:C4'	33:HM:60:LEU:O	2.00	1.10
1:IA:597:G:N2	8:IH:131:GLY:C	2.05	1.10
22:JB:1148:G:O2'	31:JK:134:MET:SD	2.09	1.10
22:JB:576:A:C5'	33:JM:40:ARG:NH1	1.84	1.10
22:JB:2850:U:O4	37:JQ:14:ARG:NH2	1.84	1.10
22:BB:2255:G:OP2	34:BN:86:LYS:CA	2.00	1.09
34:BN:63:GLY:HA2	43:BW:112:LEU:CD2	1.80	1.09
1:CA:421:U:OP1	3:CC:127:ARG:NH2	1.84	1.09
22:DB:2039:G:N9	48:D2:5:PRO:HD3	1.65	1.09
22:DB:115:G:P	50:D4:19:ARG:HH12	1.65	1.09
22:DB:1234:C:H5''	39:DS:68:LYS:CE	1.81	1.09
22:DB:1583:A:H1'	24:DD:84:TYR:CZ	1.86	1.09
1:EA:589:C:C4'	8:EH:29:SER:HB2	1.81	1.09
10:EJ:63:PHE:CD2	14:EN:58:LYS:HA	1.85	1.09
1:EA:1320:C:N3	19:ES:36:ARG:CG	2.14	1.09
22:FB:1:G:N2	22:FB:2876:C:O2	1.84	1.09
22:FB:24:G:O4'	40:FT:98:ASP:CG	1.90	1.09
22:FB:2796:A:OP2	25:FE:191:ALA:HB1	1.44	1.09
22:FB:2810:A:N7	37:FQ:6:LYS:CD	2.15	1.09
22:FB:491:A:H4'	42:FV:55:THR:CG2	1.82	1.09
22:FB:1203:A:O2'	33:FM:37:GLN:HA	1.52	1.09
22:FB:1265:G:H5'	38:FR:14:HIS:CD2	1.86	1.09
22:FB:347:C:O2	42:FV:10:HIS:ND1	1.85	1.09
22:FB:348:U:H5'	42:FV:13:LYS:HB2	1.27	1.09
1:GA:1349:A:H5''	9:GI:121:ARG:HG2	1.29	1.09
6:GF:46:ARG:NH2	18:GR:35:ARG:HH12	1.39	1.09
1:GA:223:U:H5'	20:GT:68:LYS:HG3	1.29	1.09
22:HB:1261:G:C8	38:HR:3:ARG:N	2.19	1.09
22:HB:1817:U:OP1	24:HD:224:SER:N	1.85	1.09

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:HB:886:A:H2	43:HW:167:THR:CG2	1.44	1.09
1:IA:928:G:H1'	1:IA:1532:U:O2'	1.46	1.09
22:JB:2064:U:H5'	47:J1:35:VAL:CG2	1.81	1.09
22:JB:2670:C:P	35:JO:17:ARG:HH21	1.74	1.09
22:JB:1997:A:OP1	40:JT:116:ILE:HB	1.50	1.09
1:AA:1298:C:C5	7:AG:114:ARG:CD	2.35	1.09
1:AA:520:A:OP2	12:AL:51:ALA:N	1.67	1.09
22:BB:2334:C:C1'	44:BX:32:LYS:CD	2.29	1.09
22:BB:2463:G:C5'	34:BN:47:GLN:HA	1.82	1.09
22:BB:2724:G:H1'	28:BH:143:GLN:HG3	1.31	1.09
1:CA:276:G:C5'	17:CQ:18:THR:HG22	1.81	1.09
22:DB:176:A:N3	47:D1:32:HIS:CE1	2.20	1.09
22:DB:2399:C:N4	51:D5:31:HIS:CE1	2.20	1.09
22:DB:2035:G:C4'	25:DE:142:GLY:HA3	1.81	1.09
22:DB:460:U:H2'	26:DF:78:VAL:HG21	1.17	1.09
27:DG:179:LYS:CD	1:GA:1021:G:H4'	1.79	1.09
22:DB:2394:G:H4'	33:DM:64:GLY:CA	1.57	1.09
22:DB:525:A:H4'	38:DR:31:GLN:NE2	1.66	1.09
40:DT:56:LEU:HG	48:D2:28:PRO:HD2	1.21	1.09
1:EA:1190:G:C4'	3:EC:176:HIS:HE1	1.65	1.09
1:EA:1265:G:H4'	1:IA:1272:G:H2'	1.28	1.09
22:FB:1042:G:O2'	52:F6:6:SER:HA	1.52	1.09
22:FB:1411:C:N1	22:FB:1412:C:C5	2.19	1.09
22:FB:1998:A:H1'	48:F2:3:LYS:NZ	1.67	1.09
22:FB:2752:C:C4'	25:FE:166:THR:CB	2.29	1.09
34:FN:106:GLU:HG2	43:FW:115:ILE:HD12	1.22	1.09
22:HB:3176:A:C2	53:H7:162:GLN:NE2	2.18	1.09
22:HB:1995:G:H5'	40:HT:118:LYS:N	1.63	1.09
22:HB:236:C:H1'	22:HB:632:A:H1'	1.33	1.09
1:EA:1266:G:OP2	1:IA:1273:G:O3'	1.70	1.09
1:IA:1393:U:H2'	1:IA:1394:A:OP2	1.51	1.09
1:IA:1058:G:OP1	3:IC:154:SER:HA	1.53	1.09
22:JB:2074:U:H1'	47:J1:43:TRP:C	1.72	1.09
40:JT:40:LEU:CD1	48:J2:20:ARG:CG	2.29	1.09
22:JB:1075:C:OP1	30:JJ:84:ILE:CD1	1.86	1.09
22:JB:1948:C:H41	22:JB:2571:G:H1'	1.14	1.09
22:JB:1999:U:O2'	48:J2:6:VAL:CG2	1.79	1.09
22:JB:1204:G:OP1	33:JM:37:GLN:CB	1.96	1.09
22:JB:1288:A:N3	35:JO:13:ASN:OD1	1.85	1.09
22:JB:2003:A:C4'	38:JR:25:TRP:HZ3	1.39	1.09
22:JB:528:G:H4'	40:JT:97:VAL:HG22	1.15	1.09

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:439:A:C4'	4:AD:122:ARG:NH2	1.84	1.09
22:BB:123:A:H1'	50:B4:10:ARG:HH22	1.10	1.09
22:BB:552:C:H2'	22:BB:553:C:H4'	1.23	1.09
22:BB:596:C:OP2	33:BM:30:ALA:HB3	0.94	1.09
1:CA:520:A:H5''	12:CL:52:LEU:O	1.46	1.09
1:CA:643:C:O3'	8:CH:31:PHE:CZ	2.05	1.09
1:CA:1254:C:H41	10:CJ:43:ARG:NH1	1.50	1.09
1:CA:236:G:H4'	17:CQ:42:TYR:CZ	1.86	1.09
1:CA:759:A:C4	17:CQ:98:LEU:HB2	1.66	1.09
13:CM:90:LEU:HD11	19:CS:76:PRO:CD	1.78	1.09
22:DB:2399:C:H41	51:D5:31:HIS:CE1	1.70	1.09
1:EA:613:C:O5'	4:ED:86:LYS:HE3	1.49	1.09
22:FB:231:G:O6	51:F5:4:MET:HB2	1.53	1.09
22:FB:3176:A:O2'	53:F7:33:ILE:CG2	1.99	1.09
22:FB:1398:G:C2	22:FB:1415:C:H2'	1.87	1.09
22:FB:2745:A:H3'	22:FB:2746:G:H8	1.06	1.09
22:FB:552:C:H2'	22:FB:553:C:H4'	1.23	1.09
22:FB:63:A:H4'	41:FU:71:GLN:NE2	1.67	1.09
22:FB:940:G:O2'	46:FZ:34:VAL:CG2	2.00	1.09
22:FB:2692:A:H2'	35:FO:14:SER:HB2	1.21	1.09
10:GJ:64:GLU:HG2	14:GN:58:LYS:C	1.72	1.09
1:GA:751:U:O4'	15:GO:23:GLY:O	1.71	1.09
22:HB:3126:A:C5'	53:H7:26:PHE:HE1	1.63	1.09
1:IA:764:C:OP1	15:IO:50:HIS:CE1	2.05	1.09
22:JB:1172:U:O2'	39:JS:22:VAL:HG13	1.51	1.09
15:IO:89:GLY:O	22:JB:730:C:N4	1.84	1.09
23:JA:62:C:OP1	36:JP:6:THR:HG21	0.94	1.09
1:AA:1392:G:H4'	1:AA:1531:A:H5''	1.20	1.09
22:BB:1050:G:C5'	43:BW:37:LYS:CE	2.30	1.09
22:BB:1239:A:OP2	39:BS:73:LYS:CG	1.99	1.09
22:BB:1488:G:N1	22:BB:1535:C:N4	1.99	1.09
22:BB:458:G:OP1	38:BR:3:ARG:HD3	1.52	1.09
22:BB:1809:G:H5''	24:BD:63:ARG:NH2	1.68	1.09
22:BB:512:A:P	40:BT:16:GLN:NE2	2.25	1.09
49:D3:24:THR:HG21	51:D5:35:GLY:HA2	1.27	1.09
22:DB:1289:A:C2	35:DO:23:ALA:O	2.06	1.09
22:FB:1291:G:H5''	35:FO:35:GLN:HB2	1.33	1.09
22:FB:1583:A:H1'	24:FD:84:TYR:HE1	1.06	1.09
32:FL:132:GLU:HG3	37:FQ:75:GLU:HB2	1.19	1.09
1:GA:265:G:C4	17:GQ:64:PRO:HB3	1.82	1.09
22:HB:2505:G:C5'	22:HB:2722:C:OP1	2.00	1.09

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:HB:2541:U:O2'	32:HL:23:ARG:NH1	1.85	1.09
22:HB:95:G:OP1	45:HY:42:ARG:HB2	1.49	1.09
22:HB:2448:A:H1'	34:HN:57:ARG:HD2	1.21	1.09
22:HB:2365:U:C2'	44:HX:37:LEU:HD11	1.81	1.09
1:IA:278:G:N7	17:IQ:95:TYR:HB3	1.37	1.09
1:IA:1225:A:OP1	13:IM:102:ARG:NH1	1.85	1.09
1:IA:483:C:O2'	16:IP:13:HIS:HD2	1.35	1.09
22:JB:2375:G:O6	51:J5:31:HIS:CE1	2.05	1.09
22:JB:3164:C:H5''	53:J7:102:LYS:HD3	1.14	1.09
22:JB:869:C:H5''	44:JX:57:HIS:HB2	1.18	1.09
34:JN:32:ASP:OD2	43:JW:115:ILE:HG22	1.53	1.09
22:JB:1175:A:O5'	39:JS:89:ASN:ND2	1.68	1.09
22:JB:1338:G:O4'	40:JT:107:ILE:HD12	1.46	1.09
1:AA:1251:A:H5'	9:AI:12:GLU:CD	1.72	1.09
22:BB:419:G:H5''	53:B7:198:THR:HG21	1.34	1.09
22:BB:1044:U:H3'	52:B6:16:VAL:CG2	1.81	1.09
22:BB:1091:C:C4'	30:BJ:125:ASN:CB	2.19	1.09
1:CA:1382:C:H4'	7:CG:79:ARG:CG	1.81	1.09
1:CA:538:G:OP1	12:CL:113:ARG:NH1	1.84	1.09
4:CD:205:GLU:HG2	5:CE:100:VAL:O	1.49	1.09
22:DB:589:C:C5'	38:DR:33:ARG:HG3	1.70	1.09
23:DA:93:G:H5'	34:DN:22:ALA:CA	1.81	1.09
22:DB:1238:A:H5''	39:DS:73:LYS:HA	1.34	1.09
22:FB:124:A:H4'	50:F4:19:ARG:NH1	1.66	1.09
22:FB:29:U:C4'	38:FR:8:ILE:HB	1.82	1.09
22:FB:337:G:N2	42:FV:10:HIS:HA	1.66	1.09
43:FW:88:TYR:N	43:FW:90:GLU:C	2.04	1.09
1:GA:9:G:C5'	5:GE:104:ALA:CB	2.29	1.09
22:HB:600:G:H21	51:H5:2:PRO:CG	1.64	1.09
22:HB:3866:A:C6	53:H7:44:GLY:O	2.05	1.09
22:HB:1998:A:C1'	48:H2:6:VAL:HG11	1.82	1.09
22:HB:3197:U:N3	22:HB:2203:G:C6	2.21	1.09
1:IA:1348:U:OP1	9:II:118:LYS:NZ	1.83	1.09
22:JB:2464:G:O3'	34:JN:123:GLY:CA	1.98	1.09
22:JB:2492:G:O3'	22:JB:2493:U:P	2.11	1.09
22:JB:3168:G:N1	53:J7:101:LYS:HG2	1.43	1.09
22:JB:338:G:H1'	42:JV:10:HIS:HB2	1.33	1.09
22:JB:2364:C:H1'	44:JX:37:LEU:HD21	1.24	1.09
6:AF:99:ALA:HB2	18:AR:31:LEU:HG	1.19	1.09
22:BB:2265:A:N6	49:B3:38:LYS:HE2	1.61	1.09
22:BB:2393:G:H4'	33:BM:65:PHE:CD2	1.86	1.09

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:DA:106:U:H4'	43:DW:88:TYR:CZ	1.85	1.09
22:DB:2661:G:O2'	25:DE:12:THR:HB	1.51	1.09
22:DB:3123:G:C5'	53:D7:158:LYS:NZ	2.15	1.09
22:DB:546:A:C5'	38:DR:57:PHE:CZ	2.34	1.09
22:DB:552:C:H2'	22:DB:553:C:H4'	1.24	1.09
22:DB:1237:G:H5''	39:DS:87:ARG:NE	1.68	1.09
34:DN:99:LYS:CG	43:DW:73:LYS:CG	2.31	1.09
1:EA:529:G:H22	12:EL:51:ALA:HB1	1.00	1.09
22:FB:1266:G:N2	38:FR:37:GLN:CD	2.06	1.09
22:FB:3197:U:H1'	22:FB:2181:A:C8	1.84	1.09
22:FB:2396:C:OP1	51:F5:44:LYS:HE2	1.48	1.09
22:FB:312:G:H4'	42:FV:89:GLY:CA	1.80	1.09
22:FB:1516:A:C1'	24:FD:98:ALA:HB2	1.82	1.09
22:FB:2725:C:O2'	28:FH:138:LYS:O	1.71	1.09
38:FR:87:ASN:HB2	39:FS:52:GLY:HA3	1.34	1.09
12:GL:10:LEU:O	17:GQ:32:TYR:CG	2.05	1.09
1:GA:668:G:H5'	15:GO:48:LYS:NZ	1.67	1.09
1:GA:60:A:N6	20:GT:12:ALA:CB	2.14	1.09
22:HB:1795:C:C5'	24:HD:250:TRP:CZ2	2.35	1.09
22:HB:8:A:C2	22:HB:2869:U:O2	2.04	1.09
22:HB:918:A:C5'	43:HW:118:HIS:CD2	2.34	1.09
32:HL:113:PRO:HD3	37:HQ:75:GLU:HB2	1.29	1.09
22:HB:818:G:H4'	33:HM:41:SER:HB3	1.30	1.09
34:HN:65:ILE:HA	43:HW:115:ILE:CD1	1.82	1.09
1:IA:966:G:H4'	9:II:127:LYS:HE2	1.30	1.09
23:JA:10:U:H1'	36:JP:49:GLN:HB3	1.30	1.09
22:JB:1173:G:C4'	39:JS:91:THR:N	1.78	1.09
22:JB:637:G:H21	33:JM:74:VAL:HG13	0.95	1.09
22:JB:2463:G:H4'	34:JN:47:GLN:CG	1.82	1.09
1:AA:760:G:O3'	17:AQ:102:GLY:HA3	0.93	1.09
22:BB:3125:G:H4'	53:B7:209:MSE:HE2	1.28	1.09
22:BB:487:G:H21	22:BB:491:A:N6	1.49	1.09
22:DB:2328:G:H3'	51:D5:42:ARG:HD2	1.10	1.09
22:DB:3866:A:C8	53:D7:43:LYS:O	2.06	1.09
22:DB:1782:A:O2'	24:DD:205:VAL:HG23	1.47	1.09
22:DB:2464:G:C1'	34:DN:120:ARG:NH1	2.13	1.09
34:DN:36:ILE:O	43:DW:74:ARG:NH2	1.84	1.09
23:DA:117:G:O2'	36:DP:53:ALA:HB3	1.50	1.09
10:EJ:63:PHE:HA	14:EN:59:ALA:CB	1.75	1.09
1:EA:691:G:C8	11:EK:26:ASN:ND2	2.21	1.09
1:EA:632:A:N3	17:EQ:30:PRO:HB2	1.67	1.09

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:FN:99:LYS:HB2	43:FW:74:ARG:HB2	1.13	1.09
1:GA:826:C:H4'	8:GH:12:ARG:HD3	1.26	1.09
1:GA:1309:G:H5''	13:GM:81:LEU:HD11	1.13	1.09
1:GA:186:C:C5'	20:GT:78:ALA:HB1	1.83	1.09
1:IA:1226:C:C6	13:IM:104:ARG:N	2.21	1.09
1:IA:730:G:H1	15:IO:51:HIS:CD2	1.69	1.09
22:JB:603:C:O3'	22:JB:604:U:P	2.10	1.09
22:JB:633:G:H3'	33:JM:98:LEU:HD23	1.22	1.09
22:JB:940:G:N2	46:JZ:40:VAL:HG22	1.66	1.09
1:AA:953:G:O5'	13:AM:124:PRO:CD	2.01	1.09
1:AA:43:C:H5''	16:AP:12:LYS:HB3	1.28	1.09
1:AA:273:A:C2'	17:AQ:15:MET:HA	1.82	1.09
22:BB:624:A:N7	26:BF:170:LEU:HD23	1.68	1.09
22:BB:2725:C:O4'	28:BH:143:GLN:CB	2.01	1.09
1:CA:277:C:H5'	17:CQ:43:LEU:HD12	1.13	1.09
1:CA:407:G:C1'	4:CD:116:GLN:CD	2.16	1.09
22:DB:811:G:P	26:DF:54:THR:O	2.10	1.09
22:FB:1686:A:C8	32:FL:5:GLN:OE1	2.05	1.09
22:FB:458:G:C5'	38:FR:5:LYS:NZ	2.14	1.09
22:FB:969:U:N3	34:FN:20:GLY:HA2	1.40	1.09
22:FB:1351:G:H5''	41:FU:13:SER:OG	0.91	1.09
1:GA:230:G:C5'	16:GP:26:ARG:NH2	2.13	1.09
1:GA:735:C:C6	18:GR:75:ILE:CD1	2.36	1.09
22:HB:600:G:H21	51:H5:2:PRO:CD	1.64	1.09
34:HN:65:ILE:CA	43:HW:115:ILE:HD11	1.82	1.09
22:HB:2310:G:C4'	44:HX:71:ASN:CA	2.29	1.09
22:JB:1628:C:H4'	50:J4:6:GLN:HA	1.10	1.09
22:JB:846:A:H4'	33:JM:53:ARG:N	1.67	1.09
34:JN:60:ARG:HG3	43:JW:111:GLY:N	1.60	1.09
1:AA:1251:A:H5'	9:AI:12:GLU:OE1	1.51	1.09
22:BB:1042:G:C8	52:B6:6:SER:HB2	1.77	1.09
23:BA:92:G:N1	34:BN:39:GLU:OE2	1.86	1.09
22:BB:1041:G:C4	52:B6:5:SER:HB3	1.88	1.09
22:BB:1414:G:N2	22:BB:1484:G:N1	2.00	1.09
34:BN:66:TYR:CE1	43:BW:115:ILE:CG2	2.35	1.09
1:CA:521:G:O6	12:CL:49:ASN:OD1	1.70	1.09
3:CC:132:ARG:NH2	4:CD:47:ARG:NH1	2.00	1.09
22:DB:1468:A:N6	35:DO:63:ARG:NH2	2.00	1.09
25:DE:151:TYR:HA	31:DK:106:TYR:CD1	1.87	1.09
22:DB:2658:A:O2'	25:DE:187:ALA:C	1.90	1.09
22:FB:29:U:C4'	38:FR:8:ILE:CB	2.31	1.09

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:FB:3877:A:C6	22:FB:1862:C:N3	2.20	1.09
22:FB:2372:A:C4'	33:FM:60:LEU:N	2.15	1.09
38:FR:43:ALA:HA	39:FS:75:LYS:CD	1.79	1.09
1:GA:658:G:C4'	15:GO:4:THR:O	1.74	1.09
22:HB:681:A:C5'	33:HM:48:PHE:HE1	1.65	1.09
1:IA:816:A:OP1	1:IA:1526:G:N3	1.85	1.09
1:IA:637:G:OP2	17:IQ:5:VAL:HG21	0.92	1.09
22:JB:224:G:N1	51:J5:8:LYS:CG	1.92	1.09
22:JB:2824:C:OP2	37:JQ:104:LEU:HD13	1.50	1.09
22:JB:3187:U:OP1	29:JI:11:LEU:CD2	2.00	1.09
22:JB:608:G:N2	26:JF:29:GLU:OE2	1.84	1.09
22:JB:2551:A:OP2	25:JE:144:ARG:HB3	1.51	1.09
1:AA:545:C:H5''	4:AD:72:GLU:CD	1.72	1.09
22:BB:1135:C:O4'	52:B6:36:GLN:HG3	0.92	1.09
22:BB:1325:U:O4	41:BU:61:LYS:CB	2.01	1.09
1:CA:1231:G:N9	13:CM:126:LYS:CE	2.10	1.09
1:CA:668:G:O2'	15:CO:46:HIS:N	1.61	1.09
22:DB:1325:U:C5	41:DU:61:LYS:NZ	2.15	1.09
22:DB:1402:G:O6	22:DB:1412:C:N4	1.79	1.09
22:DB:2767:C:C4'	25:DE:60:ASN:CB	1.93	1.09
1:EA:1158:C:O2'	2:EB:133:LYS:NZ	1.86	1.09
1:EA:985:C:O2'	19:ES:55:LYS:HE3	1.49	1.09
1:EA:1313:U:O5'	19:ES:6:LYS:HG2	1.52	1.09
22:FB:1275:A:OP2	40:FT:120:ARG:NH2	1.86	1.09
22:FB:1400:A:N1	22:FB:1414:G:C6	2.10	1.09
22:FB:219:G:H3'	51:F5:3:LYS:HB3	1.31	1.09
22:FB:2700:U:C4	22:FB:2848:A:N6	2.21	1.09
22:FB:567:G:C8	31:FK:73:ASN:OD1	2.05	1.09
10:GJ:49:VAL:CG2	14:GN:45:ARG:HA	1.73	1.09
22:HB:60:A:N7	22:HB:93:A:C2	2.20	1.09
22:HB:59:G:N2	22:HB:86:U:O4	1.84	1.09
1:IA:814:A:O4'	1:IA:1511:G:O4'	1.71	1.09
1:IA:538:G:H8	12:IL:115:LYS:HE3	1.11	1.09
1:IA:246:A:H4'	17:IQ:100:LYS:HG3	1.30	1.09
22:JB:3176:A:C5'	53:J7:33:ILE:HD13	1.83	1.09
22:JB:1790:G:H1	24:JD:180:GLY:HA3	1.17	1.09
22:JB:567:G:H4'	31:JK:73:ASN:C	1.73	1.09
1:AA:1131:G:H4'	9:AI:2:GLU:HG3	1.29	1.08
1:AA:1350:A:H1'	7:AG:33:ASP:O	1.53	1.08
1:AA:694:A:O5'	11:AK:53:SER:HB2	1.49	1.08
10:AJ:50:ILE:O	14:AN:45:ARG:HD3	1.49	1.08

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:761:G:C4'	17:AQ:102:GLY:O	2.01	1.08
22:BB:1398:G:N2	22:BB:1416:A:N7	2.01	1.08
22:BB:2766:U:H5''	25:BE:64:GLN:HB3	1.11	1.08
22:BB:597:U:H4'	33:BM:28:LYS:HE2	1.11	1.08
22:BB:1142:G:H4'	31:BK:111:LYS:HB3	1.35	1.08
34:BN:106:GLU:CB	43:BW:113:VAL:HG13	1.82	1.08
34:BN:99:LYS:HB3	43:BW:74:ARG:CB	1.83	1.08
1:CA:1374:A:H1'	7:CG:28:ASN:O	1.52	1.08
22:DB:2003:A:C8	48:D2:9:LYS:NZ	2.20	1.08
23:DA:105:G:C4'	43:DW:91:PRO:HB3	1.80	1.08
22:DB:1142:G:O6	31:DK:105:GLY:HA2	1.53	1.08
22:DB:2645:C:C6	28:DH:109:TYR:CE2	2.33	1.08
22:DB:648:A:H2	33:DM:109:LEU:HG	1.01	1.08
22:DB:1673:C:C5'	25:DE:136:ARG:CG	2.21	1.08
22:FB:1670:G:C6	35:FO:11:ASN:CA	2.34	1.08
22:FB:2615:U:H5'	25:FE:79:ARG:HB2	1.17	1.08
22:FB:597:U:C5'	33:FM:28:LYS:CE	2.30	1.08
23:FA:117:G:H5''	36:FP:52:ALA:HA	1.28	1.08
22:FB:1165:G:OP1	38:FR:62:ILE:CG2	2.00	1.08
1:GA:826:C:C4'	8:GH:12:ARG:HD3	1.82	1.08
1:GA:658:G:C5'	15:GO:4:THR:O	2.01	1.08
1:GA:267:C:OP1	17:GQ:67:LYS:HE3	1.50	1.08
22:HB:1817:U:OP2	24:HD:223:GLY:CA	1.99	1.08
22:HB:644:A:H1'	22:HB:2382:C:O2'	1.53	1.08
22:HB:603:C:N3	22:HB:677:G:N1	1.99	1.08
32:HL:83:ARG:HD2	37:HQ:83:PHE:HD2	1.05	1.08
41:HU:92:ALA:HB3	45:HY:27:GLU:HG3	1.35	1.08
1:IA:1226:C:C4	13:IM:104:ARG:HB3	1.86	1.08
1:IA:1190:G:P	3:IC:4:LYS:CA	2.42	1.08
1:IA:1114:C:O2'	14:IN:61:TRP:CE3	2.05	1.08
22:JB:2669:C:H3'	35:JO:17:ARG:CZ	1.83	1.08
22:JB:338:G:O2'	42:JV:77:HIS:CE1	2.04	1.08
22:JB:1129:A:H5''	43:JW:76:ARG:NH1	1.67	1.08
1:AA:1345:U:C5'	9:AI:120:ARG:CZ	2.31	1.08
1:AA:981:U:O2'	14:AN:31:ARG:NH1	1.84	1.08
22:BB:176:A:H2'	47:B1:31:ILE:HG22	1.26	1.08
22:BB:1805:G:N2	24:BD:51:SER:C	2.05	1.08
22:BB:2725:C:H5''	28:BH:142:GLY:HA3	1.11	1.08
22:BB:2463:G:N2	34:BN:120:ARG:HG2	1.50	1.08
1:CA:620:C:C3'	4:CD:138:TYR:CE1	2.35	1.08
1:CA:673:G:C4'	18:CR:75:ILE:HG23	1.83	1.08

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:720:C:H4'	18:CR:52:PRO:CA	1.81	1.08
22:DB:2645:C:C5	28:DH:109:TYR:HD2	1.57	1.08
1:EA:958:A:C1'	19:ES:55:LYS:NZ	2.16	1.08
22:FB:2265:A:C4	49:F3:31:THR:HG21	1.88	1.08
22:FB:465:C:N4	50:F4:39:ARG:HD2	0.96	1.08
22:FB:1266:G:H22	38:FR:37:GLN:CD	1.55	1.08
22:FB:15:G:N2	48:F2:18:MET:HE2	1.68	1.08
22:FB:1072:U:O4	30:FJ:10:LEU:O	1.71	1.08
1:GA:111:G:H5'	16:GP:27:LYS:HG2	1.30	1.08
1:GA:265:G:C2	17:GQ:64:PRO:HB3	1.88	1.08
12:IL:11:VAL:HG22	17:IQ:34:LYS:CD	1.58	1.08
22:JB:64:C:C6	41:JU:70:GLY:CA	2.35	1.08
43:JW:84:TYR:CZ	43:JW:92:VAL:HG21	1.86	1.08
22:BB:1402:G:C5	22:BB:1412:C:N3	2.06	1.08
22:BB:1461:C:H1'	22:BB:1561:A:HO2'	1.12	1.08
22:BB:5:A:C2	22:BB:2872:U:N3	2.16	1.08
22:BB:533:C:C4'	22:BB:550:C:H1'	1.83	1.08
1:CA:1059:C:H4'	14:CN:45:ARG:NH2	1.67	1.08
1:CA:1360:A:H5'	14:CN:35:ARG:HH21	1.10	1.08
22:DB:1809:G:C5'	24:DD:157:ARG:HH11	1.63	1.08
22:DB:1816:G:H21	24:DD:252:LYS:CD	1.66	1.08
23:DA:79:U:OP2	43:DW:10:PRO:HG3	1.50	1.08
22:FB:339:U:O2'	42:FV:76:LEU:CB	2.00	1.08
25:FE:176:ARG:HD2	37:FQ:20:HIS:CE1	1.88	1.08
22:FB:2181:A:O2'	29:FI:24:TYR:CE2	2.06	1.08
22:FB:1041:G:H5''	34:FN:119:PHE:CE2	1.84	1.08
25:FE:19:ARG:CZ	37:FQ:65:SER:CA	2.02	1.08
40:FT:60:ILE:CB	48:F2:25:LEU:CD2	2.20	1.08
22:FB:347:C:O2	42:FV:10:HIS:CE1	2.06	1.08
1:GA:580:U:H4'	15:GO:57:LEU:HD23	1.14	1.08
1:GA:922:G:H1	1:GA:1395:C:N4	1.50	1.08
1:GA:1373:G:H5'	7:GG:36:LYS:H	0.96	1.08
22:HB:1805:G:H2'	24:HD:52:ARG:NE	1.67	1.08
1:IA:1115:C:H6	14:IN:61:TRP:HB2	0.93	1.08
22:JB:402:A:N1	22:JB:2392:G:H4'	1.67	1.08
34:JN:32:ASP:O	43:JW:117:VAL:CG1	1.85	1.08
22:JB:2811:G:H4'	37:JQ:4:HIS:HE1	1.11	1.08
22:JB:2820:C:C5'	37:JQ:62:SER:OG	0.79	1.08
22:JB:509:U:O2'	42:JV:54:ILE:O	1.70	1.08
1:AA:529:G:H1	12:AL:46:LYS:HB3	1.12	1.08
1:AA:760:G:H2'	17:AQ:103:GLY:H	1.13	1.08

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:BB:1437:A:C4	22:BB:1438:G:N7	2.21	1.08
22:BB:659:G:N2	51:B5:46:LYS:HE2	1.67	1.08
22:BB:676:G:C2	22:BB:950:G:H4'	1.88	1.08
22:BB:625:A:H4'	26:BF:38:ARG:HD3	1.15	1.08
1:CA:619:U:C6	4:CD:133:VAL:HG13	1.89	1.08
22:DB:1021:A:H5'	38:DR:66:ASN:OD1	1.54	1.08
22:DB:2229:G:H2'	34:DN:84:MET:CB	1.83	1.08
22:DB:338:G:N2	42:DV:10:HIS:ND1	2.01	1.08
22:DB:1673:C:C6	25:DE:136:ARG:CZ	2.37	1.08
25:DE:151:TYR:O	31:DK:106:TYR:OH	1.69	1.08
22:DB:2448:A:C4'	34:DN:58:HIS:CE1	2.34	1.08
1:EA:1103:C:O4'	2:EB:108:ILE:HG23	1.53	1.08
1:EA:1273:G:N2	1:IA:1264:C:H5''	1.66	1.08
1:EA:640:A:O2'	8:EH:127:LEU:HB3	1.53	1.08
22:FB:1628:C:O2	50:F4:3:ARG:HB2	1.53	1.08
22:FB:3866:A:H1'	53:F7:195:LYS:HD3	1.10	1.08
22:FB:2240:C:H4'	22:FB:2366:U:H2'	1.14	1.08
22:FB:468:A:OP1	41:FU:67:ARG:HG2	1.52	1.08
22:FB:2786:G:H5'	25:FE:59:VAL:HA	1.34	1.08
1:GA:1249:C:C2'	9:GI:69:GLY:HA2	1.84	1.08
13:GM:85:GLY:O	19:GS:74:PHE:CD2	2.05	1.08
22:HB:1805:G:H2'	24:HD:52:ARG:HE	1.15	1.08
22:HB:2340:C:H6	51:H5:26:LYS:NZ	1.49	1.08
22:HB:71:A:H5'	45:HY:54:ASN:OD1	1.51	1.08
22:JB:231:G:N2	51:J5:7:HIS:CD2	2.22	1.08
22:JB:2820:C:H5'	37:JQ:62:SER:HB3	1.20	1.08
22:JB:64:C:C5	41:JU:70:GLY:CA	2.37	1.08
1:AA:1220:G:N3	19:AS:54:GLY:HA2	1.65	1.08
1:AA:1349:A:O3'	9:AI:121:ARG:CG	2.01	1.08
22:BB:1972:G:H5''	32:BL:7:ARG:HH12	1.14	1.08
22:BB:2344:G:OP1	44:BX:41:ARG:CA	2.02	1.08
22:BB:888:G:N3	43:BW:165:GLU:HG2	1.67	1.08
22:BB:887:G:H1'	43:BW:167:THR:HA	1.34	1.08
1:CA:1382:C:H4'	7:CG:79:ARG:HG3	1.25	1.08
22:DB:680:U:H5''	33:DM:48:PHE:CE1	1.89	1.08
22:DB:2494:C:O3'	31:DK:108:GLY:HA2	1.53	1.08
22:DB:865:A:N9	46:DZ:39:ALA:CB	1.99	1.08
1:EA:376:G:OP1	16:EP:6:LEU:HD13	1.54	1.08
13:EM:88:ARG:O	13:EM:98:VAL:CG1	2.00	1.08
6:EF:50:TYR:HB3	18:ER:80:PRO:HB3	1.31	1.08
22:FB:1636:G:C5'	50:F4:1:MET:HE3	1.83	1.08

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:FA:77:G:O2'	43:FW:31:SER:CB	2.00	1.08
22:FB:1265:G:N3	38:FR:33:ARG:HA	1.51	1.08
22:FB:64:C:C4	41:FU:69:ILE:O	1.85	1.08
22:FB:312:G:H5'	42:FV:89:GLY:HA2	1.35	1.08
34:FN:36:ILE:N	43:FW:74:ARG:HH12	1.50	1.08
1:GA:1226:C:H42	13:GM:104:ARG:NE	1.39	1.08
22:HB:1376:C:H5''	47:H1:55:ARG:CZ	1.82	1.08
22:HB:2671:C:H1'	22:HB:2822:U:C1'	1.83	1.08
22:HB:512:A:H5'	40:HT:17:GLN:HG3	1.29	1.08
22:HB:2373:C:OP2	33:HM:62:LYS:CE	2.01	1.08
22:HB:636:G:N1	33:HM:97:ARG:NH2	2.01	1.08
22:HB:1746:A:OP2	37:HQ:124:VAL:CG2	2.01	1.08
1:IA:128:G:H4'	17:IQ:61:GLU:HG2	1.10	1.08
1:IA:782:A:H4'	1:IA:1515:C:C4'	1.84	1.08
1:IA:590:C:H4'	8:IH:30:ARG:HH21	1.18	1.08
22:JB:348:U:H5'	42:JV:13:LYS:HB2	1.35	1.08
22:JB:48:A:N1	22:JB:154:U:O4	1.86	1.08
22:JB:673:G:OP1	26:JF:92:ASP:C	1.89	1.08
22:JB:1583:A:C4	24:JD:84:TYR:HD1	1.59	1.08
1:AA:1230:C:O2	13:AM:125:ARG:CD	2.01	1.08
1:AA:1308:U:P	13:AM:97:PRO:HB3	1.93	1.08
1:AA:658:G:H5'	15:AO:8:LYS:HZ2	1.15	1.08
22:BB:1135:C:C2'	52:B6:4:ARG:HA	1.81	1.08
22:BB:1416:A:H5'	22:BB:1485:U:C1'	1.65	1.08
22:BB:2370:G:O3'	22:BB:2371:A:P	2.11	1.08
25:BE:181:LEU:CD2	37:BQ:12:LEU:HD21	1.83	1.08
22:BB:1238:A:H5''	39:BS:73:LYS:HA	1.30	1.08
1:CA:408:A:H4'	4:CD:112:VAL:HG11	1.09	1.08
13:CM:87:TYR:O	13:CM:91:ARG:HD3	1.53	1.08
22:DB:1797:C:O2'	24:DD:49:ILE:HD12	1.53	1.08
22:DB:2796:A:OP2	25:DE:191:ALA:HB1	1.52	1.08
1:EA:973:G:H4'	10:EJ:54:PHE:CZ	1.86	1.08
6:EF:48:LEU:HB3	18:ER:77:GLY:O	1.53	1.08
22:FB:2039:G:H1'	48:F2:5:PRO:HD3	1.29	1.08
22:FB:2311:U:H5''	44:FX:70:ILE:HG22	1.12	1.08
22:FB:591:G:P	38:FR:32:TYR:CE2	2.45	1.08
38:FR:88:ILE:O	39:FS:51:ALA:HB3	1.46	1.08
1:GA:324:G:C5'	20:GT:15:ARG:NH2	2.14	1.08
22:HB:2815:C:OP1	35:HO:50:GLN:HA	1.52	1.08
22:HB:494:A:H1'	42:HV:56:LYS:HB3	1.19	1.08
1:IA:1061:G:OP2	3:IC:2:GLY:N	1.86	1.08

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:IA:637:G:P	17:IQ:5:VAL:CG2	2.40	1.08
22:JB:1335:A:H4'	40:JT:103:LEU:CD2	1.84	1.08
1:IA:1418:A:C2	22:JB:1942:G:H1'	1.86	1.08
22:JB:309:G:OP1	42:JV:93:ARG:HG2	1.50	1.08
22:JB:592:G:O2'	38:JR:5:LYS:HE2	1.48	1.08
5:AE:151:LEU:HD13	8:AH:79:VAL:C	1.69	1.08
1:AA:877:C:O2	8:AH:3:THR:CA	1.99	1.08
1:AA:1412:C:H5''	12:AL:65:GLU:OE2	1.49	1.08
1:AA:975:A:N7	14:AN:34:TYR:HE1	1.51	1.08
22:BB:1804:U:C1'	24:BD:46:ARG:HG2	1.83	1.08
22:BB:2463:G:C2	34:BN:120:ARG:HD3	1.89	1.08
22:BB:2856:U:O4'	35:BO:93:GLY:HA2	1.52	1.08
22:DB:2284:U:OP1	27:DG:152:MET:C	1.92	1.08
22:DB:1261:G:O6	38:DR:3:ARG:HA	1.54	1.08
1:EA:6:G:O6	5:EE:95:ALA:CB	2.00	1.08
1:EA:759:A:N1	17:EQ:98:LEU:HB3	1.69	1.08
1:EA:667:G:H4'	15:EO:51:HIS:ND1	1.67	1.08
22:FB:124:A:O4'	50:F4:19:ARG:CB	2.01	1.08
22:FB:3866:A:N1	53:F7:196:VAL:CG1	2.17	1.08
22:FB:2446:C:H1'	34:FN:117:GLU:OE2	1.53	1.08
22:FB:94:C:H4'	45:FY:36:GLN:HG3	1.16	1.08
1:GA:17:U:O2'	1:GA:1079:G:H1'	1.50	1.08
23:HA:52:G:OP2	36:HP:64:LYS:HB2	1.53	1.08
22:HB:1727:C:C5'	22:HB:2833:C:O2	2.02	1.08
22:HB:494:A:C1'	42:HV:56:LYS:CG	2.32	1.08
22:HB:811:G:C8	26:HF:56:ARG:NH2	2.21	1.08
22:HB:823:U:C2'	33:HM:30:ALA:HB1	1.82	1.08
22:HB:227:G:P	33:HM:59:ARG:HH12	1.75	1.08
22:HB:1263:G:C4'	38:HR:6:THR:HG21	1.84	1.08
22:HB:761:G:H3'	40:HT:111:ARG:N	1.67	1.08
1:IA:877:C:H4'	8:IH:88:LYS:HG2	1.18	1.08
13:IM:86:CYS:HA	19:IS:74:PHE:HA	1.10	1.08
22:JB:3171:A:OP1	53:J7:104:ALA:HB3	1.54	1.08
22:JB:1761:G:H4'	22:JB:1920:A:O2'	1.53	1.08
22:JB:528:G:C4	40:JT:96:TYR:HD2	1.72	1.08
34:JN:36:ILE:CG1	43:JW:74:ARG:HH22	1.65	1.08
1:AA:1347:G:N7	9:AI:107:ARG:HB2	1.68	1.08
1:AA:331:G:OP2	20:AT:10:LEU:CG	2.01	1.08
22:BB:2422:C:O3'	26:BF:62:LYS:HE3	1.53	1.08
22:BB:1142:G:C1'	31:BK:110:LEU:HD23	1.82	1.08
22:DB:176:A:C5	47:D1:30:GLU:HB3	1.89	1.08

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:DB:1162:A:N3	38:DR:78:THR:HG23	1.64	1.08
22:DB:574:C:C4	39:DS:79:GLN:OE1	2.05	1.08
22:DB:2474:G:H4'	34:DN:83:ARG:H	1.19	1.08
34:DN:99:LYS:HG3	43:DW:73:LYS:HG2	1.15	1.08
22:FB:2259:G:N3	22:FB:2367:A:C2	2.22	1.08
27:FG:179:LYS:HZ2	1:IA:1021:G:H5''	0.94	1.08
1:GA:815:A:H2'	1:GA:1526:G:N2	1.67	1.08
1:GA:877:C:C1'	8:GH:3:THR:C	2.16	1.08
1:GA:967:C:H4'	9:GI:128:ARG:CG	1.83	1.08
1:GA:223:U:O4'	20:GT:68:LYS:HE3	1.50	1.08
22:HB:235:C:O2	22:HB:633:G:H5'	1.53	1.08
22:HB:2861:A:N3	48:H2:40:LYS:HB3	1.68	1.08
22:HB:8:A:P	31:HK:36:ASN:HD21	1.76	1.08
1:IA:1320:C:H5''	19:IS:3:ARG:CD	1.84	1.08
29:JI:27:ASN:ND2	47:J1:61:LYS:HE3	1.68	1.08
22:JB:1630:A:OP2	50:J4:3:ARG:NH2	1.85	1.08
22:JB:1829:C:H4'	22:JB:1910:A:H2'	1.28	1.08
22:JB:1385:C:H5''	22:JB:2192:U:C4	1.88	1.08
34:JN:107:VAL:CG2	43:JW:112:LEU:CB	2.28	1.08
22:BB:1377:G:C6	47:B1:3:LYS:CB	2.36	1.08
22:BB:2600:A:O4'	25:BE:158:GLY:HA2	1.48	1.08
1:CA:552:U:H1'	12:CL:31:PRO:HB2	1.36	1.08
6:CF:49:ALA:HB1	18:CR:80:PRO:CD	1.83	1.08
1:CA:673:G:O4'	18:CR:75:ILE:HG12	1.53	1.08
22:DB:2040:A:N1	48:D2:2:ALA:HA	1.69	1.08
22:DB:25:U:H5'	40:DT:100:GLY:CA	1.83	1.08
22:DB:547:U:H4'	31:DK:30:LYS:HG3	1.30	1.08
22:DB:916:U:C1'	43:DW:163:ASP:O	2.02	1.08
22:DB:885:A:O2'	43:DW:118:HIS:NE2	1.85	1.08
1:EA:653:A:C2	8:EH:27:PRO:HG3	1.86	1.08
12:EL:16:GLU:CG	12:EL:19:ARG:NH2	2.16	1.08
22:FB:1290:A:C1'	35:FO:24:GLN:HA	1.84	1.08
22:FB:2629:U:P	32:FL:29:ILE:CD1	2.42	1.08
22:FB:2708:U:C4'	25:FE:21:ILE:HD12	1.61	1.08
1:GA:967:C:C4'	9:GI:128:ARG:HG3	1.82	1.08
22:HB:1485:U:O4	22:HB:1537:U:C4	2.07	1.08
22:HB:2338:C:H5''	51:H5:50:LEU:HB2	1.33	1.08
22:HB:596:C:C6	33:HM:29:THR:HG21	1.87	1.08
1:IA:1297:C:H1'	7:IG:114:ARG:NH1	1.41	1.08
1:IA:134:A:N6	16:IP:25:ARG:NH1	2.01	1.08
22:JB:1167:A:H5'	22:JB:1168:G:C8	1.89	1.08

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:JB:1453:A:O3'	22:JB:1454:U:P	2.12	1.08
22:JB:2411:A:H2	47:J1:30:GLU:HB3	1.14	1.08
22:JB:2707:G:H4'	32:JL:82:LYS:HE2	1.28	1.08
22:JB:760:U:C6	40:JT:111:ARG:CB	2.37	1.08
22:JB:846:A:C1'	33:JM:53:ARG:HD2	1.83	1.08
43:JW:49:THR:H	43:JW:95:SER:CB	1.57	1.08
22:JB:868:U:O2	44:JX:25:LYS:HE2	0.90	1.08
1:AA:1048:G:H5'	14:AN:3:ARG:NE	1.67	1.08
1:AA:429:U:H3'	4:AD:8:VAL:CB	1.83	1.08
1:AA:667:G:H1'	15:AO:49:ASP:CB	1.82	1.08
1:AA:1348:U:OP1	9:AI:110:GLU:CB	2.00	1.08
1:AA:741:G:C1'	15:AO:51:HIS:O	1.97	1.08
22:BB:1135:C:H2'	52:B6:4:ARG:HA	1.09	1.08
22:BB:568:G:H2'	22:BB:569:C:O4'	1.52	1.08
22:BB:1790:G:OP1	24:BD:258:LYS:HG3	1.54	1.08
32:BL:87:SER:HA	37:BQ:82:PRO:O	0.91	1.08
1:CA:436:C:O2'	4:CD:157:LEU:HB3	1.51	1.08
1:CA:587:G:H4'	8:CH:3:THR:HA	1.34	1.08
22:DB:2645:C:N3	28:DH:109:TYR:CE2	2.22	1.08
22:DB:2543:A:C5'	32:DL:37:GLY:HA3	1.83	1.08
1:EA:1313:U:OP2	19:ES:6:LYS:CA	2.02	1.08
23:FA:57:U:O4'	27:FG:26:MET:HE1	1.52	1.08
22:FB:1264:C:O3'	38:FR:36:PHE:CE1	2.07	1.08
22:HB:1746:A:OP1	37:HQ:124:VAL:HG11	1.52	1.08
22:HB:683:A:OP1	33:HM:46:GLY:CA	2.02	1.08
22:HB:869:C:H4'	44:HX:57:HIS:H	0.97	1.08
22:HB:1954:A:N7	24:HD:239:ARG:HB3	1.68	1.08
1:IA:451:A:H5'	16:IP:72:ARG:HH22	1.18	1.08
22:JB:2519:C:OP1	52:J6:4:ARG:NH1	1.85	1.08
22:JB:1747:G:N7	37:JQ:126:LYS:CA	2.16	1.08
43:JW:65:LEU:HD21	43:JW:128:ARG:NE	1.56	1.08
1:AA:1061:G:P	10:AJ:58:ASP:O	2.12	1.07
22:BB:2029:G:H5''	48:B2:19:ARG:HD2	1.31	1.07
22:BB:827:C:OP1	39:BS:83:ARG:O	1.70	1.07
43:BW:48:THR:HG21	43:BW:130:ILE:C	1.71	1.07
22:DB:1173:G:C1'	39:DS:22:VAL:CG1	2.32	1.07
22:DB:1402:G:C6	22:DB:1412:C:N3	2.21	1.07
22:DB:1828:C:N4	22:DB:1888:C:O2	1.86	1.07
22:DB:2492:G:H2'	22:DB:2493:U:C2	1.87	1.07
22:DB:2751:C:H4'	25:DE:202:ALA:CB	1.84	1.07
32:DL:119:ARG:NH2	37:DQ:43:ASN:ND2	2.02	1.07

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:DW:67:LYS:HA	43:DW:128:ARG:CZ	1.83	1.07
1:EA:1189:C:H2'	3:EC:176:HIS:CE1	1.89	1.07
22:FB:95:G:O5'	45:FY:40:PRO:HD3	1.46	1.07
34:FN:106:GLU:CG	43:FW:115:ILE:HG23	1.83	1.07
1:GA:9:G:C5'	5:GE:104:ALA:HB2	1.84	1.07
22:HB:57:G:H2'	22:HB:72:A:C5	1.88	1.07
22:JB:2397:A:OP1	51:J5:41:ILE:CD1	2.02	1.07
22:JB:1743:C:H42	37:JQ:125:MET:C	1.57	1.07
22:JB:595:A:H4'	26:JF:84:PHE:CD1	1.88	1.07
22:JB:647:G:O6	33:JM:109:LEU:HD13	1.53	1.07
22:JB:1470:G:C4	35:JO:60:LEU:CD1	2.36	1.07
5:AE:152:ARG:HH12	8:AH:122:ARG:NH2	1.16	1.07
22:BB:7:G:N1	22:BB:2870:C:N3	2.01	1.07
22:BB:886:A:C1'	43:BW:167:THR:OG1	2.02	1.07
1:CA:1228:C:OP1	13:CM:117:VAL:CG2	1.88	1.07
1:CA:545:C:H5''	4:CD:72:GLU:HB3	1.33	1.07
1:CA:18:C:O2	1:CA:864:A:H1'	1.52	1.07
1:CA:953:G:H1	13:CM:120:LYS:CG	1.64	1.07
1:CA:280:C:H5	17:CQ:88:TYR:CE1	1.63	1.07
22:DB:869:C:OP1	44:DX:57:HIS:CB	2.03	1.07
1:EA:529:G:N2	12:EL:51:ALA:HB2	1.68	1.07
22:FB:1322:G:C1'	50:F4:7:PRO:CG	2.31	1.07
22:FB:504:G:N2	40:FT:78:ASN:CG	2.06	1.07
22:FB:2292:C:H4'	27:FG:37:ASN:OD1	1.53	1.07
22:FB:1162:A:H1'	38:FR:78:THR:HG23	1.12	1.07
23:FA:79:U:OP2	43:FW:10:PRO:HB3	1.47	1.07
1:GA:37:U:C5'	12:GL:124:LYS:HD2	1.82	1.07
1:GA:663:A:H4'	18:GR:64:ARG:NH1	1.66	1.07
22:HB:2591:C:H2'	48:H2:4:HIS:HA	1.34	1.07
22:HB:506:G:O5'	40:HT:82:ASN:O	1.70	1.07
22:HB:511:A:O3'	22:HB:512:A:P	2.12	1.07
22:HB:737:C:O3'	22:HB:738:G:P	2.13	1.07
22:HB:539:A:OP2	31:HK:139:ARG:CB	2.03	1.07
22:HB:1263:G:H4'	38:HR:6:THR:HG21	1.32	1.07
10:IJ:64:GLU:HB3	14:IN:59:ALA:HB2	1.34	1.07
1:IA:684:A:C4	11:IK:39:PRO:CG	2.36	1.07
1:AA:518:C:N4	12:AL:47:LYS:CD	2.02	1.07
13:AM:86:CYS:SG	13:AM:92:HIS:CG	2.46	1.07
1:AA:1187:G:H1'	14:AN:61:TRP:H	1.11	1.07
22:BB:1040:A:H4'	34:BN:125:LYS:NZ	1.11	1.07
22:BB:1796:A:C1'	24:BD:51:SER:HA	1.83	1.07

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:BB:1796:A:H1'	24:BD:51:SER:HA	1.10	1.07
22:BB:2725:C:H4'	28:BH:142:GLY:H	1.10	1.07
22:BB:1236:G:OP2	39:BS:87:ARG:CZ	2.01	1.07
22:BB:1237:G:C4'	39:BS:87:ARG:H	1.67	1.07
34:BN:63:GLY:HA3	43:BW:112:LEU:HD23	1.30	1.07
22:DB:413:G:O6	47:D1:63:PHE:CE2	2.06	1.07
22:DB:1795:C:C4'	24:DD:250:TRP:CZ2	2.37	1.07
1:EA:1439:C:OP1	20:ET:34:LYS:CD	2.02	1.07
22:FB:1469:U:O4	35:FO:60:LEU:CD1	1.89	1.07
22:FB:1516:A:H1'	24:FD:98:ALA:HB1	1.36	1.07
22:FB:231:G:C2	51:F5:4:MET:SD	2.47	1.07
22:FB:1150:C:OP1	31:FK:51:LEU:C	1.93	1.07
22:FB:1274:C:P	40:FT:118:LYS:HE3	1.94	1.07
22:FB:506:G:OP1	40:FT:22:LYS:C	1.93	1.07
22:FB:60:A:H5''	45:FY:31:GLN:NE2	1.67	1.07
22:FB:75:C:H1'	45:FY:48:ARG:HD2	1.13	1.07
10:GJ:65:LEU:HB2	14:GN:56:VAL:CB	1.61	1.07
12:GL:11:VAL:CG2	17:GQ:32:TYR:CB	2.18	1.07
22:HB:3876:A:C6	53:H7:44:GLY:HA3	1.89	1.07
1:GA:1517:G:C8	22:HB:1903:C:P	2.47	1.07
22:HB:658:G:C1'	22:HB:2330:G:OP1	2.01	1.07
22:HB:2343:C:C5'	44:HX:40:GLN:HB2	1.82	1.07
22:HB:2861:A:N6	48:H2:40:LYS:NZ	2.01	1.07
22:HB:916:U:C2'	43:HW:166:LEU:CD1	2.32	1.07
22:JB:2074:U:N3	47:J1:42:PHE:HB3	1.19	1.07
1:AA:970:C:O2	13:AM:126:LYS:CD	2.02	1.07
23:BA:59:A:H5''	27:BG:23:SER:HB3	1.36	1.07
22:BB:187:U:C5'	50:B4:26:SER:OG	2.02	1.07
22:BB:1798:G:H5'	24:BD:49:ILE:HD11	1.16	1.07
1:CA:413:G:N2	4:CD:31:CYS:SG	2.26	1.07
5:CE:140:ARG:NE	8:CH:72:PRO:HD2	1.68	1.07
25:DE:52:ALA:HB1	37:DQ:5:ILE:HG21	1.15	1.07
1:EA:827:U:H4'	8:EH:19:VAL:HG11	1.11	1.07
22:FB:1237:G:H5''	39:FS:87:ARG:CD	1.84	1.07
22:FB:1291:G:OP1	35:FO:35:GLN:O	1.71	1.07
22:FB:2810:A:N7	37:FQ:6:LYS:CG	2.16	1.07
22:FB:60:A:H5''	45:FY:31:GLN:HE22	0.96	1.07
1:GA:127:G:O3'	17:GQ:2:PRO:O	1.70	1.07
1:GA:751:U:C4'	15:GO:23:GLY:O	2.02	1.07
22:HB:2826:C:H5'	35:HO:61:HIS:ND1	1.17	1.07
1:IA:1393:U:O2'	1:IA:1394:A:P	2.12	1.07

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:IG:16:LEU:HG	9:II:42:ARG:HA	1.08	1.07
1:IA:608:A:C2	16:IP:31:LYS:HD3	1.88	1.07
22:JB:1138:A:C2	52:J6:4:ARG:NH2	2.22	1.07
22:JB:3122:U:H1'	53:J7:158:LYS:HG3	1.37	1.07
22:JB:419:G:H4'	53:J7:197:GLU:OE1	1.52	1.07
22:JB:512:A:O3'	40:JT:15:LYS:O	1.72	1.07
22:JB:543:G:H3'	38:JR:22:LYS:HZ1	0.96	1.07
22:JB:576:A:H5'	33:JM:40:ARG:HH12	1.15	1.07
22:JB:491:A:C5'	42:JV:72:ARG:HG2	1.83	1.07
43:JW:84:TYR:CD2	43:JW:92:VAL:HG23	1.89	1.07
1:AA:942:G:H21	9:AI:124:GLN:CB	1.64	1.07
1:AA:958:A:C4	19:AS:56:GLN:NE2	2.23	1.07
22:BB:226:C:C5	47:B1:28:ARG:NH2	1.80	1.07
22:BB:2029:G:C5'	48:B2:19:ARG:HD2	1.85	1.07
22:BB:504:G:N2	40:BT:77:ALA:HB3	1.67	1.07
1:CA:1382:C:C5'	7:CG:79:ARG:HD2	1.85	1.07
1:CA:741:G:H4'	15:CO:55:GLY:HA3	1.09	1.07
22:DB:1234:C:H4'	39:DS:68:LYS:HD3	1.34	1.07
22:DB:1790:G:OP1	24:DD:258:LYS:HG3	1.53	1.07
22:DB:1674:C:OP1	25:DE:134:TRP:HB3	1.54	1.07
1:EA:1239:A:C3'	7:EG:115:ARG:HG3	1.85	1.07
1:EA:392:G:H5'	16:EP:13:HIS:HB2	1.26	1.07
1:EA:653:A:C6	8:EH:27:PRO:HG2	1.89	1.07
22:FB:1308:C:H5'	35:FO:22:ARG:O	1.53	1.07
1:GA:19:C:OP1	5:GE:127:ASN:HB2	1.40	1.07
10:GJ:64:GLU:CG	14:GN:58:LYS:CA	2.33	1.07
22:HB:2344:G:OP1	44:HX:41:ARG:CA	2.02	1.07
22:HB:2733:A:H2	52:H6:15:LYS:HE3	0.97	1.07
22:HB:2365:U:C1'	44:HX:37:LEU:CD1	2.32	1.07
1:IA:1349:A:OP1	9:II:121:ARG:CG	2.02	1.07
12:IL:11:VAL:CG2	17:IQ:34:LYS:HD2	1.56	1.07
22:JB:462:G:OP1	26:JF:46:ARG:NH2	1.85	1.07
22:JB:1790:G:N2	24:JD:177:LEU:HD13	1.70	1.07
22:JB:505:G:O2'	40:JT:82:ASN:HB3	1.35	1.07
1:AA:529:G:N2	12:AL:49:ASN:HB2	1.67	1.07
1:AA:265:G:C1'	17:AQ:64:PRO:O	2.03	1.07
22:BB:1176:U:O2	22:BB:1198:C:H1'	1.54	1.07
22:BB:1989:C:H1'	22:BB:2798:A:H1'	1.33	1.07
22:BB:494:A:C2	42:BV:56:LYS:CG	2.37	1.07
25:BE:174:GLU:OE1	37:BQ:20:HIS:NE2	1.87	1.07
22:BB:596:C:C2'	33:BM:29:THR:HG21	1.83	1.07

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:BB:888:G:C1'	43:BW:165:GLU:OE1	0.78	1.07
1:CA:1148:U:H5'	9:CI:16:ARG:HE	1.13	1.07
3:CC:132:ARG:NH1	4:CD:47:ARG:NH1	2.02	1.07
22:DB:2328:G:H3'	51:D5:42:ARG:CD	1.83	1.07
25:DE:26:VAL:HG22	37:DQ:3:THR:OG1	1.52	1.07
22:FB:6:A:N3	31:FK:162:LYS:NZ	2.03	1.07
22:FB:1265:G:C5'	38:FR:32:TYR:HE1	1.68	1.07
22:FB:979:A:C4'	46:FZ:13:PRO:CB	1.84	1.07
1:GA:728:A:OP1	15:GO:51:HIS:HD2	1.34	1.07
22:HB:1887:G:O3'	22:HB:1888:C:P	2.13	1.07
22:HB:3177:C:H4'	53:H7:163:PRO:HD2	1.27	1.07
13:GM:93:ARG:NH2	22:HB:900:U:H6	1.53	1.07
22:HB:1583:A:N6	24:HD:89:SER:OG	1.88	1.07
1:IA:684:A:C1'	11:IK:39:PRO:CD	2.25	1.07
33:JM:67:ASN:HB3	51:J5:11:LYS:HG3	1.09	1.07
22:JB:2057:U:OP1	24:JD:230:ASP:HA	1.54	1.07
22:JB:2722:C:H5''	52:J6:35:ARG:NE	1.69	1.07
22:JB:3171:A:N7	53:J7:101:LYS:CD	2.16	1.07
22:JB:1813:A:H5'	24:JD:202:LYS:NZ	1.67	1.07
22:JB:2692:A:H2'	35:JO:14:SER:HB2	1.23	1.07
22:JB:2670:C:P	35:JO:17:ARG:NH2	2.26	1.07
1:AA:1455:G:H21	1:AA:1456:A:H5'	1.18	1.07
1:AA:509:A:N9	4:AD:54:TYR:HE2	1.49	1.07
1:AA:760:G:C2'	17:AQ:102:GLY:HA2	1.85	1.07
22:BB:2040:A:H4'	48:B2:8:LYS:HZ1	1.07	1.07
22:BB:1143:A:C2	31:BK:103:TYR:CB	2.36	1.07
33:BM:58:ALA:HB1	51:B5:9:MET:CG	1.84	1.07
22:BB:2814:G:O3'	35:BO:50:GLN:CA	2.01	1.07
1:CA:932:C:P	7:CG:3:ARG:CB	2.43	1.07
1:CA:1382:C:H5''	7:CG:79:ARG:HD2	1.27	1.07
22:DB:2039:G:C1'	48:D2:5:PRO:HG3	1.74	1.07
22:DB:566:U:H5'	31:DK:74:MET:HE1	1.28	1.07
22:DB:696:U:H5'	50:D4:16:HIS:HE1	1.17	1.07
22:DB:1238:A:O3'	39:DS:73:LYS:CG	2.03	1.07
1:EA:922:G:C2'	5:EE:19:MET:HE1	1.85	1.07
1:EA:973:G:O4'	10:EJ:54:PHE:CZ	2.07	1.07
1:EA:686:U:C1'	11:EK:42:TRP:HZ2	1.65	1.07
22:FB:114:C:H5''	50:F4:19:ARG:HH12	0.95	1.07
22:FB:1269:G:H21	26:FF:76:THR:CA	1.68	1.07
22:FB:1469:U:C5	35:FO:60:LEU:CD1	2.35	1.07
22:FB:3877:A:C3'	22:FB:1861:G:P	2.43	1.07

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:FB:1405:A:N6	41:FU:15:LYS:HB2	1.67	1.07
1:IA:1392:G:H21	1:IA:1502:A:C5'	1.66	1.07
1:IA:815:A:C3'	1:IA:1526:G:H21	1.55	1.07
1:IA:1373:G:H5'	7:IG:36:LYS:N	1.70	1.07
22:JB:2489:C:O2'	25:JE:125:GLY:CA	2.03	1.07
22:JB:2741:G:H1'	28:JH:143:GLN:NE2	1.67	1.07
22:BB:2338:C:O3'	51:B5:49:VAL:HG13	1.53	1.07
25:BE:51:TYR:HE1	37:BQ:5:ILE:HG13	1.05	1.07
22:BB:2723:C:C1'	28:BH:150:LYS:CE	2.33	1.07
1:CA:1256:A:N6	3:CC:26:LYS:NZ	2.01	1.07
1:CA:234:C:O3'	17:CQ:70:ARG:HG2	1.03	1.07
22:DB:2710:C:H5''	25:DE:169:ASN:OD1	1.45	1.07
22:DB:1150:C:OP1	31:DK:51:LEU:C	1.93	1.07
22:DB:648:A:C2	33:DM:109:LEU:CG	2.35	1.07
22:DB:868:U:C2	44:DX:25:LYS:HD3	1.90	1.07
4:ED:205:GLU:CA	5:EE:101:ILE:HG12	1.84	1.07
1:EA:968:A:OP1	9:EI:125:TYR:CD2	2.08	1.07
1:EA:538:G:O3'	12:EL:114:LYS:HB2	1.46	1.07
1:EA:279:A:H1'	17:EQ:98:LEU:HD21	1.28	1.07
22:FB:2600:A:H1'	25:FE:158:GLY:HA2	1.07	1.07
22:FB:29:U:O4'	38:FR:8:ILE:CD1	2.01	1.07
43:FW:85:MET:O	43:FW:91:PRO:HB3	1.30	1.07
7:GG:44:TYR:OH	9:GI:41:VAL:CG2	2.03	1.07
10:GJ:50:ILE:C	14:GN:45:ARG:CD	2.23	1.07
1:GA:376:G:H5'	16:GP:28:ARG:NH2	1.69	1.07
1:GA:274:A:C5'	17:GQ:14:LYS:HG2	1.81	1.07
22:HB:3179:C:P	53:H7:38:GLY:HA2	1.95	1.07
22:HB:1075:C:C5'	30:HJ:84:ILE:HG23	1.83	1.07
22:HB:1856:U:H3	22:HB:3865:A:N6	1.53	1.07
22:HB:2760:G:OP1	31:HK:145:HIS:ND1	1.87	1.07
25:HE:52:ALA:CB	37:HQ:7:ILE:HD12	1.85	1.07
22:HB:1075:C:OP1	30:HJ:84:ILE:CD1	2.01	1.07
22:HB:868:U:O2	44:HX:25:LYS:HE2	1.55	1.07
1:IA:877:C:H4'	8:IH:88:LYS:CG	1.85	1.07
7:IG:16:LEU:CD2	9:II:42:ARG:HD2	1.84	1.07
40:JT:60:ILE:CG2	48:J2:25:LEU:HD11	1.84	1.07
22:JB:1020:A:H4'	38:JR:62:ILE:HD13	1.22	1.07
22:JB:1810:U:C4	24:JD:154:GLN:CG	2.24	1.07
22:JB:2310:G:O3'	44:JX:71:ASN:HA	0.89	1.07
22:JB:3178:C:H2'	53:J7:39:ILE:HD11	1.34	1.07
26:JF:28:HIS:HB2	33:JM:18:ARG:HE	1.20	1.07

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:JT:40:LEU:HD13	48:J2:20:ARG:HG3	1.11	1.07
13:AM:88:ARG:HB2	13:AM:92:HIS:ND1	1.68	1.07
22:BB:2789:U:O2	48:B2:42:SER:HA	1.51	1.07
22:BB:2039:G:N3	48:B2:5:PRO:HD3	1.68	1.07
22:BB:2600:A:C4'	25:BE:158:GLY:CA	2.33	1.07
1:CA:815:A:C1'	1:CA:1529:G:N1	2.16	1.07
22:DB:2728:A:H4'	28:DH:67:LEU:HD11	1.31	1.07
22:DB:2007:G:H4'	25:DE:149:ARG:HD2	1.34	1.07
1:EA:1273:G:O5'	1:IA:1265:G:C4'	2.01	1.07
22:FB:3866:A:H1'	53:F7:195:LYS:CD	1.84	1.07
22:FB:1003:C:H5'	38:FR:47:TYR:OH	1.50	1.07
22:FB:2292:C:C5'	27:FG:87:ILE:CD1	2.27	1.07
13:GM:84:ILE:HG21	19:GS:65:ASN:O	1.54	1.07
22:HB:2862:G:N2	48:H2:30:LEU:CD2	2.16	1.07
33:HM:63:ARG:HD3	51:H5:8:LYS:HD2	1.23	1.07
22:HB:2075:U:O3'	22:HB:3093:C:P	2.12	1.07
22:HB:2671:C:C1'	22:HB:2822:U:H1'	1.84	1.07
1:IA:922:G:N2	1:IA:1396:A:N6	2.01	1.07
1:IA:686:U:H1'	11:IK:42:TRP:HE1	0.93	1.07
1:IA:247:G:OP2	17:IQ:100:LYS:C	1.91	1.07
12:IL:11:VAL:HG21	17:IQ:35:VAL:C	1.74	1.07
22:JB:2542:U:H5''	32:JL:40:GLY:C	1.75	1.07
22:JB:2241:U:C5	44:JX:14:ARG:C	2.27	1.07
22:BB:2008:C:H1'	31:BK:103:TYR:CZ	1.87	1.07
22:BB:922:A:C2	22:BB:2243:C:H2'	1.90	1.07
22:BB:2462:C:H1'	34:BN:50:ALA:HB1	1.24	1.07
22:BB:332:C:OP2	26:BF:130:THR:HG22	1.54	1.07
22:BB:827:C:H5'	39:BS:84:THR:C	1.73	1.07
22:BB:886:A:N9	43:BW:167:THR:HG21	1.69	1.07
23:DA:106:U:C4'	43:DW:88:TYR:CZ	2.37	1.07
22:DB:2063:A:OP1	47:D1:20:VAL:CG1	2.03	1.07
22:DB:2494:C:C4'	31:DK:108:GLY:HA3	1.59	1.07
22:DB:675:C:C3'	33:DM:26:THR:HA	1.83	1.07
32:DL:91:PHE:HA	37:DQ:79:ARG:NE	1.69	1.07
22:FB:1829:C:O2'	22:FB:1910:A:H1'	1.54	1.07
38:FR:87:ASN:HB3	39:FS:52:GLY:HA3	1.11	1.07
1:GA:9:G:H5''	5:GE:104:ALA:HB1	1.35	1.07
1:GA:951:G:C2	13:GM:125:ARG:O	2.07	1.07
10:GJ:50:ILE:O	14:GN:45:ARG:CD	2.02	1.07
22:HB:506:G:O4'	40:HT:82:ASN:CA	2.03	1.07
1:IA:1439:C:H5''	20:IT:38:LYS:CE	1.85	1.07

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:IA:824:C:O4'	8:IH:3:THR:HG21	1.52	1.07
22:JB:15:G:H2'	48:J2:18:MET:SD	1.95	1.07
23:JA:15:A:OP1	44:JX:53:MET:CE	2.03	1.07
22:JB:1151:U:OP1	31:JK:51:LEU:CD1	2.03	1.07
22:JB:1405:A:C6	41:JU:15:LYS:CE	2.37	1.07
22:JB:2241:U:C6	44:JX:15:ASP:OD1	2.08	1.07
22:JB:644:A:H1'	22:JB:2382:C:O2'	1.55	1.07
22:JB:489:A:H4'	42:JV:74:LEU:C	1.76	1.07
22:JB:509:U:H1'	42:JV:54:ILE:HG22	1.29	1.07
22:JB:716:U:O3'	22:JB:717:G:P	2.12	1.07
1:IA:1462:G:H4'	37:JQ:121:ARG:CZ	1.84	1.07
22:JB:1129:A:C5'	43:JW:76:ARG:NH1	2.18	1.07
1:AA:1308:U:H5''	13:AM:97:PRO:HA	1.12	1.06
1:AA:17:U:P	5:AE:16:THR:HB	1.94	1.06
1:AA:1131:G:H4'	9:AI:2:GLU:CG	1.84	1.06
1:AA:234:C:O2'	17:AQ:61:GLU:HG3	1.37	1.06
22:BB:2334:C:H1'	44:BX:32:LYS:CE	1.58	1.06
22:BB:659:G:H21	51:B5:46:LYS:HE2	0.90	1.06
22:BB:891:A:C2	22:BB:909:C:N3	2.22	1.06
22:BB:1142:G:C4'	31:BK:111:LYS:HB2	1.83	1.06
22:BB:2813:G:H5''	35:BO:8:ARG:NH1	1.69	1.06
22:BB:529:U:C5'	40:BT:39:ARG:HH21	1.67	1.06
1:CA:1092:A:H4'	7:CG:4:ARG:NE	1.67	1.06
22:DB:699:G:N9	50:D4:5:TYR:O	1.87	1.06
22:DB:2291:U:H5''	27:DG:85:VAL:O	1.52	1.06
22:DB:2752:C:O4'	25:DE:166:THR:CG2	2.03	1.06
22:DB:613:A:H61	33:DM:97:ARG:CG	1.68	1.06
22:DB:1163:C:C1'	38:DR:78:THR:HA	1.81	1.06
1:EA:1100:C:N1	2:EB:98:LEU:HD21	1.69	1.06
1:EA:589:C:H4'	8:EH:29:SER:CB	1.83	1.06
13:EM:83:ASP:CB	22:FB:900(A):A:OP1	2.02	1.06
1:GA:927:G:H1'	1:GA:1531:A:N3	1.70	1.06
1:GA:1059:C:H4'	10:GJ:51:ARG:O	1.54	1.06
22:HB:1861:G:C4	53:H7:199:ASN:ND2	2.23	1.06
22:HB:504:G:O2'	40:HT:25:PHE:HB3	1.54	1.06
22:HB:506:G:O4'	40:HT:82:ASN:C	1.93	1.06
22:HB:64:C:C2	22:HB:88:G:N2	2.21	1.06
22:HB:1789:U:C5'	24:HD:257:LEU:CG	2.33	1.06
22:HB:1789:U:C5'	24:HD:257:LEU:HB3	1.75	1.06
22:HB:2365:U:C4'	44:HX:37:LEU:CD1	2.32	1.06
22:HB:95:G:C4'	45:HY:45:GLN:HG2	1.84	1.06

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:IA:1148:U:H5'	9:II:66:ARG:NH2	1.63	1.06
1:IA:814:A:C4'	1:IA:1511:G:C5'	2.15	1.06
22:JB:3171:A:C8	53:J7:101:LYS:HD3	1.89	1.06
23:JA:115:G:H22	36:JP:49:GLN:NE2	1.53	1.06
22:JB:3176:A:O5'	53:J7:33:ILE:HD13	0.89	1.06
22:JB:2638:G:OP1	28:JH:178:ALA:N	1.66	1.06
1:AA:254:G:O3'	17:AQ:45:HIS:HE1	1.23	1.06
1:AA:760:G:C3'	17:AQ:102:GLY:HA3	1.83	1.06
1:AA:1220:G:H21	19:AS:54:GLY:C	1.57	1.06
22:BB:2240:C:OP2	44:BX:14:ARG:CD	2.03	1.06
22:BB:2343:C:H5''	44:BX:40:GLN:CB	1.84	1.06
1:CA:1455:G:H21	1:CA:1456:A:H5'	1.18	1.06
1:CA:1205:U:C5'	3:CC:195:VAL:HG21	1.85	1.06
1:CA:186:C:H4'	20:CT:78:ALA:HB1	1.37	1.06
22:DB:1566:G:O3'	22:DB:1567:A:P	2.13	1.06
22:DB:2659:C:C1'	25:DE:187:ALA:HA	1.85	1.06
22:DB:2708:U:C4'	25:DE:21:ILE:CG1	2.31	1.06
22:DB:2612:G:C4	25:DE:62:PRO:HG3	1.89	1.06
38:DR:47:TYR:HB2	39:DS:75:LYS:N	1.70	1.06
22:DB:869:C:OP1	44:DX:57:HIS:HB2	1.55	1.06
22:FB:1399:C:N3	22:FB:1414:G:N2	2.01	1.06
22:FB:863:C:C2	46:FZ:39:ALA:O	2.08	1.06
22:FB:969:U:C5	34:FN:21:ASP:HB2	1.81	1.06
25:FE:17:ASN:HA	37:FQ:87:LEU:CD1	1.85	1.06
25:FE:19:ARG:HH21	37:FQ:65:SER:C	1.58	1.06
34:FN:27:TYR:CG	43:FW:73:LYS:CG	2.38	1.06
1:GA:668:G:C2'	15:GO:45:VAL:HG11	1.84	1.06
22:HB:1381:G:C6	47:H1:1:MET:HB2	1.90	1.06
22:HB:759:C:C2'	48:H2:2:ALA:CB	2.33	1.06
1:IA:452:A:O2'	16:IP:72:ARG:CG	2.01	1.06
1:IA:877:C:H5''	8:IH:88:LYS:HE3	1.12	1.06
22:JB:227:G:OP1	22:JB:2372:A:H2	1.39	1.06
1:AA:1382:C:H4'	7:AG:79:ARG:CG	1.83	1.06
1:AA:759:A:N6	17:AQ:98:LEU:HD13	1.61	1.06
10:AJ:49:VAL:HG11	14:AN:45:ARG:CG	1.56	1.06
22:BB:2859:U:C6	48:B2:52:TYR:CE1	2.32	1.06
22:BB:1674:C:P	25:BE:134:TRP:CB	2.43	1.06
1:CA:15:G:N2	1:CA:1080:A:O2'	1.87	1.06
1:CA:781:A:O5'	1:CA:1522:U:O2'	1.71	1.06
22:DB:1810:U:OP1	24:DD:157:ARG:CG	2.02	1.06
22:DB:2738:A:O2'	28:DH:64:LEU:CD1	2.03	1.06

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:EA:583:A:C5'	17:EQ:90:ILE:HD13	1.85	1.06
1:EA:621:A:H5''	4:ED:139:ARG:HE	0.95	1.06
1:EA:827:U:C4'	8:EH:19:VAL:HG11	1.85	1.06
1:EA:1123:A:H1'	10:EJ:38:ILE:HA	1.32	1.06
22:FB:2797:G:OP1	25:FE:111:LYS:HD3	0.90	1.06
1:GA:1225:A:OP1	13:GM:102:ARG:HB2	1.52	1.06
10:GJ:11:PHE:HE1	14:GN:54:PRO:CG	1.68	1.06
22:HB:2334:C:N1	44:HX:32:LYS:HE3	1.70	1.06
23:JA:9:G:H4'	36:JP:32:TYR:OH	1.53	1.06
22:JB:224:G:H1	51:J5:8:LYS:HG3	1.16	1.06
22:JB:673:G:OP1	26:JF:93:TYR:CA	2.03	1.06
22:JB:489:A:N3	42:JV:74:LEU:CD1	2.18	1.06
1:AA:509:A:O4'	4:AD:54:TYR:CD2	2.09	1.06
1:AA:9:G:H5''	5:AE:104:ALA:HB3	1.37	1.06
22:BB:2218:G:C5'	24:BD:230:ASP:CB	2.30	1.06
22:BB:1795:C:H5'	24:BD:250:TRP:HZ2	1.20	1.06
22:BB:1805:G:C5'	24:BD:43:ARG:C	2.22	1.06
1:CA:509:A:O5'	4:CD:54:TYR:CD2	2.07	1.06
22:DB:2040:A:N9	48:D2:3:LYS:O	1.89	1.06
22:DB:910:U:C6	22:DB:911:A:H8	1.73	1.06
22:DB:3093:C:C5'	29:DI:21:LYS:HA	1.83	1.06
22:DB:1237:G:H4'	39:DS:87:ARG:HB3	1.07	1.06
1:EA:958:A:N3	19:ES:55:LYS:HD3	1.70	1.06
1:EA:807:A:OP1	15:EO:48:LYS:NZ	1.87	1.06
1:EA:450:G:N3	16:EP:42:ARG:NH1	2.02	1.06
1:EA:258:G:C3'	20:ET:83:ARG:NH1	2.10	1.06
22:FB:2324:G:H4'	49:F3:40:TYR:CE1	1.90	1.06
22:FB:2265:A:H2'	49:F3:31:THR:HG21	1.33	1.06
22:FB:2760:G:H22	31:FK:125:ARG:NE	1.53	1.06
22:FB:3093:C:H4'	29:FI:21:LYS:CB	1.86	1.06
34:FN:36:ILE:H	43:FW:74:ARG:NH1	1.53	1.06
1:GA:509:A:C5'	4:GD:52:SER:OG	2.02	1.06
22:HB:470:U:O2'	41:HU:69:ILE:CD1	2.03	1.06
22:HB:512:A:O5'	40:HT:16:GLN:HG3	1.10	1.06
1:IA:1058:G:P	3:IC:154:SER:HB2	1.94	1.06
40:JT:44:VAL:HG22	48:J2:20:ARG:HH22	0.90	1.06
22:JB:891:A:OP1	22:JB:892:A:P	2.13	1.06
22:JB:1000:G:N7	46:JZ:10:ILE:CG1	2.18	1.06
1:AA:1131:G:H5''	9:AI:2:GLU:CB	1.75	1.06
1:AA:1349:A:H5'	9:AI:120:ARG:O	1.54	1.06
1:AA:262:A:H5'	20:AT:74:LYS:NZ	1.71	1.06

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:BB:1142:G:C8	31:BK:104:THR:OG1	2.07	1.06
22:BB:1143:A:H2	31:BK:103:TYR:CA	1.66	1.06
22:BB:511:A:C2	40:BT:12:LYS:HA	1.83	1.06
22:BB:1884:A:H1'	24:BD:244:ARG:NH1	1.69	1.06
22:BB:2814:G:OP1	35:BO:46:PRO:HB3	1.54	1.06
22:BB:1050:G:H5'	43:BW:37:LYS:CE	1.85	1.06
1:CA:1148:U:C4'	9:CI:66:ARG:HH22	1.66	1.06
4:CD:205:GLU:HB3	5:CE:101:ILE:HA	1.07	1.06
22:DB:1397:A:C2	22:DB:1418:C:N4	2.22	1.06
22:DB:2552:C:O3'	22:DB:2553:G:P	2.12	1.06
22:DB:2753:C:OP1	25:DE:164:ARG:HG3	1.35	1.06
22:DB:547:U:C5'	31:DK:30:LYS:CD	2.31	1.06
22:DB:699:G:N1	50:D4:5:TYR:CA	2.13	1.06
22:DB:887:G:OP1	43:DW:170:SER:HB2	1.55	1.06
1:EA:1273:G:H5'	1:IA:1265:G:C4'	1.77	1.06
38:FR:91:ASN:OD1	39:FS:10:LYS:HG3	1.54	1.06
38:FR:47:TYR:HB2	39:FS:74:TYR:HB3	1.11	1.06
1:GA:718:G:O6	18:GR:81:PHE:CD2	2.08	1.06
10:GJ:64:GLU:O	14:GN:56:VAL:C	1.91	1.06
22:HB:1261:G:C2	38:HR:3:ARG:HD2	1.90	1.06
22:HB:2551:A:OP1	25:HE:144:ARG:HB3	1.56	1.06
1:IA:1097:C:O3'	2:IB:140:HIS:CE1	2.08	1.06
1:IA:827:U:H4'	8:IH:15:ASN:O	1.54	1.06
12:IL:11:VAL:HB	17:IQ:36:ILE:HG21	1.09	1.06
1:IA:1439:C:C5'	20:IT:38:LYS:HE2	1.84	1.06
22:JB:1630:A:P	50:J4:3:ARG:NH2	2.28	1.06
22:JB:1197:U:OP1	46:JZ:26:ARG:HB2	1.49	1.06
22:JB:3104:C:H5''	53:J7:35:THR:O	1.55	1.06
22:JB:1807:A:C4'	24:JD:63:ARG:NH1	2.18	1.06
1:AA:437:U:O2'	4:AD:119:GLN:NE2	1.87	1.06
1:AA:520:A:OP2	12:AL:50:SER:C	1.94	1.06
22:BB:2333:A:O2'	44:BX:31:VAL:HG12	1.53	1.06
22:BB:2474:G:C3'	34:BN:83:ARG:HG3	1.65	1.06
22:BB:6:A:N6	22:BB:2871:U:O4	1.88	1.06
22:BB:625:A:H4'	26:BF:38:ARG:NE	1.67	1.06
22:BB:683:A:OP1	33:BM:45:LYS:HB2	1.52	1.06
22:BB:2856:U:H5'	35:BO:93:GLY:C	1.75	1.06
1:CA:430:A:OP2	4:CD:8:VAL:HG23	1.56	1.06
1:CA:583:A:N9	17:CQ:91:ARG:HD3	1.68	1.06
1:CA:1230:C:O2	13:CM:126:LYS:HE3	1.55	1.06
22:DB:1043:A:C4'	52:D6:23:VAL:CG2	1.83	1.06

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:DA:92:G:N2	34:DN:22:ALA:CA	2.19	1.06
22:DB:869:C:O4'	44:DX:24:LYS:HG2	1.53	1.06
22:DB:1804:U:H1'	24:DD:46:ARG:CG	1.85	1.06
22:DB:2708:U:H5'	25:DE:21:ILE:HD11	1.11	1.06
34:DN:38:MET:N	43:DW:74:ARG:HG2	1.61	1.06
23:DA:107:C:C5'	43:DW:88:TYR:HB3	1.84	1.06
3:EC:23:TYR:HB3	10:EJ:92:THR:CG2	1.84	1.06
1:EA:236:G:O2'	17:EQ:25:ARG:NH2	1.87	1.06
22:FB:2315:A:C4	44:FX:70:ILE:HD11	1.86	1.06
22:FB:2551:A:C6	25:FE:144:ARG:HB3	1.72	1.06
29:FI:26:ARG:O	47:F1:73:LYS:OXT	1.73	1.06
22:FB:2464:G:O2'	34:FN:122:ALA:O	1.74	1.06
1:GA:1186:G:N2	14:GN:61:TRP:CB	2.18	1.06
1:GA:129:U:O5'	17:GQ:3:LYS:HE2	1.51	1.06
22:HB:2760:G:H5'	31:HK:146:THR:CB	1.66	1.06
22:HB:3188:U:OP1	29:HI:20:VAL:HG12	1.55	1.06
22:HB:567:G:H5'	31:HK:73:ASN:HA	1.28	1.06
22:HB:857:U:C1'	22:HB:946:U:O2	2.03	1.06
22:HB:3188:U:P	29:HI:20:VAL:HG13	1.96	1.06
22:HB:2463:G:H5''	34:HN:44:LYS:HZ2	1.16	1.06
22:HB:568:G:N2	38:HR:49:ASP:OD1	1.88	1.06
1:IA:1228:C:O5'	13:IM:108:ARG:NH2	1.72	1.06
22:JB:10:A:O3'	22:JB:11:G:P	2.12	1.06
22:JB:2260:C:C4'	22:JB:2368:G:N2	2.19	1.06
22:JB:530:G:H1'	40:JT:94:GLU:OE2	1.55	1.06
22:JB:2823:G:H5''	37:JQ:103:LYS:CG	1.79	1.06
23:JA:14:C:O3'	44:JX:53:MET:HE1	0.89	1.06
1:AA:1292:U:C4'	9:AI:38:GLN:OE1	2.04	1.06
1:AA:254:G:C6	17:AQ:16:GLN:HB2	1.91	1.06
22:BB:1175:A:N6	22:BB:1198:C:N3	2.03	1.06
22:BB:137:A:O2'	41:BU:36:THR:CG2	2.02	1.06
22:BB:1453:A:H3'	22:BB:1454:U:H6	1.10	1.06
22:BB:2255:G:OP2	34:BN:86:LYS:HA	1.32	1.06
22:BB:625:A:O4'	26:BF:38:ARG:NE	1.85	1.06
22:BB:888:G:C4	43:BW:165:GLU:CG	2.38	1.06
34:BN:66:TYR:HB2	43:BW:117:VAL:HG21	1.07	1.06
32:BL:91:PHE:CA	37:BQ:79:ARG:HH11	1.48	1.06
1:CA:8:A:O2'	4:CD:209:ARG:CZ	2.04	1.06
1:CA:436:C:H1'	4:CD:157:LEU:HD13	1.35	1.06
1:CA:11:G:O6	5:CE:126:ARG:NH2	1.88	1.06
22:DB:2611:A:N3	25:DE:61:LYS:CE	2.18	1.06

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:DB:965:G:OP1	34:DN:18:MET:HA	0.89	1.06
1:EA:1081:G:C5'	5:EE:18:ARG:HG3	1.86	1.06
1:EA:1313:U:P	19:ES:6:LYS:HG2	1.95	1.06
22:FB:2282:G:H1'	27:FG:129:ASN:CG	1.76	1.06
13:EM:93:ARG:NH2	22:FB:900:U:C5	2.24	1.06
22:FB:2600:A:O4'	25:FE:158:GLY:CA	2.03	1.06
1:GA:106:C:H42	20:GT:14:LYS:CE	1.67	1.06
1:GA:107:G:N2	20:GT:12:ALA:CA	2.17	1.06
22:HB:1276:U:C1'	48:H2:10:LYS:CE	2.28	1.06
22:HB:1995:G:H5'	40:HT:118:LYS:H	0.90	1.06
22:HB:2334:C:H4'	44:HX:21:LEU:HG	1.31	1.06
22:HB:2338:C:C4'	51:H5:52:LYS:HD2	1.84	1.06
22:HB:2494:C:O5'	31:HK:108:GLY:CA	1.96	1.06
22:HB:759:C:C2'	48:H2:2:ALA:HB2	1.85	1.06
22:HB:823:U:H2'	33:HM:30:ALA:HB1	1.11	1.06
1:EA:1263:C:O2	1:IA:1264:C:C4'	2.02	1.06
34:JN:105:PHE:O	43:JW:115:ILE:HG21	1.51	1.06
23:JA:14:C:N4	44:JX:52:GLY:O	1.88	1.06
1:AA:918:A:N1	1:AA:1079:G:N2	2.01	1.06
1:AA:1342:C:H4'	9:AI:125:TYR:CD1	1.90	1.06
5:AE:80:ILE:HG21	8:AH:138:TRP:CH2	1.90	1.06
23:BA:107:C:C3'	43:BW:89:GLY:HA3	1.84	1.06
22:BB:3866:A:C8	53:B7:43:LYS:HD3	1.90	1.06
25:BE:18:ASP:N	37:BQ:87:LEU:CD1	2.19	1.06
1:CA:919:A:O2'	1:CA:1079:G:O6	1.74	1.06
1:CA:928:G:H4'	1:CA:1533:C:H41	1.13	1.06
1:CA:1231:G:N9	13:CM:126:LYS:HE2	1.66	1.06
1:CA:1359:C:OP2	14:CN:35:ARG:CG	2.04	1.06
22:DB:1018:C:H1'	31:DK:134:MET:HG3	1.36	1.06
22:DB:720:A:C6	22:DB:738:G:H1'	1.89	1.06
1:EA:488:C:H4'	4:ED:131:ARG:CD	1.84	1.06
22:FB:1450:G:N2	22:FB:1531:C:H1'	1.71	1.06
22:FB:3093:C:H5'	29:FI:22:ASP:H	0.92	1.06
22:FB:2056:C:H5''	24:FD:229:VAL:CG2	1.86	1.06
22:FB:1142:G:C1'	31:FK:111:LYS:HE2	1.85	1.06
22:FB:503:G:H1'	40:FT:28:ALA:HA	1.36	1.06
1:GA:1495:U:O4'	22:HB:1895:A:C2	2.08	1.06
1:GA:921:U:O2	5:GE:19:MET:HB3	0.88	1.06
1:GA:932:C:OP1	7:GG:4:ARG:CA	2.03	1.06
10:GJ:64:GLU:HG3	14:GN:58:LYS:HA	1.28	1.06
1:GA:1308:U:H5'	13:GM:110:ARG:NH2	1.69	1.06

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:HB:3875:A:N3	53:H7:42:LYS:O	1.89	1.06
22:HB:2629:U:H4'	32:HL:29:ILE:HD13	1.34	1.06
22:JB:593:C:O2	26:JF:76:THR:O	1.73	1.06
22:JB:778:G:OP1	24:JD:214:TRP:CH2	2.09	1.06
22:JB:846:A:N9	33:JM:53:ARG:NH1	2.02	1.06
1:AA:1342:C:H4'	9:AI:125:TYR:HD1	1.01	1.06
1:AA:1013:G:P	19:AS:18:LYS:HD3	1.96	1.06
22:BB:186:C:OP1	50:B4:33:ARG:NH1	1.89	1.06
22:BB:24:G:C1'	40:BT:98:ASP:CG	2.23	1.06
22:BB:2043:A:P	26:BF:66:ASN:HD21	1.78	1.06
23:BA:44:C:HO2'	27:BG:63:GLN:CD	1.51	1.06
34:BN:36:ILE:HG13	43:BW:74:ARG:HA	1.07	1.06
1:CA:815:A:C4	1:CA:1529:G:C4	2.44	1.06
22:DB:2541:U:O3'	32:DL:25:LEU:CD2	2.02	1.06
22:DB:2645:C:C2	28:DH:109:TYR:CE2	2.44	1.06
22:DB:3197:U:O2'	22:DB:2181:A:H8	1.37	1.06
22:DB:507:A:OP2	40:DT:20:LEU:HA	1.51	1.06
22:DB:917:U:H4'	43:DW:122:ILE:N	1.69	1.06
22:FB:469:G:H8	50:F4:40:HIS:CD2	1.74	1.06
22:FB:1007:A:O3'	38:FR:92:ARG:CB	2.04	1.06
22:FB:872:G:H1'	22:FB:2247:A:C2	1.90	1.06
22:FB:29:U:H4'	38:FR:8:ILE:CG2	1.85	1.06
22:FB:346:C:N3	42:FV:79:SER:HB2	1.68	1.06
22:HB:2328:G:OP2	51:H5:41:ILE:CD1	2.03	1.06
22:HB:2357:A:C5'	36:HP:26:ARG:NE	2.18	1.06
22:HB:1468:A:C8	35:HO:77:ARG:CD	2.37	1.06
22:HB:594:G:OP2	38:HR:3:ARG:NH2	1.88	1.06
1:IA:376:G:C4'	16:IP:28:ARG:NH1	2.17	1.06
22:JB:1167:A:C5'	22:JB:1168:G:C8	2.37	1.06
22:JB:2210:C:H5'	47:J1:39:VAL:HG21	1.32	1.06
22:JB:3124:G:H5''	53:J7:62:LYS:N	1.33	1.06
22:JB:2489:C:O2'	25:JE:125:GLY:HA2	1.55	1.06
1:AA:1344:C:H4'	9:AI:120:ARG:HG2	1.08	1.06
12:AL:11:VAL:CG2	17:AQ:29:HIS:CD2	2.39	1.06
1:AA:974:A:C2	14:AN:31:ARG:CG	2.37	1.06
1:AA:108:G:H2'	20:AT:12:ALA:CB	1.78	1.06
22:BB:1239:A:P	39:BS:73:LYS:HG2	1.95	1.06
22:BB:1471:G:N2	22:BB:2681:A:N6	2.03	1.06
22:BB:2724:G:N3	28:BH:143:GLN:CD	2.09	1.06
22:BB:700:C:C5'	50:B4:3:ARG:C	2.24	1.06
1:CA:1456:A:H5''	20:CT:28:ALA:HB3	1.08	1.06

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:DE:151:TYR:C	31:DK:106:TYR:OH	1.92	1.06
22:DB:3093:C:H5''	29:DI:21:LYS:C	1.68	1.06
1:EA:1320:C:N4	19:ES:36:ARG:CG	2.18	1.06
1:EA:958:A:H1'	19:ES:55:LYS:CE	1.85	1.06
22:FB:1203:A:H5''	33:FM:35:LYS:CA	1.85	1.06
22:FB:1288:A:H61	35:FO:19:ALA:CB	1.66	1.06
22:FB:1855:G:H1	22:FB:3877:A:N6	1.53	1.06
22:FB:2653:A:C5'	32:FL:44:TYR:OH	2.04	1.06
22:FB:597:U:C4'	33:FM:28:LYS:HE2	1.84	1.06
22:FB:672:C:H1'	26:FF:96:PRO:HD3	1.34	1.06
22:FB:2811:G:H5'	37:FQ:4:HIS:HE1	1.14	1.06
7:GG:153:HIS:HE2	11:GK:58:PRO:HG2	1.16	1.06
1:GA:230:G:C4'	16:GP:26:ARG:NH2	2.18	1.06
1:GA:274:A:C5'	17:GQ:14:LYS:HG3	1.84	1.06
22:HB:3175:C:O2'	53:H7:206:LYS:CE	2.04	1.06
22:HB:489:A:C5'	42:HV:5:SER:CA	2.24	1.06
22:HB:512:A:C5'	40:HT:17:GLN:HG3	1.85	1.06
22:HB:934:G:H4'	44:HX:23:VAL:HG21	1.37	1.06
22:HB:2236:U:H3'	44:HX:4:LYS:NZ	1.69	1.06
1:IA:1071:C:OP1	5:IE:27:ARG:NH2	1.86	1.06
1:IA:1151:A:C4'	10:IJ:42:THR:HB	1.83	1.06
1:IA:363:A:C6	12:IL:30:ALA:HB2	1.91	1.06
22:JB:2003:A:C8	48:J2:9:LYS:CE	2.36	1.06
22:JB:2463:G:H21	34:JN:120:ARG:HD3	1.15	1.06
22:JB:1074:G:O4'	30:JJ:134:MET:SD	2.12	1.06
1:AA:1308:U:OP1	13:AM:97:PRO:HB3	0.89	1.05
1:AA:1048:G:H5'	14:AN:3:ARG:HE	1.20	1.05
22:BB:1513:U:C4	22:BB:1594:U:OP1	2.08	1.05
22:BB:704:G:H5''	24:BD:218:LYS:HZ1	0.91	1.05
22:BB:1147:G:N2	31:BK:133:GLY:O	1.87	1.05
22:BB:6:A:O2'	31:BK:161:GLN:NE2	1.88	1.05
22:BB:2372:A:C2'	33:BM:60:LEU:H	1.68	1.05
1:CA:1273:G:O4'	1:GA:1265:G:H5''	1.52	1.05
1:CA:666:G:H22	15:CO:52:SER:CB	1.65	1.05
1:CA:1383:C:C5'	7:CG:79:ARG:NH2	2.18	1.05
22:DB:1815:G:P	24:DD:54:ILE:HG21	1.96	1.05
22:DB:1861:G:C5	53:D7:199:ASN:CB	2.29	1.05
22:DB:887:G:C8	43:DW:167:THR:CG2	2.38	1.05
1:EA:1320:C:C4	19:ES:36:ARG:CG	2.39	1.05
1:EA:188:C:N4	20:ET:105:SER:CA	2.19	1.05
1:EA:262:A:H5''	20:ET:74:LYS:HD3	1.15	1.05

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:FB:311:A:P	42:FV:91:ALA:HB3	1.96	1.05
22:FB:456:C:O3'	38:FR:3:ARG:HG2	1.54	1.05
22:FB:1405:A:C6	41:FU:15:LYS:HE2	1.85	1.05
43:FW:51:LEU:CB	43:FW:128:ARG:NH2	2.19	1.05
1:GA:720:C:H1'	18:GR:50:ILE:CB	1.86	1.05
1:GA:735:C:C1'	18:GR:75:ILE:CD1	2.34	1.05
1:GA:559:A:C2	5:GE:126:ARG:HD3	1.90	1.05
1:GA:951:G:N3	13:GM:126:LYS:CG	2.18	1.05
1:GA:376:G:H5'	16:GP:28:ARG:HH22	0.90	1.05
22:HB:2541:U:H4'	32:HL:23:ARG:HH11	1.15	1.05
22:HB:503:G:N2	40:HT:74:SER:OG	1.89	1.05
22:JB:1001:A:H4'	46:JZ:27:LYS:HZ3	1.16	1.05
22:JB:2063:A:H5'	47:J1:33:VAL:HG13	1.09	1.05
22:JB:2823:G:OP1	37:JQ:103:LYS:CD	2.02	1.05
1:AA:1239:A:H2'	7:AG:115:ARG:HD2	1.33	1.05
5:AE:151:LEU:HB3	8:AH:79:VAL:CG1	1.85	1.05
3:AC:58:GLU:C	10:AJ:92:THR:HG21	1.76	1.05
22:BB:1119:U:O3'	22:BB:1120:C:P	2.14	1.05
22:BB:24:G:H1'	40:BT:98:ASP:CB	1.85	1.05
22:BB:2738:A:N1	28:BH:71:LEU:HD11	1.70	1.05
22:BB:2365:U:C1'	44:BX:37:LEU:CD1	2.33	1.05
22:DB:2034:A:H4'	25:DE:141:ILE:HD11	1.08	1.05
22:DB:2350:G:O3'	49:D3:46:LYS:HD3	1.55	1.05
22:DB:648:A:H2	33:DM:109:LEU:CD2	1.67	1.05
22:DB:916:U:N1	43:DW:163:ASP:O	1.89	1.05
22:DB:857:U:O2	22:DB:946:U:O2	1.74	1.05
22:DB:1816:G:N2	24:DD:252:LYS:HE3	1.71	1.05
22:DB:2035:G:H5''	25:DE:142:GLY:HA3	1.30	1.05
22:DB:2007:G:H5'	25:DE:149:ARG:CD	1.84	1.05
22:DB:1992:G:C5'	40:DT:62:ARG:HB2	1.83	1.05
1:EA:1265:G:H4'	1:IA:1272:G:O2'	1.51	1.05
1:EA:958:A:H1'	19:ES:55:LYS:HD3	1.27	1.05
22:FB:1006:C:N3	31:FK:30:LYS:NZ	2.02	1.05
22:FB:156:G:C3'	22:FB:157:G:P	2.42	1.05
22:FB:777:A:P	24:FD:211:ARG:HH21	1.79	1.05
22:FB:458:G:C5'	38:FR:5:LYS:HZ2	1.68	1.05
34:FN:27:TYR:CG	43:FW:73:LYS:HG3	1.90	1.05
22:HB:2550:C:C2'	25:HE:144:ARG:HG3	1.85	1.05
1:IA:641:U:H5'	8:IH:116:LYS:HB3	1.06	1.05
22:JB:2264:C:C4	49:J3:27:ASN:CA	2.29	1.05
22:JB:2262:C:P	49:J3:9:ILE:HD12	1.95	1.05

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:JM:61:PRO:HA	51:J5:27:SER:HB2	1.15	1.05
22:JB:490:A:H5''	42:JV:3:ARG:NH1	1.68	1.05
12:AL:11:VAL:HG21	17:AQ:29:HIS:HB2	1.37	1.05
1:AA:331:G:N2	20:AT:8:ARG:O	1.90	1.05
22:BB:2814:G:N3	35:BO:92:GLY:HA3	1.70	1.05
22:BB:511:A:N1	40:BT:12:LYS:HA	1.70	1.05
22:BB:888:G:N9	43:BW:165:GLU:OE1	1.86	1.05
1:CA:780:A:O2'	1:CA:1523:G:O4'	1.75	1.05
1:CA:15:G:H4'	5:CE:24:ARG:CZ	1.85	1.05
22:DB:1135:C:O2'	52:D6:4:ARG:O	1.71	1.05
22:DB:2751:C:H4'	25:DE:202:ALA:HB3	1.36	1.05
22:DB:885:A:O2'	43:DW:118:HIS:CE1	2.08	1.05
22:DB:548:G:O2'	31:DK:33:ILE:HG22	1.45	1.05
38:DR:47:TYR:HB2	39:DS:75:LYS:H	1.17	1.05
34:DN:99:LYS:CD	43:DW:73:LYS:HZ3	1.69	1.05
34:DN:99:LYS:CD	43:DW:73:LYS:NZ	2.19	1.05
1:EA:1226:C:P	13:EM:91:ARG:HH22	1.78	1.05
1:EA:641:U:C6	8:EH:116:LYS:HG2	1.89	1.05
1:EA:1227:A:C3'	13:EM:111:LYS:NZ	2.15	1.05
22:FB:2003:A:H62	48:F2:9:LYS:HD3	1.21	1.05
22:FB:1154:A:H61	31:FK:52:GLY:HA3	0.95	1.05
22:FB:2265:A:N6	49:F3:32:GLN:O	1.89	1.05
22:FB:2753:C:H4'	25:FE:164:ARG:N	1.61	1.05
22:FB:2614:A:H5''	25:FE:78:LEU:N	1.37	1.05
1:GA:129:U:O5'	17:GQ:3:LYS:CD	1.88	1.05
1:GA:814:A:H4'	1:GA:1511:G:H5'	1.34	1.05
22:HB:1998:A:C6	48:H2:7:PRO:HD2	1.79	1.05
22:HB:2365:U:O2'	44:HX:37:LEU:CD1	2.04	1.05
22:HB:544:U:OP2	38:HR:22:LYS:HD3	0.89	1.05
22:JB:64:C:H1'	41:JU:69:ILE:HG23	1.39	1.05
22:JB:814:G:N2	26:JF:50:GLN:OE1	1.90	1.05
1:AA:1343:G:C5'	9:AI:122:ALA:HB3	1.87	1.05
1:AA:815:A:O2'	1:AA:1527:C:C1'	2.05	1.05
6:AF:81:ILE:C	24:BD:137:PRO:HB3	1.53	1.05
1:AA:43:C:H5''	16:AP:12:LYS:CB	1.86	1.05
22:BB:1143:A:N1	31:BK:103:TYR:CD2	2.24	1.05
1:CA:1239:A:C2'	7:CG:115:ARG:CD	2.33	1.05
22:DB:1044:U:OP1	52:D6:16:VAL:CG1	2.05	1.05
1:EA:523:A:C6	12:EL:90:VAL:HG22	1.91	1.05
1:EA:779:C:H1'	11:EK:120:ARG:CD	1.87	1.05
1:EA:919:A:O3'	1:EA:920:U:P	2.14	1.05

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:EA:827:U:H4'	8:EH:19:VAL:CG1	1.85	1.05
12:EL:16:GLU:HG2	12:EL:19:ARG:HH21	1.22	1.05
33:FM:63:ARG:HD3	51:F5:9:MET:HE1	1.38	1.05
22:FB:2399:C:C3'	51:F5:32:GLN:NE2	2.11	1.05
22:FB:891:A:N1	22:FB:909:C:C2	2.24	1.05
22:FB:1292:A:O3'	35:FO:33:ARG:NE	1.79	1.05
1:GA:1240:U:OP1	7:GG:115:ARG:CG	2.04	1.05
1:GA:17:U:H5'	5:GE:16:THR:CG2	1.87	1.05
1:GA:728:A:P	15:GO:51:HIS:HD2	1.78	1.05
1:GA:236:G:H4'	17:GQ:25:ARG:NE	1.69	1.05
1:GA:718:G:N7	18:GR:81:PHE:CZ	2.24	1.05
22:HB:1018:C:H5''	31:HK:63:ARG:HD2	1.33	1.05
22:HB:1040:A:HO2'	34:HN:123:GLY:C	1.59	1.05
22:HB:2334:C:C4'	44:HX:21:LEU:HG	1.86	1.05
22:HB:514:G:C2	40:HT:14:ARG:CG	2.38	1.05
22:HB:916:U:H2'	43:HW:166:LEU:CD1	1.85	1.05
38:HR:94:VAL:HG11	39:HS:10:LYS:HE2	1.37	1.05
1:IA:128:G:H4'	17:IQ:61:GLU:CG	1.85	1.05
1:IA:686:U:H1'	11:IK:42:TRP:NE1	1.71	1.05
5:IE:151:LEU:HD21	8:IH:77:GLU:OE2	1.56	1.05
1:IA:1194:U:C4'	5:IE:22:GLY:HA3	1.86	1.05
13:IM:86:CYS:HB2	19:IS:74:PHE:CD2	1.92	1.05
22:JB:1807:A:H5'	24:JD:63:ARG:HH12	1.17	1.05
22:JB:489:A:H5'	42:JV:75:ALA:HB2	1.08	1.05
1:AA:918:A:C2	1:AA:1079:G:N2	2.23	1.05
1:AA:1225:A:H5'	13:AM:103:THR:OG1	1.55	1.05
22:BB:1416:A:C4'	22:BB:1485:U:H4'	1.84	1.05
22:BB:1583:A:C1'	24:BD:84:TYR:HE1	1.64	1.05
22:BB:1142:G:N9	31:BK:110:LEU:HD22	1.70	1.05
1:CA:1309:G:OP1	13:CM:98:VAL:CB	2.05	1.05
1:CA:1108:G:P	3:CC:176:HIS:HB2	1.96	1.05
1:CA:275:G:N3	17:CQ:15:MET:SD	2.28	1.05
22:DB:2034:A:H4'	25:DE:141:ILE:CD1	1.86	1.05
22:DB:2751:C:C4'	25:DE:202:ALA:CB	2.33	1.05
1:EA:134:A:C4	16:EP:25:ARG:NH1	1.96	1.05
1:EA:633:G:H4'	17:EQ:28:PRO:HD2	1.37	1.05
22:FB:1411:C:C3'	22:FB:1412:C:C6	2.40	1.05
22:FB:1488:G:O6	22:FB:1533:G:C6	2.08	1.05
22:FB:2326:C:C4'	49:F3:40:TYR:OH	2.03	1.05
25:FE:18:ASP:CG	32:FL:85:ASP:HA	1.74	1.05
29:FI:1:MET:HG3	47:F1:68:ARG:HH22	1.17	1.05

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:FB:23:G:H1'	40:FT:96:TYR:HE2	0.96	1.05
1:GA:1373:G:H5''	7:GG:36:LYS:N	1.69	1.05
1:GA:15:G:O2'	5:GE:17:ALA:HB2	1.56	1.05
1:GA:437:U:O2'	4:GD:119:GLN:NE2	1.90	1.05
1:GA:933:G:O6	7:GG:3:ARG:NH2	1.90	1.05
1:GA:951:G:O2'	13:GM:126:LYS:HB3	1.26	1.05
12:GL:10:LEU:O	17:GQ:32:TYR:CZ	2.07	1.05
1:GA:719:C:O2'	18:GR:49:LYS:CB	2.02	1.05
22:HB:1998:A:N3	48:H2:6:VAL:HG12	1.71	1.05
1:EA:1266:G:OP2	1:IA:1273:G:C3'	1.78	1.05
1:IA:927:G:H5''	1:IA:1503:A:O5'	1.55	1.05
26:JF:25:GLY:O	33:JM:19:VAL:HG22	1.56	1.05
22:JB:1744:G:C5	37:JQ:124:VAL:HG22	1.90	1.05
22:BB:2789:U:O2	48:B2:41:LEU:O	1.75	1.05
35:BO:99:ARG:HE	48:B2:44:HIS:CD2	1.74	1.05
22:BB:2860:C:H1'	48:B2:34:PRO:HB3	1.38	1.05
22:BB:1075:C:H5'	30:BJ:84:ILE:HD12	1.35	1.05
22:BB:544:U:H4'	38:BR:46:GLU:HG3	1.35	1.05
22:BB:497:C:C1'	40:BT:80:LEU:HD12	1.84	1.05
1:CA:335:C:H1'	1:CA:1434:A:C2	1.91	1.05
15:CO:89:GLY:H	22:DB:729:A:P	1.78	1.05
23:DA:117:G:C4'	36:DP:52:ALA:HA	1.85	1.05
22:DB:2856:U:H4'	35:DO:93:GLY:CA	1.75	1.05
22:DB:967:G:O5'	34:DN:76:THR:O	1.74	1.05
34:DN:99:LYS:HB2	43:DW:73:LYS:HG3	1.34	1.05
22:DB:1238:A:O3'	39:DS:73:LYS:HG2	1.57	1.05
23:DA:106:U:O3'	43:DW:88:TYR:CG	2.08	1.05
1:EA:1264:C:H1'	1:IA:1272:G:N2	1.70	1.05
1:EA:407:G:H4'	4:ED:116:GLN:CB	1.86	1.05
1:EA:9:G:OP2	4:ED:209:ARG:NH2	1.90	1.05
6:EF:49:ALA:HB2	18:ER:79:LEU:HA	1.37	1.05
1:EA:1367:C:C1'	10:EJ:60:ARG:HH22	1.70	1.05
1:EA:583:A:H5'	17:EQ:90:ILE:HG21	1.38	1.05
1:EA:104:G:N7	20:ET:14:LYS:NZ	2.04	1.05
22:FB:124:A:C5'	50:F4:19:ARG:HE	1.70	1.05
22:FB:1827:G:N2	22:FB:1913:G:N3	2.05	1.05
29:FI:26:ARG:HG3	47:F1:72:LYS:O	1.51	1.05
22:FB:565:A:H2'	31:FK:74:MET:SD	1.96	1.05
22:FB:969:U:C5	34:FN:21:ASP:CB	2.01	1.05
22:FB:1670:G:O6	35:FO:11:ASN:HA	1.55	1.05
38:FR:91:ASN:ND2	39:FS:10:LYS:HG3	1.64	1.05

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:FB:63:A:O5'	41:FU:62:ARG:HD3	1.37	1.05
1:GA:1225:A:C5'	13:GM:104:ARG:N	2.06	1.05
1:GA:1392:G:C2	1:GA:1502:A:H5'	1.65	1.05
1:GA:958:A:C6	19:GS:77:THR:HG22	1.90	1.05
1:GA:659:U:H5'	15:GO:5:LYS:HG3	1.08	1.05
1:GA:254:G:N3	17:GQ:16:GLN:O	1.88	1.05
22:HB:3171:A:P	53:H7:131:ARG:HH21	1.76	1.05
22:HB:3877:A:P	53:H7:40:ASP:OD2	2.15	1.05
22:HB:470:U:O2'	41:HU:69:ILE:HD11	1.56	1.05
25:HE:76:ARG:NH2	37:HQ:2:GLN:CD	2.08	1.05
1:IA:1228:C:N4	13:IM:104:ARG:CD	1.95	1.05
1:IA:1359:C:H5'	14:IN:31:ARG:HG3	1.11	1.05
22:JB:600:G:OP1	26:JF:92:ASP:OD1	1.74	1.05
1:AA:741:G:H21	15:AO:51:HIS:HB3	0.98	1.05
1:AA:932:C:C4'	7:AG:3:ARG:CD	2.26	1.05
22:BB:2240:C:OP2	44:BX:14:ARG:CG	2.04	1.05
22:BB:7:G:N1	22:BB:2870:C:O2	1.84	1.05
32:BL:83:ARG:HD2	37:BQ:83:PHE:CD2	1.91	1.05
22:BB:2856:U:H1'	35:BO:45:ARG:NH2	1.72	1.05
23:BA:106:U:H4'	43:BW:88:TYR:CD2	1.91	1.05
1:CA:323:U:O2'	20:CT:15:ARG:HD3	1.50	1.05
1:CA:402:G:H5'	1:CA:621:A:H1'	1.32	1.05
1:CA:932:C:C3'	7:CG:3:ARG:HD3	1.85	1.05
1:CA:1374:A:O3'	7:CG:28:ASN:CG	1.94	1.05
22:DB:225:G:H4'	47:D1:28:ARG:HG2	1.13	1.05
40:DT:56:LEU:HA	48:D2:28:PRO:HG2	1.38	1.05
22:DB:1018:C:O2'	31:DK:134:MET:CA	2.04	1.05
22:DB:2338:C:H5''	51:D5:50:LEU:HD22	1.31	1.05
22:DB:565:A:C2	31:DK:74:MET:HB2	1.89	1.05
22:DB:2249:U:OP1	44:DX:18:PRO:HG2	1.56	1.05
1:EA:1021:G:O2'	27:JG:179:LYS:HD2	1.16	1.05
1:EA:589:C:C3'	8:EH:31:PHE:H	1.56	1.05
22:FB:2810:A:N7	37:FQ:6:LYS:HD2	1.70	1.05
22:FB:1172:U:O4'	39:FS:8:GLY:HA2	1.55	1.05
40:FT:40:LEU:HD11	48:F2:20:ARG:HG3	1.37	1.05
1:GA:1248:A:C1'	9:GI:70:LYS:CE	1.98	1.05
1:GA:932:C:H5'	7:GG:4:ARG:CG	1.84	1.05
1:GA:864:A:OP1	5:GE:86:ALA:HB1	1.44	1.05
10:GJ:11:PHE:CE1	14:GN:54:PRO:HB2	1.90	1.05
1:GA:230:G:C4'	16:GP:26:ARG:HH21	1.70	1.05
22:HB:1998:A:N9	48:H2:6:VAL:HG12	1.68	1.05

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:HB:48:A:C6	22:HB:153:A:N6	2.24	1.05
22:HB:824:U:H5''	33:HM:33:GLY:HA2	1.07	1.05
1:IA:1484:C:H4'	22:JB:1944:C:H4'	1.38	1.05
12:IL:10:LEU:HB2	17:IQ:34:LYS:HE3	1.33	1.05
22:JB:2210:C:C5'	47:J1:39:VAL:HG23	1.77	1.05
22:JB:2311:U:P	44:JX:71:ASN:HA	1.97	1.05
1:AA:1229:A:N6	13:AM:120:LYS:HB2	1.70	1.05
1:AA:1077:G:N1	5:AE:45:PHE:CZ	2.25	1.05
22:BB:2334:C:O4'	44:BX:32:LYS:CE	2.04	1.05
22:BB:687:G:H8	26:BF:68:ARG:NH2	1.54	1.05
22:BB:886:A:H2'	43:BW:167:THR:HB	1.09	1.05
22:BB:2724:G:O2'	28:BH:143:GLN:CB	2.05	1.05
22:BB:2008:C:N1	31:BK:103:TYR:OH	1.86	1.05
1:CA:1074:G:H1'	2:CB:104:ASN:HB2	1.32	1.05
1:CA:1239:A:H3'	7:CG:115:ARG:HG2	1.06	1.05
1:CA:529:G:C2	12:CL:49:ASN:HA	1.92	1.05
1:CA:1228:C:C4'	13:CM:118:ALA:O	2.03	1.05
13:CM:86:CYS:HB3	13:CM:92:HIS:HB2	1.33	1.05
22:DB:686:C:C4'	26:DF:74:VAL:CG1	2.34	1.05
25:DE:18:ASP:OD2	32:DL:86:GLY:N	1.89	1.05
22:DB:1289:A:H2	35:DO:23:ALA:O	1.34	1.05
23:DA:106:U:H4'	43:DW:88:TYR:CD2	1.92	1.05
1:EA:1265:G:O2'	1:IA:1272:G:O2'	1.73	1.05
22:FB:1044:U:OP1	52:F6:16:VAL:HG11	1.56	1.05
22:FB:1411:C:C3'	22:FB:1412:C:H6	1.69	1.05
22:FB:1742:G:H1'	22:FB:2835:A:H2'	1.06	1.05
22:FB:2315:A:N6	44:FX:70:ILE:HG21	1.70	1.05
22:FB:980:G:H5'	46:FZ:13:PRO:HA	1.09	1.05
22:FB:939:C:O2'	46:FZ:37:THR:OG1	1.75	1.05
1:GA:1297:C:H1'	7:GG:114:ARG:NH1	1.71	1.05
1:GA:824:C:O2'	8:GH:2:LEU:CD2	2.03	1.05
1:GA:1309:G:H5'	13:GM:81:LEU:HD11	1.35	1.05
22:HB:1803:G:N3	24:HD:47:GLY:CA	2.20	1.05
22:HB:2:G:C2	22:HB:2876:C:N3	2.24	1.05
22:HB:1078:A:N3	30:HJ:23:VAL:HG13	1.72	1.05
34:HN:66:TYR:HD1	43:HW:115:ILE:CG1	1.35	1.05
1:IA:640:A:O2'	8:IH:127:LEU:HD12	1.49	1.05
22:JB:1828:C:H1'	22:JB:1912:G:OP1	1.56	1.05
22:JB:1855:G:N1	22:JB:3877:A:N6	2.04	1.05
40:JT:36:ARG:NH2	48:J2:16:ARG:CD	2.19	1.05
13:AM:84:ILE:O	13:AM:93:ARG:HD3	1.57	1.05

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:BB:1000:G:O5'	22:BB:1168:G:C5'	2.04	1.05
22:BB:677:G:O3'	22:BB:678:G:P	2.13	1.05
22:BB:930:A:H8	23:BA:83:C:H5'	0.88	1.05
22:BB:1007:A:H5'	38:BR:94:VAL:CG2	1.86	1.05
22:BB:2365:U:H1'	44:BX:37:LEU:HD21	1.05	1.05
1:CA:275:G:O4'	17:CQ:15:MET:HG3	1.30	1.05
22:DB:589:C:C4'	38:DR:33:ARG:HG2	1.86	1.05
1:EA:521:G:N7	12:EL:53:ARG:NE	2.05	1.05
22:FB:2325:A:N6	49:F3:27:ASN:HD22	1.53	1.05
22:FB:1398:G:C4	22:FB:1415:C:C2	2.44	1.05
22:FB:337:G:HO2'	42:FV:9:HIS:CD2	0.73	1.05
22:FB:946:U:O3'	22:FB:947:C:P	2.15	1.05
22:FB:590:C:OP1	38:FR:32:TYR:O	1.75	1.05
38:FR:43:ALA:CA	39:FS:75:LYS:HD3	1.68	1.05
1:GA:1320:C:H4'	19:GS:3:ARG:CZ	1.86	1.05
1:GA:253:U:O2	17:GQ:15:MET:HE3	1.50	1.05
1:GA:675:A:H2	11:GK:115:PRO:CA	1.68	1.05
1:GA:1080:A:H4'	5:GE:16:THR:OG1	1.54	1.05
22:HB:1980:A:OP1	25:HE:135:HIS:CD2	2.08	1.05
1:IA:751:U:C4'	15:IO:77:ARG:NH1	2.04	1.05
1:IA:1441:G:H1	20:IT:27:LYS:HE3	1.16	1.05
23:JA:115:G:N2	36:JP:49:GLN:NE2	2.04	1.05
22:JB:1744:G:OP2	37:JQ:123:ARG:HG2	1.55	1.05
22:JB:2487:G:O3'	22:JB:2534:U:H5'	1.56	1.05
22:JB:1856:U:C2	22:JB:3865:A:N7	2.25	1.05
22:JB:1468:A:N1	35:JO:80:MET:CB	2.18	1.05
1:AA:666:G:H1'	15:AO:51:HIS:CD2	1.92	1.05
1:AA:667:G:N1	15:AO:46:HIS:CD2	1.96	1.05
22:BB:1010:U:O2	22:BB:1168:G:N2	1.88	1.05
22:BB:1140:A:C2	22:BB:2549:G:H4'	1.90	1.05
22:BB:1471:G:N2	22:BB:2681:A:H62	1.54	1.05
23:BA:106:U:C4'	43:BW:88:TYR:CG	2.38	1.05
1:CA:236:G:H4'	17:CQ:42:TYR:OH	1.55	1.05
1:CA:1060:C:C5	3:CC:2:GLY:N	2.25	1.05
1:CA:281:G:O6	12:CL:12:ARG:HD2	1.57	1.05
1:CA:136:C:H1'	16:CP:63:GLY:HA3	1.09	1.05
22:DB:2411:A:H2	47:D1:22:MET:HE3	0.88	1.05
22:DB:686:C:H4'	26:DF:74:VAL:HG13	1.28	1.05
22:DB:1674:C:H5''	25:DE:134:TRP:HB3	1.38	1.05
22:DB:2615:U:C5'	25:DE:79:ARG:HG3	1.87	1.05
22:DB:676:G:OP1	33:DM:27:ASP:CG	1.95	1.05

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:DE:176:ARG:NH1	37:DQ:12:LEU:HA	1.71	1.05
22:DB:590:C:H5''	38:DR:32:TYR:CG	1.92	1.05
1:EA:1106:G:OP1	3:EC:172:ARG:CG	2.04	1.05
1:EA:1060:C:O5'	3:EC:2:GLY:CA	2.05	1.05
1:EA:407:G:H4'	4:ED:116:GLN:HB2	1.12	1.05
1:EA:753:A:N6	8:EH:2:LEU:HD21	1.54	1.05
22:FB:231:G:N1	51:F5:4:MET:SD	2.29	1.05
22:FB:125:A:N6	50:F4:18:PHE:CD1	2.24	1.05
22:FB:491:A:H4'	42:FV:55:THR:CB	1.86	1.05
22:FB:3093:C:H4'	29:FI:21:LYS:HA	1.31	1.05
22:FB:538:A:H8	31:FK:139:ARG:CZ	1.70	1.05
22:FB:597:U:H4'	33:FM:28:LYS:HE2	1.36	1.05
27:DG:179:LYS:CE	1:GA:1021:G:O2'	2.05	1.05
1:GA:718:G:C6	18:GR:81:PHE:CE2	2.45	1.05
22:HB:1374:G:H5'	47:H1:52:THR:C	1.77	1.05
22:HB:1378:A:H5'	47:H1:11:PRO:HB2	1.05	1.05
22:HB:1998:A:C2'	48:H2:6:VAL:HG11	1.86	1.05
22:HB:2814:G:C4'	35:HO:45:ARG:CG	2.02	1.05
22:HB:567:G:H5'	31:HK:73:ASN:CA	1.85	1.05
22:HB:917:U:H2'	43:HW:118:HIS:NE2	1.69	1.05
1:IA:718:G:C6	18:IR:81:PHE:CZ	2.39	1.05
22:JB:394:U:H1'	47:J1:13:LYS:CE	1.87	1.05
22:JB:1087:C:C1'	30:JJ:90:THR:CA	2.33	1.05
22:JB:1781:C:P	24:JD:222:ARG:HH12	1.80	1.05
22:JB:1200:G:H2'	39:JS:83:ARG:HH21	0.91	1.05
1:AA:948:C:H5''	13:AM:106:ASN:CA	1.86	1.04
22:BB:1374:G:H5''	47:B1:53:GLU:CG	1.85	1.04
22:BB:1674:C:OP2	25:BE:134:TRP:HD1	1.32	1.04
22:BB:2725:C:C1'	28:BH:143:GLN:HB2	1.86	1.04
22:BB:887:G:H5'	43:BW:170:SER:HB2	1.34	1.04
22:BB:891:A:N1	22:BB:909:C:C2	2.25	1.04
22:BB:2669:C:H5	35:BO:14:SER:O	1.38	1.04
41:BU:8:GLN:HA	45:BY:26:MET:SD	1.95	1.04
1:CA:1320:C:H1'	19:CS:72:GLY:C	1.77	1.04
1:CA:276:G:C5'	17:CQ:18:THR:CG2	2.34	1.04
1:CA:644:G:O2'	8:CH:90:GLY:CA	2.04	1.04
1:CA:691:G:OP2	11:CK:26:ASN:CG	1.94	1.04
1:CA:1256:A:H61	3:CC:26:LYS:NZ	1.52	1.04
1:CA:7:G:N2	5:CE:90:VAL:HG11	1.71	1.04
13:CM:88:ARG:NH2	13:CM:99:ARG:HG3	1.72	1.04
1:CA:277:C:P	17:CQ:43:LEU:HD21	1.96	1.04

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:DB:1163:C:H2'	38:DR:77:SER:OG	1.56	1.04
22:DB:1481:U:O4'	22:DB:1561:A:N1	1.90	1.04
22:DB:2590:U:P	25:DE:132:LYS:HZ2	1.80	1.04
22:DB:503:G:H1'	40:DT:28:ALA:HA	1.38	1.04
22:DB:539:A:O3'	22:DB:540:G:P	2.14	1.04
22:DB:574:C:N4	39:DS:79:GLN:OE1	1.90	1.04
22:DB:810:U:OP1	26:DF:55:GLY:HA3	1.57	1.04
34:DN:63:GLY:CA	43:DW:115:ILE:CD1	2.35	1.04
1:EA:827:U:H5''	8:EH:19:VAL:HG21	1.34	1.04
22:FB:123:A:C5'	50:F4:14:LYS:HG3	1.42	1.04
22:FB:1235:C:OP1	39:FS:68:LYS:HG2	1.53	1.04
22:FB:23:G:C1'	40:FT:96:TYR:CE2	2.37	1.04
22:FB:2767:C:O2	25:FE:61:LYS:NZ	1.88	1.04
22:FB:938:G:H22	46:FZ:39:ALA:HB2	0.88	1.04
1:GA:1393:U:O2'	1:GA:1394:A:H8	1.40	1.04
1:GA:223:U:C6	20:GT:68:LYS:HE3	1.91	1.04
1:GA:579:G:O2'	15:GO:54:ARG:CD	2.05	1.04
22:HB:1336:G:H5'	40:HT:103:LEU:HG	1.34	1.04
22:HB:2237:C:H5	44:HX:2:ALA:CB	1.70	1.04
22:HB:2338:C:O4'	51:H5:52:LYS:CD	2.05	1.04
22:HB:2848:A:H2'	35:HO:6:ALA:HB1	1.39	1.04
22:HB:515:A:OP1	40:HT:15:LYS:CE	2.05	1.04
22:HB:494:A:C1'	42:HV:56:LYS:HB2	1.74	1.04
1:IA:707:C:H5'	11:IK:85:ARG:HH22	0.93	1.04
1:IA:642:A:H8	8:IH:117:GLY:N	1.54	1.04
1:IA:237:C:H5''	17:IQ:27:PHE:HZ	0.96	1.04
22:JB:114:C:H4'	50:J4:19:ARG:NH2	1.64	1.04
22:JB:2399:C:H2'	51:J5:32:GLN:HB3	1.10	1.04
22:JB:71:A:C2	45:JY:57:LYS:HB3	1.92	1.04
22:JB:1200:G:O2'	39:JS:83:ARG:CZ	2.05	1.04
23:JA:14:C:C4	44:JX:52:GLY:CA	2.40	1.04
1:AA:1187:G:H1'	14:AN:61:TRP:N	1.60	1.04
22:BB:176:A:H2'	47:B1:31:ILE:HG21	1.24	1.04
22:BB:2790:C:C2	48:B2:43:HIS:CE1	2.44	1.04
22:BB:487:G:N2	22:BB:491:A:H62	1.53	1.04
1:CA:1187:G:N3	14:CN:61:TRP:CA	2.19	1.04
22:DB:529:U:H5'	40:DT:39:ARG:HH21	1.15	1.04
22:DB:704:G:H5''	24:DD:218:LYS:NZ	1.56	1.04
1:EA:1188:A:H5'	9:EI:114:TYR:CG	1.92	1.04
1:EA:1320:C:H1'	19:ES:73:GLU:N	1.71	1.04
1:EA:265:G:C2	17:EQ:67:LYS:HE2	1.90	1.04

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:FB:2240:C:O5'	44:FX:14:ARG:HG3	1.56	1.04
22:FB:2372:A:O2'	33:FM:59:ARG:CG	2.05	1.04
22:FB:497:C:C2	40:FT:78:ASN:ND2	2.24	1.04
43:FW:65:LEU:HD11	43:FW:130:ILE:HD12	1.39	1.04
1:GA:1114:C:C5'	14:GN:57:ARG:HH22	1.69	1.04
1:GA:375:U:C5'	16:GP:17:TYR:OH	2.04	1.04
22:HB:1374:G:C5'	47:H1:52:THR:C	2.16	1.04
22:HB:498:C:H1'	40:HT:74:SER:HA	1.34	1.04
1:IA:1455:G:H21	1:IA:1456:A:H5'	1.18	1.04
1:IA:925:G:C1'	1:IA:1502:A:H1'	1.86	1.04
1:IA:675:A:C2	11:IK:116:HIS:CD2	2.45	1.04
1:IA:953:G:N3	13:IM:124:PRO:O	1.64	1.04
22:JB:3176:A:O2'	53:J7:164:GLN:HG3	1.50	1.04
22:JB:2463:G:C4'	34:JN:47:GLN:CD	2.24	1.04
1:AA:690:G:N7	11:AK:51:LYS:CE	2.20	1.04
22:BB:177:U:H4'	47:B1:31:ILE:HD13	1.08	1.04
23:BA:59:A:C4'	27:BG:23:SER:CB	2.35	1.04
22:BB:828:C:O2'	22:BB:1176:U:O3'	1.75	1.04
22:BB:1809:G:O3'	24:BD:157:ARG:CZ	2.05	1.04
22:BB:2461:G:O6	34:BN:54:VAL:HA	1.56	1.04
22:BB:2669:C:H41	35:BO:15:SER:HA	0.91	1.04
22:BB:2847:G:N2	35:BO:17:ARG:NH1	2.06	1.04
22:BB:700:C:H4'	50:B4:3:ARG:O	1.49	1.04
22:BB:2008:C:OP1	25:BE:147:PRO:HB3	1.57	1.04
22:BB:2355:A:N1	36:BP:90:ASP:OD1	1.90	1.04
1:CA:523:A:C6	12:CL:90:VAL:HA	1.92	1.04
1:CA:922:G:C4'	5:CE:20:GLN:NE2	2.19	1.04
1:CA:827:U:H5'	8:CH:21:LYS:HD3	1.30	1.04
5:CE:141:GLN:CG	8:CH:69:ARG:HH12	1.69	1.04
22:DB:165:G:OP1	47:D1:36:TRP:HZ3	1.06	1.04
22:DB:2350:G:O3'	49:D3:46:LYS:CD	2.04	1.04
23:DA:117:G:H4'	36:DP:52:ALA:HA	1.37	1.04
22:DB:1017:C:H1'	31:DK:56:THR:HG22	1.09	1.04
22:DB:29:U:O3'	38:DR:8:ILE:HG22	1.51	1.04
22:DB:686:C:H4'	26:DF:74:VAL:HG12	1.33	1.04
22:DB:2714:A:O4'	25:DE:205:SER:HB3	1.57	1.04
34:DN:73:LYS:HB3	34:DN:94:TRP:H	1.21	1.04
22:FB:1005:U:H6	38:FR:51:ARG:NH1	1.51	1.04
22:FB:1743:C:H5'	22:FB:2836:U:H4'	1.35	1.04
22:FB:2040:A:O2'	48:F2:3:LYS:CG	2.04	1.04
22:FB:1:G:C6	22:FB:2876:C:N4	2.24	1.04

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:FB:891:A:H4'	22:FB:893:G:O5'	1.57	1.04
27:FG:179:LYS:NZ	1:IA:1021:G:H5''	1.71	1.04
22:FB:1203:A:H5''	33:FM:35:LYS:HA	1.11	1.04
1:GA:1059:C:O2'	10:GJ:52:GLY:HA3	0.88	1.04
1:GA:255:G:H5'	17:GQ:45:HIS:HE1	1.18	1.04
1:GA:718:G:N7	18:GR:81:PHE:CE2	2.25	1.04
23:HA:53:G:P	36:HP:62:GLY:O	2.15	1.04
22:HB:1630:A:H61	40:HT:114:ALA:CB	1.58	1.04
22:HB:1828:C:O2	22:HB:1912:G:H5''	1.49	1.04
22:HB:677:G:C2'	22:HB:678:G:O4'	2.05	1.04
22:HB:1307:U:O2'	35:HO:23:ALA:HB2	1.54	1.04
32:HL:113:PRO:HD2	37:HQ:75:GLU:HB3	1.36	1.04
1:IA:1186:G:C2'	9:II:113:LYS:HZ1	1.54	1.04
1:IA:826:C:H5'	8:IH:12:ARG:HG2	1.10	1.04
1:IA:1187:G:O2'	9:II:114:TYR:CD2	2.09	1.04
13:IM:86:CYS:HA	19:IS:74:PHE:CG	1.91	1.04
22:JB:2734:U:C1'	52:J6:15:LYS:HD2	1.85	1.04
22:JB:2505:G:O2'	52:J6:34:GLN:HA	1.57	1.04
22:JB:1817:U:H1'	24:JD:252:LYS:HD3	1.38	1.04
22:JB:469:G:P	50:J4:41:GLN:OE1	2.14	1.04
22:JB:236:C:O2'	22:JB:632:A:O4'	1.73	1.04
22:JB:786:U:O2'	24:JD:48:ARG:O	1.75	1.04
22:JB:2823:G:H5''	37:JQ:103:LYS:HG3	1.31	1.04
22:BB:1684:G:C4'	32:BL:5:GLN:OE1	2.04	1.04
22:BB:7:G:C6	22:BB:2870:C:N3	2.26	1.04
22:DB:2343:C:H5''	44:DX:38:VAL:O	1.56	1.04
22:DB:589:C:H5''	38:DR:33:ARG:CD	1.87	1.04
22:DB:1041:G:H5''	34:DN:119:PHE:HE2	1.18	1.04
1:EA:640:A:H2'	8:EH:116:LYS:HB3	1.33	1.04
1:EA:589:C:C2'	8:EH:29:SER:HB2	1.86	1.04
1:EA:280:C:C2'	17:EQ:95:TYR:OH	2.05	1.04
33:FM:63:ARG:HD3	51:F5:9:MET:CE	1.87	1.04
22:FB:1405:A:N7	41:FU:15:LYS:NZ	2.04	1.04
22:FB:1673:C:O3'	25:FE:136:ARG:CB	2.05	1.04
22:FB:2260:C:H4'	22:FB:2368:G:C2	1.91	1.04
22:FB:2510:A:O2'	28:FH:157:TYR:CE2	2.10	1.04
22:FB:2700:U:N3	22:FB:2848:A:N6	2.04	1.04
22:FB:2464:G:O2'	34:FN:123:GLY:HA2	1.55	1.04
1:GA:877:C:H1'	8:GH:3:THR:O	1.41	1.04
10:GJ:64:GLU:HG3	14:GN:58:LYS:CA	1.76	1.04
22:HB:1378:A:OP2	47:H1:40:HIS:NE2	1.89	1.04

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:HB:647:G:N7	33:HM:128:ALA:HB2	1.71	1.04
1:IA:1226:C:O2'	19:IS:80:TYR:CE2	2.08	1.04
1:IA:590:C:C5'	8:IH:30:ARG:NE	1.89	1.04
22:JB:2734:U:C1'	52:J6:15:LYS:HD3	1.85	1.04
22:JB:2636:A:OP2	28:JH:181:GLY:N	1.88	1.04
22:JB:567:G:C4'	31:JK:73:ASN:HA	1.87	1.04
1:AA:1457:A:OP1	20:AT:27:LYS:HG3	1.54	1.04
22:BB:2789:U:O4'	48:B2:30:LEU:CD1	2.05	1.04
22:BB:1166:A:C6	22:BB:1168:G:C4	2.46	1.04
22:BB:696:U:H5''	50:B4:16:HIS:ND1	1.70	1.04
22:BB:917:U:O2'	43:BW:166:LEU:HD21	1.54	1.04
1:CA:739:C:O2	15:CO:42:HIS:ND1	1.88	1.04
22:DB:1164:C:C5'	38:DR:77:SER:HA	1.87	1.04
22:DB:887:G:O4'	43:DW:167:THR:N	1.73	1.04
1:EA:1455:G:H21	1:EA:1456:A:H5'	1.18	1.04
22:FB:2393:G:O2'	33:FM:65:PHE:CB	2.04	1.04
22:FB:7:G:H4'	31:FK:160:ALA:O	1.55	1.04
32:FL:132:GLU:CG	37:FQ:75:GLU:HB2	1.88	1.04
22:FB:2692:A:O2'	35:FO:14:SER:C	1.95	1.04
22:FB:940:G:N3	46:FZ:37:THR:CB	2.20	1.04
1:GA:1191:A:OP1	3:GC:3:ASN:OD1	1.74	1.04
22:HB:1321:A:O2'	50:H4:7:PRO:CG	2.05	1.04
22:HB:1829:C:C4'	22:HB:1911:A:C4'	2.35	1.04
22:HB:857:U:C2	22:HB:946:U:C2	2.45	1.04
22:HB:1795:C:C5'	24:HD:250:TRP:HZ2	1.70	1.04
1:IA:954:G:O2'	13:IM:120:LYS:CE	2.05	1.04
22:JB:1583:A:N9	24:JD:84:TYR:HE1	1.40	1.04
22:BB:47:G:N2	22:BB:154:U:P	2.31	1.04
22:BB:505:G:H2'	40:BT:82:ASN:CB	1.86	1.04
22:BB:2600:A:C4'	25:BE:158:GLY:C	2.24	1.04
22:BB:2751:C:O2'	25:BE:166:THR:HG21	1.58	1.04
22:BB:613:A:N6	33:BM:97:ARG:HB2	1.71	1.04
22:BB:2814:G:N2	35:BO:91:PRO:CB	2.20	1.04
1:CA:1254:C:N4	10:CJ:43:ARG:NH1	2.04	1.04
22:DB:1050:G:C5'	43:DW:37:LYS:NZ	2.20	1.04
22:DB:2558:C:O4'	25:DE:133:LYS:HE2	1.51	1.04
22:DB:1292:A:C3'	35:DO:33:ARG:HD2	1.88	1.04
1:EA:130:A:N6	17:EQ:64:PRO:HD2	1.68	1.04
29:FI:30:ILE:CG2	47:F1:73:LYS:O	2.06	1.04
22:FB:2372:A:H4'	33:FM:60:LEU:CA	1.88	1.04
22:FB:332:C:H5''	26:FF:130:THR:HG22	1.33	1.04

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:FB:3875:A:O5'	53:F7:43:LYS:HD2	1.56	1.04
22:FB:498:C:O4'	40:FT:77:ALA:HB2	1.56	1.04
1:GA:1368:G:C8	9:GI:112:LYS:HD3	1.92	1.04
7:GG:44:TYR:CZ	9:GI:41:VAL:HG22	1.92	1.04
22:HB:3093:C:C4'	22:HB:2181:A:N1	2.20	1.04
22:HB:2760:G:O4'	31:HK:146:THR:HA	1.58	1.04
22:HB:2629:U:H5''	32:HL:29:ILE:HD11	1.35	1.04
22:HB:2004:U:C5	38:HR:25:TRP:CD1	2.45	1.04
1:IA:954:G:H5'	13:IM:124:PRO:HD2	1.39	1.04
23:JA:119:G:OP1	36:JP:55:SER:CB	2.04	1.04
22:JB:16:G:H4'	48:J2:14:SER:O	1.57	1.04
22:JB:2323:U:H5''	49:J3:39:LYS:CD	1.86	1.04
22:JB:592:G:H21	26:JF:78:VAL:HB	0.88	1.04
22:JB:1088:A:H5''	30:JJ:92:ASN:OD1	1.55	1.04
22:JB:2820:C:C5'	37:JQ:62:SER:HG	0.75	1.04
22:BB:2768:C:O2'	22:BB:2866:A:N1	1.91	1.04
1:CA:15:G:C2	1:CA:1080:A:O2'	2.11	1.04
1:CA:258:G:OP1	20:CT:83:ARG:CZ	2.05	1.04
23:DA:92:G:N3	34:DN:22:ALA:CA	2.18	1.04
22:DB:2627:G:H21	32:DL:27:SER:C	1.59	1.04
34:DN:61:ARG:N	43:DW:112:LEU:HD21	1.73	1.04
22:DB:568:G:C4'	38:DR:59:ARG:HH22	1.70	1.04
1:EA:793:U:N3	1:EA:1516:G:H4'	1.71	1.04
22:FB:469:G:C8	50:F4:40:HIS:CB	2.41	1.04
22:FB:2007:G:H5'	25:FE:149:ARG:HD2	1.34	1.04
22:FB:2262:C:H4'	49:F3:3:LYS:HZ1	1.17	1.04
22:FB:2372:A:C2'	33:FM:59:ARG:CB	2.35	1.04
22:FB:2763:U:O2'	25:FE:41:THR:CG2	2.04	1.04
22:FB:2037:A:H5'	25:FE:145:LYS:HE3	1.36	1.04
34:FN:73:LYS:HB3	34:FN:94:TRP:H	1.21	1.04
25:FE:17:ASN:HA	37:FQ:87:LEU:HD11	1.31	1.04
22:FB:311:A:P	42:FV:91:ALA:CB	2.46	1.04
1:GA:194:C:O2'	20:GT:66:ALA:HA	1.56	1.04
1:GA:815:A:C5	1:GA:1508:G:N2	2.23	1.04
22:HB:1630:A:N6	40:HT:114:ALA:HB2	1.67	1.04
22:HB:3093:C:C1'	22:HB:2181:A:N1	2.20	1.04
22:HB:237:G:C2	22:HB:618:A:O2'	2.11	1.04
22:HB:494:A:H1'	42:HV:56:LYS:CG	1.87	1.04
22:HB:2364:C:C2'	44:HX:69:PHE:HZ	1.70	1.04
22:JB:219:G:H2'	51:J5:4:MET:HA	1.34	1.04
22:JB:2652:G:C4'	32:JL:46:HIS:CE1	2.40	1.04

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:323:U:H4'	20:AT:22:ARG:NE	1.72	1.04
1:AA:527:G:O6	12:AL:91:LYS:HB3	1.58	1.04
10:AJ:65:LEU:HB2	14:AN:56:VAL:HG22	1.08	1.04
1:AA:323:U:H4'	20:AT:22:ARG:HE	1.22	1.04
23:BA:93:G:H5''	34:BN:23:LYS:HZ3	0.90	1.04
22:BB:1119:U:O3'	22:BB:1120:C:OP1	1.75	1.04
22:BB:1683:G:O4'	32:BL:3:MET:HG2	1.57	1.04
22:BB:704:G:C5'	24:BD:218:LYS:HZ3	1.63	1.04
34:BN:65:ILE:HA	43:BW:115:ILE:CD1	1.88	1.04
1:CA:1298:C:H2'	7:CG:114:ARG:NH2	1.71	1.04
1:CA:943:U:H1'	9:CI:124:GLN:CD	1.78	1.04
1:CA:689:C:H6	11:CK:51:LYS:NZ	1.24	1.04
1:CA:1215:G:H5''	14:CN:3:ARG:HH22	1.17	1.04
22:DB:165:G:P	47:D1:36:TRP:CZ3	2.50	1.04
22:DB:2470:U:H1'	22:DB:2549:G:OP1	1.58	1.04
22:DB:60:A:N6	22:DB:92:U:O4	1.91	1.04
22:DB:2713:A:H8	25:DE:205:SER:O	1.05	1.04
22:FB:2263:C:C5'	49:F3:8:ILE:HG13	1.72	1.04
22:FB:3875:A:H5''	53:F7:43:LYS:CD	1.85	1.04
22:FB:312:G:O3'	42:FV:89:GLY:N	1.90	1.04
25:FE:17:ASN:CA	37:FQ:87:LEU:CD1	2.35	1.04
43:FW:51:LEU:CB	43:FW:128:ARG:HH22	1.71	1.04
1:GA:922:G:N2	1:GA:1395:C:N3	2.06	1.04
1:GA:281:G:OP1	17:GQ:38:ARG:NE	1.91	1.04
22:HB:2002:A:H5'	38:HR:33:ARG:HG3	1.39	1.04
22:HB:2653:A:C4	32:HL:41:ASN:ND2	2.24	1.04
22:HB:686:C:O2	26:HF:68:ARG:NH1	1.89	1.04
22:HB:1202:U:H4'	39:HS:81:ARG:HH12	1.18	1.04
22:HB:2342:U:H4'	44:HX:38:VAL:CG1	1.88	1.04
1:IA:532:A:C2	1:IA:1207:G:C5'	2.40	1.04
1:IA:1148:U:C5'	9:II:66:ARG:HH21	1.65	1.04
22:JB:218:A:OP1	51:J5:63:PRO:HB3	1.57	1.04
22:JB:2374:C:C1'	47:J1:28:ARG:HH12	1.68	1.04
22:JB:60:A:H4'	45:JY:29:ARG:HH21	1.22	1.04
22:JB:760:U:H4'	40:JT:110:ALA:HB1	1.39	1.04
1:AA:948:C:C5'	13:AM:106:ASN:HA	1.86	1.04
1:AA:741:G:O3'	15:AO:55:GLY:CA	2.05	1.04
22:BB:2365:U:O2	44:BX:37:LEU:HD21	1.58	1.04
22:BB:18:U:O2'	22:BB:563:U:H5'	1.57	1.04
1:CA:985:C:O2'	19:CS:55:LYS:CD	2.04	1.04
1:CA:128:G:O3'	17:CQ:3:LYS:HE2	1.12	1.04

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:265:G:H1'	17:CQ:65:ILE:O	1.58	1.04
1:CA:958:A:N1	19:CS:56:GLN:HG2	1.73	1.04
22:DB:2411:A:C6	47:D1:28:ARG:N	2.18	1.04
22:DB:123:A:O5'	50:D4:14:LYS:HB2	1.55	1.04
22:DB:3123:G:H5''	53:D7:158:LYS:HZ1	1.18	1.04
22:DB:1469:U:N3	35:DO:60:LEU:HD12	1.70	1.04
22:DB:166:G:O5'	47:D1:36:TRP:NE1	1.86	1.04
22:DB:1809:G:H5'	24:DD:63:ARG:CZ	1.87	1.04
22:DB:2372:A:C4'	33:DM:59:ARG:HB3	1.87	1.04
22:DB:964:A:O3'	34:DN:18:MET:CB	2.01	1.04
22:DB:1795:C:C4'	24:DD:250:TRP:HZ2	1.65	1.04
22:DB:505:G:H21	40:DT:82:ASN:ND2	1.54	1.04
1:EA:537:G:P	12:EL:113:ARG:HH22	1.81	1.04
1:EA:583:A:H5''	17:EQ:90:ILE:HD13	1.08	1.04
22:FB:1829:C:H5'	22:FB:1911:A:C5'	1.88	1.04
22:FB:2773:G:N7	22:FB:2780:A:H2	1.55	1.04
38:FR:88:ILE:HG13	39:FS:52:GLY:CA	1.86	1.04
22:FB:504:G:N2	40:FT:78:ASN:ND2	2.06	1.04
1:GA:186:C:H1'	20:GT:81:LYS:HE2	1.38	1.04
1:GA:230:G:H5''	16:GP:26:ARG:NH2	1.69	1.04
22:HB:1043:A:C4'	52:H6:23:VAL:CG2	2.35	1.04
22:HB:1141:U:O4	25:HE:147:PRO:HG2	1.57	1.04
22:HB:2760:G:N2	31:HK:150:VAL:HG13	1.71	1.04
34:HN:68:ARG:HE	43:HW:117:VAL:HG11	0.94	1.04
1:IA:816:A:OP2	1:IA:1526:G:O2'	1.75	1.04
1:IA:824:C:O4'	8:IH:3:THR:CG2	2.03	1.04
22:JB:1630:A:P	50:J4:3:ARG:HH21	1.80	1.04
22:JB:1087:C:H1'	30:JJ:90:THR:CA	1.87	1.04
22:JB:505:G:O2'	40:JT:82:ASN:HB2	1.48	1.04
22:JB:934:G:O2'	44:JX:26:PHE:HD2	1.40	1.04
1:AA:814:A:H2	1:AA:1526:G:O2'	1.40	1.04
1:AA:1059:C:H5''	14:AN:45:ARG:HH22	1.20	1.04
22:BB:1136:G:O4'	52:B6:4:ARG:HB3	1.56	1.04
22:BB:539:A:O3'	22:BB:540:G:P	2.16	1.04
22:BB:2599:U:O2	25:BE:157:ALA:O	1.73	1.04
34:BN:66:TYR:CE1	43:BW:115:ILE:CB	2.41	1.04
22:BB:492:G:H5'	42:BV:3:ARG:NH1	1.55	1.04
22:BB:2335:U:H5''	44:BX:19:LYS:HD2	1.37	1.04
1:CA:1350:A:O2'	7:CG:33:ASP:HA	1.56	1.04
1:CA:9:G:OP1	5:CE:122:GLU:HB2	0.87	1.04
1:CA:587:G:H4'	8:CH:3:THR:C	1.78	1.04

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:951:G:N1	13:CM:125:ARG:O	1.84	1.04
1:CA:1231:G:N9	13:CM:126:LYS:HD3	1.70	1.04
22:DB:2661:G:C2'	25:DE:12:THR:OG1	2.05	1.04
22:DB:6:A:C4'	31:DK:159:SER:O	2.06	1.04
22:DB:2544:A:OP1	32:DL:36:THR:HG22	0.87	1.04
1:EA:653:A:H62	8:EH:32:LYS:NZ	1.54	1.04
1:EA:968:A:OP2	9:EI:125:TYR:CB	2.06	1.04
3:EC:12:LEU:HD13	14:EN:51:GLY:HA2	1.37	1.04
22:HB:1828:C:H1'	22:HB:1912:G:OP1	1.57	1.04
22:HB:2471:U:O3'	22:HB:2472:U:P	2.15	1.04
22:HB:3170:A:O2'	53:H7:130:PRO:CG	2.05	1.04
3:IC:14:ILE:HD11	14:IN:57:ARG:HH11	1.18	1.04
1:IA:261:U:H5	20:IT:79:ARG:CD	1.55	1.04
22:JB:219:G:C4	51:J5:4:MET:CA	2.41	1.04
22:JB:219:G:C4	51:J5:4:MET:HA	1.91	1.04
22:JB:2338:C:O2	22:JB:2407:G:N2	1.90	1.04
22:JB:1040:A:H1'	22:JB:2465:G:C5'	1.88	1.04
34:JN:73:LYS:HB3	34:JN:94:TRP:H	1.21	1.04
22:JB:512:A:O2'	40:JT:15:LYS:HG3	1.56	1.04
34:JN:36:ILE:HG12	43:JW:74:ARG:HH22	1.21	1.04
1:AA:761:G:N3	17:AQ:104:LYS:HA	1.70	1.03
22:BB:1416:A:H4'	22:BB:1485:U:O4'	1.56	1.03
22:BB:1441:A:C1'	22:BB:1587:A:H62	1.71	1.03
22:BB:2432:A:H1'	22:BB:2551:A:H1'	1.40	1.03
22:BB:2471:U:O3'	22:BB:2472:U:P	2.16	1.03
22:BB:3876:A:C1'	53:B7:40:ASP:OD2	2.05	1.03
1:CA:720:C:C4'	18:CR:52:PRO:HA	1.87	1.03
22:DB:699:G:C6	50:D4:5:TYR:HA	1.92	1.03
22:DB:165:G:P	47:D1:36:TRP:HZ3	1.80	1.03
22:DB:917:U:C2	43:DW:166:LEU:HD11	1.92	1.03
34:DN:99:LYS:HG2	43:DW:73:LYS:HE2	1.37	1.03
1:EA:392:G:OP2	16:EP:12:LYS:CG	2.05	1.03
22:FB:25:U:H5'	40:FT:100:GLY:CA	1.88	1.03
22:FB:2615:U:O5'	25:FE:79:ARG:HG3	1.02	1.03
22:FB:596:C:C5'	33:FM:28:LYS:NZ	2.20	1.03
22:FB:1269:G:C4	26:FF:76:THR:HG23	1.92	1.03
1:GA:689:C:OP2	11:GK:51:LYS:NZ	1.91	1.03
22:HB:1166:A:OP1	38:HR:55:ARG:CZ	2.05	1.03
34:HN:68:ARG:HE	43:HW:117:VAL:CG1	1.70	1.03
22:JB:410:A:H5''	47:J1:58:LYS:HD2	1.06	1.03
22:JB:15:G:C1'	48:J2:18:MET:HG3	1.69	1.03

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:JB:2325:A:C2	49:J3:26:LYS:O	2.10	1.03
23:JA:117:G:H1'	36:JP:41:GLN:CD	1.77	1.03
1:IA:1484:C:H4'	22:JB:1944:C:C4'	1.86	1.03
22:JB:2638:G:N7	28:JH:180:GLY:HA3	1.70	1.03
22:JB:1741:G:N3	22:JB:2835:A:H2	1.55	1.03
22:JB:530:G:H1'	40:JT:94:GLU:OE1	1.57	1.03
22:JB:610:G:O4'	26:JF:98:GLN:HB3	1.47	1.03
22:JB:2393:G:O2'	33:JM:66:ASN:OD1	1.76	1.03
22:JB:2688:G:OP1	35:JO:18:VAL:HG11	1.56	1.03
1:AA:690:G:N7	11:AK:51:LYS:HE2	1.73	1.03
22:BB:1142:G:C1'	31:BK:110:LEU:CD2	2.34	1.03
22:BB:742:G:P	24:BD:18:THR:HG1	1.80	1.03
1:CA:134:A:C6	16:CP:25:ARG:NH2	2.25	1.03
1:CA:349:A:O2'	20:CT:8:ARG:CD	2.06	1.03
5:CE:151:LEU:CB	8:CH:42:GLU:O	2.06	1.03
1:CA:277:C:OP1	17:CQ:43:LEU:CG	2.02	1.03
22:DB:115:G:C5'	50:D4:19:ARG:NH2	2.21	1.03
22:DB:1401:G:C6	22:DB:1413:U:N3	2.27	1.03
22:DB:2510:A:N1	22:DB:2641:A:N6	2.05	1.03
22:DB:741:G:O2'	24:DD:17:THR:HB	1.58	1.03
22:DB:2599:U:H1'	25:DE:156:MET:C	1.78	1.03
1:EA:1057:G:H5''	3:EC:155:GLY:N	1.73	1.03
1:EA:1100:C:H2'	2:EB:98:LEU:CD2	1.76	1.03
22:FB:2311:U:P	44:FX:70:ILE:O	2.16	1.03
22:FB:2708:U:O2'	25:FE:21:ILE:HG13	1.57	1.03
22:FB:1351:G:H5''	41:FU:13:SER:CB	1.86	1.03
7:GG:16:LEU:CD2	9:GI:42:ARG:NH1	2.21	1.03
1:GA:967:C:H5'	9:GI:128:ARG:HG3	1.38	1.03
7:GG:16:LEU:HD21	9:GI:42:ARG:HH12	1.21	1.03
22:HB:2861:A:C8	48:H2:31:THR:CG2	2.40	1.03
22:HB:1165:G:OP1	38:HR:58:ARG:HD3	1.55	1.03
1:IA:483:C:H2'	16:IP:13:HIS:NE2	1.72	1.03
1:IA:642:A:H5'	8:IH:117:GLY:HA2	1.39	1.03
6:IF:2:ARG:NH1	15:IO:2:PRO:CB	2.20	1.03
22:JB:2263:C:OP2	49:J3:9:ILE:CA	2.05	1.03
22:JB:1074:G:C4	30:JJ:88:SER:CB	2.37	1.03
22:JB:1204:G:OP1	33:JM:37:GLN:CG	2.05	1.03
22:JB:1810:U:H2'	24:JD:154:GLN:NE2	1.68	1.03
22:JB:2240:C:C4'	22:JB:2366:U:H2'	1.86	1.03
22:JB:309:G:OP1	42:JV:93:ARG:CG	2.05	1.03
22:JB:60:A:N6	22:JB:92:U:O4	1.91	1.03

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:JB:1087:C:H1'	30:JJ:90:THR:HA	1.07	1.03
22:JB:1265:G:N3	38:JR:32:TYR:CE1	2.25	1.03
1:AA:339:C:O3'	32:BL:109:ARG:NH1	1.91	1.03
1:AA:529:G:N1	12:AL:48:PRO:HD2	0.92	1.03
22:BB:1414:G:N2	22:BB:1484:G:C2	2.26	1.03
22:BB:2672:U:O4'	22:BB:2822:U:O2'	1.75	1.03
22:BB:680:U:P	33:BM:48:PHE:HA	1.98	1.03
22:BB:2601:C:OP1	25:BE:159:HIS:CG	2.10	1.03
34:BN:73:LYS:HB3	34:BN:94:TRP:H	1.21	1.03
22:BB:760:U:O2'	40:BT:109:ARG:HG3	1.58	1.03
23:BA:107:C:H5'	43:BW:89:GLY:N	1.46	1.03
1:CA:1308:U:OP1	13:CM:97:PRO:HB3	1.58	1.03
1:CA:689:C:O5'	11:CK:51:LYS:NZ	1.90	1.03
1:CA:279:A:O5'	17:CQ:95:TYR:HE2	1.41	1.03
22:DB:337:G:O2'	42:DV:9:HIS:NE2	1.90	1.03
22:DB:37:C:O2'	26:DF:45:THR:CB	2.06	1.03
22:DB:2448:A:C1'	34:DN:57:ARG:HD3	1.87	1.03
22:DB:2229:G:H3'	34:DN:84:MET:O	1.56	1.03
38:DR:47:TYR:CG	39:DS:74:TYR:HB3	1.94	1.03
22:DB:309:G:P	42:DV:93:ARG:HD3	1.96	1.03
1:EA:932:C:C5'	7:EG:3:ARG:HD3	1.88	1.03
22:FB:1044:U:H5	52:F6:16:VAL:HG22	1.03	1.03
22:FB:1488:G:O6	22:FB:1533:G:O6	1.73	1.03
22:FB:1673:C:O5'	25:FE:136:ARG:NH1	1.91	1.03
1:GA:1250:A:H5''	9:GI:68:GLY:HA2	1.40	1.03
1:GA:274:A:H5''	17:GQ:14:LYS:HG3	1.36	1.03
1:GA:1372:U:O2'	7:GG:35:LYS:HA	1.56	1.03
1:GA:735:C:C2	18:GR:75:ILE:HD13	1.93	1.03
22:HB:1856:U:N3	22:HB:3865:A:N6	2.06	1.03
22:HB:597:U:H1'	26:HF:84:PHE:CZ	1.90	1.03
22:HB:593:C:H5''	38:HR:3:ARG:HH12	1.17	1.03
22:HB:592:G:O3'	38:HR:5:LYS:HD3	1.58	1.03
38:HR:94:VAL:HG11	39:HS:10:LYS:CD	1.86	1.03
27:FG:179:LYS:HZ2	1:IA:1021:G:C5'	1.69	1.03
1:IA:293:G:OP1	1:IA:610:G:O6	1.75	1.03
1:IA:766:A:H61	1:IA:1511:G:C1'	1.71	1.03
33:JM:61:PRO:CA	51:J5:27:SER:CB	2.34	1.03
22:JB:1813:A:C4'	24:JD:157:ARG:NH2	2.20	1.03
1:IA:1407:C:O2	22:JB:1895:A:N1	1.91	1.03
22:JB:236:C:H1'	22:JB:632:A:C2'	1.88	1.03
22:JB:2464:G:O2'	34:JN:123:GLY:HA2	0.86	1.03

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:JB:2490:U:C4'	25:JE:124:GLY:O	2.05	1.03
22:JB:648:A:OP2	33:JM:131:LYS:NZ	1.92	1.03
22:JB:594:G:OP2	38:JR:3:ARG:NH2	1.92	1.03
22:JB:1172:U:C4'	39:JS:22:VAL:CG1	2.22	1.03
22:BB:1091:C:H4'	30:BJ:125:ASN:CG	1.78	1.03
22:BB:1397:A:N3	22:BB:1418:C:N4	2.06	1.03
22:BB:1805:G:C4'	24:BD:43:ARG:C	2.23	1.03
22:BB:1804:U:C1'	24:BD:46:ARG:HE	1.71	1.03
22:BB:1805:G:H22	24:BD:52:ARG:HD3	1.20	1.03
1:CA:136:C:O2'	16:CP:63:GLY:CA	2.04	1.03
49:D3:24:THR:CG2	51:D5:35:GLY:CA	2.30	1.03
22:DB:157:G:H4'	50:D4:36:ALA:HB1	1.05	1.03
23:DA:105:G:C2'	43:DW:91:PRO:HB3	1.86	1.03
22:DB:2576:G:H5''	24:DD:239:ARG:NH2	1.11	1.03
22:DB:2614:A:O2'	25:DE:77:ILE:CG2	2.06	1.03
22:DB:865:A:H1'	46:DZ:39:ALA:HB2	1.38	1.03
22:DB:1782:A:N3	24:DD:21:PHE:CZ	2.26	1.03
22:FB:3875:A:O4'	53:F7:43:LYS:HB3	1.16	1.03
22:FB:1237:G:H5''	39:FS:87:ARG:HD3	1.35	1.03
25:FE:17:ASN:C	37:FQ:87:LEU:HD11	1.78	1.03
22:FB:1008:G:H5''	38:FR:92:ARG:HG3	1.39	1.03
22:FB:94:C:H2'	45:FY:40:PRO:HG2	1.38	1.03
1:GA:741:G:O3'	15:GO:52:SER:HA	1.56	1.03
1:GA:952:U:C6	13:GM:124:PRO:O	1.94	1.03
13:GM:93:ARG:HH12	22:HB:900:U:C3'	1.71	1.03
1:GA:1114:C:C1'	14:GN:60:SER:O	2.07	1.03
22:HB:2029:G:C4'	48:H2:19:ARG:HD2	1.87	1.03
22:HB:2701:A:N3	35:HO:5:LYS:NZ	2.04	1.03
25:HE:52:ALA:O	37:HQ:5:ILE:HD13	1.57	1.03
34:HN:66:TYR:CB	43:HW:115:ILE:HG21	1.87	1.03
1:IA:1190:G:OP2	3:IC:4:LYS:HA	1.56	1.03
22:JB:3093:C:N4	22:JB:2204:A:N7	2.06	1.03
22:JB:2264:C:H5''	49:J3:30:ASN:ND2	0.76	1.03
22:JB:2490:U:C5'	25:JE:124:GLY:HA3	1.87	1.03
22:JB:969:U:O4	34:JN:21:ASP:O	1.75	1.03
33:JM:67:ASN:HB3	51:J5:11:LYS:CG	1.75	1.03
22:JB:1470:G:C4	35:JO:60:LEU:HD13	1.92	1.03
22:JB:2240:C:H2'	44:JX:14:ARG:C	1.79	1.03
22:BB:219:G:O6	51:B5:2:PRO:HB3	1.56	1.03
22:BB:69:G:H5'	22:BB:72:A:O4'	1.56	1.03
34:BN:66:TYR:CB	43:BW:117:VAL:HG21	1.88	1.03

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:280:C:O2	17:CQ:40:LYS:HA	1.58	1.03
1:CA:694:A:H5'	11:CK:53:SER:HB2	1.36	1.03
1:CA:1221:G:O2'	19:CS:77:THR:HG21	1.58	1.03
22:DB:2786:G:C1'	25:DE:59:VAL:HG13	1.87	1.03
25:DE:18:ASP:OD2	32:DL:85:ASP:CA	2.06	1.03
22:DB:2615:U:O5'	25:DE:79:ARG:HG3	1.58	1.03
22:DB:2725:C:H1'	28:DH:139:GLN:O	1.57	1.03
1:EA:1328:C:O3'	13:EM:28:ALA:HB3	1.58	1.03
1:EA:759:A:N6	17:EQ:94:ASN:OD1	1.91	1.03
10:EJ:62:HIS:HB2	14:EN:61:TRP:HZ3	1.21	1.03
22:FB:339:U:O2'	42:FV:76:LEU:CA	2.06	1.03
1:GA:658:G:H4'	15:GO:4:THR:O	1.59	1.03
22:HB:648:A:H5'	33:HM:131:LYS:NZ	1.73	1.03
1:IA:1071:C:P	5:IE:27:ARG:HH21	1.79	1.03
6:IF:43:LEU:CD2	18:IR:35:ARG:HG2	1.87	1.03
1:IA:637:G:C4'	17:IQ:2:PRO:HD3	1.87	1.03
22:JB:3176:A:P	53:J7:33:ILE:HD12	1.96	1.03
22:JB:1138:A:N1	52:J6:4:ARG:NH2	2.06	1.03
22:JB:1818:G:OP2	24:JD:223:GLY:CA	2.06	1.03
22:JB:2407:G:O3'	22:JB:2408:G:P	2.16	1.03
22:JB:609:U:H5'	26:JF:26:VAL:HG11	1.07	1.03
22:JB:71:A:N1	45:JY:58:ALA:CB	2.21	1.03
22:BB:3876:A:O4'	53:B7:40:ASP:OD2	1.75	1.03
22:BB:506:G:O4'	40:BT:82:ASN:CA	2.05	1.03
22:BB:2490:U:H4'	25:BE:124:GLY:HA3	1.40	1.03
6:CF:99:ALA:HA	18:CR:62:GLU:OE2	1.59	1.03
22:DB:191:G:H21	22:DB:193:A:H1'	1.22	1.03
22:DB:2394:G:H5''	33:DM:63:ARG:CB	1.79	1.03
22:DB:413:G:O6	47:D1:63:PHE:CG	2.11	1.03
22:DB:2333:A:O2'	44:DX:32:LYS:HE2	1.54	1.03
22:DB:2343:C:H5'	44:DX:38:VAL:O	1.59	1.03
1:EA:1100:C:H41	2:EB:144:ARG:NH2	1.57	1.03
1:EA:407:G:C4'	4:ED:116:GLN:HB2	1.88	1.03
22:FB:1041:G:C5'	34:FN:119:PHE:CZ	2.40	1.03
22:FB:2669:C:N4	35:FO:18:VAL:HG12	1.73	1.03
22:FB:2461:G:C6	34:FN:54:VAL:HG12	1.92	1.03
23:FA:116:C:H4'	36:FP:50:THR:HB	1.05	1.03
1:GA:1398:A:N7	5:GE:22:GLY:CA	2.21	1.03
1:GA:1079:G:O2'	5:GE:14:ARG:NH2	1.90	1.03
1:GA:267:C:OP1	17:GQ:67:LYS:CE	2.06	1.03
1:GA:223:U:N1	20:GT:68:LYS:HE3	1.74	1.03

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:HB:1378:A:C5'	47:H1:11:PRO:CG	2.33	1.03
22:HB:1996:A:O2'	40:HT:116:ILE:HB	1.58	1.03
22:HB:2356:A:C2	36:HP:89:PHE:CE2	2.47	1.03
22:HB:681:A:OP2	33:HM:48:PHE:CZ	2.12	1.03
22:HB:1338:G:H21	40:HT:106:LEU:CG	1.70	1.03
1:IA:1057:G:C5'	3:IC:196:LEU:HD22	1.89	1.03
1:IA:1225:A:N1	13:IM:104:ARG:NH2	2.05	1.03
1:IA:363:A:N1	12:IL:30:ALA:N	2.06	1.03
1:IA:730:G:N1	15:IO:51:HIS:NE2	1.99	1.03
1:AA:877:C:O2	8:AH:3:THR:HA	1.55	1.03
1:AA:932:C:C3'	7:AG:3:ARG:HD2	1.78	1.03
22:BB:2859:U:H6	48:B2:52:TYR:CE1	1.59	1.03
22:BB:1070:G:OP1	30:BJ:114:ASP:OD1	1.76	1.03
22:BB:2237:C:OP1	44:BX:11:LYS:CA	2.07	1.03
22:BB:1338:G:C2	40:BT:107:ILE:CG2	2.40	1.03
1:CA:995:C:H42	14:CN:4:LYS:HD3	0.88	1.03
22:DB:1630:A:N1	40:DT:109:ARG:N	2.06	1.03
22:DB:2736:U:N3	28:DH:67:LEU:HD23	1.73	1.03
22:DB:502:A:H2'	40:DT:30:TYR:CE2	1.94	1.03
22:DB:1583:A:N9	24:DD:84:TYR:CE1	2.26	1.03
34:DN:98:VAL:CG2	43:DW:73:LYS:HE3	1.87	1.03
22:DB:934:G:O4'	44:DX:23:VAL:HG11	1.58	1.03
1:EA:1100:C:C6	2:EB:98:LEU:CD2	2.41	1.03
10:EJ:79:ARG:HH12	10:EJ:83:GLU:HB3	1.22	1.03
1:EA:186:C:H4'	20:ET:81:LYS:CD	1.88	1.03
22:FB:1636:G:H1'	50:F4:1:MET:HA	1.14	1.03
22:FB:219:G:H5'	51:F5:62:LEU:HD12	1.38	1.03
22:FB:348:U:C4'	42:FV:13:LYS:HB2	1.87	1.03
22:HB:1584:G:H5'	24:HD:59:LYS:HE2	1.04	1.03
22:HB:3188:U:P	29:HI:20:VAL:CG1	2.47	1.03
1:IA:782:A:C4'	1:IA:1515:C:H4'	1.87	1.03
1:IA:1100:C:H2'	2:IB:98:LEU:CD2	1.89	1.03
22:JB:16:G:H5'	48:J2:17:ASP:C	1.79	1.03
22:JB:2637:C:H41	28:JH:181:GLY:N	1.56	1.03
22:JB:3175:C:H4'	53:J7:31:GLU:OE1	1.56	1.03
22:JB:73:A:OP1	45:JY:51:ALA:HB1	1.58	1.03
38:JR:88:ILE:HB	39:JS:51:ALA:HB1	1.04	1.03
1:AA:1231:G:C4	13:AM:126:LYS:HG2	1.93	1.03
1:AA:17:U:H5'	5:AE:16:THR:CG2	1.88	1.03
1:AA:953:G:O5'	13:AM:124:PRO:HD2	1.16	1.03
1:AA:970:C:OP1	10:AJ:57:LYS:CD	2.05	1.03

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:BB:659:G:O2'	51:B5:48:PHE:HE2	1.42	1.03
22:BB:1488:G:C6	22:BB:1536:G:N2	2.26	1.03
22:BB:191:G:H21	22:BB:193:A:H1'	1.22	1.03
22:DB:465:C:N4	50:D4:39:ARG:NH1	2.05	1.03
22:DB:1516:A:O2'	24:DD:98:ALA:HB2	1.58	1.03
22:DB:1630:A:N3	40:DT:108:PRO:HB3	1.73	1.03
23:DA:77:G:N3	43:DW:29:ASN:ND2	2.04	1.03
22:FB:191:G:H21	22:FB:193:A:H1'	1.22	1.03
22:FB:2471:U:O3'	22:FB:2472:U:P	2.16	1.03
22:FB:348:U:H5''	42:FV:13:LYS:HB3	1.40	1.03
22:FB:2042:A:O3'	26:FF:62:LYS:HA	1.58	1.03
22:FB:2284:U:C1'	27:FG:152:MET:N	2.15	1.03
22:FB:573:C:HO2'	38:FR:37:GLN:CD	1.61	1.03
38:FR:47:TYR:HD1	39:FS:74:TYR:CD2	1.77	1.03
38:FR:91:ASN:ND2	39:FS:10:LYS:NZ	2.06	1.03
22:HB:1265:G:C6	38:HR:36:PHE:CD1	2.46	1.03
22:HB:593:C:OP1	38:HR:5:LYS:HA	1.58	1.03
22:HB:818:G:H4'	33:HM:41:SER:CB	1.88	1.03
23:HA:48:A:O2'	36:HP:4:ALA:N	1.89	1.03
1:IA:1463:C:OP1	37:JQ:117:ILE:HA	1.59	1.03
1:IA:1228:C:C5'	13:IM:108:ARG:NH2	2.21	1.03
22:JB:2374:C:C1'	47:J1:28:ARG:NH1	2.22	1.03
22:JB:1996:A:C5'	40:JT:116:ILE:C	2.26	1.03
22:JB:2655:C:O3'	22:JB:2656:G:P	2.17	1.03
22:JB:528:G:O4'	40:JT:97:VAL:O	1.77	1.03
22:JB:2558:C:H5''	25:JE:132:LYS:HG2	1.04	1.03
22:JB:23:G:H1'	40:JT:96:TYR:CZ	1.93	1.03
34:JN:32:ASP:OD2	43:JW:116:VAL:N	1.90	1.03
1:AA:323:U:O2'	20:AT:22:ARG:NH2	1.91	1.03
22:BB:2328:G:H3'	51:B5:42:ARG:HD2	1.39	1.03
22:BB:2372:A:H4'	33:BM:60:LEU:HA	1.03	1.03
22:BB:2726:U:C5'	28:BH:138:LYS:NZ	2.22	1.03
22:BB:1143:A:C2	31:BK:103:TYR:CA	2.42	1.03
1:CA:111:G:H5''	16:CP:27:LYS:HG2	1.33	1.03
13:CM:88:ARG:NH2	13:CM:99:ARG:CG	2.21	1.03
22:DB:176:A:N9	47:D1:30:GLU:CB	2.19	1.03
23:DA:107:C:C5'	43:DW:88:TYR:CA	2.35	1.03
22:DB:1666:G:N2	35:DO:106:ASP:HB3	1.72	1.03
23:DA:117:G:H5''	36:DP:52:ALA:HA	1.40	1.03
1:EA:653:A:C2	8:EH:27:PRO:HG2	1.82	1.03
1:EA:654:G:H1'	8:EH:2:LEU:HA	1.40	1.03

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:FB:574:C:H5''	39:FS:82:ARG:HH12	0.86	1.03
22:FB:24:G:H4'	40:FT:98:ASP:CB	1.84	1.03
1:GA:1374:A:N3	7:GG:29:LYS:HE3	1.74	1.03
1:GA:1455:G:H21	1:GA:1456:A:H5'	1.18	1.03
1:GA:927:G:C1'	1:GA:1531:A:H2	1.61	1.03
1:GA:958:A:N6	19:GS:77:THR:CG2	2.22	1.03
1:GA:17:U:H5''	5:GE:14:ARG:HD2	1.36	1.03
22:HB:1040:A:H1'	22:HB:2465:G:H5'	1.41	1.03
22:HB:1804:U:O2	24:HD:46:ARG:C	1.97	1.03
1:GA:1483:A:C6	22:HB:1942:G:O2'	2.12	1.03
22:HB:489:A:C3'	42:HV:5:SER:CA	2.32	1.03
1:IA:1187:G:O4'	9:II:113:LYS:CG	2.07	1.03
6:IF:43:LEU:HD22	18:IR:35:ARG:HG2	1.07	1.03
1:IA:684:A:C4	11:IK:39:PRO:HG2	1.94	1.03
1:IA:637:G:O4'	17:IQ:2:PRO:HD3	1.57	1.03
22:JB:15:G:C2'	48:J2:18:MET:HG3	1.88	1.03
22:JB:1745:C:HO2'	37:JQ:113:LYS:HE2	1.22	1.03
22:JB:402:A:C2	22:JB:2392:G:H4'	1.93	1.03
22:JB:2551:A:P	25:JE:144:ARG:HB3	1.99	1.03
26:JF:43:ALA:HB1	38:JR:2:PRO:CG	1.87	1.03
1:AA:1061:G:H4'	10:AJ:58:ASP:HB2	1.40	1.03
1:AA:187:G:H22	1:GA:190:A:H5'	1.24	1.03
1:AA:430:A:P	4:AD:8:VAL:H	1.82	1.03
1:AA:958:A:C2	19:AS:56:GLN:CG	2.42	1.03
1:AA:621:A:H5''	4:AD:139:ARG:HE	1.20	1.03
1:AA:1229:A:OP2	13:AM:119:GLY:CA	2.06	1.03
23:BA:96:C:OP1	43:BW:14:LEU:HB2	1.58	1.03
22:BB:1805:G:C2	24:BD:51:SER:HB2	1.91	1.03
1:AA:339:C:H5''	32:BL:109:ARG:HE	1.22	1.03
1:CA:587:G:H5'	8:CH:3:THR:O	1.57	1.03
1:CA:1230:C:N1	13:CM:125:ARG:CD	2.02	1.03
22:DB:69:G:O3'	22:DB:70:A:P	2.16	1.03
22:DB:1017:C:O2	31:DK:56:THR:HG23	1.58	1.03
25:DE:26:VAL:CB	37:DQ:3:THR:HG21	1.89	1.03
1:EA:880:C:OP2	12:EL:7:ILE:CG2	2.06	1.03
1:EA:1072:G:N2	2:EB:111:ARG:NE	2.05	1.03
22:FB:641:G:N7	51:F5:15:LYS:CE	2.11	1.03
22:FB:1586:A:C6	22:FB:1587:A:C2	2.45	1.03
22:FB:1674:C:OP1	25:FE:134:TRP:HB3	1.56	1.03
22:FB:2040:A:H2	48:F2:2:ALA:N	1.29	1.03
22:FB:2638:G:N7	28:FH:180:GLY:N	2.05	1.03

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:GA:1483:A:N1	22:HB:1942:G:C2'	2.20	1.03
1:GA:815:A:C2'	1:GA:1526:G:C2	2.40	1.03
22:HB:1835:C:H5'	24:HD:255:LYS:HZ3	1.13	1.03
22:HB:1995:G:H5''	40:HT:118:LYS:N	1.71	1.03
22:HB:2577:A:H5''	24:HD:235:GLY:C	1.79	1.03
1:IA:671:G:H21	6:IF:80:ARG:CZ	1.72	1.03
22:JB:1379:A:H5''	47:J1:1:MET:HE2	1.06	1.03
22:JB:1999:U:C2	48:J2:7:PRO:HD2	1.93	1.03
22:JB:2543:A:OP2	32:JL:39:GLY:HA2	1.58	1.03
1:AA:43:C:P	16:AP:12:LYS:HD2	1.97	1.02
1:AA:953:G:C5'	13:AM:124:PRO:CD	2.37	1.02
1:AA:720:C:C5'	18:AR:52:PRO:HG3	1.89	1.02
22:BB:177:U:C5'	47:B1:31:ILE:CB	2.36	1.02
22:BB:658:G:H4'	22:BB:2331:A:OP1	1.57	1.02
22:BB:227:G:C4'	33:BM:55:ARG:NE	1.67	1.02
1:CA:275:G:N3	17:CQ:15:MET:CE	2.22	1.02
12:CL:12:ARG:HH12	17:CQ:98:LEU:HD12	1.22	1.02
23:DA:29:C:OP1	36:DP:36:LYS:HG2	1.57	1.02
22:DB:1002:C:N3	22:DB:1174:G:N1	2.05	1.02
38:DR:43:ALA:CB	39:DS:75:LYS:HD3	1.89	1.02
1:EA:1117:G:H1'	9:EI:104:ARG:NH2	1.71	1.02
1:EA:546:G:P	4:ED:71:SER:HB2	1.99	1.02
1:EA:523:A:H61	12:EL:90:VAL:HG11	1.21	1.02
23:FA:79:U:P	43:FW:10:PRO:CB	2.46	1.02
22:FB:1041:G:H5'	34:FN:119:PHE:CE2	1.89	1.02
22:FB:1673:C:C5	25:FE:136:ARG:NH2	2.18	1.02
22:FB:2025:A:N6	31:FK:142:ARG:HH12	1.55	1.02
22:FB:2264:C:P	49:F3:28:ARG:HG2	1.99	1.02
34:FN:36:ILE:HD11	43:FW:74:ARG:O	1.53	1.02
34:FN:99:LYS:HB2	43:FW:74:ARG:CB	1.82	1.02
43:FW:88:TYR:C	43:FW:90:GLU:HB3	1.79	1.02
3:GC:23:TYR:CE2	10:GJ:94:VAL:HA	1.93	1.02
22:HB:2338:C:H5''	51:H5:50:LEU:HB3	1.04	1.02
22:HB:2737:A:H62	52:H6:18:ARG:HH11	1.05	1.02
22:HB:1861:G:N7	53:H7:200:LEU:HA	1.73	1.02
22:HB:237:G:N3	22:HB:618:A:O2'	1.92	1.02
22:HB:57:G:C5'	41:HU:75:ARG:HH22	1.72	1.02
22:HB:497:C:O2'	40:HT:77:ALA:HA	1.59	1.02
22:JB:477:A:H5'	50:J4:16:HIS:ND1	1.70	1.02
22:JB:3171:A:H8	53:J7:101:LYS:CB	1.71	1.02
22:JB:3167:U:C4	53:J7:98:ARG:HA	1.89	1.02

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:JB:2489:C:O2'	25:JE:126:PRO:CD	2.06	1.02
22:JB:910:U:H3'	22:JB:911:A:OP2	0.86	1.02
22:JB:1468:A:C6	35:JO:80:MET:CG	2.31	1.02
10:AJ:50:ILE:O	14:AN:45:ARG:HD2	1.58	1.02
1:AA:44:G:OP2	16:AP:12:LYS:CE	2.07	1.02
1:AA:265:G:C1'	17:AQ:65:ILE:CA	2.37	1.02
22:BB:2861:A:H1'	48:B2:33:CYS:C	1.78	1.02
22:BB:2790:C:O2'	48:B2:43:HIS:N	1.90	1.02
22:BB:338:G:H1'	42:BV:9:HIS:O	1.24	1.02
1:CA:559:A:H61	5:CE:126:ARG:HD3	0.87	1.02
1:CA:644:G:H4'	8:CH:89:PRO:CA	1.87	1.02
1:CA:1382:C:C4'	7:CG:79:ARG:HG3	1.89	1.02
22:DB:2328:G:OP1	51:D5:41:ILE:HD11	1.58	1.02
22:DB:1401:G:N2	22:DB:1413:U:C2	2.27	1.02
22:DB:625:A:H4'	26:DF:38:ARG:HD3	1.37	1.02
22:DB:2752:C:O2'	25:DE:164:ARG:HB2	1.57	1.02
32:DL:91:PHE:HA	37:DQ:79:ARG:CD	1.88	1.02
22:DB:23:G:H1'	40:DT:96:TYR:HE2	1.22	1.02
1:EA:958:A:C5	19:ES:56:GLN:NE2	2.26	1.02
22:FB:1356:G:C6	22:FB:1417:C:N4	2.21	1.02
22:FB:156:G:C3'	22:FB:157:G:OP2	2.07	1.02
22:FB:2554:C:O2	25:FE:140:SER:OG	1.76	1.02
22:FB:10:A:H62	22:FB:2607:C:H5''	0.87	1.02
22:FB:64:C:H42	41:FU:65:VAL:N	1.54	1.02
22:FB:2056:C:O2'	24:FD:228:PRO:HB3	1.58	1.02
34:FN:106:GLU:HB3	43:FW:115:ILE:HD13	1.34	1.02
1:GA:17:U:H5'	5:GE:16:THR:HB	1.05	1.02
12:GL:10:LEU:HB3	17:GQ:32:TYR:CD2	1.94	1.02
22:HB:539:A:OP2	31:HK:139:ARG:CG	2.07	1.02
22:HB:1234:C:C5'	39:HS:68:LYS:HD3	1.85	1.02
22:HB:761:G:C2'	40:HT:111:ARG:H	1.67	1.02
1:IA:1186:G:N2	14:IN:61:TRP:C	2.12	1.02
1:IA:589:C:H5'	8:IH:31:PHE:H	1.19	1.02
1:IA:670:G:N2	6:IF:77:ARG:HH12	1.58	1.02
1:IA:1187:G:C1'	9:II:113:LYS:HE2	1.76	1.02
1:IA:1186:G:H2'	9:II:113:LYS:NZ	1.61	1.02
6:IF:43:LEU:HD22	18:IR:35:ARG:CG	1.90	1.02
22:JB:1385:C:H5''	22:JB:2192:U:O4	1.59	1.02
22:JB:674:U:H5'	26:JF:93:TYR:OH	1.57	1.02
22:JB:2578:G:P	24:JD:228:PRO:CG	2.46	1.02
23:JA:119:G:H5''	36:JP:55:SER:OG	1.58	1.02

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:JB:1197:U:OP1	46:JZ:26:ARG:CG	2.06	1.02
1:AA:15:G:H4'	5:AE:24:ARG:CD	1.89	1.02
1:AA:740:U:O2'	15:AO:52:SER:HB3	1.58	1.02
1:AA:16:A:O3'	5:AE:16:THR:HA	1.36	1.02
13:AM:81:LEU:HB2	13:AM:92:HIS:NE2	1.40	1.02
22:BB:596:C:N1	33:BM:29:THR:HG22	1.63	1.02
1:CA:815:A:O2'	1:CA:1527:C:C1'	2.08	1.02
22:DB:2752:C:H4'	25:DE:166:THR:HB	1.38	1.02
22:FB:2241:U:H1'	22:FB:2307:A:H1'	1.39	1.02
22:FB:2284:U:H1'	27:FG:152:MET:CE	1.89	1.02
33:FM:63:ARG:CD	51:F5:9:MET:HE1	1.89	1.02
1:GA:919:A:O3'	1:GA:920:U:P	2.18	1.02
22:HB:2338:C:H5'	51:H5:52:LYS:NZ	1.73	1.02
22:HB:2343:C:O2'	44:HX:66:LYS:HB3	1.59	1.02
22:HB:2310:G:H4'	44:HX:71:ASN:HA	1.26	1.02
1:IA:1057:G:C5'	3:IC:196:LEU:CD2	2.35	1.02
1:IA:483:C:O2	16:IP:13:HIS:CE1	2.11	1.02
22:JB:2063:A:C5'	47:J1:33:VAL:HG13	1.88	1.02
33:JM:62:LYS:HD2	51:J5:30:ARG:CD	1.87	1.02
22:JB:1270:C:O2	26:JF:77:PHE:HA	1.58	1.02
22:JB:2209:G:C4'	47:J1:39:VAL:CA	2.16	1.02
1:AA:1228:C:H42	13:AM:120:LYS:HD3	1.25	1.02
1:AA:741:G:H4'	15:AO:52:SER:O	1.57	1.02
1:AA:668:G:N3	15:AO:45:VAL:HB	1.73	1.02
1:AA:742:G:C5'	15:AO:58:MET:HE3	1.89	1.02
1:AA:331:G:P	20:AT:10:LEU:HG	1.98	1.02
22:BB:3867:G:C1'	53:B7:42:LYS:HB2	1.89	1.02
22:BB:2487:G:H5''	22:BB:2534:U:H5'	1.41	1.02
22:BB:4:C:C2	22:BB:2874:A:N6	2.28	1.02
22:BB:628:A:C8	26:BF:97:ARG:NH1	2.26	1.02
22:BB:887:G:H1'	43:BW:166:LEU:O	1.60	1.02
22:BB:2310:G:O2'	44:BX:70:ILE:HG21	1.55	1.02
13:CM:90:LEU:HD11	19:CS:76:PRO:HD2	1.04	1.02
1:CA:583:A:C1'	17:CQ:91:ARG:CD	2.38	1.02
22:DB:1804:U:H1'	24:DD:46:ARG:HB2	1.41	1.02
22:DB:2661:G:N3	25:DE:11:MET:C	2.11	1.02
3:EC:12:LEU:HD13	14:EN:51:GLY:CA	1.88	1.02
1:EA:826:C:C1'	8:EH:15:ASN:CG	2.28	1.02
22:FB:1531:C:O2'	22:FB:1572:C:H1'	0.86	1.02
22:FB:2612:G:H1'	25:FE:62:PRO:HG3	1.37	1.02
22:FB:332:C:H5''	26:FF:130:THR:CG2	1.88	1.02

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:FB:504:G:H4'	40:FT:25:PHE:CD2	1.93	1.02
22:FB:864:C:H4'	46:FZ:42:GLY:CA	1.87	1.02
23:FA:116:C:H1'	36:FP:50:THR:CG2	1.89	1.02
23:FA:116:C:C4'	36:FP:50:THR:HG22	1.78	1.02
1:GA:1224:G:O2'	13:GM:102:ARG:CG	2.07	1.02
1:GA:15:G:N3	5:GE:17:ALA:CB	2.15	1.02
22:HB:847:C:C5'	51:H5:55:TRP:HH2	1.72	1.02
22:HB:70:A:H61	41:HU:31:PRO:CD	1.71	1.02
1:IA:1186:G:O2'	9:II:113:LYS:HD3	1.54	1.02
22:JB:15:G:C2'	48:J2:18:MET:CG	2.36	1.02
22:JB:1781:C:C5'	24:JD:213:ARG:NH2	2.22	1.02
1:AA:1148:U:H4'	9:AI:14:VAL:HG11	1.36	1.02
1:AA:1347:G:N7	9:AI:107:ARG:CB	2.22	1.02
1:AA:430:A:OP1	4:AD:7:PRO:CA	2.07	1.02
1:AA:942:G:H21	9:AI:124:GLN:HB3	0.93	1.02
22:BB:1175:A:N1	22:BB:1198:C:C2	2.27	1.02
22:BB:1485:U:O4	22:BB:1538:A:N6	1.93	1.02
22:BB:2713:A:O3'	22:BB:2714:A:P	2.18	1.02
1:CA:435:C:O2'	4:CD:156:GLU:CB	2.08	1.02
23:DA:44:C:H5''	27:DG:64:LYS:CE	1.89	1.02
22:DB:1164:C:O4'	38:DR:77:SER:CB	2.08	1.02
22:DB:1292:A:H5''	35:DO:33:ARG:CB	1.73	1.02
22:DB:1481:U:O4'	22:DB:1561:A:C2	2.12	1.02
22:DB:2601:C:OP1	25:DE:159:HIS:CE1	2.11	1.02
22:DB:2661:G:N3	25:DE:12:THR:N	2.07	1.02
22:DB:574:C:H5''	39:DS:82:ARG:NH1	1.75	1.02
1:EA:1117:G:C2	9:EI:106:ALA:CB	2.42	1.02
1:EA:1330:U:OP2	13:EM:26:GLY:CA	2.06	1.02
1:EA:111:G:OP1	16:EP:27:LYS:HE3	1.60	1.02
23:FA:9:G:H4'	36:FP:32:TYR:CZ	1.93	1.02
22:FB:227:G:H4'	33:FM:55:ARG:CZ	1.89	1.02
22:FB:2798:A:OP2	25:FE:112:GLY:HA3	1.57	1.02
22:FB:3877:A:N1	22:FB:1862:C:C2	2.27	1.02
22:FB:2372:A:O2'	33:FM:59:ARG:HG3	1.59	1.02
22:FB:29:U:C4'	38:FR:8:ILE:CG1	2.38	1.02
1:GA:719:C:O2'	18:GR:49:LYS:HB3	1.58	1.02
22:HB:191:G:H21	22:HB:193:A:H1'	1.22	1.02
22:HB:2398:U:C5'	51:H5:34:THR:H	1.59	1.02
22:HB:1018:C:C5'	31:HK:63:ARG:HD2	1.89	1.02
22:JB:191:G:H21	22:JB:193:A:H1'	1.22	1.02
22:JB:75:C:C2	45:JY:56:VAL:HG13	1.91	1.02

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1360:A:OP2	14:AN:35:ARG:NH2	1.93	1.02
1:AA:378:G:OP1	16:AP:25:ARG:HG3	1.55	1.02
1:AA:741:G:N9	15:AO:52:SER:OG	1.78	1.02
1:AA:877:C:H4'	8:AH:89:PRO:HG3	1.41	1.02
1:AA:922:G:C4'	5:AE:20:GLN:HE21	1.52	1.02
1:AA:932:C:H3'	7:AG:3:ARG:HD2	1.05	1.02
1:AA:16:A:H1'	5:AE:17:ALA:O	1.58	1.02
1:AA:1061:G:C5'	10:AJ:58:ASP:CB	2.36	1.02
22:BB:2035:G:H5'	25:BE:142:GLY:HA3	1.39	1.02
22:BB:2795:A:H4'	35:BO:5:LYS:HG2	1.04	1.02
1:CA:1317:C:C5	14:CN:16:PHE:HE2	1.78	1.02
1:CA:349:A:H1'	20:CT:8:ARG:CZ	1.86	1.02
3:CC:23:TYR:OH	10:CJ:9:ARG:CB	2.06	1.02
1:CA:583:A:C1'	17:CQ:91:ARG:NE	2.22	1.02
22:DB:1394:G:N2	22:DB:1588:A:C4	2.28	1.02
22:DB:1834:G:H1'	24:DD:244:ARG:HD2	1.39	1.02
22:DB:2589:C:O3'	25:DE:132:LYS:NZ	1.93	1.02
1:EA:953:G:C6	13:EM:104:ARG:NH1	2.25	1.02
22:FB:15:G:C2'	48:F2:18:MET:CG	2.38	1.02
22:FB:469:G:C8	50:F4:40:HIS:CD2	2.47	1.02
22:FB:546:A:H4'	38:FR:57:PHE:CZ	1.94	1.02
22:FB:573:C:O2'	38:FR:37:GLN:NE2	1.92	1.02
22:FB:2551:A:N6	25:FE:144:ARG:CA	2.23	1.02
1:GA:1151:A:H5''	10:GJ:41:PRO:HA	1.40	1.02
1:GA:339:C:H3'	32:HL:109:ARG:NE	1.52	1.02
1:GA:727:G:O3'	15:GO:51:HIS:CD2	2.12	1.02
1:GA:128:G:HO2'	17:GQ:60:ILE:HD11	1.23	1.02
1:GA:107:G:C2	20:GT:12:ALA:HA	1.92	1.02
22:HB:1374:G:O2'	47:H1:53:GLU:HG3	1.59	1.02
22:HB:1468:A:H62	35:HO:76:VAL:CG2	1.65	1.02
32:HL:83:ARG:HD2	37:HQ:83:PHE:CD2	1.94	1.02
38:HR:94:VAL:CG1	39:HS:10:LYS:HE2	1.90	1.02
43:HW:84:TYR:HE2	43:HW:128:ARG:NH1	1.51	1.02
1:IA:520:A:C4'	12:IL:73:GLU:HB3	1.90	1.02
22:JB:1999:U:OP1	26:JF:64:THR:O	1.77	1.02
22:JB:224:G:H22	51:J5:8:LYS:HG3	1.25	1.02
22:JB:965:G:OP1	34:JN:18:MET:HB3	1.59	1.02
22:JB:1813:A:OP2	24:JD:202:LYS:HG3	1.60	1.02
22:JB:205:A:H5'	33:JM:144:GLU:HB3	1.05	1.02
1:AA:546:G:C2	4:AD:2:GLY:HA2	1.94	1.02
5:AE:151:LEU:HB3	8:AH:79:VAL:HG13	1.06	1.02

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:529:G:N2	12:AL:49:ASN:ND2	2.08	1.02
22:BB:57:G:H2'	22:BB:72:A:H62	1.25	1.02
22:BB:1070:G:O4'	30:BJ:115:LEU:HD23	1.57	1.02
1:CA:1298:C:H2'	7:CG:114:ARG:CZ	1.72	1.02
1:CA:421:U:P	3:CC:127:ARG:HH21	1.75	1.02
22:DB:699:G:C5	50:D4:5:TYR:HA	1.93	1.02
22:DB:2328:G:OP1	51:D5:41:ILE:CD1	2.08	1.02
22:DB:10:A:H62	22:DB:2607:C:H5''	1.23	1.02
22:DB:869:C:H5'	44:DX:56:ASP:OD2	1.60	1.02
1:EA:1240:U:OP1	7:EG:115:ARG:CG	2.07	1.02
22:FB:347:C:H1'	42:FV:10:HIS:NE2	1.74	1.02
22:FB:23:G:C2'	40:FT:98:ASP:OD2	2.08	1.02
22:FB:93:A:H3'	45:FY:37:LEU:HD21	1.37	1.02
1:GA:255:G:C5'	17:GQ:45:HIS:HE1	1.72	1.02
22:HB:1470:G:H1'	35:HO:60:LEU:HD13	1.04	1.02
22:HB:742:G:H5''	24:HD:18:THR:CB	1.85	1.02
22:HB:7:G:H5'	31:HK:161:GLN:HE22	1.25	1.02
22:HB:8:A:H5''	31:HK:36:ASN:ND2	1.71	1.02
22:HB:2357:A:H5''	36:HP:26:ARG:NE	1.71	1.02
1:IA:600:C:P	8:IH:97:VAL:CG1	2.33	1.02
22:JB:1829:C:O2'	22:JB:1910:A:H1'	1.60	1.02
22:JB:2374:C:O2	47:J1:28:ARG:NH1	1.93	1.02
22:JB:684:C:H5	33:JM:45:LYS:HB3	1.10	1.02
22:JB:891:A:N1	22:JB:909:C:N3	2.08	1.02
22:JB:2692:A:H2'	35:JO:14:SER:CB	1.88	1.02
22:JB:2851:G:C3'	37:JQ:8:ASN:OD1	2.00	1.02
1:AA:653:A:N1	8:AH:56:LYS:HB2	1.74	1.02
1:AA:760:G:O2'	17:AQ:102:GLY:CA	2.07	1.02
1:AA:877:C:N1	8:AH:3:THR:OG1	1.85	1.02
22:BB:1401:G:N2	22:BB:1413:U:C2	2.26	1.02
22:BB:1416:A:H4'	22:BB:1485:U:H4'	1.07	1.02
22:BB:648:A:H61	33:BM:78:SER:HB2	0.85	1.02
1:CA:1231:G:C1'	13:CM:126:LYS:CD	2.34	1.02
1:CA:899:C:C4	24:DD:4:LYS:NZ	2.27	1.02
22:DB:2463:G:H1'	34:DN:121:LEU:HD11	1.36	1.02
22:DB:3093:C:H5''	29:DI:20:VAL:O	1.59	1.02
22:DB:507:A:P	40:DT:20:LEU:CA	2.48	1.02
6:EF:49:ALA:HB1	18:ER:80:PRO:CD	1.89	1.02
3:EC:18:TRP:HZ2	14:EN:53:LEU:HG	0.92	1.02
1:EA:452:A:P	16:EP:43:LYS:HD2	1.98	1.02
1:EA:633:G:C5'	17:EQ:28:PRO:CG	2.37	1.02

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:FB:573:C:O2'	38:FR:37:GLN:OE1	1.76	1.02
25:FE:18:ASP:CG	32:FL:85:ASP:CA	2.28	1.02
1:GA:1392:G:C5'	1:GA:1531:A:H5''	1.89	1.02
22:HB:2859:U:N3	48:H2:34:PRO:HG2	1.74	1.02
22:HB:2004:U:C6	38:HR:25:TRP:NE1	2.28	1.02
22:HB:2670:C:P	35:HO:17:ARG:HH21	1.80	1.02
22:HB:2826:C:O2'	35:HO:61:HIS:N	1.91	1.02
22:HB:3122:U:OP1	53:H7:130:PRO:HB2	1.60	1.02
22:HB:2494:C:O5'	31:HK:108:GLY:HA3	1.04	1.02
22:HB:1148:G:H21	31:HK:56:THR:HG21	1.24	1.02
13:IM:86:CYS:C	19:IS:74:PHE:CA	2.28	1.02
22:JB:1336:G:H5'	40:JT:105:ARG:HD2	1.39	1.02
22:JB:2608:A:O3'	22:JB:2609:G:P	2.17	1.02
22:JB:2851:G:O3'	37:JQ:8:ASN:CG	1.97	1.02
22:JB:797:A:N7	24:JD:229:VAL:CG2	2.20	1.02
1:AA:1102:A:O3'	2:AB:98:LEU:CD2	2.08	1.02
1:AA:426:G:C4'	4:AD:42:GLN:HB2	1.90	1.02
1:CA:126:G:N2	17:CQ:4:LYS:NZ	2.06	1.02
1:CA:922:G:C4'	5:CE:20:GLN:HE21	1.71	1.02
22:DB:2265:A:C5	49:D3:31:THR:OG1	2.03	1.02
22:DB:2716:G:H1	22:DB:2749:A:C1'	1.71	1.02
22:DB:504:G:H5'	40:DT:29:LYS:HE3	1.41	1.02
22:DB:674:U:O2	33:DM:23:PRO:CB	2.07	1.02
22:DB:1261:G:H1	38:DR:3:ARG:CZ	1.72	1.02
7:EG:16:LEU:CG	9:EI:41:VAL:HG12	1.90	1.02
3:EC:23:TYR:HB3	10:EJ:92:THR:HG22	1.42	1.02
1:EA:236:G:H1'	17:EQ:42:TYR:OH	1.60	1.02
22:FB:2398:U:H5	51:F5:30:ARG:HB2	1.17	1.02
22:FB:1235:C:OP1	39:FS:68:LYS:CG	2.08	1.02
22:FB:2716:G:C2	22:FB:2748:C:O2	2.11	1.02
1:GA:323:U:C1'	20:GT:19:SER:CB	2.34	1.02
7:GG:150:ALA:O	11:GK:59:TYR:CD1	2.13	1.02
22:HB:2591:C:H2'	48:H2:4:HIS:CB	1.90	1.02
22:HB:847:C:C5'	51:H5:55:TRP:CH2	2.42	1.02
22:HB:1861:G:O3'	22:HB:1862:C:P	2.18	1.02
22:HB:2329:C:OP2	51:H5:42:ARG:CD	2.05	1.02
22:HB:68:C:H4'	22:HB:74:G:C6	1.94	1.02
22:HB:1582:A:O2'	24:HD:215:LEU:CB	2.08	1.02
34:HN:73:LYS:HB3	34:HN:94:TRP:H	1.21	1.02
32:HL:85:ASP:OD2	37:HQ:87:LEU:HD22	1.57	1.02
22:JB:2371:A:H5''	51:J5:29:LYS:HD2	1.39	1.02

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:JB:340:G:O4'	42:JV:76:LEU:HD21	1.57	1.02
22:JB:494:A:O3'	42:JV:59:LYS:CD	1.91	1.02
22:JB:846:A:H1'	33:JM:53:ARG:CD	1.88	1.02
22:JB:1217:U:O2	33:JM:14:LYS:HE3	1.60	1.02
1:AA:1396:A:C5	5:AE:19:MET:HE2	1.95	1.02
5:AE:80:ILE:CG2	8:AH:138:TRP:CZ3	2.43	1.02
22:BB:1136:G:C8	52:B6:4:ARG:O	2.10	1.02
22:BB:2724:G:C1'	28:BH:143:GLN:HG3	1.89	1.02
22:BB:2768:C:H2'	22:BB:2866:A:N1	1.74	1.02
22:BB:51:A:C1'	22:BB:155:G:N2	2.23	1.02
22:BB:2218:G:OP2	24:BD:229:VAL:C	1.97	1.02
1:CA:8:A:N3	4:CD:209:ARG:NH1	2.06	1.02
22:DB:2003:A:C5	48:D2:9:LYS:CE	2.42	1.02
22:DB:2288:A:N6	27:DG:77:PHE:CZ	2.28	1.02
22:DB:2492:G:OP1	25:DE:120:TRP:CZ3	2.11	1.02
22:DB:1856:U:O3'	22:DB:3865:A:P	2.18	1.02
22:DB:596:C:H2'	33:DM:29:THR:HB	1.04	1.02
22:DB:641:G:OP1	51:D5:46:LYS:HD2	1.59	1.02
22:DB:2229:G:C2'	34:DN:84:MET:HB3	1.90	1.02
22:DB:545:C:O2'	38:DR:53:LYS:HE3	1.60	1.02
1:EA:523:A:N1	12:EL:90:VAL:HG22	1.73	1.02
29:FI:26:ARG:CG	47:F1:73:LYS:C	2.28	1.02
22:FB:2037:A:N7	48:F2:5:PRO:CG	2.22	1.02
22:FB:57:G:H5'	41:FU:73:ASN:C	1.58	1.02
22:FB:1017:C:C1'	31:FK:56:THR:CG2	1.84	1.02
25:FE:19:ARG:HG3	37:FQ:84:ALA:CB	1.89	1.02
1:GA:1350:A:H62	9:GI:118:LYS:HE3	1.10	1.02
22:HB:2340:C:C6	51:H5:26:LYS:NZ	2.28	1.02
22:HB:2656:G:P	25:HE:121:ASN:ND2	2.31	1.02
22:HB:2503:G:C1'	22:HB:2744:A:H2	1.59	1.02
22:HB:2741:G:C1'	28:HH:143:GLN:NE2	2.22	1.02
22:HB:1338:G:C8	40:HT:107:ILE:HG23	1.79	1.02
1:IA:919:A:C5	1:IA:920:U:C5	2.42	1.02
1:IA:684:A:H1'	11:IK:39:PRO:HD2	1.06	1.02
40:JT:40:LEU:HD12	48:J2:20:ARG:HG3	1.37	1.02
22:JB:2823:G:O6	37:JQ:60:SER:CB	2.08	1.02
22:JB:3187:U:H5''	29:JI:11:LEU:CD2	1.89	1.02
22:JB:979:A:O2'	46:JZ:13:PRO:CG	2.07	1.02
1:AA:559:A:OP2	5:AE:122:GLU:O	1.77	1.01
1:AA:1483:A:C2	22:BB:1942:G:N3	2.28	1.01
22:BB:2343:C:O2'	44:BX:66:LYS:CB	2.08	1.01

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:BB:887:G:H5''	43:BW:170:SER:HB2	1.31	1.01
22:BB:2814:G:H22	35:BO:91:PRO:HB2	1.24	1.01
25:BE:181:LEU:CD2	37:BQ:12:LEU:HG	1.89	1.01
37:BQ:70:LYS:H	37:BQ:71:ILE:HD12	1.25	1.01
22:BB:2365:U:C1'	44:BX:37:LEU:HD21	1.90	1.01
35:DO:99:ARG:HB2	48:D2:44:HIS:CD2	1.95	1.01
22:DB:231:G:O6	51:D5:4:MET:HA	1.60	1.01
22:DB:3197:U:C1'	22:DB:2181:A:N7	2.20	1.01
22:DB:2614:A:O2'	25:DE:77:ILE:HG22	1.25	1.01
22:DB:458:G:OP2	38:DR:3:ARG:HD3	1.61	1.01
22:DB:529:U:H4'	40:DT:39:ARG:NH2	1.72	1.01
1:EA:258:G:C3'	20:ET:83:ARG:HH12	1.73	1.01
22:FB:2399:C:C3'	51:F5:32:GLN:HB3	1.55	1.01
22:FB:1044:U:C6	52:F6:16:VAL:HG21	1.95	1.01
22:FB:1861:G:OP2	22:FB:1862:C:OP2	1.76	1.01
22:FB:2372:A:H1'	33:FM:59:ARG:HG2	1.40	1.01
22:FB:2658:A:H2'	25:FE:187:ALA:HB1	1.06	1.01
22:FB:75:C:H1'	45:FY:48:ARG:CD	1.83	1.01
22:HB:1041:G:N3	52:H6:6:SER:CB	1.99	1.01
22:HB:1827:G:H2'	22:HB:1828:C:H5	1.23	1.01
22:HB:1861:G:N3	53:H7:199:ASN:ND2	2.08	1.01
22:HB:2462:C:H1'	34:HN:50:ALA:HB1	1.36	1.01
22:HB:2591:C:O2'	48:H2:4:HIS:N	1.93	1.01
22:HB:857:U:C2	22:HB:946:U:O2	2.13	1.01
22:HB:1148:G:H5''	31:HK:133:GLY:HA3	1.40	1.01
1:IA:1392:G:C4'	1:IA:1530:G:O3'	2.03	1.01
1:IA:613:C:H5'	4:ID:86:LYS:HE3	1.40	1.01
1:IA:1373:G:O2'	7:IG:31:MET:HE1	1.60	1.01
1:IA:1349:A:C5'	9:II:121:ARG:CZ	2.38	1.01
22:JB:224:G:N1	51:J5:8:LYS:HG3	1.70	1.01
22:JB:1004:A:H1'	39:JS:88:GLN:OE1	0.85	1.01
1:AA:1092:A:H4'	7:AG:4:ARG:HD2	1.37	1.01
1:AA:265:G:H21	17:AQ:70:ARG:NH2	1.57	1.01
1:AA:429:U:O3'	4:AD:8:VAL:HG23	1.58	1.01
22:BB:51:A:C5	22:BB:116:A:N1	2.28	1.01
23:BA:59:A:H4'	27:BG:23:SER:CB	1.90	1.01
1:CA:1229:A:C8	13:CM:120:LYS:N	2.27	1.01
1:CA:981:U:OP1	14:CN:6:LEU:HD21	1.60	1.01
22:DB:503:G:C1'	40:DT:28:ALA:O	2.08	1.01
22:DB:2658:A:O2'	25:DE:187:ALA:CB	2.07	1.01
1:EA:538:G:H4'	12:EL:114:LYS:CD	1.88	1.01

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:EA:598:U:H2'	8:EH:130:GLY:HA3	1.41	1.01
1:EA:523:A:H61	12:EL:90:VAL:CG1	1.73	1.01
10:EJ:63:PHE:CE2	14:EN:58:LYS:HA	1.94	1.01
1:EA:1448:C:O2	20:ET:25:ARG:NH1	1.93	1.01
22:FB:231:G:C6	51:F5:4:MET:CB	2.38	1.01
22:FB:113:C:O2'	22:FB:125:A:C4'	2.08	1.01
22:FB:60:A:H5'	45:FY:31:GLN:OE1	1.58	1.01
22:FB:864:C:H1'	46:FZ:39:ALA:CA	1.89	1.01
22:FB:2797:G:H3'	25:FE:111:LYS:O	1.60	1.01
34:FN:36:ILE:HG21	43:FW:74:ARG:HA	1.42	1.01
22:FB:93:A:C2'	45:FY:37:LEU:HD21	1.90	1.01
1:GA:60:A:H62	20:GT:12:ALA:CA	1.73	1.01
1:GA:1398:A:C4	5:GE:22:GLY:N	2.26	1.01
22:HB:681:A:H5''	33:HM:48:PHE:CE1	1.95	1.01
22:HB:647:G:C2	33:HM:109:LEU:HD13	1.95	1.01
22:HB:637:G:H21	33:HM:74:VAL:HG13	1.20	1.01
1:IA:1392:G:N2	1:IA:1502:A:C5'	2.21	1.01
12:IL:11:VAL:HG12	17:IQ:36:ILE:HD11	1.41	1.01
22:JB:114:C:O2	22:JB:124:A:C2	2.13	1.01
22:JB:2315:A:C4	44:JX:70:ILE:CD1	2.43	1.01
22:JB:2786:G:O4'	25:JE:61:LYS:HD2	1.59	1.01
22:JB:489:A:O2'	42:JV:74:LEU:CA	2.06	1.01
22:JB:706:A:OP1	24:JD:60:ARG:CZ	2.08	1.01
29:JI:27:ASN:HD21	47:J1:61:LYS:HE3	0.86	1.01
43:JW:65:LEU:CD2	43:JW:128:ARG:HE	1.71	1.01
22:BB:1091:C:C5'	30:BJ:125:ASN:HB2	1.90	1.01
22:BB:999:A:P	46:BZ:10:ILE:HD13	2.00	1.01
1:CA:558:G:H4'	5:CE:121:LYS:CE	1.90	1.01
15:CO:89:GLY:CA	22:DB:729:A:OP1	2.08	1.01
22:DB:2558:C:C5'	25:DE:133:LYS:HE3	1.90	1.01
22:DB:2751:C:H5''	25:DE:202:ALA:CB	1.90	1.01
34:DN:127:PRO:HD2	43:DW:74:ARG:CZ	1.90	1.01
22:DB:575:U:H5	39:DS:80:TYR:O	1.41	1.01
43:DW:48:THR:HG21	43:DW:129:ARG:O	1.60	1.01
1:EA:640:A:C2	8:EH:129:VAL:CA	2.43	1.01
22:FB:1398:G:C5	22:FB:1415:C:N3	2.28	1.01
22:FB:2461:G:O6	34:FN:54:VAL:HG12	1.61	1.01
22:FB:1291:G:P	35:FO:35:GLN:O	2.17	1.01
22:FB:589:C:OP1	38:FR:33:ARG:CG	2.07	1.01
1:GA:13:U:O2	1:GA:914:A:H3'	1.60	1.01
1:GA:376:G:C5'	16:GP:28:ARG:NH2	2.11	1.01

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:GM:87:TYR:CE2	19:GS:3:ARG:NH2	2.29	1.01
1:GA:1187:G:N2	14:GN:60:SER:CB	2.24	1.01
22:HB:215:G:H1'	22:HB:618:A:O4'	1.61	1.01
1:IA:1148:U:P	9:II:14:VAL:HG11	2.01	1.01
22:JB:1204:G:H5'	33:JM:37:GLN:CD	1.66	1.01
22:JB:1204:G:P	33:JM:37:GLN:CD	2.38	1.01
22:JB:2823:G:C8	37:JQ:105:TYR:HB2	1.95	1.01
22:JB:348:U:H1'	42:JV:11:ASN:HB3	1.39	1.01
22:JB:2241:U:H5	44:JX:14:ARG:C	1.61	1.01
22:JB:60:A:OP2	45:JY:44:ARG:HB2	0.95	1.01
22:JB:75:C:C4	45:JY:59:GLU:OE1	2.13	1.01
1:AA:1296:C:O3'	13:AM:13:LYS:NZ	1.92	1.01
1:AA:1316:G:O3'	14:AN:18:VAL:HG11	1.61	1.01
22:BB:2862:G:H1'	48:B2:31:THR:HA	1.42	1.01
22:BB:505:G:C1'	40:BT:82:ASN:CB	2.37	1.01
22:BB:1008:G:P	38:BR:93:LYS:HG2	2.00	1.01
1:CA:1215:G:H5''	14:CN:3:ARG:NH2	1.76	1.01
1:CA:558:G:H5''	5:CE:121:LYS:HE2	1.03	1.01
23:DA:105:G:N2	43:DW:24:TYR:CE2	2.27	1.01
22:DB:1017:C:C1'	31:DK:56:THR:HG21	1.88	1.01
22:DB:2063:A:P	47:D1:20:VAL:CG1	2.46	1.01
22:DB:872:G:O2'	22:DB:2247:A:C2	2.12	1.01
34:DN:66:TYR:HE1	43:DW:116:VAL:HA	0.88	1.01
1:EA:238:G:OP2	17:EQ:40:LYS:HE3	1.58	1.01
22:FB:2062:U:H4'	47:F1:32:HIS:CE1	1.95	1.01
22:FB:673:G:H5''	26:FF:93:TYR:CD1	1.96	1.01
23:FA:117:G:H1'	36:FP:41:GLN:HG2	1.34	1.01
22:FB:1992:G:OP1	40:FT:62:ARG:HB2	1.56	1.01
34:FN:106:GLU:O	43:FW:113:VAL:HG12	1.59	1.01
22:HB:1075:C:H5''	30:HJ:84:ILE:HG23	1.36	1.01
22:HB:644:A:O2'	22:HB:2383:C:OP1	1.78	1.01
22:HB:681:A:H5''	33:HM:48:PHE:HE1	1.25	1.01
22:HB:2365:U:H4'	44:HX:37:LEU:CD1	1.90	1.01
1:IA:483:C:O2'	16:IP:13:HIS:CD2	2.13	1.01
1:IA:644:G:H5'	8:IH:92:ARG:HE	1.22	1.01
22:JB:414:A:C5'	53:J7:217:ARG:NH2	2.00	1.01
22:JB:760:U:H6	40:JT:111:ARG:CB	1.70	1.01
22:JB:2489:C:C2'	25:JE:125:GLY:HA2	1.90	1.01
22:JB:671:A:C2	26:JF:96:PRO:HG3	1.93	1.01
43:JW:51:LEU:HD22	43:JW:128:ARG:HH21	0.85	1.01
1:AA:545:C:H5''	4:AD:72:GLU:CG	1.89	1.01

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:BB:1042:G:H8	52:B6:6:SER:OG	1.40	1.01
22:BB:1003:C:N4	22:BB:1173:G:O6	1.92	1.01
22:BB:1471:G:H21	22:BB:2681:A:N6	1.57	1.01
22:BB:2218:G:OP2	24:BD:230:ASP:CA	2.07	1.01
25:BE:181:LEU:CD2	37:BQ:12:LEU:CD2	2.38	1.01
34:BN:66:TYR:HE1	43:BW:115:ILE:CB	1.72	1.01
22:BB:2847:G:N2	35:BO:17:ARG:HH12	1.59	1.01
1:CA:1309:G:OP1	13:CM:98:VAL:HG23	1.59	1.01
49:D3:24:THR:HG23	51:D5:35:GLY:HA2	1.05	1.01
22:DB:1274:C:OP2	40:DT:118:LYS:HG3	1.57	1.01
22:DB:157:G:H4'	50:D4:36:ALA:CB	1.89	1.01
22:DB:2328:G:C5'	51:D5:42:ARG:NH1	2.23	1.01
34:DN:99:LYS:CB	43:DW:73:LYS:CG	2.36	1.01
1:EA:1240:U:P	7:EG:115:ARG:CG	2.48	1.01
1:EA:686:U:C1'	11:EK:42:TRP:CZ2	2.40	1.01
1:EA:958:A:C6	19:ES:56:GLN:HG3	1.94	1.01
22:FB:15:G:O5'	48:F2:21:SER:HB2	1.59	1.01
22:FB:468:A:OP1	41:FU:67:ARG:HB3	1.58	1.01
43:FW:64:ALA:O	43:FW:128:ARG:NH1	1.92	1.01
22:FB:864:C:H4'	46:FZ:42:GLY:N	1.75	1.01
27:DG:179:LYS:CD	1:GA:1021:G:O2'	2.08	1.01
1:GA:1081:G:OP1	5:GE:18:ARG:NH1	1.74	1.01
12:GL:10:LEU:HB3	17:GQ:32:TYR:HD2	1.25	1.01
22:HB:1835:C:C5'	24:HD:255:LYS:NZ	2.24	1.01
22:HB:1861:G:C8	53:H7:199:ASN:CA	2.41	1.01
22:HB:57:G:H2'	22:HB:72:A:N6	1.72	1.01
1:IA:1148:U:H5''	9:II:14:VAL:CG2	1.90	1.01
1:IA:1393:U:C3'	1:IA:1394:A:OP2	2.08	1.01
1:IA:755:G:O2'	8:IH:1:MET:N	1.93	1.01
22:JB:1486:A:N1	22:JB:1536:G:C2	2.27	1.01
22:JB:2240:C:C5'	22:JB:2366:U:O2'	2.07	1.01
22:JB:592:G:H4'	38:JR:5:LYS:HD2	1.42	1.01
1:AA:1187:G:H2'	14:AN:60:SER:OG	1.61	1.01
1:AA:1230:C:O2	13:AM:125:ARG:HD3	1.56	1.01
1:AA:1350:A:H62	9:AI:118:LYS:HZ1	1.08	1.01
1:AA:339:C:C5'	32:BL:109:ARG:HE	1.73	1.01
1:AA:15:G:H2'	5:AE:17:ALA:HB3	1.41	1.01
22:BB:1374:G:H5''	47:B1:53:GLU:HG3	1.01	1.01
22:BB:2462:C:O2'	34:BN:50:ALA:CB	0.71	1.01
22:BB:511:A:C2	40:BT:12:LYS:O	2.13	1.01
22:BB:597:U:H5''	33:BM:28:LYS:HD2	1.38	1.01

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:BB:2856:U:C1'	35:BO:45:ARG:NH2	2.24	1.01
1:CA:1060:C:C5'	10:CJ:52:GLY:HA3	1.89	1.01
1:CA:135:C:O2'	16:CP:1:MET:CB	2.07	1.01
1:CA:815:A:N1	1:CA:1529:G:H2'	1.14	1.01
1:CA:623:C:H41	4:CD:139:ARG:NH2	1.58	1.01
10:CJ:62:HIS:CB	14:CN:59:ALA:HB3	1.90	1.01
22:DB:1007:A:O2'	38:DR:92:ARG:HB2	1.59	1.01
22:DB:1008:G:OP1	38:DR:92:ARG:NH2	1.93	1.01
22:DB:1483:G:O3'	22:DB:1484:G:P	2.18	1.01
22:DB:1834:G:O2'	24:DD:244:ARG:CB	2.09	1.01
32:DL:89:ILE:HA	37:DQ:81:PHE:HB3	1.42	1.01
13:EM:89:GLY:O	13:EM:92:HIS:CG	2.14	1.01
22:FB:1172:U:O2'	39:FS:22:VAL:HG11	1.61	1.01
22:FB:644:A:O2'	22:FB:2383:C:OP1	1.77	1.01
22:HB:1377:G:OP1	47:H1:40:HIS:CE1	2.13	1.01
22:HB:61:U:N3	22:HB:91:A:N1	2.08	1.01
22:HB:221:A:H4'	33:HM:68:VAL:HG13	1.40	1.01
22:HB:917:U:H2'	43:HW:118:HIS:CD2	1.93	1.01
1:IA:587:G:H5'	8:IH:89:PRO:HB2	1.39	1.01
1:IA:751:U:O3'	15:IO:69:TYR:OH	1.76	1.01
1:IA:753:A:C4	8:IH:1:MET:HE2	1.55	1.01
1:IA:1117:G:C4	9:II:106:ALA:CB	2.31	1.01
22:JB:224:G:N2	51:J5:8:LYS:HG3	1.74	1.01
22:JB:3168:G:H1	53:J7:101:LYS:HG2	0.87	1.01
22:JB:3877:A:O4'	53:J7:43:LYS:HD3	1.60	1.01
22:JB:1781:C:C5'	24:JD:213:ARG:CZ	2.38	1.01
22:JB:642:A:C2	22:JB:2393:G:N2	2.28	1.01
22:JB:2811:G:C5'	37:JQ:4:HIS:CE1	2.42	1.01
10:AJ:65:LEU:HA	14:AN:56:VAL:HA	1.40	1.01
22:BB:123:A:C4'	50:B4:13:ALA:HB1	1.90	1.01
22:BB:1141:U:H5''	31:BK:108:GLY:CA	1.90	1.01
22:BB:1143:A:C4	31:BK:111:LYS:HE2	1.93	1.01
22:BB:7:G:N2	22:BB:2870:C:O2	1.94	1.01
22:BB:1142:G:H1'	31:BK:110:LEU:HD23	1.02	1.01
34:BN:38:MET:HB2	43:BW:74:ARG:HD2	1.43	1.01
1:CA:673:G:C1'	18:CR:75:ILE:HG12	1.91	1.01
6:CF:49:ALA:HB1	18:CR:80:PRO:HD3	1.02	1.01
22:DB:1782:A:N3	24:DD:21:PHE:HZ	1.58	1.01
1:EA:403:C:O2'	4:ED:122:ARG:HD2	1.60	1.01
1:EA:589:C:C4'	8:EH:29:SER:CB	2.37	1.01
22:FB:1021:A:H5'	38:FR:66:ASN:CG	1.79	1.01

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:FB:1673:C:C5'	25:FE:136:ARG:CG	2.20	1.01
22:FB:2716:G:C5	22:FB:2748:C:N3	2.29	1.01
1:GA:1225:A:OP1	13:GM:102:ARG:HB3	1.56	1.01
1:GA:518:C:O2'	12:GL:50:SER:HB3	1.60	1.01
1:GA:919:A:C2	1:GA:1080:A:C2	2.48	1.01
22:HB:1261:G:C5	38:HR:3:ARG:CB	2.43	1.01
22:HB:227:G:OP1	33:HM:59:ARG:NH1	1.91	1.01
32:HL:87:SER:CA	37:HQ:82:PRO:O	2.07	1.01
22:HB:1338:G:H1'	40:HT:117:ILE:CD1	1.91	1.01
22:HB:490:A:H5'	42:HV:3:ARG:HB3	1.15	1.01
22:JB:50:G:H1'	22:JB:116:A:H61	1.24	1.01
22:JB:490:A:C5'	42:JV:3:ARG:CZ	2.38	1.01
40:JT:40:LEU:HD12	48:J2:20:ARG:CG	1.88	1.01
1:AA:1298:C:H2'	7:AG:114:ARG:NH2	1.76	1.01
1:AA:953:G:C5'	13:AM:124:PRO:HD3	1.91	1.01
22:BB:2726:U:H5''	28:BH:138:LYS:HZ3	1.25	1.01
22:BB:1141:U:C4'	31:BK:108:GLY:H	1.73	1.01
1:CA:620:C:HO2'	4:CD:138:TYR:HD1	1.01	1.01
1:CA:1057:G:H4'	3:CC:154:SER:HB2	1.43	1.01
13:CM:84:ILE:O	13:CM:93:ARG:HG2	1.59	1.01
1:EA:686:U:OP1	11:EK:41:THR:CG2	2.08	1.01
22:FB:2745:A:H3'	22:FB:2746:G:C8	1.95	1.01
22:FB:1742:G:C1'	22:FB:2835:A:H2'	1.88	1.01
22:FB:333:A:OP1	26:FF:160:ALA:HA	1.59	1.01
25:FE:19:ARG:NH2	37:FQ:65:SER:C	2.10	1.01
1:GA:1114:C:H5'	14:GN:57:ARG:HH22	0.84	1.01
1:GA:927:G:H22	1:GA:1532:U:H4'	1.22	1.01
1:GA:824:C:C1'	8:GH:2:LEU:CD2	2.39	1.01
22:HB:597:U:O2'	26:HF:84:PHE:CE2	2.14	1.01
22:HB:2373:C:OP1	33:HM:62:LYS:HA	1.59	1.01
1:IA:510:A:O3'	4:ID:43:HIS:ND1	1.94	1.01
1:IA:684:A:O4'	11:IK:38:ASN:CB	2.09	1.01
1:IA:684:A:C5'	11:IK:38:ASN:ND2	2.16	1.01
22:JB:2861:A:H2	48:J2:31:THR:HG1	1.01	1.01
22:JB:2399:C:C5'	51:J5:33:ASN:H	1.73	1.01
22:JB:541:C:O2'	38:JR:25:TRP:CE3	2.14	1.01
1:AA:815:A:O2'	1:AA:1527:C:H1'	1.58	1.01
1:AA:529:G:O6	12:AL:46:LYS:CD	2.09	1.01
1:AA:668:G:C2	15:AO:46:HIS:HE1	1.73	1.01
10:AJ:49:VAL:HG11	14:AN:45:ARG:CA	1.89	1.01
1:AA:663:A:C5'	18:AR:64:ARG:NH1	2.15	1.01

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BO:99:ARG:HD3	48:B2:44:HIS:CD2	1.95	1.01
22:BB:124:A:N7	50:B4:18:PHE:CZ	2.29	1.01
22:BB:1490:U:C2	22:BB:1535:C:OP2	2.13	1.01
22:BB:1809:G:C4'	24:BD:157:ARG:HH12	1.56	1.01
1:CA:1081:G:H8	5:CE:18:ARG:NH2	1.58	1.01
1:CA:710:G:OP1	6:CF:54:LYS:HD2	1.59	1.01
1:CA:1382:C:H4'	7:CG:79:ARG:CD	1.91	1.01
10:CJ:79:ARG:HH12	10:CJ:83:GLU:HB3	1.22	1.01
22:DB:627:A:H5''	26:DF:100:ARG:NH1	1.76	1.01
22:DB:891:A:C5	22:DB:909:C:N3	2.29	1.01
22:DB:742:G:H5''	24:DD:18:THR:OG1	1.59	1.01
22:DB:589:C:C4'	38:DR:33:ARG:CG	2.39	1.01
1:EA:407:G:C1'	4:ED:116:GLN:HE21	1.71	1.01
9:EI:78:LYS:HA	9:EI:81:ILE:HD12	1.42	1.01
6:EF:2:ARG:NH1	15:EO:2:PRO:HG3	1.75	1.01
22:FB:1411:C:H3'	22:FB:1412:C:C6	1.96	1.01
22:FB:410:A:H5''	47:F1:58:LYS:CE	1.91	1.01
40:FT:40:LEU:CD1	48:F2:20:ARG:HG3	1.91	1.01
1:GA:223:U:C1'	20:GT:68:LYS:HE3	1.90	1.01
1:GA:37:U:H3'	12:GL:124:LYS:HD3	1.39	1.01
22:HB:1090:C:H1'	30:HJ:132:ARG:CZ	1.90	1.01
1:IA:278:G:C8	17:IQ:95:TYR:CD2	2.49	1.01
22:JB:409:G:H4'	47:J1:39:VAL:CB	1.91	1.01
22:JB:1204:G:H5''	33:JM:37:GLN:CD	1.63	1.01
22:JB:2826:C:C5'	35:JO:61:HIS:CE1	2.44	1.01
23:JA:49:C:O3'	36:JP:95:LYS:CG	2.08	1.01
22:JB:1173:G:H4'	39:JS:91:THR:H	0.84	1.01
1:AA:1077:G:C2	5:AE:45:PHE:CZ	2.49	1.01
1:AA:1392:G:C5'	1:AA:1531:A:H5''	1.91	1.01
1:AA:331:G:C8	20:AT:10:LEU:HD23	1.96	1.01
1:AA:15:G:O2'	5:AE:17:ALA:HB3	1.32	1.01
1:AA:1061:G:C4'	10:AJ:58:ASP:HB2	1.90	1.01
22:BB:401:G:OP2	47:B1:23:GLU:OE2	1.79	1.01
23:BA:106:U:O2'	43:BW:88:TYR:HD1	1.22	1.01
22:BB:1041:G:C5	52:B6:5:SER:CB	2.43	1.01
22:BB:1143:A:N3	31:BK:101:THR:OG1	1.93	1.01
1:CA:8:A:C5'	5:CE:121:LYS:HA	1.90	1.01
22:DB:2543:A:H5''	32:DL:37:GLY:CA	1.89	1.01
22:DB:1674:C:O5'	25:DE:134:TRP:CD1	2.14	1.01
22:DB:2464:G:H5'	34:DN:47:GLN:NE2	1.74	1.01
34:DN:63:GLY:HA2	43:DW:115:ILE:CD1	1.89	1.01

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:FB:2773:G:C8	22:FB:2780:A:C2	2.49	1.01
22:FB:969:U:N3	34:FN:20:GLY:CA	2.24	1.01
22:FB:7:G:H1'	31:FK:162:LYS:HZ3	1.21	1.01
22:FB:468:A:OP1	41:FU:67:ARG:CG	2.08	1.01
1:GA:185:A:O2'	20:GT:78:ALA:HB2	1.60	1.01
22:HB:506:G:O4'	40:HT:82:ASN:O	1.79	1.01
22:HB:886:A:H2	43:HW:167:THR:HG23	1.24	1.01
32:HL:83:ARG:NH1	37:HQ:81:PHE:CE2	2.20	1.01
22:HB:969:U:C4	34:HN:20:GLY:HA2	1.96	1.01
1:IA:1187:G:HO2'	9:II:114:TYR:HD2	1.04	1.01
13:IM:86:CYS:HA	19:IS:74:PHE:CD2	1.96	1.01
22:JB:1379:A:C5'	47:J1:1:MET:CE	2.38	1.01
22:JB:226:C:O2'	22:JB:2373:C:C1'	2.07	1.01
22:JB:827:C:C5	33:JM:32:ARG:CZ	2.32	1.01
33:JM:61:PRO:HA	51:J5:27:SER:OG	1.61	1.01
22:BB:596:C:H3'	33:BM:29:THR:OG1	1.55	1.00
1:CA:559:A:OP2	5:CE:123:LEU:N	1.93	1.00
22:DB:810:U:C6	26:DF:56:ARG:NH2	2.28	1.00
22:DB:1040:A:C4'	34:DN:125:LYS:HZ3	1.67	1.00
22:DB:1163:C:C2'	38:DR:77:SER:OG	2.07	1.00
1:EA:261:U:OP2	20:ET:72:LEU:HD13	1.60	1.00
1:EA:262:A:OP2	20:ET:74:LYS:HD2	1.59	1.00
49:F3:24:THR:CB	51:F5:35:GLY:HA2	1.88	1.00
1:GA:967:C:C5'	9:GI:128:ARG:CG	2.39	1.00
22:HB:1260:A:O3'	38:HR:2:PRO:HD3	1.21	1.00
22:HB:1325:U:OP2	41:HU:72:ARG:NH1	1.93	1.00
1:IA:1409:C:H5'	22:JB:1898:U:O4	1.60	1.00
12:IL:11:VAL:CB	17:IQ:36:ILE:HG12	1.90	1.00
22:JB:1165:G:OP1	38:JR:58:ARG:CG	2.09	1.00
22:JB:2338:C:N3	22:JB:2407:G:N1	2.07	1.00
22:JB:2558:C:C4'	25:JE:132:LYS:CD	2.29	1.00
1:AA:332:G:C4'	20:AT:13:LEU:CD1	2.34	1.00
22:BB:922:A:C2	22:BB:2243:C:C2'	2.43	1.00
1:CA:815:A:N3	1:CA:1529:G:N3	2.06	1.00
4:CD:50:ARG:NH1	5:CE:10:MET:SD	2.34	1.00
22:DB:3123:G:H5'	53:D7:158:LYS:NZ	1.73	1.00
22:DB:319:G:P	40:DT:12:LYS:HE3	2.01	1.00
22:DB:1583:A:C8	24:DD:84:TYR:HD1	1.79	1.00
22:DB:2284:U:OP1	27:DG:152:MET:O	1.78	1.00
22:DB:318:G:C3'	40:DT:12:LYS:CE	2.39	1.00
22:DB:915:C:O2'	43:DW:164:PRO:HD3	1.60	1.00

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:EA:1190:G:C4'	3:EC:176:HIS:CE1	2.43	1.00
1:EA:1187:G:C1'	9:EI:111:ARG:CZ	2.25	1.00
1:EA:633:G:C4'	17:EQ:28:PRO:HG2	1.89	1.00
22:FB:2591:C:O2	48:F2:2:ALA:HB1	0.82	1.00
22:FB:642:A:C2	22:FB:2393:G:N2	2.29	1.00
22:FB:2542:U:H5''	32:FL:40:GLY:CA	1.90	1.00
22:FB:547:U:H5'	31:FK:30:LYS:CG	1.86	1.00
22:FB:864:C:H1'	46:FZ:40:VAL:N	1.75	1.00
22:FB:227:G:H4'	33:FM:55:ARG:HE	1.24	1.00
1:GA:1309:G:H3'	13:GM:99:ARG:NH2	1.76	1.00
1:GA:932:C:C4'	7:GG:4:ARG:NE	2.23	1.00
12:GL:10:LEU:CB	17:GQ:32:TYR:HD2	1.75	1.00
22:HB:504:G:H1'	40:HT:26:ALA:HA	1.44	1.00
1:IA:1097:C:O3'	2:IB:140:HIS:HE1	1.39	1.00
1:IA:825:G:H4'	8:IH:8:ASP:OD2	1.61	1.00
7:IG:16:LEU:HD21	9:II:42:ARG:HH11	1.19	1.00
22:JB:1377:G:N7	47:J1:1:MET:HB2	1.76	1.00
22:JB:3167:U:O2	53:J7:101:LYS:NZ	1.93	1.00
22:JB:2557:G:H21	25:JE:133:LYS:CE	1.74	1.00
22:JB:222:G:OP2	33:JM:67:ASN:OD1	1.77	1.00
22:JB:543:G:C4'	38:JR:22:LYS:HZ2	1.73	1.00
22:JB:488:A:N1	42:JV:74:LEU:HD21	1.75	1.00
1:AA:1249:C:C2'	9:AI:68:GLY:O	2.09	1.00
3:AC:23:TYR:HB3	10:AJ:94:VAL:CA	1.86	1.00
1:AA:545:C:H5''	4:AD:72:GLU:OE2	1.37	1.00
1:AA:1398:A:N9	5:AE:21:ALA:HB1	1.76	1.00
1:AA:1130:A:H5''	9:AI:18:PHE:CG	1.95	1.00
22:BB:696:U:H5'	50:B4:16:HIS:HE1	1.26	1.00
22:BB:51:A:H1'	22:BB:155:G:N2	1.76	1.00
22:BB:596:C:C2'	33:BM:29:THR:OG1	2.08	1.00
33:BM:63:ARG:NH2	51:B5:8:LYS:HD2	1.75	1.00
22:BB:1325:U:C4	41:BU:61:LYS:CG	2.43	1.00
1:CA:1231:G:H1'	13:CM:126:LYS:HD3	1.37	1.00
6:CF:49:ALA:CB	18:CR:79:LEU:CA	2.39	1.00
22:DB:1781:C:H4'	24:DD:209:ALA:HB2	1.41	1.00
22:DB:2558:C:H5'	25:DE:133:LYS:HE3	1.44	1.00
22:DB:3093:C:O3'	29:DI:20:VAL:O	1.79	1.00
22:DB:2394:G:C5'	33:DM:63:ARG:HB3	1.91	1.00
22:DB:2446:C:H1'	34:DN:117:GLU:OE2	1.61	1.00
22:DB:1234:C:H5'	39:DS:68:LYS:NZ	1.75	1.00
1:EA:1227:A:OP1	19:ES:80:TYR:CE2	2.13	1.00

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:FB:1265:G:N1	38:FR:37:GLN:HB2	1.50	1.00
22:FB:2284:U:H1'	27:FG:152:MET:HE3	1.03	1.00
22:FB:457:C:H5''	38:FR:3:ARG:HD3	1.01	1.00
25:FE:18:ASP:CG	32:FL:85:ASP:CB	2.15	1.00
22:FB:2474:G:O4'	34:FN:83:ARG:HD2	1.59	1.00
22:FB:346:C:O2	42:FV:79:SER:CB	1.97	1.00
1:GA:1131:G:H5''	9:GI:2:GLU:HB2	1.40	1.00
1:GA:391:G:H5''	16:GP:8:ARG:CZ	1.91	1.00
1:GA:932:C:H5'	7:GG:4:ARG:HG3	1.02	1.00
1:GA:969:A:C2	13:GM:126:LYS:CD	2.36	1.00
22:HB:3167:U:H5	53:H7:98:ARG:HD3	1.26	1.00
22:HB:1042:G:O3'	52:H6:8:LYS:HG3	1.58	1.00
22:HB:2553:G:N3	25:HE:142:GLY:O	1.93	1.00
22:HB:2826:C:O2'	35:HO:60:LEU:HB3	1.59	1.00
1:IA:676:A:O2'	11:IK:115:PRO:HA	1.58	1.00
22:JB:2842:C:N3	37:JQ:29:PRO:CD	2.24	1.00
22:JB:1813:A:H5'	24:JD:202:LYS:HZ1	1.23	1.00
22:JB:2570:C:C6	24:JD:237:GLU:HB3	1.96	1.00
22:JB:2186:G:H2'	24:JD:70:ARG:NH2	1.37	1.00
22:JB:2001:G:N3	38:JR:33:ARG:NE	2.00	1.00
34:JN:36:ILE:CG1	43:JW:74:ARG:NH2	2.24	1.00
1:AA:1014:A:C8	19:AS:34:TRP:CE3	2.49	1.00
22:BB:2365:U:H1'	44:BX:37:LEU:CG	1.91	1.00
22:BB:2768:C:C2'	22:BB:2866:A:N1	2.24	1.00
22:BB:1508:G:OP1	24:BD:100:GLY:O	1.78	1.00
22:BB:2825:A:N3	35:BO:61:HIS:CD2	2.28	1.00
23:BA:105:G:H5'	43:BW:92:VAL:HG22	1.04	1.00
23:DA:105:G:O2'	43:DW:91:PRO:HB3	1.61	1.00
22:DB:2710:C:O2'	25:DE:169:ASN:CB	2.08	1.00
22:DB:2645:C:C2	28:DH:109:TYR:HE2	1.78	1.00
22:DB:2645:C:N1	28:DH:109:TYR:HE2	1.57	1.00
22:DB:964:A:O3'	34:DN:18:MET:HB3	1.19	1.00
1:EA:1374:A:N3	7:EG:29:LYS:NZ	2.09	1.00
1:EA:1382:C:H4'	7:EG:79:ARG:CD	1.91	1.00
22:FB:718:A:H61	22:FB:739:G:H1'	1.25	1.00
22:FB:869:C:O2'	44:FX:24:LYS:CG	2.08	1.00
22:FB:2713:A:N6	25:FE:203:LYS:HB3	1.76	1.00
1:GA:659:U:H4'	15:GO:5:LYS:HE3	1.02	1.00
22:HB:2814:G:H5''	35:HO:46:PRO:HG3	1.42	1.00
22:HB:221:A:H4'	33:HM:68:VAL:HG22	1.43	1.00
22:HB:1265:G:C6	38:HR:36:PHE:HD1	1.79	1.00

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:IA:814:A:C5'	1:IA:1511:G:H5'	1.91	1.00
1:IA:279:A:N6	17:IQ:97:SER:C	2.13	1.00
22:JB:2210:C:P	47:J1:39:VAL:CG2	2.44	1.00
22:JB:2411:A:C2	47:J1:30:GLU:CA	2.45	1.00
22:JB:787:A:OP1	24:JD:49:ILE:HD11	1.61	1.00
22:JB:846:A:H4'	33:JM:53:ARG:CA	1.90	1.00
1:AA:954:G:C2	13:AM:120:LYS:HD2	1.93	1.00
1:AA:846:C:OP1	18:AR:23:LYS:NZ	1.94	1.00
33:BM:63:ARG:HH21	51:B5:8:LYS:HD2	1.25	1.00
22:BB:1510:A:C2	22:BB:1595:A:H1'	1.96	1.00
22:BB:969:U:O4	34:BN:20:GLY:HA2	1.60	1.00
22:BB:1128:G:H4'	43:BW:76:ARG:HE	1.22	1.00
22:DB:697:G:OP1	50:D4:16:HIS:HB2	1.61	1.00
22:DB:1401:G:N1	22:DB:1413:U:C4	2.28	1.00
22:DB:2708:U:O4'	25:DE:21:ILE:HG13	1.61	1.00
22:DB:642:A:H1'	33:DM:64:GLY:CA	1.91	1.00
25:DE:8:LYS:CB	37:DQ:3:THR:HB	1.91	1.00
7:EG:16:LEU:CG	9:EI:41:VAL:C	2.30	1.00
1:EA:262:A:H5'	20:ET:74:LYS:CE	1.90	1.00
22:FB:2323:U:OP1	49:F3:39:LYS:CD	2.10	1.00
22:FB:2490:U:H5''	25:FE:122:PHE:HE1	0.92	1.00
43:FW:84:TYR:CB	43:FW:93:GLU:HB2	1.91	1.00
1:GA:541:G:H21	4:GD:43:HIS:CE1	1.78	1.00
1:GA:1224:G:H1'	13:GM:102:ARG:HH11	1.24	1.00
1:GA:663:A:OP1	18:GR:65:ILE:HD11	1.56	1.00
1:GA:186:C:H1'	20:GT:81:LYS:HB3	1.43	1.00
22:HB:1234:C:H5''	39:HS:68:LYS:HD3	1.38	1.00
22:HB:2025:A:H8	31:HK:142:ARG:NH2	1.60	1.00
22:HB:1385:C:H1'	22:HB:2193:C:N3	1.77	1.00
22:HB:2717:G:N2	31:HK:117:GLU:O	1.94	1.00
37:HQ:70:LYS:H	37:HQ:71:ILE:HD12	1.25	1.00
22:JB:846:A:H4'	33:JM:52:GLY:C	1.81	1.00
22:JB:2578:G:OP2	24:JD:228:PRO:HG2	1.60	1.00
22:JB:1741:G:O6	37:JQ:125:MET:CE	2.08	1.00
22:JB:1174:G:C4	39:JS:89:ASN:N	2.29	1.00
1:AA:1221:G:O3'	19:AS:77:THR:OG1	1.76	1.00
1:AA:426:G:C4'	4:AD:42:GLN:H	1.74	1.00
1:AA:545:C:H5'	4:AD:72:GLU:OE2	1.59	1.00
23:BA:52:G:OP1	36:BP:63:ASN:ND2	1.94	1.00
22:BB:1166:A:C5	22:BB:1168:G:C5	2.49	1.00
22:BB:2334:C:C5'	44:BX:21:LEU:CG	2.40	1.00

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:BB:648:A:H61	33:BM:78:SER:CB	1.75	1.00
22:BB:1581:C:C5	24:BD:28:ARG:NH1	2.20	1.00
22:BB:2240:C:OP2	44:BX:14:ARG:HD2	1.61	1.00
22:BB:2334:C:H1'	44:BX:32:LYS:HE3	1.22	1.00
1:CA:407:G:H1'	4:CD:116:GLN:CG	1.92	1.00
22:DB:1887:G:C4	22:DB:1888:C:C6	2.50	1.00
22:DB:2350:G:O2'	49:D3:46:LYS:HA	1.61	1.00
22:DB:596:C:C4	33:DM:30:ALA:CB	2.24	1.00
1:EA:1328:C:O5'	13:EM:28:ALA:HB2	1.60	1.00
1:EA:437:U:H5''	4:ED:155:LEU:HD12	1.39	1.00
7:EG:13:GLN:CB	9:EI:42:ARG:NH1	1.96	1.00
22:FB:2241:U:OP2	44:FX:15:ASP:CA	2.09	1.00
22:FB:2612:G:H1'	25:FE:62:PRO:CG	1.91	1.00
1:GA:826:C:O2'	8:GH:12:ARG:CG	2.08	1.00
1:GA:720:C:C2	18:GR:50:ILE:HD12	1.95	1.00
22:HB:1321:A:O2'	50:H4:7:PRO:HG3	1.59	1.00
23:HA:93:G:H5''	34:HN:23:LYS:NZ	1.76	1.00
22:HB:1488:G:N7	22:HB:1533:G:N1	2.09	1.00
22:HB:512:A:P	40:HT:16:GLN:HG3	2.01	1.00
22:HB:237:G:O4'	22:HB:618:A:C2	2.13	1.00
34:HN:63:GLY:HA2	43:HW:111:GLY:CA	1.92	1.00
34:HN:68:ARG:NH2	43:HW:117:VAL:HG21	1.74	1.00
1:IA:1187:G:H1'	9:II:113:LYS:HE3	1.02	1.00
1:IA:132:C:H4'	20:IT:74:LYS:HD3	1.40	1.00
22:JB:1217:U:O2	33:JM:14:LYS:CE	2.07	1.00
22:JB:2262:C:C3'	49:J3:8:ILE:HG12	1.86	1.00
22:JB:2603:G:C1'	48:J2:22:HIS:CE1	2.45	1.00
22:JB:3176:A:C4	53:J7:162:GLN:NE2	2.14	1.00
22:JB:348:U:H1'	42:JV:11:ASN:CB	1.91	1.00
22:JB:468:A:C5'	41:JU:69:ILE:CD1	2.23	1.00
22:BB:1042:G:H5'	52:B6:8:LYS:CB	1.78	1.00
22:BB:147:G:OP1	47:B1:49:PHE:CE1	2.15	1.00
22:BB:3877:A:O3'	22:BB:1861:G:P	2.19	1.00
22:BB:574:C:C6	39:BS:79:GLN:OE1	2.14	1.00
22:BB:627:A:OP1	26:BF:100:ARG:NH2	1.93	1.00
22:BB:1798:G:C5'	24:BD:49:ILE:HD11	1.92	1.00
34:BN:64:LYS:O	43:BW:115:ILE:CD1	2.09	1.00
22:DB:2602:G:H21	48:D2:22:HIS:CE1	1.78	1.00
22:DB:641:G:O6	51:D5:15:LYS:CE	2.09	1.00
22:DB:1164:C:H5'	38:DR:77:SER:CA	1.90	1.00
22:DB:1673:C:H5''	25:DE:136:ARG:HG3	1.43	1.00

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:DB:811:G:OP1	26:DF:54:THR:O	1.78	1.00
25:DE:176:ARG:HD3	37:DQ:20:HIS:HE1	1.21	1.00
1:EA:407:G:N2	4:ED:157:LEU:CD1	2.24	1.00
1:EA:643:C:O2	8:EH:132:GLU:HB2	1.56	1.00
22:FB:2623:A:H2'	22:FB:2624:G:C4	1.97	1.00
22:FB:2658:A:O2'	25:FE:187:ALA:HB1	1.60	1.00
1:GA:826:C:C4'	8:GH:12:ARG:CD	2.39	1.00
1:GA:1105:A:H5''	3:GC:172:ARG:HH12	1.27	1.00
22:HB:419:G:OP1	53:H7:1:MET:SD	2.19	1.00
22:HB:2669:C:H41	35:HO:15:SER:HA	1.26	1.00
22:HB:2862:G:N2	48:H2:30:LEU:CG	2.17	1.00
7:IG:16:LEU:HD12	9:II:45:ALA:HB2	1.43	1.00
1:IA:1226:C:C5	13:IM:104:ARG:HB3	1.89	1.00
1:IA:134:A:N1	16:IP:25:ARG:NH1	2.09	1.00
13:IM:87:TYR:H	19:IS:74:PHE:CA	1.73	1.00
1:IA:258:G:OP2	20:IT:87:LYS:HG2	0.97	1.00
22:JB:1741:G:N3	22:JB:2835:A:C2	2.30	1.00
22:JB:1996:A:H4'	40:JT:117:ILE:N	1.77	1.00
1:AA:825:G:C2	8:AH:8:ASP:OD1	2.15	1.00
1:AA:1060:C:H5'	10:AJ:52:GLY:N	1.75	1.00
10:AJ:79:ARG:HH12	10:AJ:83:GLU:HB3	1.23	1.00
22:BB:1861:G:OP2	22:BB:1862:C:OP2	1.80	1.00
22:BB:2343:C:C5'	44:BX:40:GLN:CB	2.39	1.00
22:BB:2669:C:H5''	22:BB:2847:G:C6	1.96	1.00
22:BB:869:C:H4'	44:BX:57:HIS:H	0.84	1.00
22:BB:1583:A:H61	24:BD:89:SER:CB	1.73	1.00
22:BB:818:G:O5'	33:BM:41:SER:HA	0.94	1.00
1:CA:1309:G:OP1	13:CM:98:VAL:CG2	2.10	1.00
22:DB:643:A:H1'	33:DM:66:ASN:HB2	1.44	1.00
37:DQ:70:LYS:H	37:DQ:71:ILE:HD12	1.26	1.00
22:FB:1000:G:OP2	46:FZ:9:VAL:HG22	1.61	1.00
22:FB:1049:C:N3	22:FB:1129:A:C2	2.30	1.00
22:FB:3093:C:H4'	29:FI:21:LYS:CA	1.82	1.00
22:FB:64:C:N3	41:FU:65:VAL:CG2	2.25	1.00
1:GA:400:C:H5''	4:GD:73:ARG:HH22	0.86	1.00
1:GA:1292:U:P	7:GG:41:ARG:HH22	1.84	1.00
1:GA:1495:U:H5'	22:HB:1895:A:H1'	1.44	1.00
22:HB:1470:G:N2	22:HB:2683:C:O2	1.93	1.00
22:HB:824:U:C5'	33:HM:33:GLY:CA	2.40	1.00
22:HB:60:A:N6	22:HB:93:A:C4	2.30	1.00
22:HB:494:A:C1'	42:HV:56:LYS:HG3	1.91	1.00

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:IA:1114:C:O2'	14:IN:61:TRP:HE3	1.43	1.00
3:IC:5:ILE:HG23	10:IJ:51:ARG:NH1	1.77	1.00
10:IJ:46:ARG:HH11	14:IN:59:ALA:CB	1.75	1.00
22:JB:508:G:N2	42:JV:56:LYS:HG2	1.76	1.00
22:JB:610:G:C5'	26:JF:99:VAL:CG2	2.36	1.00
22:JB:2628:C:H1'	32:JL:28:GLY:HA3	1.40	1.00
34:JN:98:VAL:HG22	34:JN:99:LYS:HG2	1.44	1.00
1:AA:922:G:C4'	5:AE:20:GLN:NE2	2.25	1.00
10:AJ:65:LEU:CA	14:AN:56:VAL:HA	1.92	1.00
22:BB:2219:U:OP1	24:BD:229:VAL:HG13	0.83	1.00
34:BN:106:GLU:CA	43:BW:113:VAL:HG11	1.92	1.00
22:BB:505:G:C1'	40:BT:78:ASN:HB3	1.90	1.00
34:BN:65:ILE:CA	43:BW:115:ILE:HD12	1.91	1.00
1:CA:438:G:H5''	4:CD:125:HIS:NE2	1.75	1.00
1:CA:974:A:OP2	14:CN:32:SER:HB3	1.62	1.00
22:DB:1807:A:H4'	24:DD:63:ARG:NH1	1.76	1.00
22:DB:547:U:H5'	31:DK:30:LYS:CB	1.91	1.00
22:DB:588:G:H1'	48:D2:10:LYS:HZ3	1.22	1.00
34:DN:37:ALA:O	43:DW:74:ARG:NH2	1.93	1.00
1:EA:779:C:O2	11:EK:120:ARG:NH1	1.93	1.00
1:EA:827:U:H5'	8:EH:15:ASN:O	1.62	1.00
1:EA:995:C:N3	14:EN:4:LYS:HD3	1.74	1.00
22:FB:1135:C:O2'	52:F6:4:ARG:HG2	0.83	1.00
22:FB:1270:C:H1'	26:FF:77:PHE:HA	1.42	1.00
22:FB:2715:C:C4	22:FB:2749:A:N1	2.28	1.00
22:FB:312:G:C4'	42:FV:89:GLY:HA2	1.92	1.00
22:FB:1240:G:C5'	38:FR:16:LYS:HD3	1.83	1.00
38:FR:44:THR:HG23	39:FS:77:GLY:H	1.26	1.00
40:FT:56:LEU:HA	48:F2:28:PRO:HD3	1.03	1.00
40:FT:60:ILE:HG21	48:F2:25:LEU:HG	1.39	1.00
1:GA:1190:G:P	3:GC:4:LYS:HA	2.02	1.00
1:GA:735:C:O2	18:GR:75:ILE:HG21	1.62	1.00
1:GA:107:G:H22	20:GT:11:SER:C	1.65	1.00
22:HB:1582:A:H1'	24:HD:211:ARG:O	1.60	1.00
22:HB:824:U:O5'	33:HM:33:GLY:HA2	1.60	1.00
1:IA:865:A:H5'	1:IA:1078:U:O4	1.60	1.00
1:IA:537:G:H2'	12:IL:115:LYS:HE3	1.44	1.00
1:IA:640:A:C3'	8:IH:127:LEU:CD1	2.39	1.00
1:IA:246:A:C4'	17:IQ:100:LYS:HG3	1.85	1.00
22:JB:2370:G:H1	49:J3:2:ALA:N	1.58	1.00
23:JA:49:C:H4'	36:JP:95:LYS:HG2	1.43	1.00

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:JB:786:U:H4'	24:JD:48:ARG:HA	1.44	1.00
1:AA:1374:A:H2	7:AG:29:LYS:NZ	1.60	1.00
1:AA:179:A:O4'	20:GT:100:ILE:HG23	1.32	1.00
7:AG:149:ARG:HD3	11:AK:59:TYR:OH	1.62	1.00
1:AA:1199:U:O3'	10:AJ:54:PHE:CE2	2.14	1.00
1:AA:1187:G:C4	14:AN:61:TRP:CA	2.43	1.00
22:BB:1816:G:N2	24:BD:252:LYS:HD2	1.49	1.00
22:BB:2343:C:H4'	44:BX:40:GLN:CB	1.91	1.00
1:CA:1456:A:OP1	20:CT:28:ALA:CB	2.10	1.00
1:CA:407:G:O2'	4:CD:116:GLN:OE1	1.78	1.00
1:CA:583:A:C1'	17:CQ:91:ARG:HD3	1.92	1.00
6:CF:99:ALA:HB2	18:CR:31:LEU:HG	1.42	1.00
22:DB:2729:A:H2	52:D6:18:ARG:HH12	1.09	1.00
22:DB:2745:A:C5	22:DB:2746:G:C8	2.50	1.00
22:DB:917:U:H1'	43:DW:166:LEU:CD1	1.91	1.00
22:DB:969:U:O4	34:DN:21:ASP:N	1.94	1.00
22:DB:1072:U:O2	30:DJ:10:LEU:C	2.01	1.00
6:EF:49:ALA:HB1	18:ER:80:PRO:HD3	1.02	1.00
1:EA:450:G:OP1	16:EP:43:LYS:HB3	1.61	1.00
22:FB:1394:G:C2	22:FB:1588:A:C5	2.39	1.00
22:FB:1992:G:C5'	40:FT:62:ARG:HA	1.90	1.00
22:FB:409:G:C4'	47:F1:39:VAL:HG21	1.91	1.00
22:FB:2627:G:O2'	32:FL:38:GLY:O	1.77	1.00
22:FB:2679:G:N2	35:FO:68:GLN:HG2	1.75	1.00
1:GA:664:G:H22	1:GA:741:G:H1	1.05	1.00
22:HB:1378:A:OP2	47:H1:40:HIS:CE1	2.15	1.00
22:HB:1374:G:H5''	47:H1:52:THR:C	1.83	1.00
22:HB:1043:A:O4'	52:H6:23:VAL:HG23	1.62	1.00
22:HB:419:G:H5'	53:H7:1:MET:SD	2.00	1.00
22:HB:2342:U:O3'	44:HX:38:VAL:O	1.77	1.00
1:IA:1187:G:H1'	9:II:113:LYS:CE	1.67	1.00
1:IA:1318:A:O3'	19:IS:5:LEU:HD13	1.61	1.00
1:IA:532:A:C2	1:IA:1207:G:H5''	1.97	1.00
10:IJ:79:ARG:HH12	10:IJ:83:GLU:HB3	1.22	1.00
22:JB:2463:G:H4'	34:JN:47:GLN:NE2	1.75	1.00
23:JA:14:C:H6	44:JX:53:MET:CB	1.74	1.00
1:AA:17:U:H5'	5:AE:16:THR:OG1	1.60	0.99
1:AA:1373:G:C5'	7:AG:36:LYS:HB2	1.92	0.99
22:BB:2444:C:C4'	52:B6:3:VAL:CG2	2.10	0.99
23:BA:96:C:OP1	43:BW:10:PRO:O	1.80	0.99
1:CA:1060:C:OP1	10:CJ:51:ARG:O	1.80	0.99

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:10:A:N7	5:CE:126:ARG:CD	2.24	0.99
22:DB:1002:C:N4	22:DB:1174:G:H1	1.59	0.99
22:DB:742:G:N7	24:DD:208:LYS:HD3	1.72	0.99
1:EA:967:C:C5'	9:EI:127:LYS:O	2.09	0.99
22:FB:2040:A:O2'	48:F2:3:LYS:CB	2.09	0.99
22:FB:1398:G:C5	22:FB:1415:C:C2	2.50	0.99
22:FB:2750:G:N2	25:FE:204:ALA:HB1	1.77	0.99
22:FB:1468:A:N6	35:FO:58:GLY:HA3	1.76	0.99
1:GA:1484:C:C4'	22:HB:1943:A:O2'	2.10	0.99
10:GJ:79:ARG:HH12	10:GJ:83:GLU:HB3	1.22	0.99
1:GA:36:C:C4'	12:GL:117:ARG:CD	1.86	0.99
10:GJ:65:LEU:N	14:GN:56:VAL:HG13	1.77	0.99
22:HB:3168:G:O6	53:H7:101:LYS:HD3	1.59	0.99
22:HB:941:U:C4'	46:HZ:24:GLY:H	1.75	0.99
1:IA:1060:C:P	3:IC:2:GLY:HA3	2.01	0.99
22:JB:1088:A:H5'	30:JJ:91:PRO:O	0.82	0.99
22:JB:2399:C:OP1	51:J5:34:THR:C	1.98	0.99
22:JB:2557:G:N3	25:JE:133:LYS:CD	2.24	0.99
22:JB:409:G:H4'	47:J1:39:VAL:HB	1.41	0.99
22:JB:797:A:C6	24:JD:229:VAL:CG2	2.42	0.99
26:JF:28:HIS:ND1	33:JM:18:ARG:NE	1.91	0.99
43:JW:84:TYR:CD2	43:JW:92:VAL:CG2	2.44	0.99
1:AA:275:G:O5'	17:AQ:14:LYS:HB2	1.61	0.99
1:AA:254:G:N1	17:AQ:16:GLN:CB	2.01	0.99
1:AA:255:G:O5'	17:AQ:17:LYS:HE2	1.59	0.99
22:BB:1378:A:H5''	47:B1:40:HIS:NE2	1.76	0.99
33:BM:58:ALA:CB	51:B5:9:MET:HG3	1.92	0.99
22:BB:1486:A:C6	22:BB:1537:U:O4	2.15	0.99
22:BB:1804:U:H1'	24:BD:46:ARG:NE	1.77	0.99
22:BB:2365:U:C4'	44:BX:37:LEU:HD11	1.91	0.99
22:BB:2490:U:H5''	25:BE:122:PHE:CE1	1.97	0.99
22:BB:2464:G:C5'	34:BN:47:GLN:HE21	1.74	0.99
22:DB:2470:U:O4	22:DB:2548:G:O2'	1.80	0.99
22:DB:2733:A:C2	52:D6:15:LYS:CD	2.43	0.99
22:DB:676:G:P	33:DM:26:THR:HA	2.00	0.99
23:DA:93:G:C5'	34:DN:22:ALA:CB	2.40	0.99
1:EA:1115:C:C1'	14:EN:61:TRP:HD1	1.75	0.99
1:EA:952:U:O2	13:EM:126:LYS:O	1.80	0.99
22:FB:3174:C:O2	53:F7:209:MSE:SE	2.30	0.99
22:FB:2767:C:C2	25:FE:61:LYS:HE3	1.97	0.99
22:FB:965:G:H5''	34:FN:18:MET:SD	2.01	0.99

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:FB:73:A:C5'	45:FY:44:ARG:NH2	2.24	0.99
1:GA:1102:A:O3'	2:GB:98:LEU:CD2	2.10	0.99
20:AT:100:ILE:HG23	1:GA:179:A:H1'	1.43	0.99
1:GA:734:G:C4'	18:GR:71:LYS:NZ	2.25	0.99
1:GA:15:G:N3	5:GE:17:ALA:HB3	1.75	0.99
22:HB:3876:A:C5	53:H7:44:GLY:HA3	1.95	0.99
22:HB:1935:A:N3	22:HB:2539:C:H1'	1.77	0.99
22:HB:2463:G:H21	34:HN:120:ARG:HG3	1.24	0.99
34:HN:98:VAL:HG22	34:HN:99:LYS:HG2	1.44	0.99
22:HB:1247:U:C6	40:HT:11:LYS:HE3	1.97	0.99
22:JB:3167:U:C2	53:J7:101:LYS:CE	2.45	0.99
22:JB:235:C:P	33:JM:103:ASN:HD21	1.85	0.99
22:JB:868:U:C2	44:JX:25:LYS:HE2	1.96	0.99
1:AA:9:G:C5'	5:AE:104:ALA:HB3	1.92	0.99
1:AA:750:G:C1'	15:AO:22:THR:OG1	2.09	0.99
1:AA:668:G:N1	15:AO:46:HIS:CE1	2.29	0.99
22:BB:176:A:C2'	47:B1:31:ILE:HG21	1.78	0.99
22:BB:1453:A:O5'	22:BB:1454:U:C5	2.14	0.99
22:BB:2504:G:O2'	22:BB:2721:A:H2'	1.61	0.99
23:BA:92:G:C1'	34:BN:21:ASP:O	2.11	0.99
22:BB:2826:C:O2'	35:BO:60:LEU:CD2	2.09	0.99
1:CA:376:G:C4'	16:CP:28:ARG:NH1	2.22	0.99
1:CA:621:A:H5''	4:CD:139:ARG:HE	1.25	0.99
4:CD:204:ILE:HG22	5:CE:101:ILE:HD11	1.42	0.99
13:CM:88:ARG:HH21	13:CM:99:ARG:CG	1.74	0.99
22:DB:124:A:N6	50:D4:18:PHE:CE2	2.29	0.99
22:DB:2407:G:H4'	22:DB:2408:G:C8	1.95	0.99
22:DB:2766:U:H1'	25:DE:62:PRO:CA	1.92	0.99
22:DB:503:G:O3'	40:DT:29:LYS:CE	2.03	0.99
22:DB:2661:G:C4	25:DE:12:THR:N	2.29	0.99
25:DE:26:VAL:HG21	37:DQ:3:THR:HG23	1.02	0.99
22:DB:2025:A:H61	31:DK:142:ARG:HH12	1.05	0.99
32:DL:86:GLY:HA3	37:DQ:84:ALA:CA	1.92	0.99
32:DL:91:PHE:CA	37:DQ:79:ARG:NH1	2.25	0.99
34:DN:127:PRO:HD2	43:DW:74:ARG:NH1	1.76	0.99
1:EA:234:C:H4'	17:EQ:70:ARG:HE	1.21	0.99
1:EA:644:G:C6	8:EH:94:TYR:CE2	2.45	0.99
1:EA:673:G:H5''	6:EF:87:ARG:NE	1.77	0.99
22:FB:590:C:OP1	38:FR:32:TYR:CG	2.15	0.99
1:GA:657:G:O2'	15:GO:8:LYS:NZ	1.96	0.99
22:HB:1245:G:C3'	40:HT:8:PHE:CZ	2.34	0.99

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:HB:497:C:H1'	40:HT:80:LEU:HB2	1.39	0.99
22:HB:568:G:C2	38:HR:45:TYR:OH	1.96	0.99
22:HB:7:G:N2	22:HB:2871:U:O2	1.96	0.99
22:HB:886:A:N3	43:HW:167:THR:CG2	2.09	0.99
22:HB:8:A:P	31:HK:36:ASN:ND2	2.35	0.99
1:IA:817:C:O2	1:IA:1527:C:H4'	1.61	0.99
22:JB:3122:U:C6	53:J7:131:ARG:HA	1.98	0.99
22:JB:1470:G:H1'	35:JO:60:LEU:HD22	1.42	0.99
33:JM:62:LYS:HB2	51:J5:30:ARG:CZ	1.90	0.99
22:JB:2315:A:C2	44:JX:70:ILE:CD1	2.45	0.99
1:AA:181:G:OP2	20:GT:102:GLY:N	1.95	0.99
1:AA:518:C:H4'	12:AL:49:ASN:C	1.78	0.99
1:AA:663:A:H4'	18:AR:64:ARG:HH12	1.25	0.99
22:BB:2862:G:H1'	48:B2:31:THR:CA	1.90	0.99
22:BB:1398:G:C4	22:BB:1416:A:N1	2.31	0.99
34:BN:98:VAL:HG22	34:BN:99:LYS:HG2	1.44	0.99
4:CD:87:GLY:HA2	5:CE:96:PRO:O	1.61	0.99
5:CE:141:GLN:NE2	8:CH:69:ARG:NH2	1.80	0.99
22:DB:1042:G:H5'	52:D6:8:LYS:HE2	1.42	0.99
22:DB:1017:C:H1'	31:DK:56:THR:HG23	1.38	0.99
22:DB:2056:C:O2'	24:DD:228:PRO:HG2	1.61	0.99
22:DB:2662:C:C4	25:DE:21:ILE:HD12	1.98	0.99
22:DB:2033:C:C2	25:DE:156:MET:SD	2.56	0.99
22:DB:2645:C:N4	28:DH:109:TYR:CD2	2.29	0.99
22:DB:568:G:H4'	38:DR:59:ARG:NH2	1.76	0.99
22:DB:2249:U:C4'	44:DX:18:PRO:HD2	1.92	0.99
1:EA:1103:C:C1'	2:EB:108:ILE:HG23	1.92	0.99
1:EA:1312:G:N7	19:ES:4:SER:CB	2.26	0.99
1:EA:684:A:H1'	11:EK:39:PRO:HG2	1.01	0.99
22:FB:124:A:O4'	50:F4:19:ARG:HB2	1.63	0.99
22:FB:1044:U:C5	52:F6:16:VAL:HG22	1.74	0.99
22:FB:1203:A:H5''	33:FM:36:GLY:N	1.73	0.99
22:FB:1531:C:O2'	22:FB:1572:C:O2	1.69	0.99
22:FB:2590:U:C2	48:F2:2:ALA:HB2	1.96	0.99
22:FB:63:A:H2'	41:FU:70:GLY:O	1.31	0.99
38:FR:44:THR:C	39:FS:76:SER:OG	2.01	0.99
20:AT:100:ILE:HG22	1:GA:179:A:O2'	1.60	0.99
1:GA:1202:G:N7	10:GJ:54:PHE:CE1	2.30	0.99
22:HB:1468:A:P	35:HO:77:ARG:NH2	2.35	0.99
32:HL:91:PHE:CA	37:HQ:79:ARG:CD	2.29	0.99
1:IA:1187:G:O4'	9:II:113:LYS:CE	2.00	0.99

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:JB:837:U:O2'	22:JB:2338:C:N4	1.95	0.99
22:JB:672:C:C1'	26:JF:95:LEU:H	1.75	0.99
22:JB:2826:C:C4'	35:JO:61:HIS:ND1	2.24	0.99
22:JB:2848:A:C4	35:JO:6:ALA:HB1	1.96	0.99
41:JU:92:ALA:HB1	45:JY:30:PHE:HE1	1.23	0.99
22:JB:1000:G:N7	46:JZ:10:ILE:HD11	1.78	0.99
22:BB:922:A:H2	22:BB:2244:C:O4'	1.44	0.99
22:BB:2444:C:H4'	52:B6:3:VAL:HG21	1.43	0.99
1:CA:1074:G:C1'	2:CB:104:ASN:HB2	1.91	0.99
1:CA:968:A:C4'	10:CJ:56:HIS:CE1	2.46	0.99
22:DB:1861:G:O6	53:D7:199:ASN:HB2	1.62	0.99
22:DB:1437:A:HO3'	22:DB:1438:G:P	1.06	0.99
22:DB:1835:C:C5'	24:DD:255:LYS:NZ	2.24	0.99
22:DB:2463:G:H1'	34:DN:121:LEU:HD13	1.40	0.99
22:DB:917:U:C4'	43:DW:121:GLN:C	2.30	0.99
1:EA:613:C:H5'	4:ED:86:LYS:CD	1.91	0.99
1:EA:1226:C:H3'	13:EM:103:THR:C	1.80	0.99
22:FB:1008:G:H5''	38:FR:92:ARG:CD	1.92	0.99
22:FB:1163:C:O4'	38:FR:78:THR:CA	2.01	0.99
37:FQ:70:LYS:H	37:FQ:71:ILE:HD12	1.25	0.99
22:FB:64:C:N3	41:FU:65:VAL:HG23	1.75	0.99
34:FN:36:ILE:HG13	43:FW:74:ARG:CA	1.92	0.99
1:GA:186:C:H1'	20:GT:81:LYS:CB	1.91	0.99
1:GA:967:C:H5''	9:GI:128:ARG:HG3	1.40	0.99
22:HB:2338:C:C5'	51:H5:50:LEU:CB	2.29	0.99
22:HB:54:G:N3	22:HB:124:A:H2	1.61	0.99
26:HF:28:HIS:CE1	33:HM:18:ARG:NH1	2.30	0.99
1:IA:1297:C:H1'	7:IG:114:ARG:HH12	0.96	0.99
1:IA:684:A:H5'	11:IK:38:ASN:HD22	1.04	0.99
1:IA:1308:U:C2'	13:IM:99:ARG:NH1	2.16	0.99
1:IA:1359:C:H5''	14:IN:31:ARG:HG3	1.44	0.99
22:JB:16:G:H4'	48:J2:17:ASP:HB2	1.43	0.99
22:JB:2000:U:C3'	48:J2:8:LYS:HE3	1.91	0.99
22:JB:3167:U:H3	53:J7:101:LYS:CD	1.75	0.99
33:JM:61:PRO:CA	51:J5:27:SER:HB2	1.90	0.99
37:JQ:70:LYS:H	37:JQ:71:ILE:HD12	1.25	0.99
43:JW:65:LEU:HG	43:JW:93:GLU:O	1.63	0.99
22:JB:71:A:C5	45:JY:57:LYS:HG3	1.98	0.99
1:AA:620:C:C4'	4:AD:138:TYR:CE1	2.45	0.99
10:AJ:63:PHE:CE2	14:AN:48:ALA:HB1	1.96	0.99
10:AJ:47:PHE:CE1	14:AN:56:VAL:HG13	1.65	0.99

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:BB:2523:G:H1'	22:BB:2625:U:H5'	1.45	0.99
22:BB:533:C:H4'	22:BB:550:C:H1'	1.02	0.99
22:BB:827:C:OP2	39:BS:83:ARG:CA	2.10	0.99
22:BB:2739:G:H21	28:BH:139:GLN:CG	1.74	0.99
22:BB:760:U:H5'	40:BT:111:ARG:HD2	1.43	0.99
1:CA:815:A:C8	1:CA:1529:G:C6	2.50	0.99
22:DB:548:G:O2'	31:DK:33:ILE:HG23	1.57	0.99
22:DB:642:A:O2'	33:DM:64:GLY:O	1.78	0.99
22:DB:2490:U:C4'	25:DE:122:PHE:CE1	2.45	0.99
22:FB:1264:C:O3'	38:FR:36:PHE:CD1	2.16	0.99
22:FB:2056:C:O3'	24:FD:229:VAL:N	1.93	0.99
1:GA:1291:G:C4'	7:GG:41:ARG:HH12	1.75	0.99
22:HB:1829:C:H5'	22:HB:1911:A:C5'	1.91	0.99
22:HB:918:A:P	43:HW:118:HIS:HD2	1.85	0.99
22:HB:2237:C:C5	44:HX:2:ALA:HB2	1.97	0.99
49:J3:24:THR:HG23	51:J5:35:GLY:O	1.17	0.99
22:JB:2399:C:H5''	51:J5:33:ASN:HA	1.43	0.99
33:JM:63:ARG:HD3	51:J5:9:MET:HE3	1.41	0.99
22:JB:3122:U:H5''	53:J7:133:LYS:HG3	1.42	0.99
22:JB:884:C:H5''	34:JN:70:PHE:CE1	1.96	0.99
1:AA:941:G:N3	9:AI:121:ARG:NH2	2.09	0.99
1:AA:438:G:H5'	4:AD:123:HIS:CG	1.97	0.99
1:AA:518:C:C4	12:AL:48:PRO:HD3	1.94	0.99
22:BB:1374:G:C5'	47:B1:53:GLU:HG3	1.91	0.99
22:BB:1007:A:H5''	38:BR:93:LYS:HG3	1.43	0.99
22:BB:1238:A:H5''	39:BS:73:LYS:CB	1.93	0.99
22:BB:1583:A:N6	24:BD:89:SER:CB	2.24	0.99
22:BB:7:G:O6	22:BB:2870:C:C4	2.16	0.99
22:BB:677:G:H1'	22:BB:951:G:OP1	1.61	0.99
22:BB:886:A:O2'	43:BW:167:THR:CB	2.01	0.99
1:CA:1230:C:C6	13:CM:125:ARG:HD3	1.97	0.99
1:CA:546:G:N3	4:CD:2:GLY:HA2	1.78	0.99
22:DB:318:G:C3'	40:DT:12:LYS:HE2	1.93	0.99
25:DE:26:VAL:CG2	37:DQ:3:THR:HG23	1.78	0.99
22:DB:2662:C:C2'	32:DL:82:LYS:HZ2	1.76	0.99
34:DN:38:MET:CB	43:DW:74:ARG:CD	1.76	0.99
1:EA:599:C:H4'	8:EH:100:ILE:CD1	1.92	0.99
1:EA:1117:G:N1	9:EI:106:ALA:HB2	1.77	0.99
23:FA:117:G:H5''	36:FP:52:ALA:CA	1.85	0.99
23:FA:14:C:N1	44:FX:53:MET:HA	1.75	0.99
22:FB:468:A:OP1	41:FU:67:ARG:CB	2.10	0.99

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:FB:58:C:C6	22:FB:72:A:N1	2.31	0.99
22:FB:591:G:OP2	38:FR:32:TYR:CD2	2.15	0.99
20:AT:100:ILE:CG2	1:GA:179:A:H1'	1.92	0.99
1:GA:192:U:C5'	20:GT:56:MET:HE1	1.87	0.99
1:GA:974:A:P	14:GN:29:ARG:NH2	2.36	0.99
1:GA:720:C:H5''	18:GR:52:PRO:HG3	1.44	0.99
1:GA:223:U:C5'	20:GT:68:LYS:HG3	1.93	0.99
22:HB:1453:A:C8	22:HB:1454:U:C5	2.51	0.99
22:HB:3197:U:N3	22:HB:2203:G:C5	2.30	0.99
22:HB:54:G:N3	22:HB:124:A:C2	2.30	0.99
25:HE:19:ARG:HD2	37:HQ:87:LEU:HD13	1.44	0.99
1:IA:654:G:O4'	8:IH:2:LEU:HD23	1.63	0.99
1:IA:932:C:C4'	7:IG:4:ARG:NE	2.25	0.99
1:IA:1187:G:C1'	9:II:113:LYS:CG	2.41	0.99
1:IA:279:A:H61	17:IQ:97:SER:C	1.66	0.99
22:JB:2722:C:OP2	52:J6:35:ARG:C	2.00	0.99
1:IA:1418:A:N3	22:JB:1942:G:C1'	2.25	0.99
22:JB:320:A:C2'	42:JV:25:LEU:HD13	1.91	0.99
22:JB:63:A:C5'	41:JU:72:ARG:CA	1.74	0.99
22:JB:2550:C:O2'	25:JE:144:ARG:HG3	1.62	0.99
22:JB:1173:G:H4'	39:JS:91:THR:CA	1.92	0.99
5:AE:80:ILE:CG2	8:AH:138:TRP:CH2	2.46	0.99
1:AA:1350:A:O2'	7:AG:33:ASP:CA	1.90	0.99
1:AA:740:U:O2	15:AO:42:HIS:CE1	2.14	0.99
22:BB:2265:A:N6	49:B3:38:LYS:HE3	1.72	0.99
22:BB:2474:G:H4'	34:BN:83:ARG:CG	1.82	0.99
22:BB:48:A:N1	22:BB:153:A:N7	2.10	0.99
22:BB:1816:G:H21	24:BD:252:LYS:HD2	0.82	0.99
1:CA:1374:A:N3	7:CG:29:LYS:CE	2.25	0.99
5:CE:77:PRO:O	8:CH:107:LEU:HD11	1.63	0.99
1:CA:523:A:C6	12:CL:90:VAL:CA	2.46	0.99
1:CA:1317:C:H5	14:CN:16:PHE:HE2	1.06	0.99
22:DB:1615:C:H5'	41:DU:33:ALA:HB1	1.43	0.99
22:DB:2716:G:N1	22:DB:2749:A:H1'	1.75	0.99
22:DB:512:A:OP1	40:DT:15:LYS:O	1.79	0.99
22:DB:1150:C:OP1	31:DK:51:LEU:O	1.80	0.99
1:EA:1225:A:H5'	13:EM:101:GLN:O	0.81	0.99
1:EA:927:G:H4'	1:EA:1531:A:C2	1.97	0.99
13:EM:89:GLY:HA2	13:EM:92:HIS:CD2	1.98	0.99
1:EA:243:A:O2'	17:EQ:100:LYS:CG	2.10	0.99
22:FB:1110:G:H21	28:FH:168:GLN:NE2	1.60	0.99

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:FB:114:C:OP1	22:FB:126:C:N4	1.96	0.99
22:FB:597:U:C5'	33:FM:28:LYS:CD	2.40	0.99
1:GA:15:G:C1'	5:GE:17:ALA:HB3	1.92	0.99
22:HB:1142:G:OP1	31:HK:107:GLN:HB2	1.63	0.99
22:HB:511:A:C2'	40:HT:16:GLN:HG2	1.92	0.99
22:JB:1202:U:N1	39:JS:80:TYR:OH	1.95	0.99
1:AA:16:A:O3'	5:AE:16:THR:CB	2.11	0.99
22:BB:1142:G:O4'	31:BK:110:LEU:CB	2.11	0.99
32:BL:90:ARG:C	37:BQ:79:ARG:NH1	2.16	0.99
22:BB:497:C:C1'	40:BT:80:LEU:HD13	1.91	0.99
1:CA:1108:G:OP1	3:CC:176:HIS:HB2	1.61	0.99
22:DB:1681:A:H2	32:DL:79:HIS:NE2	1.60	0.99
22:DB:2370:G:O3'	22:DB:2371:A:P	2.20	0.99
22:DB:512:A:H4'	40:DT:15:LYS:HG3	1.17	0.99
41:DU:26:SER:HA	41:DU:79:ILE:HA	1.45	0.99
43:DW:84:TYR:CE2	43:DW:128:ARG:CG	2.46	0.99
22:DB:934:G:H1'	44:DX:23:VAL:HG21	1.36	0.99
1:EA:407:G:C2	4:ED:157:LEU:HD11	1.98	0.99
1:EA:537:G:P	12:EL:113:ARG:HH12	1.84	0.99
1:EA:632:A:C4	17:EQ:30:PRO:HB3	1.98	0.99
6:EF:48:LEU:CD2	18:ER:77:GLY:C	2.31	0.99
22:FB:2398:U:C5'	51:F5:34:THR:OG1	2.10	0.99
23:FA:116:C:H4'	36:FP:50:THR:CG2	1.78	0.99
22:FB:124:A:H4'	50:F4:19:ARG:CZ	1.93	0.99
22:FB:156:G:H2'	22:FB:157:G:H8	0.95	0.99
22:FB:1912:G:O3'	22:FB:1913:G:P	2.21	0.99
22:FB:2669:C:H42	35:FO:18:VAL:HG12	1.23	0.99
22:FB:999:A:OP1	46:FZ:7:ARG:CA	2.10	0.99
1:GA:580:U:H4'	15:GO:57:LEU:HD22	1.38	0.99
1:GA:1061:G:C4'	10:GJ:58:ASP:OD2	2.03	0.99
10:GJ:51:ARG:CA	14:GN:45:ARG:NE	2.25	0.99
1:GA:264:U:O2'	17:GQ:64:PRO:O	1.74	0.99
22:HB:1041:G:N3	52:H6:6:SER:HB3	1.09	0.99
22:HB:1797:C:O2	24:HD:49:ILE:HG13	1.62	0.99
22:HB:2337:A:H2'	51:H5:52:LYS:NZ	1.71	0.99
22:HB:1584:G:C5'	24:HD:59:LYS:CE	2.41	0.99
22:HB:57:G:H5'	41:HU:75:ARG:NH2	1.78	0.99
1:IA:520:A:O3'	12:IL:73:GLU:HB3	1.62	0.99
23:JA:30:C:OP2	36:JP:34:SER:OG	1.79	0.99
22:JB:2577:A:O3'	24:JD:228:PRO:CG	2.10	0.99
22:JB:2826:C:C4'	35:JO:61:HIS:CG	2.46	0.99

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:JB:3094:A:O4'	29:JI:28:TRP:HZ3	1.21	0.99
22:JB:2724:G:H21	28:JH:143:GLN:CD	1.66	0.99
1:AA:1221:G:O3'	19:AS:77:THR:HB	1.63	0.99
1:AA:973:G:C4'	14:AN:41:ARG:HH22	1.76	0.99
22:BB:418:C:C5'	53:B7:1:MET:SD	2.50	0.99
22:BB:1149:G:OP1	31:BK:130:ALA:CB	2.10	0.99
22:BB:1681:A:C2	22:BB:2706:U:N1	2.30	0.99
22:BB:1829:C:O2'	22:BB:1910:A:H2'	1.61	0.99
22:BB:1885:C:O3'	24:BD:241:GLY:CA	2.11	0.99
22:BB:910:U:C3'	22:BB:911:A:C8	2.45	0.99
22:BB:1071:U:O4	30:BJ:130:THR:HG23	1.62	0.99
22:BB:505:G:H1'	40:BT:82:ASN:HB2	1.42	0.99
22:DB:1237:G:H5''	39:DS:87:ARG:CD	1.92	0.99
22:DB:2745:A:H2'	22:DB:2746:G:C5'	1.90	0.99
22:DB:413:G:C6	47:D1:63:PHE:CZ	2.44	0.99
34:DN:98:VAL:HG22	34:DN:99:LYS:HG2	1.44	0.99
1:EA:391:G:C5'	16:EP:8:ARG:NE	2.24	0.99
1:EA:523:A:N1	12:EL:90:VAL:HG13	1.76	0.99
1:EA:644:G:C6	8:EH:94:TYR:HE2	1.69	0.99
22:FB:1673:C:H3'	25:FE:136:ARG:CZ	1.92	0.99
22:FB:2745:A:C8	22:FB:2746:G:C8	2.50	0.99
22:FB:597:U:C5'	33:FM:28:LYS:HD2	1.92	0.99
22:FB:2638:G:O6	28:FH:181:GLY:O	1.81	0.99
34:FN:106:GLU:HG3	43:FW:115:ILE:HG23	1.42	0.99
34:FN:99:LYS:CA	43:FW:74:ARG:HG3	1.92	0.99
1:GA:1349:A:H5''	9:GI:121:ARG:HH11	0.84	0.99
1:GA:694:A:H5'	11:GK:53:SER:HB2	1.43	0.99
1:GA:192:U:C4'	20:GT:56:MET:HE2	1.87	0.99
22:HB:1321:A:O2'	50:H4:7:PRO:CB	2.11	0.99
22:HB:2338:C:H5'	51:H5:52:LYS:HZ2	1.25	0.99
22:HB:1468:A:P	35:HO:77:ARG:HH21	1.86	0.99
22:HB:2861:A:C2	48:H2:40:LYS:CG	2.39	0.99
22:HB:3177:C:C4'	53:H7:163:PRO:CG	2.40	0.99
22:HB:71:A:C8	45:HY:54:ASN:O	2.16	0.99
1:IA:768:A:N3	1:IA:1512:U:O2'	1.80	0.99
22:JB:1997:A:P	40:JT:116:ILE:HB	2.02	0.99
22:JB:2491:C:H1'	25:JE:141:ILE:HG23	1.44	0.99
22:JB:3094:A:C4'	29:JI:28:TRP:HZ3	1.75	0.99
22:JB:2558:C:C4'	25:JE:132:LYS:CG	2.41	0.99
1:AA:667:G:N1	15:AO:46:HIS:HD2	1.55	0.98
1:AA:876:G:O2'	8:AH:4:ASP:CB	2.10	0.98

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:BB:1143:A:N3	31:BK:111:LYS:HE3	1.78	0.98
22:BB:2767:C:C1'	25:BE:61:LYS:HZ2	1.68	0.98
22:BB:2862:G:H4'	48:B2:32:GLU:OE2	0.80	0.98
22:BB:5:A:N1	22:BB:2872:U:C4	2.30	0.98
22:BB:497:C:O4'	40:BT:80:LEU:HD13	1.63	0.98
22:BB:69:G:O3'	22:BB:70:A:P	2.20	0.98
1:CA:523:A:H62	12:CL:90:VAL:CG1	1.65	0.98
1:CA:599:C:OP1	8:CH:95:VAL:O	1.79	0.98
22:DB:1401:G:N1	22:DB:1413:U:C2	2.30	0.98
22:DB:1808:C:OP1	24:DD:87:ASN:CG	2.01	0.98
22:DB:1887:G:C5	22:DB:1888:C:C6	2.51	0.98
22:DB:2313:G:C2'	36:DP:15:ARG:NH1	2.22	0.98
22:DB:2333:A:O2'	44:DX:32:LYS:HE3	1.58	0.98
22:DB:2713:A:N1	25:DE:203:LYS:NZ	2.10	0.98
22:DB:503:G:H1'	40:DT:28:ALA:C	1.82	0.98
22:DB:869:C:N1	44:DX:24:LYS:HG2	1.77	0.98
1:EA:1074:G:O2'	2:EB:103:THR:O	1.79	0.98
22:FB:114:C:H1'	22:FB:124:A:H1'	1.45	0.98
1:GA:1060:C:O2	10:GJ:56:HIS:CD2	2.15	0.98
1:GA:1309:G:OP1	13:GM:98:VAL:O	1.81	0.98
1:GA:1373:G:H5''	7:GG:36:LYS:HB2	1.45	0.98
1:GA:253:U:O2	17:GQ:15:MET:SD	2.21	0.98
1:GA:236:G:H4'	17:GQ:25:ARG:CZ	1.66	0.98
22:HB:2751:C:O2'	25:HE:166:THR:CG2	2.12	0.98
22:HB:510:G:H2'	40:HT:16:GLN:NE2	1.77	0.98
22:HB:51:A:C6	22:HB:116:A:C2	2.49	0.98
22:HB:596:C:OP1	33:HM:28:LYS:O	1.79	0.98
22:HB:2372:A:O4'	33:HM:60:LEU:HA	1.63	0.98
1:IA:1228:C:N4	13:IM:104:ARG:CG	2.20	0.98
1:IA:1321:C:H4'	13:IM:87:TYR:CD1	1.97	0.98
22:JB:1174:G:N3	39:JS:88:GLN:HA	1.78	0.98
22:JB:1175:A:C5'	39:JS:89:ASN:HD21	1.76	0.98
22:JB:1268:U:OP1	26:JF:68:ARG:HG2	1.62	0.98
22:JB:1744:G:C5	37:JQ:124:VAL:CG2	2.44	0.98
22:JB:1745:C:O2'	37:JQ:113:LYS:CE	2.11	0.98
22:JB:790:A:O2'	24:JD:49:ILE:HD12	1.63	0.98
25:JE:20:ALA:HA	32:JL:84:ALA:O	1.61	0.98
1:AA:545:C:C5'	4:AD:72:GLU:CB	2.40	0.98
13:AM:86:CYS:HG	13:AM:92:HIS:CD2	1.68	0.98
22:BB:123:A:H4'	50:B4:13:ALA:HB1	1.45	0.98
22:BB:2236:U:OP1	44:BX:10:SER:N	1.94	0.98

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:BB:2343:C:C4'	44:BX:40:GLN:HB2	1.93	0.98
22:BB:2614:A:H4'	25:BE:77:ILE:HB	1.43	0.98
22:BB:2847:G:C2	35:BO:17:ARG:NH1	2.31	0.98
22:BB:51:A:C6	22:BB:116:A:N1	2.31	0.98
22:BB:597:U:C4'	33:BM:28:LYS:CD	2.30	0.98
41:BU:26:SER:HA	41:BU:79:ILE:HA	1.45	0.98
22:BB:886:A:H2'	43:BW:167:THR:CG2	1.93	0.98
1:CA:558:G:H5''	5:CE:121:LYS:CE	1.92	0.98
22:DB:1175:A:N1	22:DB:1198:C:C2	2.31	0.98
22:DB:2040:A:C4	48:D2:3:LYS:O	2.15	0.98
22:DB:2411:A:H2	47:D1:22:MET:CE	1.66	0.98
22:DB:2728:A:O2'	28:DH:66:GLY:O	1.82	0.98
22:DB:1078:A:O2'	30:DJ:22:PRO:O	1.80	0.98
38:DR:98:ILE:HD11	39:DS:12:TYR:O	1.62	0.98
22:DB:507:A:H2'	40:DT:21:ARG:NH1	1.78	0.98
22:DB:934:G:H1'	44:DX:23:VAL:HB	1.43	0.98
1:EA:1136:U:N3	1:IA:1136:U:H1'	1.78	0.98
9:EI:111:ARG:NE	14:EN:61:TRP:OXT	1.94	0.98
1:EA:188:C:N4	20:ET:105:SER:CB	2.26	0.98
22:FB:1004:A:O3'	22:FB:1005:U:P	2.20	0.98
22:FB:1493:A:C2	22:FB:1573:G:N2	2.29	0.98
22:FB:2773:G:N3	22:FB:2780:A:C1'	2.25	0.98
22:FB:979:A:O3'	46:FZ:14:GLY:N	1.96	0.98
22:FB:2714:A:H1'	25:FE:205:SER:HB3	1.44	0.98
22:FB:969:U:C5	34:FN:21:ASP:OD2	2.16	0.98
22:FB:940:G:O2'	46:FZ:35:SER:N	1.95	0.98
1:GA:376:G:O2'	16:GP:28:ARG:NH1	1.94	0.98
9:GI:78:LYS:HA	9:GI:81:ILE:HD12	1.42	0.98
1:GA:1199:U:H4'	10:GJ:54:PHE:CD2	1.98	0.98
1:GA:1226:C:C4	13:GM:104:ARG:HG3	1.98	0.98
1:GA:281:G:OP1	17:GQ:38:ARG:CG	2.10	0.98
23:HA:69:G:H4'	43:HW:160:LEU:HD13	1.44	0.98
25:HE:151:TYR:N	31:HK:106:TYR:OH	1.96	0.98
22:HB:1260:A:C4'	38:HR:2:PRO:CD	2.26	0.98
1:IA:1114:C:O3'	10:IJ:46:ARG:NH2	1.95	0.98
1:IA:1308:U:H2'	13:IM:99:ARG:HH12	1.28	0.98
1:IA:237:C:C4'	17:IQ:27:PHE:CZ	2.46	0.98
1:IA:664:G:H22	1:IA:741:G:H1	1.05	0.98
1:IA:453:A:P	16:IP:73:LEU:HD21	2.01	0.98
22:JB:2375:G:C6	51:J5:31:HIS:CE1	2.50	0.98
22:JB:224:G:C2	51:J5:8:LYS:HG3	1.98	0.98

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:JB:2701:A:C2	35:JO:6:ALA:HB3	1.98	0.98
43:JW:51:LEU:CG	43:JW:128:ARG:HD2	1.93	0.98
43:JW:48:THR:HG22	43:JW:130:ILE:HD11	1.02	0.98
1:AA:1228:C:O2	13:AM:120:LYS:N	1.95	0.98
1:AA:331:G:N7	20:AT:10:LEU:HD23	1.76	0.98
9:AI:78:LYS:HA	9:AI:81:ILE:HD12	1.42	0.98
1:AA:970:C:H5''	10:AJ:57:LYS:HD2	1.45	0.98
22:BB:1041:G:C4	52:B6:5:SER:CB	2.46	0.98
22:BB:2653:A:H1'	32:BL:41:ASN:ND2	1.76	0.98
22:BB:742:G:C3'	24:BD:18:THR:HG21	1.93	0.98
22:BB:687:G:C8	26:BF:68:ARG:NH1	2.28	0.98
22:BB:2725:C:H4'	28:BH:143:GLN:H	1.20	0.98
1:CA:620:C:C5'	4:CD:138:TYR:CZ	2.46	0.98
1:CA:8:A:C8	5:CE:102:ALA:O	2.15	0.98
13:CM:9:ILE:CG1	27:DG:144:ASP:OD1	2.11	0.98
22:DB:225:G:O3'	47:D1:28:ARG:HG2	1.61	0.98
22:DB:588:G:H1'	48:D2:10:LYS:NZ	1.79	0.98
22:DB:124:A:N7	50:D4:18:PHE:CZ	2.30	0.98
22:DB:2003:A:C5	48:D2:9:LYS:HE2	1.98	0.98
22:DB:1072:U:O2	30:DJ:10:LEU:CA	2.11	0.98
34:DN:27:TYR:CD2	43:DW:73:LYS:CA	2.45	0.98
1:EA:742:G:H5'	15:EO:58:MET:SD	2.03	0.98
1:EA:772:U:O2	24:FD:5:LYS:HE2	1.61	0.98
1:EA:1188:A:C5'	9:EI:114:TYR:CD2	2.45	0.98
1:EA:1328:C:O5'	13:EM:28:ALA:CB	2.12	0.98
1:EA:760:G:C6	17:EQ:105:ALA:N	2.11	0.98
22:FB:2209:G:O3'	47:F1:39:VAL:HG22	1.63	0.98
23:FA:92:G:N2	34:FN:22:ALA:CA	2.26	0.98
22:FB:1288:A:N1	35:FO:19:ALA:HB3	1.76	0.98
22:FB:2394:G:C4'	33:FM:64:GLY:CA	2.03	0.98
22:HB:2064:U:P	47:H1:33:VAL:CG2	2.51	0.98
22:HB:2733:A:N3	52:H6:15:LYS:NZ	2.10	0.98
1:IA:1148:U:OP1	9:II:14:VAL:HG21	1.59	0.98
4:ID:201:GLN:HE22	5:IE:99:GLY:CA	1.76	0.98
1:IA:642:A:C8	8:IH:117:GLY:N	2.30	0.98
12:IL:11:VAL:HB	17:IQ:36:ILE:HG23	1.12	0.98
1:IA:835:U:OP1	18:IR:64:ARG:NH1	1.93	0.98
22:JB:2542:U:H5''	32:JL:40:GLY:CA	1.92	0.98
22:JB:2850:U:O4'	37:JQ:13:LEU:HD12	1.59	0.98
22:JB:2850:U:O4'	37:JQ:13:LEU:HG	1.64	0.98
41:JU:26:SER:HA	41:JU:79:ILE:HA	1.45	0.98

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:JU:9:ALA:CA	45:JY:26:MET:SD	2.50	0.98
1:AA:660:G:OP2	15:AO:4:THR:HG21	1.60	0.98
22:BB:1583:A:C2'	24:BD:84:TYR:HE1	1.76	0.98
22:BB:2032:G:N3	25:BE:156:MET:HE3	1.76	0.98
22:BB:2601:C:H5''	25:BE:159:HIS:HD2	1.26	0.98
22:BB:596:C:H2'	33:BM:29:THR:OG1	1.64	0.98
1:CA:1291:G:OP1	7:CG:41:ARG:NH1	1.95	0.98
1:CA:227:G:H21	16:CP:62:VAL:HG12	1.28	0.98
22:DB:413:G:O6	47:D1:63:PHE:CD2	2.16	0.98
22:DB:1164:C:P	38:DR:80:ILE:HG13	2.02	0.98
22:DB:545:C:O2'	38:DR:53:LYS:CE	2.12	0.98
1:EA:377:G:C5'	16:EP:5:ARG:HH11	1.70	0.98
4:ED:201:GLN:NE2	5:EE:99:GLY:HA2	1.77	0.98
1:EA:128:G:O2'	17:EQ:61:GLU:HG2	1.61	0.98
22:FB:1007:A:H4'	38:FR:93:LYS:N	1.79	0.98
22:FB:10:A:H62	22:FB:2607:C:C5'	1.75	0.98
22:FB:1826:U:HO2'	22:FB:1952:A:H2'	1.27	0.98
22:FB:2647:G:H4'	28:FH:111:HIS:ND1	1.77	0.98
22:FB:2284:U:OP1	27:FG:131:GLY:O	1.81	0.98
22:FB:922:A:N6	34:FN:17:ARG:H	1.60	0.98
23:FA:9:G:C4'	36:FP:32:TYR:HH	1.67	0.98
1:GA:1392:G:H5'	1:GA:1531:A:C5'	1.93	0.98
1:GA:826:C:H4'	8:GH:12:ARG:HD2	1.42	0.98
22:HB:3177:C:C5'	53:H7:163:PRO:HG2	1.92	0.98
22:HB:1470:G:H1'	35:HO:60:LEU:HD11	1.40	0.98
22:HB:603:C:N4	22:HB:677:G:O6	1.96	0.98
4:ID:201:GLN:NE2	5:IE:99:GLY:CA	2.26	0.98
22:JB:2374:C:H1'	47:J1:28:ARG:NH1	1.36	0.98
22:JB:677:G:C2'	22:JB:678:G:C8	2.46	0.98
22:JB:56:C:H5''	41:JU:74:ASP:OD2	1.62	0.98
1:AA:43:C:OP1	16:AP:12:LYS:HD2	1.62	0.98
1:AA:1092:A:C4'	7:AG:4:ARG:HD3	1.81	0.98
1:AA:583:A:H1'	17:AQ:91:ARG:NH1	1.78	0.98
22:BB:1142:G:H4'	31:BK:111:LYS:HB2	1.37	0.98
22:BB:1416:A:C4'	22:BB:1485:U:O4'	2.11	0.98
22:BB:3866:A:H8	53:B7:43:LYS:CD	1.75	0.98
22:BB:1804:U:H1'	24:BD:46:ARG:HE	1.21	0.98
1:CA:1256:A:N6	3:CC:26:LYS:HZ3	1.56	0.98
1:CA:407:G:O3'	4:CD:113:SER:OG	1.82	0.98
22:DB:1017:C:H1'	31:DK:56:THR:HG21	1.41	0.98
22:DB:1683:G:H4'	32:DL:6:SER:HA	1.46	0.98

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:DB:2494:C:O3'	31:DK:108:GLY:O	1.80	0.98
22:DB:886:A:C5'	34:DN:66:TYR:CE2	2.32	0.98
22:DB:2659:C:H1'	25:DE:187:ALA:HA	1.43	0.98
1:EA:668:G:H1'	15:EO:46:HIS:CG	1.97	0.98
4:ED:204:ILE:HG21	5:EE:98:THR:O	1.62	0.98
22:FB:2284:U:O2	27:FG:152:MET:CE	2.11	0.98
22:FB:60:A:C5'	45:FY:31:GLN:NE2	2.27	0.98
23:FA:116:C:C4'	36:FP:50:THR:HG21	1.87	0.98
22:FB:491:A:H4'	42:FV:55:THR:HG23	1.37	0.98
1:GA:108:G:C2'	20:GT:12:ALA:O	2.09	0.98
1:GA:281:G:OP1	17:GQ:38:ARG:HG3	1.63	0.98
22:HB:759:C:H2'	48:H2:2:ALA:HB2	1.45	0.98
22:HB:1470:G:C1'	35:HO:60:LEU:CD1	2.21	0.98
22:HB:2612:G:H5'	22:HB:2786:G:O2'	1.63	0.98
22:HB:592:G:O2'	38:HR:5:LYS:HE3	1.61	0.98
38:HR:17:VAL:HG23	39:HS:75:LYS:HZ1	1.22	0.98
1:IA:1320:C:C4'	19:IS:73:GLU:CB	2.40	0.98
22:JB:3125:G:P	53:J7:61:ALA:O	2.21	0.98
22:JB:2399:C:N3	51:J5:32:GLN:NE2	2.09	0.98
3:AC:23:TYR:HB3	10:AJ:94:VAL:HA	1.39	0.98
22:BB:1377:G:C6	47:B1:3:LYS:HG3	1.98	0.98
22:BB:15:G:OP1	48:B2:20:ARG:CZ	2.10	0.98
22:BB:1829:C:O2'	22:BB:1910:A:C1'	2.10	0.98
22:BB:1887:G:N2	22:BB:1912:G:H4'	1.77	0.98
1:CA:1349:A:OP1	9:CI:118:LYS:O	1.82	0.98
1:CA:742:G:H5'	15:CO:58:MET:HE1	1.41	0.98
22:DB:1861:G:C6	53:D7:199:ASN:CG	2.34	0.98
22:DB:1889:G:OP1	22:DB:1913:G:N7	1.96	0.98
22:DB:503:G:O4'	40:DT:28:ALA:O	1.80	0.98
22:DB:1782:A:O2'	24:DD:205:VAL:HG22	1.58	0.98
23:DA:93:G:H5''	34:DN:22:ALA:HB1	1.44	0.98
22:DB:2229:G:H2'	34:DN:84:MET:HB3	0.98	0.98
1:EA:968:A:P	9:EI:125:TYR:HB3	2.02	0.98
1:EA:488:C:H4'	4:ED:131:ARG:HD3	0.99	0.98
22:FB:2372:A:O4'	33:FM:59:ARG:HB3	1.61	0.98
22:FB:29:U:H4'	38:FR:8:ILE:CG1	1.92	0.98
38:FR:47:TYR:HB2	39:FS:74:TYR:CB	1.75	0.98
1:GA:958:A:N6	19:GS:77:THR:HG23	1.77	0.98
1:GA:824:C:C1'	8:GH:2:LEU:HD23	1.93	0.98
12:GL:19:ARG:O	12:GL:21:LYS:HG3	0.81	0.98
1:GA:192:U:O3'	20:GT:57:ARG:HG2	1.63	0.98

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:HB:1998:A:C1'	48:H2:6:VAL:CG1	2.41	0.98
22:HB:1998:A:C5	48:H2:7:PRO:CD	2.35	0.98
22:HB:489:A:H4'	42:HV:5:SER:CB	1.93	0.98
22:HB:568:G:O3'	22:HB:569:C:P	2.21	0.98
25:HE:91:VAL:HG22	25:HE:93:VAL:H	1.29	0.98
22:HB:1081:A:N1	30:HJ:10:LEU:HD13	1.77	0.98
32:HL:119:ARG:NH2	37:HQ:44:ARG:N	2.11	0.98
32:HL:87:SER:OG	37:HQ:83:PHE:N	1.97	0.98
22:HB:1284:G:H1	40:HT:107:ILE:C	1.67	0.98
41:HU:26:SER:HA	41:HU:79:ILE:HA	1.45	0.98
10:IJ:64:GLU:HG2	14:IN:59:ALA:CA	1.93	0.98
22:JB:2505:G:H1'	52:J6:2:LYS:HE2	0.99	0.98
22:JB:53:G:O2'	50:J4:35:ARG:CD	2.10	0.98
22:JB:2850:U:O4'	37:JQ:13:LEU:CG	2.11	0.98
1:AA:1239:A:C2'	7:AG:115:ARG:CD	2.40	0.98
1:AA:759:A:C6	17:AQ:98:LEU:HD12	1.98	0.98
22:BB:533:C:H4'	22:BB:550:C:C1'	1.93	0.98
22:BB:596:C:C2'	33:BM:29:THR:CG2	2.42	0.98
22:BB:2661:G:C1'	25:BE:11:MET:SD	2.50	0.98
23:BA:93:G:C5'	34:BN:23:LYS:HZ3	1.61	0.98
22:BB:2815:C:P	35:BO:50:GLN:HG2	2.03	0.98
1:CA:1102:A:H2	2:CB:108:ILE:HD11	1.22	0.98
1:CA:1265:G:H5''	1:GA:1273:G:C4'	1.91	0.98
1:CA:780:A:O3'	1:CA:1523:G:H5'	0.81	0.98
1:CA:529:G:N2	12:CL:49:ASN:HA	1.78	0.98
25:DE:91:VAL:HG22	25:DE:93:VAL:H	1.29	0.98
22:DB:1041:G:H5''	34:DN:119:PHE:CE2	1.97	0.98
22:DB:1040:A:C4'	34:DN:125:LYS:HZ1	1.67	0.98
32:DL:86:GLY:HA3	37:DQ:84:ALA:HB2	0.99	0.98
1:EA:686:U:H1'	11:EK:42:TRP:HZ2	0.82	0.98
10:EJ:63:PHE:HA	14:EN:59:ALA:N	1.78	0.98
29:FI:1:MET:HE2	47:F1:66:SER:HB3	1.43	0.98
22:FB:115:G:O3'	22:FB:116:A:P	2.22	0.98
22:FB:1827:G:N2	22:FB:1913:G:C2	2.30	0.98
22:FB:1948:C:H41	22:FB:2571:G:H1'	1.28	0.98
38:FR:94:VAL:HG11	39:FS:11:GLN:HA	1.45	0.98
22:FB:94:C:H4'	45:FY:36:GLN:CG	1.93	0.98
1:GA:1240:U:OP2	7:GG:115:ARG:HG2	1.62	0.98
1:GA:254:G:O4'	17:GQ:17:LYS:O	1.82	0.98
22:HB:1485:U:C5	22:HB:1537:U:O4	2.16	0.98
22:HB:2671:C:H1'	22:HB:2822:U:H1'	1.01	0.98

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:HB:631:G:O3'	33:HM:101:ARG:NH2	1.97	0.98
22:HB:2448:A:O4'	34:HN:57:ARG:HD3	0.80	0.98
1:IA:589:C:H5'	8:IH:31:PHE:CB	1.93	0.98
1:IA:587:G:H5'	8:IH:89:PRO:CB	1.94	0.98
1:IA:1115:C:C6	14:IN:61:TRP:CB	2.45	0.98
22:JB:468:A:O3'	50:J4:41:GLN:OE1	1.81	0.98
22:JB:1584:G:O5'	24:JD:62:TYR:OH	1.82	0.98
22:JB:2810:A:H8	37:JQ:6:LYS:HG2	1.23	0.98
22:JB:1807:A:C4'	24:JD:63:ARG:HH11	1.73	0.98
22:JB:1238:A:C5'	39:JS:73:LYS:HG2	1.93	0.98
1:AA:559:A:C6	5:AE:126:ARG:NH1	2.32	0.98
1:AA:624:C:H4'	16:AP:10:GLY:C	1.83	0.98
1:AA:666:G:H1'	15:AO:51:HIS:ND1	1.41	0.98
1:AA:426:G:C4'	4:AD:42:GLN:N	2.24	0.98
1:AA:759:A:H62	17:AQ:98:LEU:HD13	1.22	0.98
22:BB:123:A:OP1	50:B4:14:LYS:HE2	1.64	0.98
22:BB:1045:G:H4'	52:B6:18:ARG:HE	1.20	0.98
22:BB:1141:U:H3'	31:BK:107:GLN:NE2	1.79	0.98
22:BB:613:A:H61	33:BM:97:ARG:HD2	1.20	0.98
22:BB:2463:G:N3	34:BN:120:ARG:NH2	2.11	0.98
22:BB:966:A:O2'	34:BN:86:LYS:O	1.80	0.98
23:BA:106:U:C3'	43:BW:88:TYR:HB3	1.92	0.98
1:CA:1344:C:C4'	9:CI:120:ARG:CG	2.36	0.98
1:CA:136:C:C1'	16:CP:63:GLY:HA3	1.92	0.98
22:DB:2025:A:N6	31:DK:142:ARG:NH2	2.09	0.98
22:DB:2494:C:H5''	31:DK:108:GLY:CA	1.89	0.98
22:DB:2647:G:N9	28:DH:111:HIS:ND1	1.93	0.98
22:DB:1795:C:H5''	24:DD:250:TRP:HZ2	0.99	0.98
22:DB:2464:G:H1'	34:DN:120:ARG:NH1	1.77	0.98
22:DB:2255:G:H5'	34:DN:86:LYS:HD2	1.45	0.98
25:DE:19:ARG:HD2	37:DQ:65:SER:N	1.74	0.98
43:DW:84:TYR:HH	43:DW:91:PRO:HG2	1.25	0.98
1:EA:1320:C:C5	19:ES:36:ARG:O	2.16	0.98
22:FB:1275:A:OP2	40:FT:120:ARG:NH1	1.96	0.98
22:FB:1363:C:H2'	22:FB:1588:A:H1'	0.99	0.98
7:GG:149:ARG:O	11:GK:59:TYR:HE2	1.36	0.98
1:GA:1373:G:H5'	7:GG:36:LYS:N	1.74	0.98
1:GA:835:U:H5''	18:GR:64:ARG:CZ	1.93	0.98
22:HB:2789:U:N1	48:H2:30:LEU:CD1	2.19	0.98
22:HB:3175:C:O2'	53:H7:206:LYS:HE2	1.64	0.98
22:HB:1584:G:H5'	24:HD:59:LYS:HE3	1.43	0.98

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:HV:25:LEU:HB2	42:HV:81:VAL:HG23	1.46	0.98
1:IA:1190:G:OP2	3:IC:4:LYS:N	1.96	0.98
1:IA:814:A:C5'	1:IA:1511:G:C5'	2.42	0.98
1:IA:376:G:O4'	16:IP:28:ARG:NH1	1.95	0.98
23:JA:14:C:C6	44:JX:53:MET:CB	2.47	0.98
22:JB:2186:G:O4'	24:JD:151:LYS:N	1.83	0.98
22:JB:230:C:N4	51:J5:4:MET:HE2	1.75	0.98
22:JB:2638:G:C8	28:JH:180:GLY:N	2.32	0.98
22:JB:79:G:O2'	22:JB:305:A:N1	1.97	0.98
22:JB:349:G:P	42:JV:13:LYS:HE3	2.03	0.98
22:JB:1807:A:H5''	24:JD:63:ARG:NH1	1.78	0.98
1:IA:1463:C:P	37:JQ:116:ARG:CZ	2.44	0.98
42:JV:25:LEU:HB2	42:JV:81:VAL:HG23	1.46	0.98
1:AA:16:A:H4'	5:AE:16:THR:N	1.76	0.98
1:AA:190:A:H5'	1:GA:187:G:N2	1.79	0.98
22:BB:2599:U:C2'	25:BE:157:ALA:O	2.12	0.98
22:BB:1508:G:P	24:BD:100:GLY:CA	2.52	0.98
22:BB:2464:G:H5'	34:BN:47:GLN:HE21	0.83	0.98
1:CA:1344:C:H4'	9:CI:120:ARG:HG2	1.00	0.98
1:CA:335:C:H1'	1:CA:1434:A:N3	1.77	0.98
1:CA:407:G:C1'	4:CD:116:GLN:CG	2.41	0.98
5:CE:78:HIS:HB3	8:CH:107:LEU:HD13	1.45	0.98
22:DB:2328:G:C3'	51:D5:42:ARG:HD2	1.93	0.98
22:DB:1135:C:H4'	52:D6:4:ARG:HD2	1.46	0.98
22:DB:1018:C:O4'	31:DK:134:MET:HG3	1.61	0.98
22:DB:1140:A:C2	22:DB:2549:G:H4'	1.98	0.98
1:EA:928:G:C4'	1:EA:1533:C:H41	1.76	0.98
1:EA:437:U:C5'	4:ED:155:LEU:HD13	1.72	0.98
22:FB:2263:C:OP2	49:F3:9:ILE:HA	1.62	0.98
22:FB:2500:C:O2'	22:FB:2543:A:N3	1.95	0.98
22:FB:2661:G:O2'	25:FE:11:MET:HE3	1.63	0.98
22:FB:979:A:O3'	46:FZ:13:PRO:HA	1.60	0.98
1:GA:35:G:H1'	12:GL:117:ARG:O	1.61	0.98
1:GA:125:U:H1'	1:GA:633:G:H22	1.26	0.98
22:HB:3167:U:C4	53:H7:98:ARG:CD	2.46	0.98
22:HB:1043:A:H4'	52:H6:23:VAL:CG2	1.91	0.98
22:HB:891:A:N3	22:HB:893:G:C5	2.31	0.98
22:HB:2001:G:C2	38:HR:33:ARG:NH1	2.07	0.98
1:EA:1265:G:C2'	1:IA:1272:G:O2'	2.12	0.98
1:IA:1190:G:OP1	3:IC:4:LYS:HA	1.64	0.98
1:IA:1373:G:C5'	7:IG:36:LYS:H	1.77	0.98

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:IA:128:G:C4'	17:IQ:61:GLU:HG2	1.93	0.98
22:JB:1336:G:H5''	40:JT:105:ARG:HD3	1.46	0.98
1:AA:1221:G:H4'	19:AS:77:THR:OG1	1.63	0.98
1:AA:1382:C:C5'	7:AG:79:ARG:HD2	1.93	0.98
1:AA:429:U:H3'	4:AD:8:VAL:HB	1.02	0.98
1:AA:692:U:O4	11:AK:52:GLY:CA	2.12	0.98
22:BB:2218:G:C4'	24:BD:230:ASP:HB3	1.92	0.98
22:BB:3867:G:H4'	53:B7:42:LYS:CB	1.90	0.98
22:BB:887:G:O3'	43:BW:148:THR:HG21	1.60	0.98
22:BB:2218:G:C5'	24:BD:230:ASP:CA	1.95	0.98
22:BB:1236:G:H1	39:BS:73:LYS:CG	1.76	0.98
9:CI:78:LYS:HA	9:CI:81:ILE:HD12	1.42	0.98
22:DB:1437:A:O3'	22:DB:1438:G:OP2	1.81	0.98
22:DB:1887:G:C6	22:DB:1888:C:C2	2.52	0.98
22:DB:864:C:HO2'	46:DZ:40:VAL:HA	1.21	0.98
32:DL:87:SER:HB2	37:DQ:83:PHE:CB	1.93	0.98
22:DB:596:C:C6	33:DM:30:ALA:HB3	1.98	0.98
22:DB:818:G:O2'	33:DM:41:SER:OG	1.82	0.98
32:DL:87:SER:OG	37:DQ:83:PHE:N	1.97	0.98
1:EA:779:C:H1'	11:EK:120:ARG:HD3	1.46	0.98
23:FA:92:G:N2	34:FN:22:ALA:O	1.96	0.98
22:FB:1399:C:O2	22:FB:1414:G:N2	1.93	0.98
22:FB:1835:C:H5'	24:FD:255:LYS:NZ	1.79	0.98
22:FB:2615:U:O5'	25:FE:79:ARG:CB	1.99	0.98
1:GA:108:G:N1	20:GT:15:ARG:HD2	1.79	0.98
1:GA:254:G:N9	17:GQ:16:GLN:O	1.96	0.98
10:GJ:47:PHE:CE1	14:GN:56:VAL:CG1	2.42	0.98
22:HB:48:A:H61	22:HB:153:A:H61	1.00	0.98
22:HB:5:A:N3	22:HB:2873:G:N1	2.12	0.98
22:HB:59:G:C4	45:HY:44:ARG:NH2	2.05	0.98
22:HB:2365:U:C1'	44:HX:37:LEU:CD2	2.22	0.98
1:IA:919:A:H2'	1:IA:920:U:H6	1.21	0.98
9:II:78:LYS:HA	9:II:81:ILE:HD12	1.42	0.98
22:JB:2261:G:H3'	49:J3:3:LYS:HZ2	1.25	0.98
22:JB:2399:C:C5'	51:J5:33:ASN:N	2.27	0.98
22:JB:1202:U:C5'	39:JS:81:ARG:HB2	1.94	0.98
22:JB:1202:U:H5'	39:JS:81:ARG:HB2	1.00	0.98
22:JB:1175:A:H5'	39:JS:89:ASN:OD1	1.63	0.98
23:JA:14:C:H3'	44:JX:53:MET:HG2	1.45	0.98
1:AA:942:G:N2	9:AI:124:GLN:HB3	1.76	0.97
22:BB:529:U:H5''	40:BT:39:ARG:NH2	1.77	0.97

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:BB:1143:A:C8	31:BK:111:LYS:HE2	1.98	0.97
1:CA:1077:G:H1	5:CE:45:PHE:HE2	1.10	0.97
1:CA:1311:G:N7	19:CS:2:PRO:HA	1.78	0.97
1:CA:273:A:C2	17:CQ:16:GLN:N	2.32	0.97
13:CM:99:ARG:NH2	19:CS:2:PRO:N	1.63	0.97
22:DB:2579:A:N7	24:DD:237:GLU:OE2	1.97	0.97
1:EA:538:G:H5''	12:EL:114:LYS:H	1.19	0.97
22:FB:236:C:H1'	22:FB:632:A:O2'	1.64	0.97
22:FB:2551:A:N7	25:FE:144:ARG:HB3	1.77	0.97
22:FB:469:G:H8	50:F4:40:HIS:CG	1.80	0.97
23:FA:116:C:H1'	36:FP:50:THR:HG22	1.42	0.97
22:FB:346:C:C1'	42:FV:79:SER:HA	1.93	0.97
1:GA:1202:G:N7	10:GJ:54:PHE:HZ	1.54	0.97
1:GA:562:C:OP2	12:GL:17:LYS:NZ	1.95	0.97
1:GA:1292:U:P	7:GG:41:ARG:NH2	2.37	0.97
7:GG:150:ALA:O	11:GK:59:TYR:CE1	2.17	0.97
22:HB:3167:U:O4	53:H7:98:ARG:CZ	2.11	0.97
1:IA:814:A:O4'	1:IA:1511:G:C4'	2.11	0.97
22:JB:3119:A:H61	53:J7:101:LYS:HZ2	1.06	0.97
22:JB:1265:G:H1'	38:JR:32:TYR:HE1	1.22	0.97
22:JB:2399:C:H3'	51:J5:33:ASN:H	1.21	0.97
22:JB:2525:U:H1'	22:JB:2544:A:C2	1.99	0.97
22:JB:3175:C:C2'	53:J7:33:ILE:HD11	1.93	0.97
22:JB:528:G:H4'	40:JT:97:VAL:HG23	1.45	0.97
22:BB:2559:U:H3'	22:BB:2560:G:H21	1.28	0.97
22:BB:331:U:O4	26:BF:134:ILE:CD1	2.12	0.97
22:BB:1836:C:H5'	24:BD:255:LYS:HA	1.45	0.97
22:BB:1504:G:C6	24:BD:99:ASP:O	2.17	0.97
22:BB:1078:A:N3	30:BJ:23:VAL:HG13	1.77	0.97
22:BB:2795:A:O4'	35:BO:5:LYS:HD3	1.63	0.97
22:BB:1338:G:C2	40:BT:107:ILE:HG23	1.99	0.97
1:CA:1348:U:OP1	9:CI:110:GLU:N	1.96	0.97
22:DB:2448:A:H1'	34:DN:57:ARG:HD3	0.98	0.97
22:DB:574:C:H5'	39:DS:82:ARG:HH22	0.83	0.97
22:DB:659:G:H21	51:D5:46:LYS:HE2	1.29	0.97
22:DB:506:G:OP1	40:DT:22:LYS:C	2.02	0.97
3:EC:23:TYR:CB	10:EJ:92:THR:HG22	1.94	0.97
22:FB:2262:C:HO2'	49:F3:8:ILE:HD13	1.27	0.97
22:FB:2540:A:C1'	32:FL:23:ARG:HG3	1.94	0.97
22:FB:2559:U:H3'	22:FB:2560:G:H21	1.28	0.97
22:FB:2663:U:O4	22:FB:2705:A:N6	1.96	0.97

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:FB:64:C:H3'	41:FU:70:GLY:H	1.27	0.97
22:FB:331:U:H5	26:FF:131:LYS:HG3	1.29	0.97
1:GA:911:U:O4	12:GL:23:LYS:HE2	1.63	0.97
22:HB:2861:A:C6	48:H2:31:THR:HG21	1.98	0.97
22:HB:4:C:O2	22:HB:2874:A:C6	2.17	0.97
22:HB:888:G:H1'	43:HW:165:GLU:OE1	1.64	0.97
1:IA:1228:C:H42	13:IM:104:ARG:HD3	1.28	0.97
22:JB:3124:G:C3'	53:J7:61:ALA:O	2.12	0.97
22:JB:2259:G:N2	22:JB:2367:A:N3	2.10	0.97
1:AA:108:G:C2'	20:AT:12:ALA:HB2	1.82	0.97
22:BB:176:A:N1	47:B1:32:HIS:HE1	1.60	0.97
22:BB:1809:G:C5'	24:BD:157:ARG:NH1	2.15	0.97
22:BB:1805:G:O3'	24:BD:44:ASN:HA	1.64	0.97
22:BB:2766:U:H4'	25:BE:64:GLN:HB2	1.44	0.97
1:CA:720:C:H5''	18:CR:52:PRO:CB	1.94	0.97
1:CA:186:C:C4'	20:CT:78:ALA:HB1	1.94	0.97
22:DB:699:G:C4	50:D4:5:TYR:CA	2.47	0.97
22:DB:512:A:O3'	40:DT:15:LYS:NZ	1.96	0.97
22:DB:548:G:H4'	31:DK:32:TYR:HD2	1.15	0.97
22:DB:625:A:H4'	26:DF:38:ARG:CD	1.93	0.97
22:DB:2738:A:C2'	28:DH:64:LEU:CD1	2.41	0.97
1:EA:926:G:N7	1:EA:1502:A:H2	1.25	0.97
1:EA:489:C:OP1	4:ED:132:ARG:CD	2.09	0.97
22:FB:2399:C:C3'	51:F5:32:GLN:CG	2.36	0.97
22:FB:1162:A:O2'	38:FR:78:THR:HA	1.62	0.97
22:FB:1290:A:C1'	35:FO:24:GLN:HG2	1.93	0.97
22:FB:487:G:H21	22:FB:491:A:H62	1.11	0.97
22:FB:592:G:H21	26:FF:78:VAL:HB	1.23	0.97
25:FE:91:VAL:HG22	25:FE:93:VAL:H	1.29	0.97
22:FB:507:A:P	40:FT:20:LEU:HD23	2.04	0.97
1:GA:735:C:O4'	18:GR:75:ILE:CD1	2.12	0.97
22:HB:236:C:O2	22:HB:632:A:H1'	1.64	0.97
22:HB:2523:G:H5'	22:HB:2624:G:N7	1.79	0.97
22:HB:2658:A:H5''	25:HE:109:LYS:HG3	1.43	0.97
22:HB:673:G:C5'	26:HF:93:TYR:HD1	1.67	0.97
22:HB:497:C:N3	40:HT:78:ASN:ND2	2.10	0.97
22:HB:1325:U:C5	41:HU:61:LYS:HB2	1.98	0.97
1:IA:684:A:H4'	11:IK:38:ASN:HB3	1.46	0.97
22:JB:3171:A:C8	53:J7:101:LYS:CB	2.48	0.97
22:JB:1217:U:C2	33:JM:14:LYS:HE2	1.99	0.97
22:JB:1813:A:OP2	24:JD:202:LYS:CG	2.11	0.97

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:JB:2263:C:OP1	49:J3:9:ILE:N	1.95	0.97
22:JB:2559:U:P	25:JE:132:LYS:HZ1	1.82	0.97
1:AA:191:G:P	1:GA:191:G:N7	2.38	0.97
1:AA:718:G:C2'	11:AK:116:HIS:ND1	2.21	0.97
1:AA:943:U:O2	9:AI:124:GLN:NE2	1.88	0.97
1:AA:742:G:H5''	15:AO:58:MET:HE3	1.43	0.97
1:AA:760:G:C2'	17:AQ:102:GLY:CA	2.43	0.97
22:BB:2265:A:N1	49:B3:38:LYS:NZ	2.11	0.97
22:BB:1197:U:O3'	22:BB:1198:C:P	2.22	0.97
22:BB:1805:G:H5''	24:BD:43:ARG:HA	1.25	0.97
22:BB:2766:U:H5'	25:BE:64:GLN:C	1.85	0.97
25:BE:91:VAL:HG22	25:BE:93:VAL:H	1.29	0.97
33:BM:58:ALA:HB1	51:B5:9:MET:HG3	1.42	0.97
1:CA:436:C:H5'	4:CD:156:GLU:CA	1.94	0.97
22:DB:1483:G:O6	22:DB:1539:U:O4	1.82	0.97
22:DB:1829:C:C1'	22:DB:1911:A:C1'	2.35	0.97
22:DB:2559:U:H3'	22:DB:2560:G:H21	1.28	0.97
22:DB:507:A:OP1	40:DT:20:LEU:HA	1.63	0.97
22:DB:2598:C:H1'	25:DE:154:LYS:NZ	1.79	0.97
22:DB:547:U:H5'	31:DK:30:LYS:HD3	1.44	0.97
22:DB:967:G:H5'	34:DN:78:LYS:HE3	1.43	0.97
1:EA:1061:G:O3'	10:EJ:56:HIS:NE2	1.98	0.97
1:EA:654:G:N3	8:EH:1:MET:C	2.14	0.97
1:EA:1298:C:C4	7:EG:114:ARG:HG2	1.99	0.97
22:FB:1322:G:C5'	50:F4:8:ASN:H	1.77	0.97
34:FN:98:VAL:HG22	34:FN:99:LYS:HG2	1.44	0.97
22:FB:2669:C:H42	35:FO:18:VAL:CG1	1.77	0.97
43:FW:51:LEU:CD1	43:FW:128:ARG:HD2	1.95	0.97
1:GA:734:G:H4'	18:GR:71:LYS:HZ3	1.24	0.97
1:GA:400:C:C5'	4:GD:73:ARG:HH22	1.78	0.97
22:HB:2399:C:OP1	51:H5:33:ASN:HB2	1.08	0.97
22:HB:1582:A:C5	24:HD:211:ARG:HG3	2.00	0.97
22:HB:1809:G:OP1	24:HD:63:ARG:CD	2.12	0.97
22:HB:2857:C:P	35:HO:98:LEU:HD11	2.04	0.97
22:HB:699:G:H2'	50:H4:5:TYR:CA	1.93	0.97
22:HB:2373:C:P	33:HM:62:LYS:HA	2.04	0.97
22:HB:941:U:O2	46:HZ:21:GLN:O	1.83	0.97
22:JB:2182:A:H4'	47:J1:44:THR:HA	1.43	0.97
33:JM:67:ASN:CB	51:J5:11:LYS:HG3	1.93	0.97
22:JB:3167:U:N3	53:J7:101:LYS:CE	2.28	0.97
22:JB:1265:G:N1	38:JR:36:PHE:HB3	1.79	0.97

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:JT:60:ILE:HG22	48:J2:25:LEU:CD1	1.93	0.97
22:JB:309:G:OP2	42:JV:93:ARG:NE	1.97	0.97
1:AA:1061:G:C5'	10:AJ:58:ASP:HB2	1.93	0.97
1:AA:1108:G:H5''	3:AC:176:HIS:ND1	1.78	0.97
1:AA:1131:G:C4'	9:AI:2:GLU:HG3	1.95	0.97
3:AC:23:TYR:CD2	10:AJ:9:ARG:O	2.14	0.97
13:AM:88:ARG:HB2	13:AM:92:HIS:CE1	1.99	0.97
22:BB:123:A:OP1	50:B4:14:LYS:HB2	1.64	0.97
22:BB:1042:G:H8	52:B6:6:SER:HG	1.06	0.97
22:BB:704:G:C5'	24:BD:218:LYS:HZ1	1.72	0.97
22:BB:2614:A:C5'	25:BE:77:ILE:HD12	1.93	0.97
34:BN:99:LYS:CB	43:BW:74:ARG:HB2	1.94	0.97
22:DB:2542:U:OP1	32:DL:25:LEU:HD21	1.64	0.97
1:EA:1093:A:OP1	7:EG:4:ARG:NH2	1.97	0.97
13:EM:72:ALA:HB2	27:FG:113:ASP:HB3	1.45	0.97
22:FB:2323:U:OP1	49:F3:39:LYS:HD2	1.62	0.97
22:FB:1007:A:O2'	38:FR:92:ARG:HB2	1.64	0.97
22:FB:1509:A:N1	22:FB:2190:A:N3	2.12	0.97
22:FB:2623:A:O2'	22:FB:2624:G:N3	1.96	0.97
22:FB:2773:G:C4	22:FB:2780:A:C2	2.50	0.97
22:FB:505:G:C5'	40:FT:25:PHE:HB3	1.93	0.97
38:FR:47:TYR:CD1	39:FS:74:TYR:HB2	2.00	0.97
22:FB:2315:A:C8	44:FX:70:ILE:HD12	1.99	0.97
1:GA:836:G:P	18:GR:61:LYS:HE3	2.04	0.97
22:HB:1817:U:P	24:HD:224:SER:N	2.36	0.97
22:HB:1664:G:C8	40:HT:107:ILE:HD12	2.00	0.97
22:HB:761:G:H3'	40:HT:111:ARG:H	0.93	0.97
22:HB:497:C:H2'	40:HT:77:ALA:HB1	1.46	0.97
1:IA:922:G:N2	1:IA:1396:A:C6	2.33	0.97
1:IA:826:C:O2'	8:IH:15:ASN:CB	2.11	0.97
1:IA:1226:C:N3	13:IM:104:ARG:HB2	1.75	0.97
22:JB:3168:G:C6	53:J7:101:LYS:CG	2.48	0.97
22:JB:1004:A:H1'	39:JS:88:GLN:CD	1.84	0.97
22:JB:1745:C:H1'	37:JQ:109:GLU:HB3	1.42	0.97
22:JB:348:U:C5'	42:JV:13:LYS:HB2	1.88	0.97
22:JB:63:A:N3	41:JU:62:ARG:NH2	2.13	0.97
1:AA:521:G:OP2	12:AL:53:ARG:NH1	1.80	0.97
22:BB:3866:A:C2'	53:B7:43:LYS:CA	2.30	0.97
22:BB:413:G:O6	47:B1:63:PHE:CD1	2.18	0.97
22:BB:215:G:H4'	22:BB:618:A:H5'	1.46	0.97
25:BE:181:LEU:HD22	37:BQ:12:LEU:HG	0.99	0.97

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:411:A:H61	1:CA:428:G:H1	1.10	0.97
22:DB:2713:A:N6	25:DE:203:LYS:HZ2	1.50	0.97
22:DB:8:A:H5''	31:DK:79:PHE:CE1	1.96	0.97
34:DN:36:ILE:O	43:DW:74:ARG:CZ	2.12	0.97
1:EA:1272:G:N2	1:IA:1264:C:C1'	2.21	0.97
1:EA:489:C:OP1	4:ED:132:ARG:HG3	1.61	0.97
1:EA:243:A:C8	17:EQ:99:SER:HB2	2.00	0.97
22:FB:1288:A:N6	35:FO:19:ALA:CB	2.23	0.97
22:FB:2616:U:H5''	25:FE:81:PHE:CD1	1.98	0.97
22:FB:660:G:HO2'	51:F5:17:THR:HG23	1.28	0.97
22:FB:2658:A:C2'	25:FE:187:ALA:CB	2.42	0.97
22:FB:332:C:OP2	26:FF:129:LYS:C	2.01	0.97
22:FB:1019:U:C5'	31:FK:63:ARG:HD3	1.95	0.97
1:GA:37:U:H3'	12:GL:124:LYS:CD	1.93	0.97
1:GA:668:G:C5'	15:GO:48:LYS:NZ	2.26	0.97
1:GA:16:A:C1'	5:GE:17:ALA:N	1.79	0.97
1:GA:720:C:H1'	18:GR:50:ILE:HB	0.99	0.97
22:HB:2240:C:HO2'	22:HB:2306:A:N6	1.61	0.97
22:HB:2541:U:H4'	32:HL:23:ARG:NH1	1.78	0.97
22:HB:3166:G:C5	53:H7:98:ARG:NH2	2.32	0.97
22:HB:238:G:H4'	22:HB:620:G:H5'	1.43	0.97
22:HB:512:A:C8	40:HT:16:GLN:HB2	1.77	0.97
34:HN:65:ILE:HA	43:HW:115:ILE:HD11	0.98	0.97
22:JB:1829:C:C5'	22:JB:1911:A:C4'	2.33	0.97
22:JB:2186:G:C2'	24:JD:70:ARG:NH2	2.24	0.97
22:JB:313:U:O4'	42:JV:88:THR:OG1	1.78	0.97
22:JB:2742:G:O2'	28:JH:150:LYS:CG	2.12	0.97
22:JB:1470:G:C1'	35:JO:60:LEU:HD13	1.95	0.97
22:JB:489:A:C4'	42:JV:74:LEU:O	2.12	0.97
1:AA:621:A:H5''	4:AD:139:ARG:NE	1.79	0.97
23:BA:106:U:O2'	43:BW:88:TYR:CG	2.08	0.97
34:BN:99:LYS:HB3	43:BW:74:ARG:HB2	1.46	0.97
1:CA:279:A:O5'	17:CQ:95:TYR:CE2	2.16	0.97
6:CF:49:ALA:HB2	18:CR:79:LEU:CA	1.95	0.97
22:DB:2398:U:C6	51:D5:31:HIS:HA	1.99	0.97
22:DB:1173:G:H1'	39:DS:22:VAL:CG1	1.95	0.97
34:DN:61:ARG:H	43:DW:112:LEU:HD21	1.29	0.97
22:DB:868:U:O2	44:DX:25:LYS:HD3	1.63	0.97
1:EA:438:G:OP1	4:ED:125:HIS:CD2	2.18	0.97
1:EA:808:C:OP2	15:EO:48:LYS:HD3	1.63	0.97
22:FB:2277:A:OP1	27:FG:71:LYS:HD2	1.64	0.97

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:FB:716:U:O3'	22:FB:717:G:P	2.23	0.97
22:FB:76:C:H5''	45:FY:52:GLN:CG	1.95	0.97
22:FB:2753:C:H4'	25:FE:164:ARG:H	0.83	0.97
22:FB:1001:A:H5'	46:FZ:27:LYS:NZ	1.78	0.97
3:GC:23:TYR:CD2	10:GJ:94:VAL:CA	2.13	0.97
1:GA:195:A:P	20:GT:65:LYS:CG	2.52	0.97
1:IA:1148:U:OP1	9:II:14:VAL:CB	2.12	0.97
22:JB:3176:A:OP1	53:J7:206:LYS:HE2	1.62	0.97
1:AA:1441:G:H1	20:AT:27:LYS:HZ1	1.07	0.97
10:AJ:49:VAL:HG11	14:AN:45:ARG:CB	1.87	0.97
1:AA:275:G:O5'	17:AQ:14:LYS:HB3	1.65	0.97
1:AA:264:U:C2	17:AQ:64:PRO:HD2	2.00	0.97
22:BB:1377:G:C8	47:B1:3:LYS:HG3	2.00	0.97
22:BB:699:G:C2'	50:B4:6:GLN:HB2	1.94	0.97
22:BB:1044:U:C3'	52:B6:16:VAL:CG2	2.43	0.97
22:BB:1136:G:N9	52:B6:4:ARG:O	1.96	0.97
22:BB:115:G:N7	22:BB:117:A:N7	2.13	0.97
22:BB:1744:G:O6	37:BQ:125:MET:O	1.82	0.97
22:BB:2726:U:P	28:BH:141:VAL:HG23	2.03	0.97
22:BB:489:A:O3'	42:BV:5:SER:HB2	1.63	0.97
22:BB:533:C:C5'	22:BB:550:C:O2'	2.13	0.97
22:BB:2461:G:C6	34:BN:54:VAL:CG1	2.35	0.97
22:BB:763:A:P	40:BT:109:ARG:O	2.23	0.97
22:DB:1291:G:O3'	35:DO:33:ARG:O	1.81	0.97
22:DB:1164:C:H5'	38:DR:77:SER:HA	0.99	0.97
1:EA:1187:G:H21	14:EN:61:TRP:N	1.63	0.97
1:EA:598:U:C2'	8:EH:130:GLY:CA	2.41	0.97
1:EA:640:A:C2'	8:EH:116:LYS:CB	2.43	0.97
1:EA:633:G:H4'	17:EQ:28:PRO:HG2	1.42	0.97
22:FB:1139:A:N6	22:FB:2469:G:OP1	1.96	0.97
22:FB:1398:G:C6	22:FB:1415:C:N3	2.31	0.97
22:FB:2315:A:C6	44:FX:70:ILE:CG2	2.48	0.97
22:FB:603:C:O3'	22:FB:604:U:P	2.22	0.97
1:GA:929:G:H5'	1:GA:1533:C:N4	1.78	0.97
7:GG:17:VAL:HG21	9:GI:41:VAL:HG13	1.45	0.97
22:HB:2861:A:N7	48:H2:40:LYS:HE3	1.80	0.97
22:HB:1402:G:C6	22:HB:1412:C:N4	2.33	0.97
22:HB:489:A:H5''	42:HV:5:SER:CA	1.93	0.97
22:HB:2364:C:O2'	44:HX:69:PHE:CZ	2.14	0.97
1:IA:1380:U:C5	7:IG:3:ARG:CG	2.46	0.97
1:IA:1495:U:H1'	22:JB:1902:A:H61	1.27	0.97

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:IA:643:C:O2'	8:IH:132:GLU:OE1	1.83	0.97
22:JB:409:G:H4'	47:J1:39:VAL:CG1	1.94	0.97
23:JA:117:G:C3'	36:JP:52:ALA:HA	1.87	0.97
22:JB:1090:C:O2	30:JJ:132:ARG:HD2	1.63	0.97
22:JB:15:G:H2'	48:J2:18:MET:CG	1.94	0.97
22:JB:923:A:H1'	22:JB:2243:C:C1'	1.95	0.97
22:JB:542:A:H4'	38:JR:24:PHE:HB3	1.47	0.97
22:JB:857:U:H2'	22:JB:860:U:O4	1.63	0.97
22:JB:2490:U:H4'	25:JE:124:GLY:CA	1.93	0.97
22:JB:2338:C:HO2'	33:JM:57:ILE:HD13	1.29	0.97
23:JA:116:C:H4'	36:JP:50:THR:CB	1.95	0.97
22:JB:2823:G:C3'	37:JQ:103:LYS:O	2.12	0.97
1:AA:564:C:C2'	8:AH:91:ARG:HH21	1.77	0.97
1:AA:741:G:C2'	15:AO:51:HIS:O	2.11	0.97
22:BB:1237:G:H4'	39:BS:87:ARG:H	0.97	0.97
22:BB:1809:G:O3'	24:BD:157:ARG:NH1	1.98	0.97
42:BV:25:LEU:HB2	42:BV:81:VAL:HG23	1.46	0.97
1:CA:948:C:H3'	13:CM:106:ASN:OD1	1.59	0.97
1:CA:619:U:H1'	4:CD:133:VAL:HG22	1.42	0.97
5:CE:152:ARG:CZ	8:CH:122:ARG:NH1	2.27	0.97
1:CA:1343:G:H5'	9:CI:122:ALA:HB3	1.47	0.97
1:CA:529:G:N1	12:CL:49:ASN:N	2.11	0.97
13:CM:81:LEU:O	13:CM:92:HIS:CB	2.12	0.97
1:CA:760:G:O6	17:CQ:105:ALA:HA	1.61	0.97
23:DA:105:G:C3'	43:DW:91:PRO:CB	2.27	0.97
22:DB:2715:C:N3	22:DB:2749:A:H2	1.56	0.97
22:DB:3093:C:H5'	29:DI:22:ASP:H	1.16	0.97
22:DB:1033:G:C8	31:DK:94:LYS:HD3	2.00	0.97
1:EA:644:G:P	8:EH:92:ARG:HH21	1.81	0.97
1:EA:880:C:OP2	12:EL:7:ILE:HG21	1.62	0.97
22:FB:2293:G:O3'	27:FG:33:LYS:HE3	1.63	0.97
22:FB:1583:A:N6	24:FD:89:SER:HA	1.79	0.97
22:FB:1991:C:O2'	35:FO:105:GLY:O	1.83	0.97
23:FA:119:G:H5''	36:FP:55:SER:OG	1.65	0.97
22:FB:1235:C:OP1	39:FS:68:LYS:CB	2.13	0.97
1:GA:1226:C:H41	13:GM:104:ARG:CD	1.68	0.97
1:GA:186:C:C1'	20:GT:81:LYS:HE2	1.89	0.97
22:HB:2254:C:O2'	34:HN:86:LYS:HG3	1.64	0.97
22:JB:3166:G:H3'	53:J7:98:ARG:H	0.83	0.97
22:JB:2000:U:H4'	48:J2:8:LYS:HZ1	1.29	0.97
1:AA:1060:C:O3'	10:AJ:59:SER:HA	1.65	0.97

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:17:U:O5'	5:AE:16:THR:HB	1.64	0.97
1:AA:276:G:O2'	17:AQ:43:LEU:HD12	1.62	0.97
1:AA:1375:A:H5'	7:AG:28:ASN:HB3	1.46	0.97
22:BB:2789:U:O4	48:B2:43:HIS:CD2	2.16	0.97
22:BB:1834:G:H1'	24:BD:244:ARG:HG2	1.41	0.97
22:BB:497:C:O4'	40:BT:80:LEU:CD1	2.13	0.97
22:BB:544:U:C4'	38:BR:46:GLU:HG3	1.94	0.97
22:BB:57:G:H2'	22:BB:72:A:N6	1.80	0.97
22:BB:648:A:C2	33:BM:109:LEU:CG	2.48	0.97
22:BB:2461:G:O6	34:BN:54:VAL:CA	2.12	0.97
1:CA:760:G:C5	17:CQ:94:ASN:ND2	2.22	0.97
1:CA:1075:C:C5'	2:CB:103:THR:HG22	1.94	0.97
22:DB:2632:U:C2	28:DH:110:SER:OG	2.15	0.97
22:DB:596:C:O3'	33:DM:28:LYS:NZ	1.98	0.97
22:DB:845:U:C5'	33:DM:39:SER:OG	2.13	0.97
32:DL:86:GLY:N	37:DQ:84:ALA:HB2	1.78	0.97
22:DB:456:C:H4'	38:DR:2:PRO:C	1.85	0.97
1:EA:1187:G:OP2	9:EI:113:LYS:HE2	1.64	0.97
1:EA:958:A:N3	19:ES:55:LYS:CD	2.27	0.97
1:EA:1320:C:H42	19:ES:36:ARG:CG	1.77	0.97
22:FB:2062:U:H4'	47:F1:32:HIS:NE2	1.77	0.97
22:FB:1402:G:N2	22:FB:1412:C:C2	2.13	0.97
22:FB:3197:U:C1'	22:FB:2181:A:C8	2.46	0.97
22:FB:1670:G:N2	35:FO:11:ASN:OD1	1.97	0.97
42:FV:25:LEU:HB2	42:FV:81:VAL:HG23	1.46	0.97
1:GA:267:C:OP1	17:GQ:67:LYS:CD	2.12	0.97
22:HB:1347:C:OP1	41:HU:63:LYS:HD2	1.64	0.97
22:HB:1746:A:OP2	37:HQ:124:VAL:HG22	1.61	0.97
22:HB:1998:A:H62	48:H2:7:PRO:HG3	0.81	0.97
22:HB:2487:G:C5'	22:HB:2534:U:H5'	1.94	0.97
22:HB:2646:C:HO2'	28:HH:111:HIS:HB3	1.28	0.97
22:HB:2760:G:H5'	31:HK:146:THR:HB	1.46	0.97
22:HB:502:A:H2	40:HT:28:ALA:C	1.63	0.97
22:HB:603:C:N3	22:HB:677:G:C6	2.33	0.97
22:HB:891:A:N3	22:HB:893:G:N1	2.07	0.97
22:HB:2559:U:H5'	25:HE:132:LYS:HE3	1.47	0.97
22:HB:1470:G:O4'	35:HO:60:LEU:HD13	1.65	0.97
38:HR:17:VAL:CG2	39:HS:75:LYS:NZ	2.27	0.97
34:HN:63:GLY:N	43:HW:111:GLY:N	2.13	0.97
1:IA:1151:A:C5'	10:IJ:42:THR:N	2.26	0.97
1:IA:640:A:C2'	8:IH:127:LEU:HD13	1.94	0.97

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:IA:778:G:N3	11:IK:120:ARG:HB2	1.79	0.97
13:IM:86:CYS:CA	19:IS:74:PHE:CD2	2.46	0.97
15:IO:89:GLY:OXT	22:JB:729:A:OP2	1.83	0.97
22:JB:2324:G:H4'	49:J3:40:TYR:HE1	1.27	0.97
22:JB:2491:C:O2	25:JE:141:ILE:N	1.98	0.97
22:JB:2638:G:C5	28:JH:180:GLY:HA3	1.99	0.97
22:JB:348:U:H5''	42:JV:13:LYS:HZ3	1.23	0.97
22:JB:643:A:H2	22:JB:2382:C:H1'	0.81	0.97
22:JB:1781:C:C4'	24:JD:213:ARG:NH1	2.22	0.97
23:JA:49:C:H5'	36:JP:94:TYR:HE1	0.83	0.97
1:AA:1320:C:C2	19:AS:72:GLY:HA3	2.00	0.96
1:AA:718:G:H2'	11:AK:116:HIS:ND1	1.77	0.96
1:AA:952:U:C2	13:AM:123:ALA:O	2.18	0.96
1:AA:974:A:H2	14:AN:31:ARG:CB	1.75	0.96
1:AA:429:U:C3'	4:AD:8:VAL:HB	1.95	0.96
22:BB:147:G:OP1	47:B1:49:PHE:HZ	1.45	0.96
22:BB:2040:A:H4'	48:B2:8:LYS:NZ	1.78	0.96
22:BB:1044:U:H5	52:B6:15:LYS:CB	1.77	0.96
22:BB:1176:U:N3	22:BB:1198:C:O2	1.98	0.96
22:BB:1453:A:OP2	22:BB:1454:U:O4	1.82	0.96
22:BB:2601:C:C5'	25:BE:159:HIS:CD2	2.47	0.96
22:BB:628:A:N7	26:BF:97:ARG:NH1	2.12	0.96
22:BB:574:C:OP2	39:BS:79:GLN:CA	2.06	0.96
22:BB:529:U:H5'	40:BT:39:ARG:NH2	1.78	0.96
23:BA:106:U:C1'	43:BW:88:TYR:CE1	2.38	0.96
1:CA:135:C:C2'	16:CP:1:MET:HB2	1.95	0.96
1:CA:995:C:H42	14:CN:4:LYS:CD	1.78	0.96
1:CA:1229:A:C5	13:CM:120:LYS:HB3	1.99	0.96
10:CJ:63:PHE:HA	14:CN:59:ALA:N	1.77	0.96
1:CA:275:G:H4'	17:CQ:14:LYS:HB3	1.42	0.96
22:DB:596:C:H2'	33:DM:29:THR:CB	1.95	0.96
22:DB:755:C:O3'	25:DE:129:HIS:CG	1.72	0.96
22:DB:874:A:N3	23:DA:81:C:H4'	1.80	0.96
22:DB:934:G:C2'	44:DX:23:VAL:HG21	1.93	0.96
1:EA:546:G:OP2	4:ED:71:SER:CB	2.11	0.96
1:EA:1239:A:H3'	7:EG:115:ARG:HG3	1.45	0.96
1:EA:1373:G:O3'	7:EG:31:MET:SD	2.23	0.96
1:EA:689:C:C6	11:EK:51:LYS:NZ	2.33	0.96
23:FA:117:G:C5'	36:FP:52:ALA:HA	1.94	0.96
22:FB:2260:C:C4'	22:FB:2368:G:N2	2.27	0.96
22:FB:2556:A:C2	48:F2:5:PRO:CD	2.48	0.96

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:FE:17:ASN:C	37:FQ:87:LEU:CD1	2.32	0.96
38:FR:43:ALA:HA	39:FS:75:LYS:CG	1.93	0.96
1:GA:919:A:C2	1:GA:1080:A:H2	1.82	0.96
22:HB:2848:A:C2'	35:HO:6:ALA:HB1	1.95	0.96
22:HB:498:C:C2	40:HT:74:SER:OG	2.18	0.96
22:HB:1664:G:H8	40:HT:107:ILE:CD1	1.76	0.96
22:HB:514:G:OP2	40:HT:18:VAL:HG11	1.65	0.96
1:EA:1264:C:C4'	1:IA:1273:G:C2	2.48	0.96
1:IA:1321:C:OP1	19:IS:3:ARG:NH2	1.98	0.96
1:IA:768:A:H2	1:IA:1512:U:O2'	1.45	0.96
29:JI:26:ARG:NE	47:J1:68:ARG:NH1	2.11	0.96
22:JB:1405:A:N6	41:JU:15:LYS:CE	2.15	0.96
22:JB:1809:G:O3'	24:JD:156:ALA:HB3	1.65	0.96
22:JB:2315:A:N1	44:JX:70:ILE:HD13	1.79	0.96
22:JB:3178:C:C2'	53:J7:39:ILE:HD11	1.90	0.96
22:JB:592:G:H21	26:JF:78:VAL:CG1	1.77	0.96
22:JB:1001:A:C5'	46:JZ:27:LYS:HZ1	1.76	0.96
1:AA:262:A:P	20:AT:74:LYS:HZ2	1.87	0.96
1:AA:741:G:C2	15:AO:51:HIS:HB3	2.00	0.96
23:BA:92:G:H2'	34:BN:22:ALA:CB	1.94	0.96
22:BB:811:G:P	26:BF:54:THR:O	2.23	0.96
22:BB:497:C:H1'	40:BT:80:LEU:HD12	1.38	0.96
34:BN:66:TYR:CE1	43:BW:115:ILE:HG21	1.96	0.96
22:DB:1355:A:OP1	41:DU:56:MET:HA	1.66	0.96
22:DB:1992:G:O4'	35:DO:105:GLY:O	1.83	0.96
22:DB:742:G:C5	24:DD:18:THR:CB	2.27	0.96
22:DB:1795:C:C5'	24:DD:250:TRP:CZ2	2.31	0.96
42:DV:25:LEU:HB2	42:DV:81:VAL:HG23	1.46	0.96
4:ED:205:GLU:HB3	5:EE:101:ILE:CG2	1.94	0.96
1:EA:44:G:OP1	16:EP:11:SER:CB	2.14	0.96
22:FB:2039:G:N2	48:F2:3:LYS:N	2.07	0.96
22:FB:2375:G:O6	51:F5:31:HIS:HE1	1.44	0.96
22:FB:1948:C:N4	22:FB:2571:G:H1'	1.79	0.96
22:FB:2786:G:H4'	25:FE:59:VAL:CB	1.95	0.96
22:FB:468:A:OP2	41:FU:67:ARG:CD	2.12	0.96
22:FB:2290:A:N1	27:FG:40:LEU:CD1	2.28	0.96
38:FR:91:ASN:HD21	39:FS:10:LYS:HG2	0.82	0.96
10:GJ:51:ARG:HG2	14:GN:45:ARG:HH11	1.29	0.96
1:GA:749:C:O2'	15:GO:22:THR:HG21	1.64	0.96
1:GA:186:C:C1'	20:GT:81:LYS:CE	2.40	0.96
22:HB:1135:C:O2'	52:H6:4:ARG:CA	2.13	0.96

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:HB:506:G:C1'	40:HT:82:ASN:CA	2.42	0.96
22:HB:600:G:N2	51:H5:2:PRO:CD	2.23	0.96
22:HB:628:A:OP2	26:HF:97:ARG:NH1	1.98	0.96
22:HB:716:U:O3'	22:HB:717:G:P	2.23	0.96
22:HB:79:G:O2'	22:HB:305:A:C2	2.15	0.96
22:HB:94:C:OP1	45:HY:40:PRO:CD	2.12	0.96
1:IA:1147:C:C2	9:II:16:ARG:NH2	2.33	0.96
1:IA:953:G:O3'	13:IM:124:PRO:HG2	1.62	0.96
22:JB:1810:U:C3'	24:JD:154:GLN:NE2	2.22	0.96
22:JB:3168:G:H1	53:J7:101:LYS:CG	1.60	0.96
22:JB:3171:A:H8	53:J7:101:LYS:HB3	1.28	0.96
22:JB:490:A:C5'	42:JV:3:ARG:NH1	2.27	0.96
31:JK:41:TRP:HB3	31:JK:78:ASP:HB3	1.47	0.96
22:JB:2373:C:OP2	33:JM:62:LYS:HE3	1.66	0.96
1:AA:1224:G:O3'	19:AS:78:ARG:NH2	1.98	0.96
1:AA:1318:A:H4'	19:AS:10:PHE:HB2	1.45	0.96
1:AA:949:A:H5''	13:AM:102:ARG:HH21	0.82	0.96
1:AA:1371:G:OP2	9:AI:11:LYS:HE2	1.65	0.96
1:AA:43:C:O5'	16:AP:12:LYS:CD	2.12	0.96
1:AA:265:G:O4'	17:AQ:64:PRO:O	1.83	0.96
22:BB:1888:C:H3'	22:BB:1889:G:OP1	0.91	0.96
22:BB:2398:U:H3'	51:B5:32:GLN:HA	1.44	0.96
22:BB:1070:G:O4'	30:BJ:115:LEU:HD22	1.62	0.96
1:CA:1343:G:C4'	9:CI:122:ALA:HB3	1.93	0.96
1:CA:523:A:N6	12:CL:90:VAL:C	2.17	0.96
1:CA:793:U:O4	1:CA:1516:G:H4'	1.65	0.96
22:DB:475:U:H4'	50:D4:5:TYR:HB2	0.99	0.96
22:DB:1239:A:OP2	39:DS:73:LYS:CE	2.12	0.96
22:DB:1887:G:N2	22:DB:1888:C:H1'	1.79	0.96
22:DB:891:A:C6	22:DB:909:C:N3	2.31	0.96
22:DB:505:G:H5''	40:DT:25:PHE:HB3	1.00	0.96
22:FB:477:A:C5'	50:F4:16:HIS:CE1	2.38	0.96
22:FB:2398:U:C5	51:F5:30:ARG:HB2	2.00	0.96
22:FB:1399:C:N3	22:FB:1414:G:C2	2.33	0.96
22:FB:1885:C:O2'	24:FD:242:ALA:HA	1.64	0.96
22:FB:2708:U:C5'	25:FE:21:ILE:CD1	2.40	0.96
31:FK:41:TRP:HB3	31:FK:78:ASP:HB3	1.47	0.96
32:FL:90:ARG:HE	32:FL:91:PHE:H	1.01	0.96
22:FB:1239:A:P	39:FS:73:LYS:NZ	2.38	0.96
43:FW:65:LEU:HD22	43:FW:128:ARG:CZ	1.95	0.96
1:GA:251:G:HO2'	17:GQ:67:LYS:HD2	1.23	0.96

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:HB:3167:U:O4	53:H7:101:LYS:HD2	1.63	0.96
22:HB:1582:A:C1'	24:HD:211:ARG:O	2.13	0.96
22:HB:2241:U:C1'	22:HB:2307:A:H1'	1.94	0.96
22:HB:2669:C:N4	35:HO:15:SER:HA	1.80	0.96
22:HB:2553:G:H21	25:HE:142:GLY:N	1.62	0.96
22:HB:1261:G:H2'	38:HR:3:ARG:HA	1.43	0.96
22:HB:57:G:P	41:HU:75:ARG:HH22	1.86	0.96
1:IA:751:U:O2'	15:IO:69:TYR:HE2	1.23	0.96
1:IA:919:A:C4	1:IA:920:U:H5	1.56	0.96
1:IA:546:G:O6	4:ID:4:TYR:HA	1.65	0.96
22:JB:1629:G:C4'	50:J4:3:ARG:HD2	1.93	0.96
22:JB:2559:U:H3'	22:JB:2560:G:H21	1.28	0.96
22:JB:528:G:C1'	40:JT:97:VAL:H	1.77	0.96
22:JB:593:C:P	38:JR:5:LYS:HA	2.05	0.96
22:JB:71:A:H61	45:JY:58:ALA:CA	1.78	0.96
1:AA:179:A:C4'	20:GT:100:ILE:HG22	1.83	0.96
1:AA:742:G:OP1	15:AO:55:GLY:O	1.82	0.96
12:AL:16:GLU:C	12:AL:17:LYS:N	2.17	0.96
22:BB:2463:G:N3	34:BN:121:LEU:CD1	2.26	0.96
28:BH:24:PHE:H	28:BH:35:VAL:HG21	1.30	0.96
1:CA:1206:G:C4'	3:CC:193:TYR:O	2.13	0.96
1:CA:1239:A:H3'	7:CG:115:ARG:HG3	1.48	0.96
1:CA:1345:U:P	9:CI:120:ARG:CZ	2.53	0.96
1:CA:1257:U:OP1	3:CC:27:LYS:CE	2.13	0.96
1:CA:407:G:O2'	4:CD:116:GLN:CD	2.03	0.96
13:CM:81:LEU:HB2	13:CM:92:HIS:CD2	2.01	0.96
1:CA:673:G:H4'	18:CR:75:ILE:HG23	1.45	0.96
22:DB:1673:C:C4'	25:DE:136:ARG:CG	2.42	0.96
22:DB:2328:G:H5''	51:D5:42:ARG:CZ	1.95	0.96
32:DL:90:ARG:HE	32:DL:91:PHE:H	1.01	0.96
22:DB:2463:G:C4'	34:DN:47:GLN:OE1	2.12	0.96
22:DB:1325:U:H6	41:DU:61:LYS:HZ1	1.10	0.96
1:EA:958:A:H1'	19:ES:55:LYS:NZ	1.76	0.96
1:EA:9:G:P	5:EE:121:LYS:NZ	2.37	0.96
22:FB:2795:A:N6	25:FE:8:LYS:HE3	1.81	0.96
38:FR:87:ASN:CB	39:FS:52:GLY:CA	2.42	0.96
22:FB:94:C:O2'	45:FY:40:PRO:HG3	1.64	0.96
22:HB:115:G:OP2	22:HB:118:U:OP1	1.83	0.96
22:HB:2559:U:H3'	22:HB:2560:G:H21	1.28	0.96
22:HB:71:A:N6	45:HY:58:ALA:CB	2.28	0.96
1:IA:1148:U:H5'	9:II:66:ARG:HH21	0.80	0.96

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:IA:129(A):G:C3'	17:IQ:63:ARG:HD3	1.83	0.96
22:JB:2734:U:H1'	52:J6:15:LYS:HD3	1.45	0.96
23:JA:53:G:N7	36:JP:64:LYS:NZ	2.13	0.96
22:JB:1629:G:O3'	50:J4:3:ARG:NH2	1.98	0.96
22:JB:1727:C:C4'	22:JB:2833:C:O2	2.14	0.96
22:JB:1996:A:H1'	40:JT:115:ASN:ND2	1.80	0.96
22:JB:2260:C:O3'	22:JB:2261:G:P	2.22	0.96
22:JB:1948:C:N4	22:JB:2571:G:H1'	1.80	0.96
22:JB:2811:G:C4'	37:JQ:4:HIS:HE1	1.78	0.96
22:JB:543:G:H5''	38:JR:22:LYS:HZ2	1.29	0.96
22:JB:1001:A:H5''	46:JZ:27:LYS:HZ1	1.30	0.96
1:AA:273:A:N9	17:AQ:16:GLN:HG3	1.81	0.96
1:AA:620:C:O3'	4:AD:138:TYR:CE1	2.18	0.96
22:BB:127:C:C4'	22:BB:1360:G:H22	1.78	0.96
22:BB:2646:C:O2'	28:BH:111:HIS:CE1	0.62	0.96
22:BB:568:G:H2'	22:BB:569:C:H1'	1.48	0.96
22:BB:574:C:OP1	39:BS:79:GLN:CA	2.08	0.96
22:BB:613:A:C6	33:BM:97:ARG:HD2	2.00	0.96
25:BE:176:ARG:HE	37:BQ:16:ILE:HG23	1.28	0.96
22:BB:1109:A:C4'	30:BJ:7:ILE:HD12	1.95	0.96
22:BB:1256:C:H1'	33:BM:15:ASP:HA	1.48	0.96
22:BB:2334:C:O4'	44:BX:32:LYS:HE3	1.64	0.96
1:CA:8:A:C4'	5:CE:103:GLY:HA2	1.95	0.96
5:CE:143:ARG:NH2	8:CH:69:ARG:NH1	2.12	0.96
22:DB:1292:A:O3'	35:DO:33:ARG:NE	1.97	0.96
22:DB:1674:C:P	25:DE:134:TRP:HD1	1.88	0.96
22:DB:686:C:C4'	26:DF:74:VAL:HG12	1.94	0.96
1:EA:928:G:H4'	1:EA:1533:C:C5	2.01	0.96
1:EA:411:A:H61	1:EA:428:G:H1	1.09	0.96
1:EA:1221:G:H5'	19:ES:53:ASN:O	1.66	0.96
22:FB:10:A:O3'	22:FB:11:G:P	2.23	0.96
22:FB:1236:G:O6	39:FS:71:ILE:CD1	2.05	0.96
22:FB:413:G:N7	47:F1:63:PHE:CE1	2.33	0.96
22:FB:58:C:N1	22:FB:72:A:C2	2.33	0.96
22:FB:2283:G:HO2'	27:FG:153:ASP:HB3	1.23	0.96
2:GB:30:ARG:HH12	8:GH:75:ARG:HH12	1.06	0.96
22:HB:1398:G:C2	22:HB:1416:A:C6	2.53	0.96
22:HB:227:G:P	33:HM:59:ARG:NH1	2.37	0.96
22:HB:2619:G:OP1	31:HK:122:HIS:CE1	2.19	0.96
32:HL:90:ARG:HE	32:HL:91:PHE:H	1.01	0.96
1:IA:411:A:H61	1:IA:428:G:H1	1.09	0.96

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:JB:1584:G:C5'	24:JD:62:TYR:OH	2.12	0.96
33:JM:67:ASN:ND2	51:J5:7:HIS:HB3	1.78	0.96
22:JB:573:C:H4'	38:JR:40:LEU:HG	1.48	0.96
22:JB:320:A:N6	42:JV:26:SER:OG	1.86	0.96
22:JB:493:A:H4'	42:JV:56:LYS:HB2	0.97	0.96
3:AC:59:ARG:N	10:AJ:92:THR:HG21	1.80	0.96
23:BA:78:A:H5'	43:BW:31:SER:CB	1.94	0.96
22:BB:1166:A:C4	22:BB:1168:G:N7	2.33	0.96
22:BB:1416:A:C5'	22:BB:1485:U:O4'	2.13	0.96
22:BB:2669:C:H41	35:BO:15:SER:CA	1.78	0.96
23:BA:59:A:C5'	27:BG:23:SER:HB3	1.95	0.96
33:BM:61:PRO:HG2	51:B5:12:ARG:HD2	1.46	0.96
22:DB:1401:G:C6	22:DB:1413:U:C4	2.54	0.96
22:DB:2859:U:N3	48:D2:53:ASP:OD1	1.99	0.96
22:DB:487:G:H22	22:DB:490:A:H1'	1.30	0.96
22:DB:817:A:OP1	33:DM:45:LYS:HE2	1.65	0.96
22:DB:1237:G:H5''	39:DS:87:ARG:HB3	1.45	0.96
1:EA:521:G:H5'	12:EL:71:PRO:HA	1.43	0.96
1:EA:589:C:H4'	8:EH:29:SER:OG	1.65	0.96
1:EA:684:A:H1'	11:EK:39:PRO:CG	1.96	0.96
1:EA:1060:C:C3'	3:EC:2:GLY:N	2.28	0.96
1:EA:403:C:OP1	4:ED:137:SER:OG	1.82	0.96
6:EF:99:ALA:CA	18:ER:62:GLU:OE2	2.12	0.96
1:EA:598:U:N3	8:EH:115:SER:HB3	1.81	0.96
1:EA:529:G:N1	12:EL:51:ALA:HB2	1.81	0.96
29:FI:27:ASN:OD1	47:F1:46:GLU:CD	2.03	0.96
41:FU:26:SER:HA	41:FU:79:ILE:HA	1.45	0.96
1:GA:1392:G:C5'	1:GA:1530:G:O3'	2.14	0.96
13:GM:85:GLY:O	19:GS:74:PHE:CB	2.13	0.96
22:HB:2040:A:H4'	48:H2:8:LYS:NZ	1.80	0.96
22:HB:1336:G:H5'	40:HT:103:LEU:CD2	1.94	0.96
22:HB:1583:A:N6	24:HD:89:SER:HG	1.62	0.96
22:HB:811:G:N7	26:HF:56:ARG:NH2	2.12	0.96
22:HB:2372:A:H1'	33:HM:60:LEU:H	0.81	0.96
23:JA:92:G:H21	34:JN:22:ALA:HA	1.29	0.96
22:JB:2074:U:H2'	22:JB:2182:A:H1'	1.45	0.96
22:JB:2533:U:H2'	22:JB:2534:U:H5	1.15	0.96
22:JB:2557:G:C2	25:JE:133:LYS:CE	2.47	0.96
22:JB:3124:G:O5'	53:J7:62:LYS:HD2	1.62	0.96
22:JB:3168:G:C6	53:J7:101:LYS:HG2	1.99	0.96
22:JB:76:C:OP1	45:JY:7:ARG:CZ	2.14	0.96

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:JB:979:A:HO2'	46:JZ:13:PRO:HG3	1.24	0.96
22:JB:1147:G:N2	31:JK:133:GLY:O	1.97	0.96
22:JB:1200:G:C2'	39:JS:83:ARG:NE	2.26	0.96
22:JB:337:G:HO2'	42:JV:9:HIS:CD2	1.84	0.96
1:AA:664:G:OP1	18:AR:64:ARG:NE	1.90	0.96
1:AA:875:C:O2'	8:AH:11:THR:CG2	2.12	0.96
22:BB:1135:C:C1'	52:B6:36:GLN:CG	2.43	0.96
22:BB:3866:A:H2'	53:B7:43:LYS:CA	1.95	0.96
1:CA:1074:G:O4'	2:CB:104:ASN:CG	2.03	0.96
22:DB:1397:A:C2	22:DB:1418:C:C4	2.53	0.96
22:DB:3093:C:O3'	29:DI:20:VAL:C	2.04	0.96
22:DB:566:U:C5'	31:DK:74:MET:HE1	1.87	0.96
22:DB:596:C:C5	33:DM:30:ALA:HB1	2.00	0.96
22:DB:1173:G:C1'	39:DS:22:VAL:HG12	1.95	0.96
22:DB:497:C:H1'	40:DT:77:ALA:O	1.63	0.96
23:DA:14:C:H5''	44:DX:53:MET:HB3	1.45	0.96
12:EL:16:GLU:HG3	12:EL:19:ARG:HH21	1.27	0.96
22:FB:123:A:O5'	50:F4:23:LYS:NZ	1.96	0.96
22:FB:1338:G:H21	40:FT:107:ILE:HD13	1.25	0.96
22:HB:60:A:H4'	45:HY:29:ARG:HH22	1.31	0.96
22:HB:1804:U:O2'	24:HD:46:ARG:HB2	0.99	0.96
22:HB:2646:C:O2	28:HH:109:TYR:CB	1.84	0.96
1:IA:259:G:OP1	20:IT:80:ARG:NH1	1.98	0.96
22:JB:15:G:C1'	48:J2:18:MET:CG	2.43	0.96
22:JB:857:U:HO3'	22:JB:858:G:P	1.21	0.96
22:JB:2578:G:P	24:JD:228:PRO:HG2	2.06	0.96
1:AA:254:G:C6	17:AQ:16:GLN:CB	2.48	0.96
1:AA:426:G:H4'	4:AD:42:GLN:CA	1.94	0.96
1:AA:612:C:O2'	4:AD:86:LYS:HE3	1.62	0.96
1:AA:692:U:O4	11:AK:52:GLY:HA2	1.64	0.96
5:AE:152:ARG:NH1	8:AH:122:ARG:NH2	1.88	0.96
5:AE:148:VAL:HB	8:AH:107:LEU:HB3	0.97	0.96
1:AA:761:G:O4'	17:AQ:102:GLY:C	2.03	0.96
22:BB:2600:A:C4'	25:BE:158:GLY:HA3	1.95	0.96
22:BB:700:C:H5''	50:B4:4:THR:CA	1.95	0.96
22:BB:1809:G:C3'	24:BD:157:ARG:NH1	2.29	0.96
1:CA:9:G:C5'	5:CE:122:GLU:OE2	2.13	0.96
22:DB:218:A:OP2	51:D5:63:PRO:HG2	1.65	0.96
22:DB:3123:G:C5'	53:D7:158:LYS:HZ2	1.75	0.96
22:DB:1291:G:OP1	35:DO:35:GLN:HB2	1.66	0.96
22:DB:187:U:H5'	50:D4:26:SER:HG	1.17	0.96

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:DB:2713:A:O3'	22:DB:2714:A:P	2.23	0.96
22:DB:676:G:OP1	33:DM:27:ASP:N	1.98	0.96
22:DB:1673:C:H5''	25:DE:136:ARG:HG2	1.03	0.96
25:DE:26:VAL:HG11	37:DQ:3:THR:CG2	1.95	0.96
22:DB:1469:U:C4	35:DO:60:LEU:HD11	1.96	0.96
23:DA:107:C:P	43:DW:88:TYR:HB3	2.05	0.96
22:DB:864:C:H4'	46:DZ:43:MET:HG2	0.97	0.96
1:EA:1226:C:OP2	13:EM:91:ARG:NH2	1.99	0.96
4:ED:205:GLU:CB	5:EE:101:ILE:CG1	2.14	0.96
22:FB:1240:G:H5'	38:FR:16:LYS:HD2	1.47	0.96
22:FB:1636:G:C4'	50:F4:1:MET:HG3	1.94	0.96
22:HB:2733:A:N3	52:H6:15:LYS:CE	2.27	0.96
22:HB:3126:A:C5'	53:H7:26:PHE:CE1	2.49	0.96
22:HB:643:A:H2	22:HB:2382:C:H1'	1.28	0.96
22:HB:681:A:OP2	33:HM:48:PHE:HZ	1.46	0.96
41:HU:10:PRO:HD3	45:HY:26:MET:SD	2.05	0.96
1:IA:1367:C:C2'	9:II:112:LYS:NZ	2.27	0.96
1:IA:766:A:H61	1:IA:1511:G:H1'	0.79	0.96
1:IA:929:G:H5'	1:IA:1533:C:C4	1.99	0.96
7:IG:17:VAL:HG23	9:II:41:VAL:HG13	1.45	0.96
1:IA:1319:A:OP1	19:IS:5:LEU:HD22	1.14	0.96
22:JB:1781:C:O3'	24:JD:213:ARG:NH2	1.99	0.96
22:JB:348:U:C5'	42:JV:13:LYS:CD	2.39	0.96
22:JB:986:A:H5'	39:JS:78:VAL:HG21	1.44	0.96
22:JB:340:G:N2	42:JV:28:LYS:NZ	1.80	0.96
1:AA:1229:A:C2	13:AM:125:ARG:CB	2.49	0.96
13:AM:82:MET:O	13:AM:93:ARG:N	1.98	0.96
22:BB:1377:G:C5	47:B1:3:LYS:CB	2.48	0.96
22:BB:2859:U:P	48:B2:52:TYR:CE1	2.58	0.96
22:BB:1141:U:C3'	31:BK:107:GLN:NE2	2.29	0.96
22:BB:127:C:H4'	22:BB:1360:G:H1	1.28	0.96
32:BL:90:ARG:HE	32:BL:91:PHE:H	1.01	0.96
1:CA:1080:A:O3'	5:CE:17:ALA:O	1.83	0.96
1:CA:932:C:C3'	7:CG:3:ARG:CD	2.43	0.96
22:DB:226:C:H6	47:D1:28:ARG:HH22	1.01	0.96
23:DA:115:G:N2	36:DP:49:GLN:HE21	1.63	0.96
22:DB:2662:C:H2'	32:DL:82:LYS:HZ2	0.81	0.96
22:DB:2663:U:O4'	32:DL:82:LYS:NZ	1.97	0.96
22:DB:917:U:H1'	43:DW:166:LEU:CD2	1.95	0.96
1:EA:598:U:O2'	8:EH:130:GLY:CA	2.14	0.96
1:EA:523:A:C6	12:EL:90:VAL:CG2	2.49	0.96

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:FB:1167:A:C8	38:FR:55:ARG:NH2	2.34	0.96
22:FB:1398:G:N2	22:FB:1415:C:H2'	1.81	0.96
22:FB:718:A:N6	22:FB:739:G:H1'	1.80	0.96
22:FB:1171:A:N3	39:FS:8:GLY:O	1.98	0.96
1:GA:411:A:H61	1:GA:428:G:H1	1.09	0.96
22:HB:2861:A:N3	48:H2:40:LYS:CB	2.19	0.96
22:HB:1468:A:H8	35:HO:77:ARG:HD3	1.30	0.96
22:HB:1487:C:C2	22:HB:1533:G:O6	2.19	0.96
22:HB:57:G:C2'	22:HB:72:A:H62	1.75	0.96
1:IA:1101:A:OP2	2:IB:98:LEU:HA	1.66	0.96
1:IA:826:C:O2'	8:IH:15:ASN:ND2	1.99	0.96
1:IA:597:G:N3	8:IH:94:TYR:CD2	2.33	0.96
10:IJ:64:GLU:CB	14:IN:59:ALA:HB2	1.95	0.96
22:JB:3167:U:H3'	53:J7:97:LYS:CE	1.89	0.96
22:JB:2571:G:N7	24:JD:237:GLU:HG3	1.78	0.96
22:JB:2553:G:C2	25:JE:140:SER:OG	2.18	0.96
22:JB:633:G:OP1	33:JM:101:ARG:CG	2.02	0.96
22:JB:1265:G:O4'	38:JR:14:HIS:CE1	2.19	0.96
22:JB:1996:A:H5''	40:JT:117:ILE:HA	1.33	0.96
1:AA:1222:G:P	19:AS:77:THR:HB	2.06	0.96
22:BB:177:U:C4'	47:B1:31:ILE:HD13	1.95	0.96
22:BB:2556:A:H1'	48:B2:4:HIS:CE1	2.00	0.96
22:BB:115:G:O6	22:BB:117:A:C6	2.19	0.96
22:BB:1398:G:N2	22:BB:1416:A:C5	2.34	0.96
22:DB:2062:U:O3'	47:D1:20:VAL:HG11	1.64	0.96
22:DB:2543:A:H5''	32:DL:37:GLY:HA3	0.96	0.96
22:DB:1006:C:O2	38:DR:57:PHE:HD2	1.45	0.96
1:EA:244:U:O4	1:EA:892:A:N6	1.99	0.96
22:FB:1322:G:H5''	50:F4:8:ASN:H	1.26	0.96
22:FB:3178:C:O4'	53:F7:163:PRO:HG3	1.65	0.96
22:FB:1019:U:H5'	31:FK:63:ARG:HD2	0.98	0.96
22:FB:339:U:O2'	42:FV:76:LEU:HB3	1.66	0.96
1:GA:1374:A:N3	7:GG:29:LYS:CE	2.28	0.96
12:GL:10:LEU:CB	17:GQ:32:TYR:CD2	2.49	0.96
1:GA:267:C:H5'	17:GQ:67:LYS:HZ1	1.31	0.96
22:HB:1381:G:O6	47:H1:1:MET:CB	2.13	0.96
22:HB:1954:A:N7	24:HD:239:ARG:CB	2.28	0.96
22:HB:5:A:C2	22:HB:2873:G:N1	2.34	0.96
34:HN:68:ARG:CZ	43:HW:117:VAL:HG21	1.96	0.96
41:HU:91:LEU:C	45:HY:24:GLU:OE1	2.03	0.96
1:IA:1104:G:C1'	2:IB:111:ARG:HD2	1.96	0.96

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:JB:1615:C:OP1	41:JU:35:LYS:HE3	1.64	0.96
22:JB:226:C:C2	22:JB:2373:C:O2'	2.18	0.96
22:JB:2524:G:O3'	22:JB:2525:U:P	2.22	0.96
22:JB:2652:G:H4'	32:JL:46:HIS:NE2	1.79	0.96
25:JE:91:VAL:HG22	25:JE:93:VAL:H	1.29	0.96
22:JB:234:C:C3'	33:JM:103:ASN:ND2	2.20	0.96
1:AA:1227:A:C2'	13:AM:117:VAL:HG13	1.95	0.95
1:AA:1307:U:H4'	13:AM:109:THR:CB	1.95	0.95
1:AA:1392:G:C5'	1:AA:1531:A:C5'	2.44	0.95
1:AA:264:U:O2	17:AQ:64:PRO:CB	2.13	0.95
22:BB:1437:A:N6	22:BB:1439:G:H22	1.56	0.95
22:BB:1652:G:N2	22:BB:1752:U:O4'	1.98	0.95
22:BB:81:C:H5'	22:BB:306:G:O2'	1.66	0.95
34:BN:36:ILE:HG13	43:BW:74:ARG:CA	1.95	0.95
25:BE:18:ASP:CA	37:BQ:87:LEU:HD13	1.95	0.95
1:CA:1148:U:C6	9:CI:16:ARG:NH2	2.34	0.95
1:CA:1317:C:P	14:CN:18:VAL:HG11	2.04	0.95
6:CF:49:ALA:CB	18:CR:80:PRO:HD3	1.95	0.95
22:DB:2035:G:C4'	25:DE:142:GLY:CA	2.38	0.95
22:DB:7:G:O2'	31:DK:163:PRO:HG2	1.66	0.95
22:FB:1007:A:H5'	38:FR:93:LYS:C	1.86	0.95
22:FB:1412:C:H5'	41:FU:22:ARG:HH21	1.31	0.95
22:FB:2035:G:H4'	25:FE:143:GLN:N	1.80	0.95
22:FB:2718:A:H2	22:FB:2746:G:O6	1.46	0.95
22:FB:2714:A:N6	22:FB:2750:G:C1'	2.29	0.95
22:FB:60:A:H4'	45:FY:31:GLN:CD	1.86	0.95
22:FB:659:G:H21	51:F5:46:LYS:HZ1	1.11	0.95
22:FB:1203:A:OP1	33:FM:35:LYS:HA	1.63	0.95
34:FN:27:TYR:HB3	43:FW:73:LYS:CG	1.77	0.95
22:FB:1163:C:C1'	38:FR:78:THR:N	2.20	0.95
43:FW:51:LEU:HD13	43:FW:128:ARG:CD	1.96	0.95
22:HB:1954:A:C8	24:HD:239:ARG:CA	2.48	0.95
22:HB:1994:U:H4'	40:HT:119:LYS:HA	1.45	0.95
22:HB:2402:U:H5	49:H3:3:LYS:H	0.97	0.95
22:HB:1815:G:P	24:HD:54:ILE:HB	2.05	0.95
28:HH:24:PHE:H	28:HH:35:VAL:HG21	1.30	0.95
1:IA:752:G:H5'	15:IO:69:TYR:CE1	1.95	0.95
22:JB:2399:C:C2	51:J5:32:GLN:HB3	2.01	0.95
22:JB:1629:G:H4'	50:J4:3:ARG:HB2	1.48	0.95
22:JB:1781:C:H5''	24:JD:213:ARG:CZ	1.96	0.95
22:JB:2181:A:N3	29:JI:28:TRP:HB2	1.79	0.95

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:JB:2614:A:N3	25:JE:79:ARG:NH1	2.13	0.95
22:JB:3093:C:C5'	29:JI:24:TYR:CD2	2.30	0.95
22:JB:609:U:H5'	26:JF:26:VAL:CG1	1.95	0.95
22:JB:93:A:C4	45:JY:41:HIS:CD2	2.54	0.95
34:JN:60:ARG:HG3	43:JW:111:GLY:H	1.25	0.95
1:AA:411:A:H61	1:AA:428:G:H1	1.09	0.95
1:AA:43:C:C5'	16:AP:12:LYS:CE	2.43	0.95
1:AA:975:A:C6	14:AN:34:TYR:OH	2.18	0.95
1:AA:1375:A:OP1	7:AG:12:LEU:HG	1.66	0.95
10:AJ:46:ARG:NH1	14:AN:59:ALA:HB2	1.79	0.95
22:BB:3866:A:H8	53:B7:43:LYS:CG	1.74	0.95
22:BB:1236:G:N1	39:BS:73:LYS:HG3	1.81	0.95
25:BE:195:LEU:HD21	37:BQ:2:GLN:HE21	1.25	0.95
22:BB:37:C:O2'	26:BF:45:THR:OG1	1.82	0.95
35:BO:99:ARG:NE	48:B2:44:HIS:CD2	2.33	0.95
25:BE:76:ARG:HD2	37:BQ:2:GLN:HE22	1.05	0.95
22:BB:869:C:C4'	44:BX:57:HIS:H	1.78	0.95
1:CA:1393:U:HO3'	1:CA:1394:A:P	1.88	0.95
3:CC:132:ARG:NH1	4:CD:47:ARG:HH12	1.58	0.95
22:DB:2291:U:H5''	27:DG:85:VAL:CB	1.95	0.95
22:DB:2007:G:H5'	25:DE:149:ARG:HD2	1.37	0.95
22:DB:810:U:P	26:DF:55:GLY:HA3	2.06	0.95
32:DL:119:ARG:CZ	37:DQ:43:ASN:ND2	2.28	0.95
4:ED:204:ILE:HD13	5:EE:98:THR:O	1.62	0.95
49:F3:26:LYS:HZ2	51:F5:33:ASN:ND2	1.64	0.95
22:FB:1992:G:O3'	40:FT:63:SER:HB3	1.65	0.95
22:FB:2658:A:H2'	25:FE:187:ALA:CB	1.96	0.95
22:FB:69:G:HO3'	22:FB:70:A:P	1.90	0.95
22:FB:892:A:N6	22:FB:912:A:C4	2.34	0.95
22:FB:538:A:H8	31:FK:139:ARG:NH1	1.54	0.95
22:FB:1154:A:N6	31:FK:52:GLY:HA3	1.81	0.95
1:GA:728:A:OP1	15:GO:51:HIS:CD2	2.19	0.95
22:HB:848:A:H5'	22:HB:2337:A:H1'	1.45	0.95
22:HB:824:U:H5''	33:HM:33:GLY:CA	1.96	0.95
22:HB:95:G:OP2	45:HY:41:HIS:HB3	1.66	0.95
25:HE:54:LYS:HB2	37:HQ:6:LYS:HZ1	1.06	0.95
1:GA:340:U:OP2	32:HL:109:ARG:NH2	1.98	0.95
34:HN:62:GLY:CA	43:HW:110:GLY:HA2	1.96	0.95
1:IA:640:A:C2'	8:IH:127:LEU:CD1	2.43	0.95
22:JB:3170:A:C3'	53:J7:128:LEU:HD23	1.97	0.95
22:JB:1128:G:O2'	43:JW:76:ARG:NE	1.96	0.95

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:JB:1470:G:C4	35:JO:60:LEU:HD11	2.01	0.95
22:JB:3165:G:C8	53:J7:102:LYS:NZ	2.33	0.95
22:JB:2557:G:N2	25:JE:133:LYS:CE	2.29	0.95
22:JB:234:C:O3'	33:JM:103:ASN:ND2	1.99	0.95
1:AA:985:C:H4'	19:AS:55:LYS:HZ1	1.18	0.95
1:AA:1256:A:H61	3:AC:26:LYS:HZ3	1.11	0.95
13:AM:83:ASP:O	13:AM:84:ILE:O	1.81	0.95
1:AA:981:U:O3'	14:AN:23:ARG:NH2	1.99	0.95
1:AA:43:C:C5'	16:AP:12:LYS:HD2	1.96	0.95
22:BB:1007:A:H5'	38:BR:94:VAL:HG23	1.44	0.95
22:BB:742:G:P	24:BD:17:THR:O	2.23	0.95
22:BB:7:G:C5'	31:BK:161:GLN:HE22	1.74	0.95
22:BB:2219:U:P	24:BD:229:VAL:HG13	2.05	0.95
1:CA:815:A:C1'	1:CA:1529:G:C6	2.49	0.95
22:DB:176:A:C2	47:D1:32:HIS:HE1	1.84	0.95
22:DB:1010:U:O2	22:DB:1168:G:C2	2.19	0.95
1:CA:702:A:N3	22:DB:1839:A:H4'	1.80	0.95
22:DB:2000:U:H4'	48:D2:8:LYS:HA	1.48	0.95
22:DB:2394:G:C4'	33:DM:64:GLY:CA	2.35	0.95
22:DB:917:U:C2	43:DW:166:LEU:CD1	2.50	0.95
1:EA:588:G:C3'	8:EH:5:PRO:CB	1.85	0.95
1:EA:1308:U:H5''	13:EM:99:ARG:HD2	1.47	0.95
1:EA:1220:G:H21	19:ES:54:GLY:C	1.70	0.95
22:FB:910:U:N3	22:FB:911:A:O4'	1.96	0.95
22:FB:1516:A:C2'	24:FD:98:ALA:CB	2.44	0.95
1:GA:974:A:OP2	14:GN:29:ARG:CZ	2.14	0.95
7:GG:17:VAL:CG2	9:GI:41:VAL:CG1	2.43	0.95
10:GJ:11:PHE:HE1	14:GN:54:PRO:HG2	1.26	0.95
22:HB:3176:A:H2	53:H7:162:GLN:HE21	1.02	0.95
22:HB:511:A:H3'	40:HT:16:GLN:CG	1.96	0.95
22:HB:221:A:O3'	33:HM:68:VAL:HG22	1.65	0.95
22:HB:2814:G:OP1	35:HO:46:PRO:HG3	1.64	0.95
1:IA:1373:G:O2'	7:IG:31:MET:CE	2.13	0.95
1:IA:647:C:C5'	17:IQ:83:ASP:OD1	2.13	0.95
1:IA:1441:G:O6	20:IT:31:SER:HB3	1.67	0.95
22:JB:3170:A:O3'	53:J7:128:LEU:HD23	1.63	0.95
22:JB:1888:C:O2'	22:JB:1889:G:P	2.23	0.95
22:JB:2259:G:N2	22:JB:2367:A:H1'	1.82	0.95
22:JB:2638:G:OP2	28:JH:179:THR:CB	2.13	0.95
1:AA:1311:G:N7	19:AS:2:PRO:HA	1.80	0.95
1:AA:1345:U:C5'	9:AI:120:ARG:NH2	2.27	0.95

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:262:A:H5'	20:AT:74:LYS:HZ3	1.21	0.95
22:BB:1483:G:O6	22:BB:1539:U:N3	1.98	0.95
1:CA:1317:C:C5	14:CN:16:PHE:CE2	2.55	0.95
1:CA:279:A:H2'	17:CQ:95:TYR:CD1	1.69	0.95
1:CA:1228:C:OP1	13:CM:117:VAL:HG21	1.08	0.95
22:DB:14:A:H8	48:D2:21:SER:HG	1.14	0.95
23:DA:94:G:P	34:DN:23:LYS:HZ1	1.89	0.95
22:DB:1050:G:H5'	43:DW:37:LYS:HZ1	1.30	0.95
1:EA:1320:C:C4	19:ES:36:ARG:HG3	1.99	0.95
1:EA:1187:G:C1'	9:EI:111:ARG:HH22	1.73	0.95
15:EO:89:GLY:HA3	22:FB:729:A:OP1	1.67	0.95
1:EA:261:U:OP1	20:ET:72:LEU:HD22	0.79	0.95
22:FB:2591:C:H1'	48:F2:2:ALA:HB3	1.46	0.95
22:FB:506:G:P	40:FT:21:ARG:HB2	2.05	0.95
22:FB:506:G:OP1	40:FT:22:LYS:N	1.97	0.95
1:GA:195:A:P	20:GT:65:LYS:CE	2.54	0.95
1:GA:253:U:H5'	17:GQ:68:ARG:HH21	1.29	0.95
22:HB:1139:A:N6	22:HB:2470:U:O4	1.98	0.95
22:HB:8:A:H2	22:HB:2869:U:O2	1.40	0.95
22:HB:602:C:O2'	51:H5:3:LYS:HB2	1.65	0.95
22:HB:8:A:C2	22:HB:2869:U:C2	2.54	0.95
22:HB:94:C:H2'	45:HY:41:HIS:CE1	1.99	0.95
22:HB:1150:C:OP1	31:HK:52:GLY:O	1.84	0.95
1:IA:532:A:C2	1:IA:1207:G:H5'	2.00	0.95
23:JA:10:U:H4'	36:JP:28:ARG:NH2	1.81	0.95
22:JB:1003:C:H4'	39:JS:74:TYR:CD2	1.25	0.95
22:JB:3187:U:H5'	29:JI:11:LEU:HD23	1.47	0.95
22:JB:1171:A:O2'	39:JS:8:GLY:O	1.84	0.95
1:AA:1130:A:OP1	9:AI:20:ARG:HD3	1.65	0.95
1:AA:545:C:H5''	4:AD:72:GLU:HB3	1.47	0.95
22:BB:2464:G:O2'	34:BN:123:GLY:N	1.99	0.95
22:BB:1948:C:H41	22:BB:2571:G:H1'	1.31	0.95
22:BB:2793:G:OP1	35:BO:42:LYS:HE3	1.64	0.95
22:BB:494:A:N3	42:BV:56:LYS:CG	2.29	0.95
22:BB:1795:C:H5''	24:BD:250:TRP:CH2	2.01	0.95
22:BB:596:C:C6	33:BM:29:THR:CG2	2.40	0.95
4:CD:205:GLU:HB3	5:CE:101:ILE:CA	1.95	0.95
1:CA:529:G:H22	12:CL:49:ASN:CB	1.69	0.95
1:CA:1014:A:C8	19:CS:34:TRP:CE3	2.54	0.95
22:DB:2040:A:C2'	48:D2:3:LYS:CB	2.44	0.95
22:DB:1164:C:H4'	38:DR:76:TYR:CE2	2.01	0.95

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:DB:1197:U:O3'	22:DB:1198:C:P	2.25	0.95
22:DB:1402:G:C5	22:DB:1412:C:N3	2.34	0.95
22:DB:309:G:OP2	42:DV:93:ARG:HD3	1.65	0.95
22:DB:506:G:OP1	40:DT:22:LYS:O	1.84	0.95
22:DB:589:C:H4'	38:DR:33:ARG:CG	1.95	0.95
28:DH:24:PHE:H	28:DH:35:VAL:HG21	1.30	0.95
1:EA:129(A):G:H8	17:EQ:72:ARG:NH1	1.64	0.95
1:EA:583:A:C4	17:EQ:105:ALA:O	1.66	0.95
1:EA:643:C:O2	8:EH:132:GLU:N	1.99	0.95
1:EA:128:G:C4	17:EQ:61:GLU:OE1	1.93	0.95
22:FB:3866:A:C2	53:F7:196:VAL:HG13	2.01	0.95
22:FB:3124:G:H21	53:F7:209:MSE:HE1	1.32	0.95
22:FB:1164:C:H4'	38:FR:76:TYR:HE2	1.15	0.95
22:FB:2600:A:C4'	25:FE:159:HIS:N	2.28	0.95
22:FB:968:C:P	34:FN:75:VAL:CG1	2.54	0.95
43:FW:88:TYR:H	43:FW:90:GLU:CA	1.78	0.95
1:GA:1187:G:N2	14:GN:61:TRP:N	2.13	0.95
1:GA:736:C:H1'	6:GF:89:MET:SD	2.05	0.95
1:GA:192:U:H5'	20:GT:56:MET:CE	1.92	0.95
22:HB:1378:A:C4'	47:H1:11:PRO:HB2	1.97	0.95
22:HB:1796:A:H2	24:HD:51:SER:OG	1.47	0.95
22:HB:1805:G:N2	24:HD:51:SER:CB	2.28	0.95
22:HB:487:G:H21	22:HB:491:A:H62	1.11	0.95
22:HB:2652:G:N3	32:HL:41:ASN:OD1	1.99	0.95
1:IA:1374:A:C2'	7:IG:29:LYS:HE3	1.95	0.95
1:IA:670:G:H21	6:IF:77:ARG:HH12	0.99	0.95
22:JB:1039:A:H2	22:JB:2466:G:H1'	1.31	0.95
22:JB:1379:A:P	47:J1:1:MET:HE1	2.05	0.95
22:JB:2283:G:H4'	27:JG:130:LEU:CD2	1.96	0.95
22:JB:2375:G:C6	51:J5:31:HIS:ND1	2.34	0.95
22:JB:2399:C:H3'	51:J5:32:GLN:HB2	0.97	0.95
34:JN:36:ILE:HD11	43:JW:74:ARG:NH1	1.81	0.95
22:JB:1741:G:C6	37:JQ:125:MET:SD	2.60	0.95
1:AA:17:U:O2	1:AA:1079:G:N2	1.99	0.95
1:AA:664:G:H22	1:AA:741:G:H1	1.05	0.95
1:AA:712:A:H4'	24:BD:182:LEU:HD11	0.96	0.95
1:AA:946:A:H4'	13:AM:114:ARG:HH21	1.04	0.95
22:BB:1078:A:C2	30:BJ:23:VAL:CG1	2.49	0.95
35:BO:99:ARG:HD3	48:B2:44:HIS:NE2	1.80	0.95
23:BA:95:U:OP1	43:BW:14:LEU:CD1	2.14	0.95
1:CA:408:A:C4'	4:CD:112:VAL:HG11	1.97	0.95

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:DB:568:G:H4'	38:DR:59:ARG:HH22	1.27	0.95
25:DE:144:ARG:HD2	25:DE:146:THR:H	1.32	0.95
22:DB:675:C:H4'	33:DM:26:THR:OG1	0.88	0.95
23:DA:10:U:O2'	36:DP:28:ARG:NH2	1.99	0.95
22:DB:496:C:O2	40:DT:82:ASN:OD1	1.84	0.95
10:EJ:63:PHE:CE2	14:EN:58:LYS:HG2	2.01	0.95
22:FB:2240:C:C5	44:FX:13:GLY:C	2.40	0.95
22:FB:76:C:C5'	45:FY:52:GLN:CD	2.35	0.95
22:FB:94:C:C4'	45:FY:36:GLN:HG3	1.95	0.95
22:FB:2661:G:N9	25:FE:11:MET:HA	1.82	0.95
28:FH:24:PHE:H	28:FH:35:VAL:HG21	1.29	0.95
22:FB:1072:U:N3	30:FJ:11:GLN:HG3	1.80	0.95
43:FW:86:VAL:HG21	43:FW:128:ARG:CG	1.97	0.95
1:GA:734:G:C4'	18:GR:71:LYS:HZ1	1.79	0.95
1:GA:186:C:C1'	20:GT:81:LYS:CD	2.44	0.95
22:HB:2328:G:P	51:H5:41:ILE:HD11	2.00	0.95
1:IA:1367:C:H4'	10:IJ:60:ARG:HH12	1.28	0.95
22:JB:2002:A:OP2	48:J2:8:LYS:C	2.05	0.95
22:JB:1744:G:O6	37:JQ:124:VAL:HG23	0.78	0.95
22:JB:2063:A:H5'	47:J1:33:VAL:CG1	1.96	0.95
22:JB:2208:U:C2	47:J1:42:PHE:CE1	2.54	0.95
22:JB:592:G:O3'	38:JR:5:LYS:CD	2.15	0.95
22:JB:1744:G:OP2	37:JQ:123:ARG:HA	1.66	0.95
38:JR:88:ILE:HG21	39:JS:40:VAL:HG22	1.46	0.95
1:AA:1350:A:H62	9:AI:118:LYS:NZ	1.62	0.95
22:BB:2599:U:C1'	25:BE:156:MET:HB3	1.96	0.95
23:BA:59:A:C8	27:BG:24:SER:OG	2.19	0.95
22:BB:1109:A:HO2'	30:BJ:7:ILE:HD11	1.20	0.95
22:BB:1147:G:H21	31:BK:133:GLY:C	1.70	0.95
22:BB:2474:G:H4'	34:BN:83:ARG:H	1.20	0.95
1:CA:1273:G:C4'	1:GA:1265:G:H5''	1.96	0.95
1:CA:17:U:O3'	5:CE:14:ARG:CZ	2.14	0.95
13:CM:9:ILE:HD13	27:DG:144:ASP:CG	1.85	0.95
22:DB:464:G:O6	50:D4:39:ARG:CD	2.14	0.95
22:DB:2708:U:C4'	25:DE:21:ILE:CD1	2.44	0.95
22:DB:2618:A:C4'	31:DK:125:ARG:HH12	1.80	0.95
1:EA:583:A:C5'	17:EQ:90:ILE:CG2	2.39	0.95
3:EC:6:HIS:HB3	14:EN:49:HIS:HD2	1.31	0.95
10:EJ:62:HIS:O	14:EN:59:ALA:CA	2.13	0.95
22:FB:3866:A:C4	53:F7:195:LYS:HB2	2.01	0.95
22:FB:1008:G:H5''	38:FR:92:ARG:CG	1.92	0.95

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:FB:979:A:O3'	46:FZ:13:PRO:CB	2.02	0.95
22:FB:2601:C:OP1	25:FE:159:HIS:CG	2.20	0.95
43:FW:84:TYR:HB3	43:FW:93:GLU:HB2	1.48	0.95
1:GA:1196:U:H5	1:GA:1397:C:C5	1.84	0.95
2:GB:53:ARG:HH22	8:GH:68:ARG:NH1	1.53	0.95
1:GA:324:G:O5'	20:GT:15:ARG:NH2	1.98	0.95
22:HB:1377:G:H5''	47:H1:40:HIS:CE1	2.01	0.95
22:HB:2343:C:H5''	44:HX:40:GLN:CB	1.96	0.95
22:HB:511:A:H3'	40:HT:16:GLN:NE2	1.79	0.95
22:HB:2826:C:C5'	35:HO:61:HIS:CE1	2.39	0.95
23:HA:106:U:P	43:HW:91:PRO:HB2	2.06	0.95
22:HB:941:U:OP1	46:HZ:23:LEU:HA	0.77	0.95
1:IA:814:A:C4'	1:IA:1511:G:C4'	2.45	0.95
1:IA:16:A:HO2'	5:IE:16:THR:HA	1.26	0.95
1:IA:261:U:O4	20:IT:79:ARG:NH1	1.85	0.95
1:IA:1125:U:O4	10:IJ:5:ARG:CZ	2.15	0.95
1:IA:562:C:OP2	12:IL:17:LYS:HA	1.65	0.95
1:IA:835:U:H5''	18:IR:64:ARG:NH2	1.82	0.95
1:IA:261:U:H5	20:IT:79:ARG:HD3	1.03	0.95
22:JB:1379:A:P	47:J1:1:MET:CE	2.54	0.95
23:JA:8:C:O2'	36:JP:32:TYR:CD1	2.19	0.95
22:JB:1204:G:OP1	33:JM:37:GLN:HB2	1.33	0.95
22:JB:1268:U:C6	26:JF:66:ASN:HB3	2.01	0.95
22:JB:2708:U:P	32:JL:82:LYS:HG3	2.06	0.95
22:JB:786:U:O2'	24:JD:48:ARG:C	2.05	0.95
22:JB:672:C:C4'	26:JF:94:THR:N	2.25	0.95
1:AA:1398:A:C2	5:AE:21:ALA:HB3	2.01	0.95
1:AA:859:A:O2'	2:AB:27:LYS:HE3	1.65	0.95
22:BB:2646:C:H1'	28:BH:111:HIS:CB	1.96	0.95
22:BB:2825:A:H2	35:BO:61:HIS:CD2	1.75	0.95
22:BB:506:G:C1'	40:BT:82:ASN:HA	1.97	0.95
22:BB:641:G:OP1	51:B5:46:LYS:HD2	1.64	0.95
15:AO:89:GLY:HA3	22:BB:729:A:OP1	1.64	0.95
22:BB:1140:A:H5'	31:BK:107:GLN:CG	1.97	0.95
22:BB:1143:A:C2'	31:BK:111:LYS:HD3	1.97	0.95
22:BB:2334:C:C5'	44:BX:21:LEU:CD1	2.44	0.95
22:BB:2334:C:C6	44:BX:32:LYS:HE3	2.02	0.95
1:CA:276:G:H5'	17:CQ:18:THR:HG23	1.45	0.95
22:DB:226:C:C5	47:D1:28:ARG:NH2	2.35	0.95
23:DA:116:C:H1'	36:DP:50:THR:HG22	1.48	0.95
22:DB:1164:C:O4'	38:DR:77:SER:HB2	1.65	0.95

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:DB:1261:G:C6	38:DR:3:ARG:NH2	2.34	0.95
22:DB:2551:A:N6	25:DE:145:LYS:N	2.15	0.95
22:DB:566:U:C5'	31:DK:74:MET:CE	2.31	0.95
22:DB:625:A:C6	26:DF:176:ASN:HB2	2.01	0.95
22:DB:869:C:O2	44:DX:24:LYS:CD	2.14	0.95
28:DH:76:VAL:HG12	28:DH:81:ASP:HB2	1.49	0.95
22:DB:613:A:H61	33:DM:97:ARG:HG3	1.31	0.95
1:EA:684:A:C1'	11:EK:39:PRO:HG2	1.95	0.95
1:GA:1393:U:O2'	1:GA:1501:C:O2'	1.82	0.95
1:GA:659:U:H5'	15:GO:5:LYS:CG	1.97	0.95
1:GA:35:G:H2'	12:GL:117:ARG:O	1.66	0.95
22:HB:2448:A:O3'	34:HN:57:ARG:NH1	2.00	0.95
22:HB:1260:A:H4'	38:HR:2:PRO:HD3	1.39	0.95
22:HB:2334:C:C1'	44:HX:32:LYS:CE	2.43	0.95
1:IA:1130:A:C4'	9:II:18:PHE:HE1	1.70	0.95
1:IA:1226:C:O2'	19:IS:80:TYR:HE2	1.42	0.95
22:JB:2209:G:C3'	47:J1:39:VAL:CA	2.34	0.95
22:JB:3123:G:OP1	53:J7:107:ASN:O	1.83	0.95
23:JA:10:U:H1'	36:JP:49:GLN:CB	1.94	0.95
22:JB:2364:C:O2'	44:JX:37:LEU:HD11	0.77	0.95
1:AA:1239:A:H3'	7:AG:115:ARG:HG2	0.95	0.95
1:AA:265:G:H4'	17:AQ:65:ILE:HA	1.46	0.95
1:AA:666:G:N3	15:AO:51:HIS:HB2	1.81	0.95
1:AA:975:A:C5	14:AN:34:TYR:HE1	1.84	0.95
22:BB:1010:U:O2	22:BB:1168:G:C2	2.18	0.95
22:BB:1885:C:H1'	24:BD:242:ALA:HA	1.47	0.95
34:BN:106:GLU:CG	43:BW:114:ASP:O	2.14	0.95
1:CA:1106:G:OP1	3:CC:172:ARG:CG	2.13	0.95
1:CA:1117:G:O2'	9:CI:9:ARG:NE	1.99	0.95
1:CA:793:U:C4	1:CA:1516:G:H4'	2.00	0.95
1:CA:334:C:H1'	1:CA:1435:G:H5'	1.46	0.95
22:DB:1887:G:C2	22:DB:1888:C:C1'	2.48	0.95
22:DB:529:U:C5'	40:DT:39:ARG:NH2	2.29	0.95
10:EJ:62:HIS:HB2	14:EN:61:TRP:CZ3	2.00	0.95
1:EA:583:A:O4'	17:EQ:90:ILE:CG2	2.12	0.95
22:FB:544:U:OP1	38:FR:22:LYS:NZ	2.00	0.95
22:FB:922:A:H62	34:FN:17:ARG:H	0.96	0.95
22:FB:1164:C:C4'	38:FR:76:TYR:CE2	2.50	0.95
22:FB:999:A:P	46:FZ:7:ARG:HG2	2.06	0.95
1:GA:189:A:N6	20:GT:105:SER:OG	1.99	0.95
1:GA:928:G:O3'	1:GA:1533:C:N4	1.99	0.95

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:GA:877:C:C1'	8:GH:3:THR:CA	2.43	0.95
10:GJ:50:ILE:C	14:GN:45:ARG:HD2	1.87	0.95
22:HB:1325:U:O5'	41:HU:61:LYS:HE2	1.65	0.95
22:HB:1398:G:N2	22:HB:1416:A:C5	2.35	0.95
22:HB:3:U:N3	22:HB:2875:C:O2	2.00	0.95
22:HB:681:A:C5'	33:HM:48:PHE:CE1	2.49	0.95
22:HB:1808:C:OP2	24:HD:43:ARG:HB3	1.67	0.95
22:HB:1307:U:O2'	35:HO:23:ALA:CB	2.14	0.95
1:IA:278:G:N7	17:IQ:95:TYR:CB	2.26	0.95
13:IM:84:ILE:HD11	19:IS:74:PHE:HE2	1.03	0.95
22:JB:2701:A:N6	22:JB:2848:A:N6	2.13	0.95
22:JB:348:U:H5''	42:JV:13:LYS:CE	1.96	0.95
1:AA:1061:G:H5'	10:AJ:58:ASP:CB	1.95	0.95
1:AA:1517:G:C8	22:BB:1902:A:O3'	2.20	0.95
1:AA:529:G:C6	12:AL:46:LYS:HD3	2.02	0.95
1:AA:824:C:H1'	8:AH:2:LEU:HA	1.48	0.95
22:BB:1075:C:C5'	30:BJ:84:ILE:HD12	1.97	0.95
22:BB:2229:G:C8	34:BN:85:GLY:CA	2.43	0.95
22:BB:2043:A:P	26:BF:66:ASN:ND2	2.40	0.95
22:BB:971:A:C2	34:BN:83:ARG:NH1	2.34	0.95
23:BA:106:U:O2'	43:BW:88:TYR:HB3	1.66	0.95
1:CA:689:C:O5'	11:CK:51:LYS:CE	2.12	0.95
1:CA:349:A:C1'	20:CT:8:ARG:CZ	2.45	0.95
22:DB:2492:G:H2'	22:DB:2493:U:N3	1.80	0.95
22:DB:2229:G:C3'	34:DN:84:MET:O	2.14	0.95
22:DB:1234:C:O3'	39:DS:68:LYS:CG	2.13	0.95
1:EA:1187:G:N2	14:EN:61:TRP:N	2.13	0.95
1:EA:262:A:C5'	20:ET:74:LYS:HD2	1.93	0.95
22:FB:1506:C:OP1	24:FD:74:GLY:O	1.84	0.95
22:FB:505:G:H5''	40:FT:25:PHE:HB3	1.48	0.95
22:HB:2591:C:O2'	48:H2:3:LYS:C	2.05	0.95
22:HB:1483:G:O2'	22:HB:1484:G:O4'	1.81	0.95
22:HB:503:G:H22	40:HT:74:SER:CB	1.78	0.95
32:HL:114:VAL:HG21	32:HL:130:ALA:HB1	1.49	0.95
22:HB:761:G:H2'	40:HT:111:ARG:N	1.82	0.95
22:HB:1245:G:H3'	40:HT:8:PHE:CZ	1.97	0.95
1:EA:1273:G:O5'	1:IA:1265:G:H5''	1.08	0.95
12:IL:11:VAL:HG23	17:IQ:34:LYS:CE	1.97	0.95
1:IA:1224:G:H3'	19:IS:78:ARG:HH22	1.32	0.95
33:JM:62:LYS:H	51:J5:30:ARG:NH1	1.65	0.95
29:JI:46:LEU:HD11	53:J7:216:LYS:NZ	1.80	0.95

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:JB:1742:G:N7	37:JQ:125:MET:SD	2.39	0.95
22:JB:63:A:H5''	41:JU:72:ARG:CA	1.37	0.95
22:JB:1265:G:H1	38:JR:36:PHE:HB3	1.28	0.95
22:JB:572:G:H2'	38:JR:37:GLN:OE1	1.66	0.95
1:AA:624:C:H4'	16:AP:11:SER:H	1.16	0.94
5:AE:78:HIS:HB2	8:AH:104:ARG:HH22	1.31	0.94
1:AA:1130:A:OP1	9:AI:20:ARG:CD	2.15	0.94
1:AA:1047:G:O2'	14:AN:3:ARG:NE	1.99	0.94
22:BB:2859:U:P	48:B2:52:TYR:HE1	1.88	0.94
22:BB:3125:G:H4'	53:B7:209:MSE:CE	1.97	0.94
22:BB:1488:G:C6	22:BB:1536:G:C2	2.54	0.94
22:BB:2671:C:O2'	22:BB:2822:U:C1'	2.15	0.94
22:BB:2:G:N2	22:BB:2876:C:N3	2.15	0.94
22:BB:873:U:O4	22:BB:2247:A:C5	2.19	0.94
22:BB:674:U:O2	33:BM:23:PRO:HA	1.67	0.94
1:CA:668:G:H4'	15:CO:48:LYS:H	0.88	0.94
22:DB:2039:G:C2	48:D2:3:LYS:O	2.20	0.94
22:DB:2733:A:H2	52:D6:15:LYS:HD3	1.16	0.94
22:DB:1583:A:N6	24:DD:89:SER:HA	1.82	0.94
22:DB:1142:G:O6	31:DK:105:GLY:N	1.99	0.94
22:DB:2395:C:OP2	33:DM:62:LYS:C	2.04	0.94
22:DB:2229:G:N9	34:DN:84:MET:C	2.09	0.94
1:EA:1318:A:H4'	19:ES:10:PHE:HD1	1.17	0.94
22:FB:1322:G:C5'	50:F4:8:ASN:N	2.30	0.94
22:FB:1398:G:N9	22:FB:1415:C:O2	2.00	0.94
22:FB:2623:A:O3'	22:FB:2624:G:O4'	1.84	0.94
22:FB:2716:G:H1	22:FB:2749:A:C1'	1.79	0.94
22:FB:497:C:N3	40:FT:78:ASN:ND2	2.15	0.94
22:FB:1172:U:O2'	39:FS:22:VAL:CG1	2.14	0.94
22:FB:491:A:H4'	42:FV:55:THR:OG1	1.66	0.94
1:GA:1251:A:H5'	9:GI:12:GLU:OE1	1.66	0.94
3:GC:29:TYR:OH	10:GJ:11:PHE:HZ	1.21	0.94
22:HB:2525:U:H1'	22:HB:2544:A:C2	2.02	0.94
22:HB:3168:G:N7	53:H7:101:LYS:NZ	2.14	0.94
22:HB:3178:C:O2'	53:H7:39:ILE:HB	1.67	0.94
22:HB:602:C:O4'	51:H5:2:PRO:CD	2.16	0.94
41:HU:92:ALA:CB	45:HY:27:GLU:CG	2.02	0.94
34:HN:106:GLU:OE1	43:HW:113:VAL:HG13	1.02	0.94
1:IA:815:A:H2'	1:IA:1526:G:H22	1.32	0.94
1:IA:1373:G:C5'	7:IG:36:LYS:N	2.29	0.94
1:IA:128:G:C4'	17:IQ:61:GLU:CG	2.45	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:JB:1484:G:N7	22:JB:1537:U:O4	1.99	0.94
22:JB:2486:C:H5''	22:JB:2552:C:H41	1.02	0.94
22:JB:2491:C:C2	25:JE:140:SER:CB	2.50	0.94
28:JH:76:VAL:HG12	28:JH:81:ASP:HB2	1.49	0.94
22:JB:684:C:C5	33:JM:45:LYS:CB	2.40	0.94
22:JB:969:U:C5	34:JN:21:ASP:N	2.34	0.94
22:JB:2823:G:N7	37:JQ:105:TYR:HB2	1.82	0.94
22:JB:1996:A:H5'	40:JT:117:ILE:CB	1.96	0.94
1:AA:439:A:H4'	4:AD:122:ARG:CZ	1.97	0.94
13:AM:81:LEU:HD12	13:AM:92:HIS:HE1	1.27	0.94
22:BB:596:C:H2'	33:BM:29:THR:CG2	1.97	0.94
28:BH:76:VAL:HG12	28:BH:81:ASP:HB2	1.49	0.94
1:CA:1100:C:C6	2:CB:98:LEU:HD21	2.00	0.94
1:CA:1320:C:C2	19:CS:72:GLY:HA3	2.02	0.94
1:CA:1348:U:P	9:CI:109:VAL:HA	2.07	0.94
1:CA:644:G:H8	8:CH:92:ARG:NH2	1.64	0.94
3:CC:132:ARG:HH12	4:CD:47:ARG:HH12	1.08	0.94
1:CA:1344:C:O3'	9:CI:120:ARG:CD	2.15	0.94
3:CC:23:TYR:HH	10:CJ:9:ARG:HB2	1.23	0.94
22:DB:1172:U:O2'	39:DS:8:GLY:HA2	1.67	0.94
22:DB:1292:A:C5'	35:DO:33:ARG:CG	2.27	0.94
32:DL:114:VAL:HG21	32:DL:130:ALA:HB1	1.49	0.94
43:DW:67:LYS:HA	43:DW:128:ARG:HH12	1.24	0.94
34:DN:99:LYS:CG	43:DW:73:LYS:CE	2.33	0.94
1:EA:958:A:C4	19:ES:55:LYS:HD3	2.01	0.94
22:FB:7:G:C1'	31:FK:162:LYS:NZ	2.30	0.94
1:GA:429:U:H3'	4:GD:8:VAL:HB	1.45	0.94
22:HB:2398:U:C5'	51:H5:34:THR:N	2.23	0.94
22:HB:1746:A:P	37:HQ:124:VAL:CG2	2.55	0.94
22:HB:2237:C:C5	44:HX:2:ALA:CB	2.50	0.94
22:HB:3122:U:O3'	53:H7:158:LYS:NZ	2.00	0.94
22:HB:1019:U:H1'	38:HR:59:ARG:NH2	1.80	0.94
1:IA:553:A:H4'	12:IL:26:ALA:HB2	1.45	0.94
3:IC:28:GLN:HB3	3:IC:32:LEU:HD22	1.48	0.94
22:JB:3170:A:O2'	53:J7:128:LEU:CD2	2.16	0.94
29:JI:46:LEU:CD1	53:J7:216:LYS:HZ3	1.76	0.94
22:JB:1813:A:C4'	24:JD:157:ARG:HH21	1.78	0.94
38:JR:87:ASN:HD22	39:JS:50:ASP:HB2	1.32	0.94
12:AL:16:GLU:O	12:AL:17:LYS:HG3	1.67	0.94
1:AA:43:C:O5'	16:AP:12:LYS:HD2	1.67	0.94
1:AA:1320:C:H1'	19:AS:73:GLU:CA	1.97	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:BB:1398:G:N3	22:BB:1416:A:C5	2.35	0.94
22:BB:1816:G:C2	24:BD:252:LYS:HD3	2.03	0.94
31:BK:41:TRP:HB3	31:BK:78:ASP:HB3	1.47	0.94
33:BM:63:ARG:HH21	51:B5:8:LYS:CD	1.79	0.94
22:BB:1261:G:O6	38:BR:3:ARG:HB2	1.67	0.94
43:BW:48:THR:CB	43:BW:130:ILE:O	2.15	0.94
1:CA:436:C:H5'	4:CD:156:GLU:HB2	1.48	0.94
1:CA:688:G:C5'	11:CK:47:VAL:O	2.15	0.94
1:CA:664:G:H22	1:CA:741:G:H1	1.05	0.94
1:CA:9:G:H5''	5:CE:122:GLU:OE2	1.65	0.94
5:CE:140:ARG:CZ	8:CH:72:PRO:HD2	1.98	0.94
10:CJ:63:PHE:CZ	14:CN:58:LYS:CG	2.49	0.94
22:DB:886:A:C5'	43:DW:118:HIS:CE1	2.50	0.94
25:DE:151:TYR:CD2	31:DK:106:TYR:CG	2.55	0.94
1:EA:658:G:H1'	15:EO:22:THR:HB	1.47	0.94
1:EA:919:A:O3'	1:EA:920:U:O5'	1.82	0.94
4:ED:205:GLU:CG	5:EE:101:ILE:HG12	1.96	0.94
22:FB:1203:A:H4'	33:FM:37:GLN:N	1.80	0.94
22:FB:2263:C:H5''	49:F3:8:ILE:HG13	0.96	0.94
22:FB:3124:G:H21	53:F7:209:MSE:CE	1.80	0.94
22:FB:678:G:OP1	33:FM:38:LYS:HE3	1.65	0.94
22:FB:1237:G:H5''	39:FS:87:ARG:NE	1.81	0.94
22:FB:60:A:C5'	45:FY:31:GLN:HE22	1.77	0.94
1:GA:918:A:H2	1:GA:1079:G:H22	1.10	0.94
7:GG:16:LEU:CD2	9:GI:42:ARG:HH12	1.79	0.94
1:GA:35:G:N3	12:GL:117:ARG:C	2.20	0.94
1:GA:35:G:N3	12:GL:118:SER:N	2.16	0.94
1:GA:1225:A:C5'	13:GM:103:THR:CA	2.42	0.94
22:HB:1284:G:N1	40:HT:107:ILE:O	1.99	0.94
22:HB:1583:A:H61	24:HD:89:SER:HG	1.01	0.94
22:HB:2557:G:N3	25:HE:133:LYS:HD3	1.78	0.94
22:HB:503:G:H4'	40:HT:29:LYS:HE3	1.46	0.94
1:IA:644:G:C5'	8:IH:92:ARG:HE	1.79	0.94
7:IG:16:LEU:HB2	9:II:41:VAL:HG12	1.50	0.94
22:JB:1996:A:C3'	40:JT:116:ILE:O	2.16	0.94
22:JB:348:U:H5''	42:JV:13:LYS:CD	1.97	0.94
23:JA:14:C:C3'	44:JX:53:MET:HE1	1.90	0.94
3:AC:28:GLN:HB3	3:AC:32:LEU:HD22	1.48	0.94
22:BB:1169:C:H4'	46:BZ:27:LYS:HZ2	1.26	0.94
22:BB:1398:G:N3	22:BB:1416:A:C6	2.36	0.94
22:BB:2063:A:O5'	47:B1:20:VAL:HG21	1.67	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:BB:2725:C:C4'	28:BH:142:GLY:H	1.79	0.94
22:BB:2598:C:O2'	25:BE:154:LYS:HD3	1.67	0.94
22:BB:686:C:C4'	26:BF:74:VAL:HG11	1.96	0.94
37:BQ:55:ILE:H	37:BQ:55:ILE:HD13	1.33	0.94
1:CA:7:G:H21	5:CE:90:VAL:HG11	1.28	0.94
3:CC:28:GLN:HB3	3:CC:32:LEU:HD22	1.48	0.94
23:DA:77:G:C4	43:DW:29:ASN:ND2	2.34	0.94
22:DB:1044:U:OP1	52:D6:16:VAL:HG11	1.65	0.94
22:DB:1356:G:N1	22:DB:1417:C:N3	2.14	0.94
37:DQ:55:ILE:H	37:DQ:55:ILE:HD13	1.33	0.94
22:DB:1261:G:H1	38:DR:3:ARG:NH2	1.51	0.94
1:EA:598:U:O2'	8:EH:130:GLY:HA3	1.66	0.94
7:EG:16:LEU:HB2	9:EI:41:VAL:HG13	1.47	0.94
22:FB:123:A:O5'	50:F4:14:LYS:CG	2.15	0.94
22:FB:2461:G:H22	34:FN:53:ILE:HD12	1.12	0.94
22:FB:2745:A:C4	22:FB:2746:G:H1'	2.01	0.94
22:FB:58:C:O5'	22:FB:72:A:N6	1.99	0.94
22:FB:60:A:H4'	45:FY:31:GLN:NE2	1.80	0.94
25:FE:18:ASP:OD1	32:FL:85:ASP:CB	2.13	0.94
22:FB:1292:A:C5'	35:FO:33:ARG:HB2	1.49	0.94
38:FR:47:TYR:CD1	39:FS:74:TYR:CD2	2.53	0.94
22:FB:490:A:C5'	42:FV:3:ARG:NH1	2.28	0.94
22:FB:2239:C:C3'	44:FX:14:ARG:CZ	2.28	0.94
22:HB:2337:A:C2	51:H5:52:LYS:CD	2.49	0.94
22:HB:2465:G:H5'	34:HN:123:GLY:O	1.67	0.94
1:IA:1190:G:OP1	3:IC:4:LYS:CB	2.15	0.94
1:IA:1308:U:H2'	13:IM:99:ARG:NH1	1.81	0.94
1:IA:708:C:H5'	11:IK:20:TYR:HE2	1.15	0.94
1:IA:925:G:H4'	1:IA:1502:A:N3	1.83	0.94
1:IA:192:U:H4'	20:IT:57:ARG:CZ	1.96	0.94
22:JB:15:G:H1'	48:J2:18:MET:CB	1.94	0.94
22:JB:2399:C:C2'	51:J5:32:GLN:HB2	1.83	0.94
22:JB:1000:G:C8	46:JZ:10:ILE:CD1	2.49	0.94
22:JB:124:A:C4	50:J4:19:ARG:HG3	1.77	0.94
22:JB:1455:C:H4'	22:JB:1643:A:O3'	1.66	0.94
22:JB:2324:G:H4'	49:J3:40:TYR:CD1	2.02	0.94
22:JB:512:A:C4'	40:JT:15:LYS:O	2.15	0.94
22:JB:635:C:OP1	51:J5:63:PRO:CG	2.14	0.94
32:JL:114:VAL:HG21	32:JL:130:ALA:HB1	1.49	0.94
1:AA:815:A:C6	1:AA:1529:G:H2'	2.01	0.94
1:AA:8:A:H4'	5:AE:103:GLY:HA2	1.48	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1229:A:C2	13:AM:125:ARG:HB3	2.02	0.94
10:AJ:64:GLU:OE1	14:AN:57:ARG:HB3	1.67	0.94
22:BB:1040:A:H4'	34:BN:125:LYS:HZ1	1.12	0.94
22:BB:1401:G:N1	22:BB:1412:C:N3	2.14	0.94
22:BB:1488:G:C2	22:BB:1535:C:N3	2.35	0.94
22:BB:176:A:N7	47:B1:30:GLU:CB	2.29	0.94
22:BB:2461:G:O6	34:BN:54:VAL:CB	2.14	0.94
22:BB:2645:C:O2	28:BH:109:TYR:CE2	2.09	0.94
22:BB:2856:U:C1'	35:BO:45:ARG:HH21	1.76	0.94
22:BB:318:G:O3'	40:BT:12:LYS:HG3	1.68	0.94
22:BB:2726:U:P	28:BH:141:VAL:CG2	2.55	0.94
34:BN:66:TYR:CD1	43:BW:115:ILE:HG22	1.75	0.94
1:CA:918:A:H2	1:CA:1079:G:H22	0.96	0.94
1:CA:1230:C:O2	13:CM:126:LYS:HG3	1.66	0.94
1:CA:1273:G:O4'	1:GA:1265:G:C5'	2.15	0.94
1:CA:815:A:O4'	1:CA:1529:G:C6	2.20	0.94
22:DB:1666:G:H21	35:DO:106:ASP:HB2	1.17	0.94
22:DB:887:G:C8	43:DW:167:THR:HG23	2.02	0.94
22:DB:2218:G:OP1	24:DD:232:PRO:HG3	1.67	0.94
1:EA:598:U:N3	8:EH:115:SER:CB	2.29	0.94
1:EA:926:G:O6	1:EA:1502:A:N1	2.00	0.94
1:EA:376:G:O4'	16:EP:28:ARG:NH2	1.99	0.94
22:FB:2396:C:P	51:F5:44:LYS:HE2	2.07	0.94
22:FB:2821:G:H5''	37:FQ:106:TYR:HH	1.30	0.94
22:FB:2365:U:O2'	44:FX:38:VAL:HG23	1.67	0.94
1:GA:108:G:H2'	20:GT:12:ALA:O	1.68	0.94
1:GA:1392:G:N3	1:GA:1502:A:C4'	2.27	0.94
1:GA:186:C:C1'	20:GT:81:LYS:HD3	1.96	0.94
23:HA:59:A:O4'	27:HG:23:SER:HB3	1.67	0.94
22:HB:1630:A:H61	40:HT:114:ALA:HB1	1.17	0.94
22:HB:872:G:O2'	22:HB:2247:A:C2	2.20	0.94
22:HB:2310:G:H4'	44:HX:70:ILE:C	1.88	0.94
22:HB:419:G:C5'	53:H7:1:MET:SD	2.55	0.94
22:HB:489:A:O3'	42:HV:5:SER:CA	2.00	0.94
1:IA:449:C:C5'	16:IP:43:LYS:HB3	1.98	0.94
1:IA:827:U:O4'	8:IH:15:ASN:HB3	1.66	0.94
4:ID:201:GLN:NE2	5:IE:99:GLY:HA2	1.82	0.94
1:IA:641:U:O3'	8:IH:117:GLY:N	2.01	0.94
1:IA:376:G:C1'	16:IP:28:ARG:NH1	2.30	0.94
22:JB:309:G:P	42:JV:93:ARG:HD3	2.06	0.94
22:JB:468:A:H5'	41:JU:69:ILE:CG1	1.97	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:JB:2852:G:H5'	37:JQ:8:ASN:CB	1.97	0.94
41:JU:9:ALA:HA	45:JY:26:MET:SD	2.08	0.94
22:JB:1129:A:H5'	43:JW:76:ARG:HH11	1.32	0.94
38:BR:25:TRP:HH2	48:B2:14:SER:CB	1.80	0.94
22:BB:910:U:N3	22:BB:911:A:O4'	1.99	0.94
22:BB:967:G:H5''	34:BN:76:THR:O	1.67	0.94
22:BB:332:C:H5''	26:BF:160:ALA:CB	1.98	0.94
23:BA:92:G:C2'	34:BN:22:ALA:CB	2.44	0.94
12:CL:16:GLU:C	12:CL:19:ARG:NE	2.20	0.94
1:CA:1224:G:O2'	13:CM:102:ARG:CB	2.15	0.94
13:CM:72:ALA:HB2	27:DG:112:ARG:HG2	1.47	0.94
22:DB:226:C:O2	51:D5:8:LYS:NZ	2.00	0.94
22:DB:1289:A:C2	35:DO:23:ALA:CB	2.50	0.94
1:EA:621:A:C5'	4:ED:139:ARG:NE	2.08	0.94
22:FB:1377:G:OP2	47:F1:3:LYS:CG	2.15	0.94
49:F3:24:THR:O	51:F5:35:GLY:C	2.04	0.94
22:FB:2265:A:H2'	49:F3:31:THR:CG2	1.96	0.94
22:FB:1145:C:C6	22:FB:1147:G:OP1	2.21	0.94
22:FB:3877:A:HO3'	22:FB:1861:G:P	1.34	0.94
22:FB:610:G:H4'	26:FF:98:GLN:CD	1.88	0.94
22:FB:610:G:O2'	26:FF:98:GLN:HG3	1.68	0.94
22:FB:2284:U:O2	27:FG:152:MET:HE2	1.67	0.94
34:FN:106:GLU:CG	43:FW:115:ILE:CD1	2.38	0.94
22:FB:940:G:C2	46:FZ:37:THR:CG2	2.51	0.94
1:GA:107:G:H1	20:GT:14:LYS:HB3	1.14	0.94
1:GA:736:C:C1'	6:GF:89:MET:SD	2.56	0.94
22:HB:1044:U:OP2	52:H6:9:LYS:HG3	1.16	0.94
22:HB:1036:G:H1'	22:HB:1145:C:H4'	1.46	0.94
22:HB:2343:C:O2'	44:HX:66:LYS:HD2	1.68	0.94
22:HB:2:G:N2	22:HB:2876:C:N1	2.14	0.94
22:HB:498:C:C6	40:HT:77:ALA:CB	2.51	0.94
22:HB:818:G:H4'	33:HM:41:SER:CA	1.97	0.94
13:GM:93:ARG:NH2	22:HB:900:U:C6	2.36	0.94
32:HL:113:PRO:CD	37:HQ:75:GLU:CB	1.99	0.94
22:HB:543:G:HO2'	38:HR:42:ALA:HA	1.14	0.94
3:IC:18:TRP:HE1	14:IN:53:LEU:H	0.95	0.94
1:IA:8:A:O2'	4:ID:209:ARG:CZ	2.15	0.94
12:IL:11:VAL:CB	17:IQ:36:ILE:CG1	2.44	0.94
22:JB:3171:A:O2'	53:J7:105:ARG:NE	1.99	0.94
22:JB:2490:U:C4'	25:JE:124:GLY:C	2.36	0.94
22:JB:2284:U:OP1	27:JG:153:ASP:HB3	1.68	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:JA:15:A:P	44:JX:53:MET:HE1	1.99	0.94
1:AA:1240:U:O4	7:AG:116:ALA:HB2	1.67	0.94
3:AC:61:ALA:CB	10:AJ:95:GLU:HA	1.98	0.94
22:BB:1135:C:C4'	52:B6:36:GLN:HG3	1.98	0.94
22:BB:1398:G:H5''	22:BB:1416:A:N3	1.81	0.94
22:BB:1479:G:N2	22:BB:1543:G:H21	1.64	0.94
22:BB:1507:A:OP1	24:BD:99:ASP:CB	2.15	0.94
22:BB:1169:C:C4'	46:BZ:27:LYS:NZ	2.31	0.94
1:CA:1240:U:O4	7:CG:116:ALA:HB2	1.66	0.94
1:CA:815:A:O2'	1:CA:1527:C:H1'	1.65	0.94
22:DB:2350:G:O2'	49:D3:45:LYS:O	1.84	0.94
22:DB:2398:U:H5	51:D5:31:HIS:N	1.65	0.94
22:DB:164:G:H4'	47:D1:12:CYS:HB3	0.94	0.94
22:DB:864:C:C5'	46:DZ:43:MET:HG2	1.98	0.94
22:DB:1672:A:HO2'	25:DE:115:GLY:H	1.10	0.94
34:DN:66:TYR:CB	43:DW:117:VAL:C	2.35	0.94
1:EA:1346:A:OP1	9:EI:120:ARG:NH1	2.01	0.94
1:EA:243:A:HO2'	17:EQ:100:LYS:HG3	0.96	0.94
22:FB:3877:A:C6	22:FB:1862:C:C2	2.56	0.94
22:FB:2773:G:N9	22:FB:2780:A:N3	2.14	0.94
22:FB:642:A:H2	22:FB:2393:G:N2	1.65	0.94
22:FB:980:G:OP1	46:FZ:14:GLY:N	2.00	0.94
22:FB:2025:A:H62	31:FK:142:ARG:NH1	1.66	0.94
32:FL:114:VAL:HG21	32:FL:130:ALA:HB1	1.49	0.94
38:FR:43:ALA:HA	39:FS:75:LYS:HD3	1.43	0.94
1:GA:1374:A:N3	7:GG:29:LYS:NZ	2.15	0.94
3:GC:59:ARG:O	10:GJ:92:THR:HG23	1.65	0.94
1:GA:975:A:O2'	14:GN:31:ARG:C	2.06	0.94
22:HB:1338:G:H21	40:HT:106:LEU:HG	1.29	0.94
22:HB:496:C:N3	40:HT:82:ASN:OD1	2.00	0.94
22:HB:60:A:OP1	45:HY:44:ARG:NE	1.83	0.94
1:IA:1349:A:C5'	9:II:121:ARG:NH2	2.30	0.94
1:IA:217:C:H1'	1:IA:470:U:H1'	1.50	0.94
1:IA:835:U:H5'	18:IR:64:ARG:HH22	1.16	0.94
22:JB:75:C:H1'	45:JY:55:THR:O	0.76	0.94
26:JF:22:VAL:HG13	26:JF:23:ASN:H	1.31	0.94
32:JL:20:MET:HB3	32:JL:54:SER:HB2	1.50	0.94
22:JB:861:G:H21	46:JZ:21:GLN:HE21	0.96	0.94
13:AM:99:ARG:HE	19:AS:2:PRO:HB3	0.79	0.94
22:BB:1045:G:C4'	52:B6:18:ARG:HE	1.81	0.94
22:BB:1486:A:N1	22:BB:1537:U:O4	2.00	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:BB:2503:G:N2	22:BB:2720:A:H2	1.66	0.94
22:BB:2726:U:OP1	28:BH:141:VAL:HG21	1.68	0.94
22:BB:1078:A:C2	30:BJ:23:VAL:HG12	2.02	0.94
1:CA:623:C:H41	4:CD:139:ARG:HH22	0.99	0.94
1:CA:691:G:O5'	11:CK:26:ASN:ND2	2.01	0.94
23:DA:116:C:C1'	36:DP:50:THR:HG22	1.96	0.94
22:DB:2661:G:H1'	25:DE:12:THR:H	1.31	0.94
22:DB:318:G:C5'	40:DT:12:LYS:CE	2.30	0.94
23:DA:94:G:P	34:DN:23:LYS:NZ	2.41	0.94
23:DA:96:C:P	43:DW:14:LEU:O	2.24	0.94
7:EG:16:LEU:HD23	9:EI:41:VAL:HG11	1.50	0.94
1:EA:598:U:C3'	8:EH:95:VAL:HG23	1.94	0.94
22:FB:1072:U:C2	30:FJ:11:GLN:CG	2.51	0.94
22:FB:1586:A:N7	22:FB:1587:A:C6	2.35	0.94
22:FB:2236:U:C3'	44:FX:10:SER:OG	2.15	0.94
22:FB:2262:C:C5'	49:F3:3:LYS:NZ	2.30	0.94
22:FB:2558:C:O4'	25:FE:133:LYS:CE	2.15	0.94
22:FB:2714:A:O4'	25:FE:205:SER:HB3	1.66	0.94
22:FB:2738:A:N3	28:FH:64:LEU:CD1	2.30	0.94
34:FN:106:GLU:HG2	43:FW:115:ILE:CG2	1.96	0.94
22:HB:1288:A:N3	35:HO:13:ASN:OD1	1.99	0.94
22:HB:1338:G:C5	40:HT:107:ILE:O	2.20	0.94
22:HB:759:C:H3'	48:H2:2:ALA:CA	1.97	0.94
22:HB:818:G:OP1	33:HM:42:GLY:HA2	1.65	0.94
22:HB:1668:G:P	35:HO:11:ASN:CG	2.44	0.94
34:HN:62:GLY:HA3	43:HW:110:GLY:HA3	1.43	0.94
1:IA:1321:C:H4'	13:IM:87:TYR:CE1	2.03	0.94
1:IA:258:G:C5'	20:IT:87:LYS:HE2	1.95	0.94
22:JB:1163:C:C1'	38:JR:77:SER:OG	2.15	0.94
22:JB:2323:U:H5''	49:J3:39:LYS:HD3	0.96	0.94
43:JW:51:LEU:CB	43:JW:128:ARG:CZ	2.45	0.94
1:AA:1130:A:OP1	9:AI:20:ARG:NE	2.01	0.94
1:AA:658:G:O2'	15:AO:5:LYS:HG2	1.65	0.94
22:BB:1044:U:C5	52:B6:15:LYS:HG2	2.01	0.94
22:BB:922:A:C2	22:BB:2244:C:O4'	2.20	0.94
22:BB:2470:U:O4	22:BB:2548:G:O2'	1.84	0.94
22:BB:827:C:H5'	39:BS:84:THR:HA	1.46	0.94
25:BE:18:ASP:N	37:BQ:87:LEU:HD12	1.82	0.94
22:BB:2365:U:O4'	44:BX:37:LEU:HD11	1.66	0.94
1:CA:1254:C:OP1	10:CJ:45:ARG:NH1	2.00	0.94
1:CA:968:A:C1'	10:CJ:56:HIS:CE1	2.49	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:932:C:H5	7:CG:3:ARG:NH1	1.57	0.94
1:CA:588:G:C8	8:CH:1:MET:HG2	2.03	0.94
22:DB:487:G:N2	22:DB:491:A:N7	2.15	0.94
22:DB:545:C:O2'	38:DR:53:LYS:NZ	1.99	0.94
32:DL:113:PRO:HD3	37:DQ:75:GLU:CB	1.96	0.94
32:DL:20:MET:HB3	32:DL:54:SER:HB2	1.50	0.94
1:EA:1318:A:H4'	19:ES:10:PHE:CG	2.03	0.94
1:EA:1320:C:C6	19:ES:36:ARG:O	2.21	0.94
1:EA:329:A:N6	20:ET:16:HIS:NE2	2.16	0.94
33:FM:63:ARG:HH21	51:F5:9:MET:HE3	1.12	0.94
23:FA:9:G:C5'	36:FP:32:TYR:CE1	2.50	0.94
25:FE:144:ARG:HD2	25:FE:146:THR:H	1.32	0.94
43:FW:86:VAL:HG21	43:FW:128:ARG:HG3	1.47	0.94
22:FB:2364:C:O2	44:FX:37:LEU:HD21	1.66	0.94
1:GA:192:U:O3'	20:GT:57:ARG:CG	2.15	0.94
1:GA:438:G:H5'	4:GD:123:HIS:CD2	2.01	0.94
1:GA:932:C:C4'	7:GG:4:ARG:CG	2.34	0.94
7:GG:153:HIS:HE1	11:GK:59:TYR:CD1	1.70	0.94
22:HB:1325:U:H3'	41:HU:61:LYS:CE	1.97	0.94
22:HB:2462:C:O2	34:HN:121:LEU:HD11	1.67	0.94
1:IA:676:A:HO2'	11:IK:115:PRO:HB3	1.12	0.94
1:IA:537:G:C5'	12:IL:113:ARG:NH1	2.30	0.94
22:JB:2399:C:C1'	51:J5:32:GLN:HB3	1.97	0.94
22:JB:2557:G:N3	25:JE:133:LYS:HD3	1.82	0.94
22:JB:760:U:H6	40:JT:111:ARG:HB2	1.13	0.94
1:AA:1373:G:H5''	7:AG:36:LYS:HB2	0.97	0.94
1:AA:1392:G:N2	1:AA:1502:A:O4'	2.00	0.94
22:BB:1805:G:H21	24:BD:52:ARG:N	1.66	0.94
22:BB:1670:G:OP1	22:BB:2797:G:N1	1.98	0.94
22:BB:2218:G:C4'	24:BD:230:ASP:CB	2.46	0.94
22:BB:1954:A:C8	24:BD:238:GLY:O	2.21	0.94
1:CA:1092:A:C4'	7:CG:4:ARG:NE	2.28	0.94
6:CF:50:TYR:HB3	18:CR:80:PRO:HB3	1.49	0.94
22:DB:1992:G:H5''	40:DT:62:ARG:HB2	0.94	0.94
22:DB:1998:A:O2'	48:D2:3:LYS:HE3	1.68	0.94
22:DB:627:A:H5''	26:DF:100:ARG:HH11	1.31	0.94
22:DB:644:A:H5''	33:DM:70:THR:HG21	1.49	0.94
22:DB:512:A:C4'	40:DT:15:LYS:CG	2.31	0.94
22:DB:338:G:N2	42:DV:10:HIS:CE1	2.35	0.94
34:DN:38:MET:CG	43:DW:74:ARG:HD2	1.98	0.94
1:EA:664:G:H22	1:EA:741:G:H1	1.05	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:EA:958:A:O2'	19:ES:55:LYS:NZ	2.00	0.94
6:EF:50:TYR:CD1	18:ER:80:PRO:CA	2.50	0.94
22:FB:15:G:C1'	48:F2:18:MET:CG	2.44	0.94
22:FB:15:G:C2	48:F2:18:MET:HE3	2.03	0.94
22:FB:1493:A:N1	22:FB:1573:G:H1'	1.81	0.94
22:FB:1583:A:C4	24:FD:84:TYR:CD1	2.55	0.94
22:FB:1636:G:H5'	50:F4:1:MET:HE3	1.43	0.94
22:FB:1670:G:N2	35:FO:11:ASN:ND2	2.15	0.94
22:FB:2773:G:N2	22:FB:2780:A:H1'	1.83	0.94
22:FB:1203:A:C4'	33:FM:36:GLY:H	1.79	0.94
34:FN:98:VAL:HG13	34:FN:99:LYS:H	1.32	0.94
22:FB:528:G:O3'	40:FT:39:ARG:CG	2.15	0.94
22:FB:2365:U:O2'	44:FX:38:VAL:CG2	2.16	0.94
26:HF:22:VAL:HG13	26:HF:23:ASN:H	1.31	0.94
22:HB:95:G:OP1	45:HY:39:GLN:HG2	1.67	0.94
22:HB:95:G:O4'	45:HY:45:GLN:HG2	0.76	0.94
22:JB:2486:C:C5'	22:JB:2552:C:H41	1.80	0.94
22:JB:2486:C:C5'	22:JB:2552:C:N4	2.30	0.94
22:JB:528:G:H1'	40:JT:97:VAL:H	1.32	0.94
22:JB:93:A:O2'	45:JY:40:PRO:HB2	1.68	0.94
22:JB:969:U:H5	34:JN:21:ASP:HB2	0.77	0.94
22:JB:1016:C:O2	31:JK:56:THR:HG21	1.67	0.94
22:JB:572:G:N2	38:JR:33:ARG:CD	2.28	0.94
1:AA:273:A:N3	17:AQ:15:MET:CB	2.28	0.94
22:BB:123:A:P	50:B4:14:LYS:HB2	2.08	0.94
22:BB:1377:G:C6	47:B1:3:LYS:CG	2.51	0.94
22:BB:1377:G:H3'	47:B1:3:LYS:NZ	1.83	0.94
22:BB:596:C:H3'	33:BM:29:THR:HB	0.96	0.94
22:BB:827:C:H5'	39:BS:84:THR:H	1.13	0.94
22:BB:742:G:N9	24:BD:18:THR:HB	1.81	0.94
22:BB:2767:C:C4'	25:BE:60:ASN:ND2	2.30	0.94
22:BB:597:U:H5'	33:BM:28:LYS:HD2	0.96	0.94
1:CA:814:A:C2	1:CA:1526:G:O2'	2.15	0.94
1:CA:429:U:O3'	4:CD:8:VAL:CG2	2.15	0.94
1:CA:720:C:H4'	18:CR:52:PRO:HA	0.95	0.94
1:CA:429:U:H3'	4:CD:8:VAL:CB	1.97	0.94
5:CE:78:HIS:HB3	8:CH:107:LEU:CD1	1.98	0.94
1:CA:529:G:C5	12:CL:48:PRO:CG	2.42	0.94
22:DB:1437:A:C3'	22:DB:1438:G:OP2	2.16	0.94
22:DB:2063:A:C5'	47:D1:20:VAL:HG21	1.98	0.94
22:DB:2738:A:N1	28:DH:71:LEU:HD12	1.83	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:DB:574:C:H5	39:DS:79:GLN:NE2	1.66	0.94
1:EA:583:A:H4'	17:EQ:90:ILE:HG21	1.21	0.94
22:FB:1670:G:N1	35:FO:11:ASN:CG	2.20	0.94
22:FB:2750:G:C2	25:FE:204:ALA:HB1	2.03	0.94
22:FB:69:G:O3'	22:FB:70:A:P	2.26	0.94
22:FB:1583:A:C4	24:FD:84:TYR:HD1	1.84	0.94
25:FE:19:ARG:HG3	37:FQ:84:ALA:HB2	1.50	0.94
23:FA:57:U:O4'	27:FG:26:MET:CE	2.16	0.94
22:FB:2372:A:C2'	33:FM:59:ARG:HB3	1.98	0.94
22:FB:965:G:H5''	34:FN:18:MET:HG3	0.94	0.94
22:FB:1202:U:H4'	39:FS:81:ARG:NH1	1.82	0.94
1:GA:217:C:H1'	1:GA:470:U:H1'	1.50	0.94
22:HB:2029:G:H5'	48:H2:18:MET:O	1.66	0.94
22:HB:2861:A:C8	48:H2:31:THR:HG22	2.02	0.94
22:HB:3877:A:H4'	53:H7:40:ASP:OD2	1.68	0.94
22:HB:677:G:H2'	22:HB:678:G:C8	2.03	0.94
22:HB:1809:G:H5'	24:HD:63:ARG:NH1	1.83	0.94
22:HB:2372:A:C1'	33:HM:60:LEU:N	2.23	0.94
1:IA:1320:C:OP1	19:IS:3:ARG:CG	2.16	0.94
1:IA:815:A:C8	1:IA:1509:C:O2	2.20	0.94
1:IA:636:U:H5''	17:IQ:5:VAL:HG23	1.48	0.94
1:IA:730:G:H22	15:IO:51:HIS:CE1	1.85	0.94
22:JB:1629:G:H4'	50:J4:3:ARG:CD	1.98	0.94
22:JB:15:G:OP1	48:J2:20:ARG:NH1	2.01	0.94
22:JB:2000:U:C4'	48:J2:8:LYS:HZ2	1.79	0.94
22:JB:2553:G:N2	25:JE:140:SER:OG	2.01	0.94
1:AA:739:C:O2	15:AO:46:HIS:CG	1.85	0.93
1:AA:948:C:H5''	13:AM:106:ASN:HA	0.95	0.93
10:AJ:64:GLU:OE1	14:AN:57:ARG:CA	2.16	0.93
1:AA:1224:G:O2'	13:AM:102:ARG:HB3	1.67	0.93
1:AA:980:C:O2'	14:AN:19:ARG:NH1	2.01	0.93
1:AA:265:G:C4'	17:AQ:65:ILE:CA	2.46	0.93
22:BB:1508:G:OP1	24:BD:100:GLY:HA2	1.66	0.93
22:BB:176:A:H2'	47:B1:31:ILE:HG23	0.96	0.93
22:BB:47:G:N2	22:BB:154:U:OP1	2.01	0.93
22:BB:628:A:P	26:BF:100:ARG:NH1	2.41	0.93
22:BB:2240:C:OP2	44:BX:14:ARG:HG2	1.66	0.93
1:CA:19:C:H5''	5:CE:86:ALA:CB	1.97	0.93
1:CA:558:G:H4'	5:CE:121:LYS:HZ1	1.14	0.93
22:DB:2000:U:O2'	48:D2:8:LYS:O	1.86	0.93
22:DB:2256:G:H1'	34:DN:14:PHE:HZ	1.32	0.93

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:DB:2710:C:C4'	25:DE:169:ASN:HB3	1.96	0.93
25:DE:151:TYR:CE2	31:DK:106:TYR:HB3	2.03	0.93
22:DB:2599:U:C1'	25:DE:156:MET:O	2.15	0.93
22:DB:1142:G:H22	31:DK:103:TYR:HD2	1.04	0.93
22:DB:644:A:OP1	33:DM:70:THR:HG21	1.65	0.93
34:DN:98:VAL:HG21	43:DW:73:LYS:HE3	1.47	0.93
10:EJ:63:PHE:HA	14:EN:59:ALA:HB2	1.31	0.93
22:FB:1402:G:C2	22:FB:1412:C:O2	1.95	0.93
22:FB:999:A:P	46:FZ:7:ARG:C	2.46	0.93
22:FB:597:U:OP1	33:FM:28:LYS:O	1.86	0.93
1:AA:187:G:N2	1:GA:190:A:H5'	1.83	0.93
1:GA:951:G:HO2'	13:GM:126:LYS:HB3	1.25	0.93
1:GA:975:A:O2'	14:GN:31:ARG:O	1.85	0.93
1:GA:375:U:C4'	16:GP:17:TYR:OH	2.16	0.93
22:HB:742:G:C5'	24:HD:18:THR:HG21	1.97	0.93
22:HB:1788:C:H5'	24:HD:254:THR:HG23	1.49	0.93
22:HB:1789:U:C4'	24:HD:257:LEU:HD13	1.97	0.93
22:HB:1507:A:OP1	24:HD:99:ASP:O	1.86	0.93
31:HK:41:TRP:HB3	31:HK:78:ASP:HB3	1.47	0.93
1:EA:1273:G:N3	1:IA:1264:C:C5'	2.27	0.93
1:IA:1100:C:H42	2:IB:144:ARG:HH22	1.11	0.93
22:JB:1781:C:OP2	24:JD:221:GLN:HB3	1.68	0.93
22:JB:2464:G:C4'	34:JN:123:GLY:HA3	1.92	0.93
22:JB:512:A:H4'	40:JT:15:LYS:O	1.68	0.93
12:AL:11:VAL:HG22	17:AQ:29:HIS:CG	2.03	0.93
10:AJ:46:ARG:HH11	14:AN:59:ALA:HB2	1.33	0.93
22:BB:2028:C:O2	48:B2:22:HIS:CD2	2.21	0.93
22:BB:1381:G:OP1	50:B4:25:LYS:CG	2.17	0.93
22:BB:128:C:C5'	22:BB:1361:G:H21	1.82	0.93
22:BB:128:C:H5'	22:BB:1361:G:H21	1.32	0.93
22:BB:1583:A:H1'	24:BD:84:TYR:HE1	1.20	0.93
22:BB:2289:A:C2	27:BG:77:PHE:CZ	2.57	0.93
22:BB:2365:U:C5'	44:BX:39:ARG:HH11	1.58	0.93
22:BB:2470:U:C1'	22:BB:2549:G:OP1	2.14	0.93
22:BB:458:G:P	38:BR:3:ARG:HD3	2.07	0.93
22:BB:2553:G:C2	25:BE:140:SER:OG	2.20	0.93
25:BE:52:ALA:HB3	37:BQ:5:ILE:CG1	1.98	0.93
22:BB:2795:A:O4'	35:BO:5:LYS:CD	2.16	0.93
22:BB:828:C:C5'	39:BS:86:HIS:NE2	2.29	0.93
1:CA:1206:G:C4'	3:CC:193:TYR:C	2.37	0.93
1:CA:429:U:C3'	4:CD:8:VAL:HB	1.95	0.93

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:276:G:H5'	17:CQ:18:THR:HG22	0.96	0.93
22:DB:1043:A:H4'	52:D6:23:VAL:CB	1.98	0.93
22:DB:2474:G:C4'	34:DN:83:ARG:HG2	1.98	0.93
25:DE:19:ARG:HD3	37:DQ:65:SER:HA	0.95	0.93
1:EA:1186:G:O2'	9:EI:111:ARG:HD3	1.67	0.93
1:EA:436:C:C5'	4:ED:156:GLU:HB3	1.99	0.93
1:EA:1240:U:O4	7:EG:119:ARG:NH1	2.01	0.93
13:EM:72:ALA:HB1	27:FG:113:ASP:HB3	1.46	0.93
22:FB:1508:G:OP1	24:FD:100:GLY:HA3	1.68	0.93
22:FB:2056:C:H5''	24:FD:229:VAL:HG23	1.45	0.93
22:FB:64:C:H42	41:FU:65:VAL:H	0.95	0.93
1:GA:932:C:H5'	7:GG:4:ARG:H	1.32	0.93
1:GA:264:U:C1'	17:GQ:64:PRO:N	2.17	0.93
1:GA:192:U:C4'	20:GT:56:MET:HE1	1.84	0.93
22:HB:2402:U:O4	49:H3:3:LYS:HG2	1.68	0.93
22:HB:339:U:O2'	42:HV:77:HIS:NE2	1.87	0.93
1:IA:450:G:HO2'	16:IP:15:PRO:HG2	1.22	0.93
1:IA:597:G:C2	8:IH:131:GLY:HA2	2.02	0.93
22:JB:1996:A:H1'	40:JT:115:ASN:HD21	1.33	0.93
22:JB:2494:C:O2	22:JB:2548:G:N2	2.01	0.93
22:JB:846:A:H4'	33:JM:53:ARG:HA	1.47	0.93
22:JB:1405:A:C6	41:JU:15:LYS:HE3	1.99	0.93
1:AA:332:G:C5'	20:AT:13:LEU:CD1	2.46	0.93
20:AT:100:ILE:CA	1:GA:179:A:N3	2.30	0.93
22:BB:7:G:C2	22:BB:2870:C:O2	2.21	0.93
22:BB:348:U:H5''	42:BV:13:LYS:HE3	1.46	0.93
22:BB:58:C:O2'	45:BY:44:ARG:NH1	2.00	0.93
25:BE:144:ARG:HD2	25:BE:146:THR:H	1.32	0.93
25:BE:18:ASP:HA	37:BQ:87:LEU:CD1	1.97	0.93
22:BB:628:A:OP1	26:BF:100:ARG:NH1	2.00	0.93
32:BL:113:PRO:CG	37:BQ:75:GLU:C	2.27	0.93
25:BE:6:GLY:C	37:BQ:3:THR:OG1	2.07	0.93
1:CA:523:A:H61	12:CL:90:VAL:C	1.70	0.93
22:DB:1999:U:O2'	48:D2:6:VAL:HB	1.69	0.93
22:DB:2411:A:N3	47:D1:27:THR:OG1	2.00	0.93
22:DB:2628:C:H4'	32:DL:29:ILE:HD12	1.49	0.93
22:DB:1007:A:C3'	38:DR:93:LYS:N	2.25	0.93
23:DA:106:U:O3'	43:DW:88:TYR:HB3	1.68	0.93
1:EA:436:C:H5'	4:ED:156:GLU:HB2	1.49	0.93
1:EA:1093:A:P	7:EG:4:ARG:NH2	2.42	0.93
22:FB:2040:A:C2'	48:F2:3:LYS:CB	2.46	0.93

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:FB:2262:C:H4'	49:F3:3:LYS:NZ	1.82	0.93
22:FB:940:G:HO2'	46:FZ:34:VAL:HG22	1.18	0.93
22:FB:1291:G:O3'	35:FO:33:ARG:O	1.86	0.93
1:GA:1350:A:H62	9:GI:118:LYS:CE	1.81	0.93
1:GA:19:C:OP1	5:GE:127:ASN:CB	2.16	0.93
1:GA:29:G:H4'	1:GA:295:C:H4'	1.49	0.93
1:GA:331:G:O6	20:GT:9:ASN:O	1.86	0.93
1:GA:720:C:H4'	18:GR:50:ILE:O	1.68	0.93
22:HB:1166:A:O5'	38:HR:55:ARG:NH2	2.02	0.93
22:HB:2062:U:C3'	47:H1:32:HIS:CE1	2.51	0.93
25:HE:144:ARG:HD2	25:HE:146:THR:H	1.32	0.93
22:HB:818:G:C4'	33:HM:41:SER:HB3	1.97	0.93
22:HB:2463:G:N3	34:HN:121:LEU:CD1	2.30	0.93
22:HB:2448:A:C4'	34:HN:57:ARG:NH1	2.24	0.93
32:HL:88:THR:O	37:HQ:81:PHE:HB2	0.76	0.93
22:HB:511:A:C3'	40:HT:16:GLN:CD	2.34	0.93
1:IA:1206:G:H5''	3:IC:192:THR:O	1.65	0.93
1:IA:261:U:N3	20:IT:79:ARG:NH1	2.15	0.93
1:IA:815:A:N3	1:IA:1527:C:O2	2.01	0.93
10:IJ:46:ARG:NH1	14:IN:59:ALA:HB1	1.84	0.93
22:JB:474:G:H2'	50:J4:5:TYR:CD1	2.04	0.93
22:JB:1268:U:H2'	26:JF:66:ASN:HB2	1.47	0.93
22:JB:1999:U:O4'	48:J2:3:LYS:CG	2.15	0.93
22:JB:677:G:H2'	22:JB:678:G:H8	1.19	0.93
22:JB:891:A:C6	22:JB:909:C:N4	2.36	0.93
22:JB:1265:G:C5'	38:JR:10:ARG:HE	1.77	0.93
1:AA:559:A:N6	5:AE:126:ARG:NE	1.95	0.93
1:AA:1239:A:H2'	7:AG:115:ARG:CD	1.98	0.93
1:AA:939:G:O2'	7:AG:29:LYS:CD	2.17	0.93
9:AI:10:ARG:HA	9:AI:104:ARG:HG3	1.49	0.93
1:AA:1128:C:H5'	9:AI:16:ARG:HH11	1.14	0.93
22:BB:1143:A:H1'	31:BK:101:THR:CB	1.98	0.93
22:BB:1809:G:H4'	24:BD:157:ARG:HH12	0.78	0.93
22:BB:2856:U:C5'	35:BO:94:TYR:N	2.31	0.93
22:BB:2856:U:H5'	35:BO:94:TYR:CA	1.98	0.93
22:BB:1954:A:C5	24:BD:239:ARG:HA	2.04	0.93
32:BL:20:MET:HB3	32:BL:54:SER:HB2	1.50	0.93
22:BB:497:C:O2'	40:BT:80:LEU:HD12	1.69	0.93
22:BB:1325:U:C4	41:BU:61:LYS:HG3	2.03	0.93
1:CA:1373:G:H5''	7:CG:36:LYS:HB2	1.48	0.93
1:CA:980:C:O2	14:CN:21:TYR:CZ	2.21	0.93

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:587:G:C4'	8:CH:3:THR:O	2.16	0.93
22:DB:2492:G:H3'	22:DB:2493:U:C5	2.03	0.93
22:DB:338:G:H21	42:DV:10:HIS:CE1	1.85	0.93
22:DB:1835:C:H5''	24:DD:255:LYS:HZ1	1.13	0.93
25:DE:151:TYR:C	31:DK:106:TYR:HH	1.71	0.93
22:DB:2463:G:N3	34:DN:120:ARG:NH2	2.17	0.93
22:FB:661:C:H5'	51:F5:17:THR:HG22	1.47	0.93
22:FB:1402:G:N3	22:FB:1412:C:O2	2.00	0.93
22:FB:2284:U:O2'	27:FG:151:GLY:HA3	1.66	0.93
22:FB:2551:A:C5	25:FE:144:ARG:CB	2.36	0.93
22:FB:2591:C:C2	48:F2:2:ALA:CB	2.35	0.93
29:FI:27:ASN:OD1	47:F1:46:GLU:OE2	1.87	0.93
22:FB:1163:C:O4'	38:FR:78:THR:HA	1.65	0.93
22:HB:1586:A:O3'	22:HB:1587:A:P	2.25	0.93
22:HB:2365:U:C2'	44:HX:37:LEU:CD1	2.47	0.93
22:HB:2760:G:H1'	31:HK:149:LYS:HD2	1.48	0.93
22:HB:1805:G:H21	24:HD:51:SER:HB3	1.28	0.93
41:HU:91:LEU:HD13	45:HY:24:GLU:CG	1.98	0.93
1:IA:751:U:O2'	15:IO:69:TYR:CZ	2.08	0.93
9:II:10:ARG:HA	9:II:104:ARG:HG3	1.49	0.93
12:IL:11:VAL:HB	17:IQ:36:ILE:CB	1.97	0.93
22:JB:2399:C:N1	51:J5:32:GLN:HB3	1.81	0.93
22:JB:2861:A:C2	48:J2:31:THR:OG1	2.20	0.93
22:JB:2464:G:HO2'	34:JN:123:GLY:HA2	1.33	0.93
22:JB:2669:C:O3'	35:JO:17:ARG:NH2	1.98	0.93
34:JN:32:ASP:OD1	43:JW:117:VAL:HG23	1.68	0.93
22:JB:1197:U:C4'	46:JZ:26:ARG:NH2	2.31	0.93
1:AA:1307:U:C4'	13:AM:109:THR:CG2	2.47	0.93
1:AA:1483:A:N3	22:BB:1942:G:N2	2.16	0.93
1:AA:346:G:OP1	37:BQ:51:GLU:OE1	1.86	0.93
1:AA:939:G:HO2'	7:AG:29:LYS:HD2	1.34	0.93
1:AA:740:U:N1	15:AO:42:HIS:HE1	1.56	0.93
22:BB:1805:G:H5'	24:BD:43:ARG:CA	1.90	0.93
22:BB:2724:G:C2'	28:BH:143:GLN:HG3	1.97	0.93
1:CA:29:G:H4'	1:CA:295:C:H4'	1.48	0.93
1:CA:407:G:H4'	4:CD:116:GLN:CA	1.99	0.93
1:CA:619:U:N3	4:CD:133:VAL:HA	1.83	0.93
22:DB:2411:A:C4	47:D1:27:THR:CA	2.52	0.93
29:DI:26:ARG:NH2	47:D1:46:GLU:OE2	2.02	0.93
22:DB:2040:A:N1	48:D2:2:ALA:CA	2.32	0.93
22:DB:538:A:H3'	31:DK:139:ARG:NE	1.83	0.93

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:DA:92:G:N1	34:DN:39:GLU:HG3	1.81	0.93
41:DU:88:ILE:HG12	41:DU:90:ALA:H	1.34	0.93
1:EA:1117:G:C1'	9:EI:104:ARG:NH2	2.30	0.93
1:EA:29:G:H4'	1:EA:295:C:H4'	1.48	0.93
22:FB:3:U:N3	22:FB:2874:A:N1	2.15	0.93
22:FB:491:A:H5''	42:FV:55:THR:HG21	0.93	0.93
22:FB:705:C:OP1	24:FD:43:ARG:NE	2.01	0.93
22:FB:969:U:H3	34:FN:20:GLY:HA2	1.28	0.93
22:FB:591:G:H5''	38:FR:11:ARG:NH1	1.83	0.93
22:FB:573:C:C1'	38:FR:37:GLN:OE1	2.17	0.93
22:FB:63:A:N3	41:FU:62:ARG:HA	1.83	0.93
1:GA:1483:A:N6	22:HB:1942:G:O2'	2.01	0.93
1:GA:1373:G:H5''	7:GG:36:LYS:H	1.28	0.93
1:GA:1360:A:OP2	14:GN:21:TYR:CB	2.15	0.93
22:HB:2398:U:H4'	49:H3:21:TYR:CE2	2.03	0.93
22:HB:57:G:OP1	41:HU:75:ARG:CZ	2.17	0.93
22:HB:514:G:H1	40:HT:14:ARG:HG2	1.15	0.93
22:HB:1129:A:C4'	43:HW:76:ARG:HH11	1.68	0.93
22:HB:2310:G:H4'	44:HX:70:ILE:O	1.69	0.93
1:IA:1316:G:O6	19:IS:5:LEU:O	1.85	0.93
1:IA:641:U:H5'	8:IH:116:LYS:CB	1.99	0.93
1:IA:1221:G:O2'	19:IS:77:THR:HG21	1.69	0.93
22:JB:1041:G:H21	52:J6:6:SER:CB	1.82	0.93
22:JB:114:C:C1'	22:JB:124:A:H1'	1.98	0.93
22:JB:1197:U:OP1	46:JZ:26:ARG:HG3	1.69	0.93
22:JB:2260:C:O2'	22:JB:2368:G:N3	2.00	0.93
22:JB:2225:G:N2	22:JB:2405:A:O2'	2.02	0.93
22:JB:3119:A:H61	53:J7:101:LYS:NZ	1.56	0.93
22:JB:787:A:P	24:JD:48:ARG:HB3	2.07	0.93
22:JB:910:U:C2	22:JB:911:A:H5''	2.01	0.93
22:JB:1745:C:O2'	37:JQ:113:LYS:HE2	1.66	0.93
1:AA:559:A:H61	5:AE:126:ARG:NE	1.37	0.93
1:AA:939:G:O2'	7:AG:29:LYS:HD2	1.68	0.93
1:AA:975:A:C5	14:AN:34:TYR:CE1	2.57	0.93
1:AA:1349:A:C2	7:AG:33:ASP:O	2.22	0.93
1:AA:1131:G:C5'	9:AI:2:GLU:HG3	1.98	0.93
22:BB:1236:G:H3'	39:BS:87:ARG:HD3	1.48	0.93
22:BB:1488:G:N1	22:BB:1535:C:N3	2.15	0.93
22:BB:2310:G:H5'	44:BX:71:ASN:CA	1.97	0.93
23:BA:59:A:O2'	27:BG:22:TYR:HE2	1.49	0.93
32:BL:114:VAL:HG21	32:BL:130:ALA:HB1	1.49	0.93

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:BM:61:PRO:HG2	51:B5:12:ARG:CD	1.98	0.93
22:BB:137:A:O2'	41:BU:36:THR:HG22	1.66	0.93
1:CA:1060:C:C5	3:CC:2:GLY:CA	2.51	0.93
1:CA:969:A:C4'	10:CJ:55:LYS:NZ	2.28	0.93
1:CA:827:U:OP1	8:CH:21:LYS:HE3	1.67	0.93
1:CA:943:U:C1'	9:CI:124:GLN:HE22	1.80	0.93
1:CA:1231:G:C5	13:CM:126:LYS:HG2	2.03	0.93
22:DB:2713:A:C8	25:DE:205:SER:CA	2.49	0.93
22:DB:2708:U:C4'	25:DE:21:ILE:HD11	1.98	0.93
32:DL:113:PRO:HD2	37:DQ:75:GLU:O	1.69	0.93
22:FB:346:C:O2	42:FV:79:SER:CA	2.14	0.93
22:FB:2661:G:C1'	25:FE:11:MET:CE	2.40	0.93
22:FB:2736:U:O4	28:FH:67:LEU:CD2	2.16	0.93
23:FA:116:C:C4'	36:FP:50:THR:HB	1.96	0.93
37:FQ:55:ILE:HD13	37:FQ:55:ILE:H	1.33	0.93
43:FW:65:LEU:CD2	43:FW:128:ARG:CZ	2.47	0.93
1:GA:21:G:H21	1:GA:914:A:H62	0.94	0.93
1:GA:1115:C:H1'	14:GN:61:TRP:CD1	2.03	0.93
22:HB:1236:G:C6	39:HS:71:ILE:HD11	2.03	0.93
22:HB:2646:C:C6	28:HH:109:TYR:HD2	1.84	0.93
22:HB:71:A:C5	45:HY:58:ALA:CB	2.28	0.93
22:HB:868:U:O2	44:HX:25:LYS:CD	2.16	0.93
32:HL:91:PHE:HA	37:HQ:79:ARG:HD3	1.50	0.93
1:IA:865:A:C5'	1:IA:1078:U:O4	2.16	0.93
1:IA:1107:C:H4'	3:IC:150:LYS:HZ2	1.26	0.93
1:IA:1190:G:OP2	3:IC:4:LYS:CA	2.17	0.93
1:IA:684:A:N9	11:IK:39:PRO:HD2	1.84	0.93
3:IC:23:TYR:CZ	10:IJ:93:GLY:C	2.41	0.93
6:IF:2:ARG:NH2	15:IO:2:PRO:HG3	1.82	0.93
22:JB:410:A:C5'	47:J1:58:LYS:HD2	1.98	0.93
22:JB:1813:A:H4'	24:JD:157:ARG:HH21	1.18	0.93
22:JB:1996:A:H5''	40:JT:116:ILE:C	1.86	0.93
22:JB:2001:G:N2	38:JR:34:ASN:HD21	1.66	0.93
22:JB:2471:U:O3'	22:JB:2472:U:P	2.27	0.93
22:JB:3175:C:H4'	53:J7:31:GLU:CD	1.89	0.93
22:JB:791:G:H5'	24:JD:49:ILE:HD12	1.51	0.93
22:JB:1808:C:C5	24:JD:65:ILE:HG23	2.03	0.93
32:JL:90:ARG:HE	32:JL:91:PHE:H	1.01	0.93
22:JB:633:G:C3'	33:JM:98:LEU:CD2	2.46	0.93
22:JB:509:U:O4'	42:JV:54:ILE:HG21	0.86	0.93
43:JW:51:LEU:CB	43:JW:128:ARG:NH2	2.30	0.93

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:178:C:OP1	20:AT:65:LYS:NZ	2.00	0.93
1:AA:877:C:O2	8:AH:3:THR:HB	1.67	0.93
1:AA:1441:G:N1	20:AT:27:LYS:NZ	2.16	0.93
22:BB:489:A:C5'	42:BV:4:PRO:C	2.27	0.93
22:BB:627:A:P	26:BF:33:TRP:HH2	1.92	0.93
1:AA:711:G:O2'	24:BD:184:ARG:NH1	2.00	0.93
22:BB:1789:U:H5''	24:BD:257:LEU:HD13	1.50	0.93
23:BA:92:G:C2'	34:BN:22:ALA:HB2	1.98	0.93
34:BN:63:GLY:HA2	43:BW:112:LEU:HD23	0.93	0.93
1:CA:407:G:C2	4:CD:157:LEU:HD11	2.03	0.93
22:DB:2063:A:O5'	47:D1:20:VAL:CG2	2.17	0.93
22:DB:487:G:O3'	22:DB:488:A:P	2.27	0.93
22:DB:1583:A:H61	24:DD:89:SER:CB	1.82	0.93
34:DN:36:ILE:HG13	43:DW:74:ARG:N	1.84	0.93
1:EA:279:A:H2	17:EQ:97:SER:O	1.42	0.93
22:FB:114:C:H5''	50:F4:19:ARG:NH1	1.56	0.93
22:FB:1741:G:H1'	22:FB:2835:A:C2	2.04	0.93
22:FB:1203:A:H5''	33:FM:36:GLY:H	1.21	0.93
22:FB:1292:A:H5''	35:FO:33:ARG:CB	1.73	0.93
1:GA:1187:G:C2	14:GN:60:SER:OG	2.21	0.93
1:GA:1191:A:OP1	3:GC:3:ASN:CG	2.07	0.93
22:HB:2861:A:C5	48:H2:40:LYS:NZ	2.32	0.93
22:HB:699:G:O2'	50:H4:6:GLN:HB2	1.68	0.93
22:HB:2398:U:H5''	51:H5:34:THR:H	1.23	0.93
22:HB:2737:A:H62	52:H6:18:ARG:NH1	1.65	0.93
22:HB:1090:C:C1'	30:HJ:132:ARG:NE	2.30	0.93
22:HB:3875:A:H2'	53:H7:43:LYS:HB2	1.51	0.93
22:HB:648:A:C2	33:HM:110:ALA:C	2.42	0.93
22:HB:7:G:O6	22:HB:2870:C:C4	2.20	0.93
23:HA:48:A:C1'	36:HP:4:ALA:N	2.32	0.93
37:HQ:55:ILE:HD13	37:HQ:55:ILE:H	1.33	0.93
1:IA:1321:C:H5''	13:IM:87:TYR:HE2	1.30	0.93
1:IA:1409:C:C5'	22:JB:1898:U:O4	2.16	0.93
1:IA:751:U:C3'	15:IO:77:ARG:HH12	1.80	0.93
12:IL:11:VAL:CG1	17:IQ:36:ILE:CD1	2.30	0.93
22:JB:3124:G:C5'	53:J7:62:LYS:N	2.25	0.93
23:JA:92:G:H21	34:JN:22:ALA:CA	1.81	0.93
22:JB:2847:G:H21	35:JO:8:ARG:C	1.67	0.93
22:JB:2043:A:H8	26:JF:62:LYS:HE2	1.32	0.93
22:JB:2742:G:H21	28:JH:150:LYS:NZ	1.49	0.93
22:JB:3187:U:C5'	29:JI:11:LEU:CD2	2.45	0.93

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:JB:2463:G:H5'	34:JN:47:GLN:HG2	1.50	0.93
1:AA:21:G:H21	1:AA:914:A:H62	0.93	0.93
13:AM:83:ASP:O	13:AM:93:ARG:CD	2.15	0.93
13:AM:90:LEU:HD11	19:AS:76:PRO:HD3	1.48	0.93
22:BB:2343:C:O2	44:BX:66:LYS:HD2	1.67	0.93
22:BB:2015:G:C2	22:BB:2551:A:H2	1.86	0.93
22:BB:2598:C:O2'	25:BE:154:LYS:NZ	2.00	0.93
22:BB:2503:G:N2	22:BB:2720:A:C2	2.35	0.93
32:BL:113:PRO:HG2	37:BQ:76:GLY:N	1.84	0.93
22:BB:2343:C:C2'	44:BX:66:LYS:HD2	1.98	0.93
22:DB:2738:A:O2'	28:DH:64:LEU:HD11	1.66	0.93
22:DB:2728:A:C3'	28:DH:67:LEU:HD13	1.98	0.93
22:DB:2619:G:P	31:DK:122:HIS:CE1	2.61	0.93
1:EA:1100:C:C5	2:EB:98:LEU:CD1	2.52	0.93
1:EA:1525:G:P	11:EK:127:LYS:HZ2	1.92	0.93
1:EA:1100:C:C2'	2:EB:98:LEU:HD23	1.79	0.93
1:EA:621:A:H5'	4:ED:139:ARG:HE	1.33	0.93
22:FB:1111:C:H1'	28:FH:168:GLN:HE21	1.32	0.93
22:FB:2259:G:N2	22:FB:2367:A:N3	2.16	0.93
22:FB:2608:A:O3'	22:FB:2609:G:P	2.27	0.93
22:FB:2786:G:C5'	25:FE:59:VAL:HA	1.99	0.93
22:FB:1516:A:C1'	24:FD:98:ALA:HB1	1.95	0.93
3:GC:28:GLN:HB3	3:GC:32:LEU:HD22	1.49	0.93
1:GA:273:A:C2'	17:GQ:15:MET:HG2	1.98	0.93
1:GA:663:A:OP1	18:GR:65:ILE:HD12	1.69	0.93
1:GA:175:C:H4'	20:GT:25:ARG:HG2	0.93	0.93
22:HB:2789:U:C1'	48:H2:30:LEU:CD1	2.32	0.93
22:HB:2329:C:O5'	51:H5:42:ARG:HD2	1.67	0.93
22:HB:221:A:C5'	33:HM:68:VAL:CA	2.29	0.93
22:HB:602:C:H1'	51:H5:2:PRO:N	1.84	0.93
22:HB:94:C:H2'	45:HY:41:HIS:HD1	1.10	0.93
22:HB:2619:G:OP1	31:HK:122:HIS:ND1	2.02	0.93
1:IA:653:A:H61	8:IH:29:SER:HB2	1.34	0.93
1:IA:1186:G:C2'	9:II:113:LYS:CE	2.44	0.93
22:JB:1087:C:O2'	30:JJ:91:PRO:O	1.86	0.93
22:JB:2811:G:OP1	37:JQ:5:ILE:O	1.85	0.93
43:JW:84:TYR:CZ	43:JW:92:VAL:HG22	2.03	0.93
1:AA:15:G:C4	5:AE:18:ARG:O	1.99	0.93
1:AA:552:U:H1'	12:AL:31:PRO:HB2	1.50	0.93
22:BB:1043:A:H2'	52:B6:16:VAL:HB	0.93	0.93
22:BB:658:G:N3	22:BB:2330:G:OP1	2.02	0.93

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:BB:2372:A:H4'	33:BM:60:LEU:C	1.88	0.93
22:BB:2543:A:N6	22:BB:2625:U:O2'	2.02	0.93
22:BB:419:G:C5'	53:B7:198:THR:CG2	2.47	0.93
22:BB:613:A:H61	33:BM:97:ARG:CB	1.82	0.93
22:BB:678:G:OP1	33:BM:38:LYS:CE	2.16	0.93
22:BB:857:U:O4	22:BB:943:U:N3	2.00	0.93
22:BB:969:U:O4	34:BN:21:ASP:N	2.00	0.93
1:CA:1239:A:C3'	7:CG:115:ARG:HG3	1.95	0.93
23:DA:105:G:N2	43:DW:24:TYR:CD2	2.37	0.93
22:DB:930:A:C8	23:DA:83:C:H5'	2.04	0.93
22:DB:1007:A:O2'	38:DR:92:ARG:N	2.02	0.93
22:DB:1044:U:C5	52:D6:16:VAL:HG13	2.04	0.93
22:DB:1481:U:O4'	22:DB:1561:A:C6	2.22	0.93
22:DB:1583:A:H62	24:DD:89:SER:HA	1.32	0.93
22:DB:507:A:OP2	40:DT:21:ARG:N	2.01	0.93
1:EA:437:U:P	4:ED:155:LEU:HD22	2.07	0.93
22:FB:219:G:C3'	51:F5:3:LYS:HB3	1.99	0.93
25:FE:19:ARG:NH2	37:FQ:65:SER:CB	1.74	0.93
22:FB:2364:C:O2'	44:FX:37:LEU:HD11	0.75	0.93
1:GA:1059:C:HO2'	10:GJ:52:GLY:HA3	1.30	0.93
22:HB:643:A:H2	22:HB:2382:C:C1'	1.82	0.93
22:HB:504:G:H5'	40:HT:25:PHE:CE2	2.03	0.93
22:HB:505:G:N2	40:HT:80:LEU:HB3	1.83	0.93
22:HB:505:G:H4'	40:HT:83:ASP:HB2	1.50	0.93
1:IA:192:U:O3'	20:IT:57:ARG:NH2	2.02	0.93
1:IA:824:C:H1'	8:IH:3:THR:HG23	1.48	0.93
22:JB:3167:U:C5'	53:J7:97:LYS:HE2	1.76	0.93
22:JB:1090:C:H1'	30:JJ:132:ARG:HE	1.31	0.93
22:JB:839:U:H5''	22:JB:2407:G:O3'	1.68	0.93
43:JW:48:THR:CG2	43:JW:130:ILE:HD13	1.92	0.93
22:JB:75:C:C2	45:JY:56:VAL:CG1	2.44	0.93
22:JB:1001:A:H5''	46:JZ:27:LYS:NZ	1.81	0.93
1:AA:273:A:C2	17:AQ:15:MET:CB	2.52	0.93
1:AA:953:G:H5'	13:AM:124:PRO:HD3	1.50	0.93
22:BB:1416:A:C4'	22:BB:1485:U:C1'	2.46	0.93
22:BB:2489:C:H1'	25:BE:126:PRO:HD2	1.47	0.93
22:BB:2860:C:O4'	48:B2:53:ASP:OD2	1.85	0.93
25:BE:18:ASP:CA	37:BQ:87:LEU:CD1	2.47	0.93
41:BU:88:ILE:HG12	41:BU:90:ALA:H	1.34	0.93
1:CA:1077:G:C6	5:CE:45:PHE:CE2	2.57	0.93
1:CA:1239:A:H2'	7:CG:115:ARG:HD2	1.48	0.93

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:740:U:O2	15:CO:52:SER:OG	1.85	0.93
1:CA:1190:G:H4'	3:CC:176:HIS:HE1	1.23	0.93
22:DB:2039:G:HO2'	48:D2:5:PRO:HA	1.23	0.93
23:DA:78:A:N3	43:DW:22:VAL:HB	1.84	0.93
22:DB:1437:A:H3'	22:DB:1438:G:OP2	1.69	0.93
22:DB:2760:G:H4'	31:DK:149:LYS:HD2	0.97	0.93
22:DB:503:G:H4'	40:DT:29:LYS:HD2	1.51	0.93
22:DB:574:C:OP2	39:DS:79:GLN:CA	2.16	0.93
22:DB:575:U:C5	39:DS:80:TYR:O	2.22	0.93
25:DE:26:VAL:CG2	37:DQ:3:THR:HG21	1.78	0.93
38:DR:47:TYR:O	39:DS:74:TYR:CD1	2.21	0.93
1:EA:1073:U:H1'	2:EB:107:THR:CG2	1.99	0.93
3:EC:28:GLN:HB3	3:EC:32:LEU:HD22	1.48	0.93
40:FT:60:ILE:HG21	48:F2:25:LEU:CD1	1.91	0.93
22:FB:2399:C:C3'	51:F5:32:GLN:CD	2.33	0.93
22:FB:1290:A:O3'	35:FO:35:GLN:O	1.86	0.93
22:FB:2372:A:C1'	33:FM:59:ARG:HG2	1.93	0.93
22:FB:827:C:N4	33:FM:32:ARG:HE	1.67	0.93
22:FB:455:A:C2'	38:FR:2:PRO:HD2	1.98	0.93
38:FR:47:TYR:CA	39:FS:74:TYR:CA	2.37	0.93
38:FR:45:TYR:N	39:FS:76:SER:OG	2.02	0.93
43:FW:51:LEU:HB3	43:FW:128:ARG:NH2	1.80	0.93
43:FW:84:TYR:CB	43:FW:93:GLU:CD	2.38	0.93
7:GG:153:HIS:NE2	11:GK:58:PRO:HG2	1.83	0.93
10:GJ:11:PHE:CD1	14:GN:54:PRO:CB	2.51	0.93
22:HB:1584:G:OP2	24:HD:59:LYS:HG2	1.69	0.93
22:HB:3167:U:H5	53:H7:98:ARG:CD	1.77	0.93
22:HB:2373:C:OP1	33:HM:62:LYS:C	2.07	0.93
34:HN:66:TYR:HB2	43:HW:115:ILE:HG21	1.51	0.93
25:HE:76:ARG:NH2	37:HQ:2:GLN:OE1	2.01	0.93
22:HB:1265:G:O6	38:HR:36:PHE:HE1	1.22	0.93
22:HB:935:C:H5'	44:HX:26:PHE:CE2	2.04	0.93
13:IM:86:CYS:CB	19:IS:74:PHE:CD2	2.51	0.93
22:JB:2210:C:H5'	47:J1:39:VAL:HG23	0.93	0.93
22:JB:2399:C:C4'	51:J5:33:ASN:H	1.81	0.93
22:JB:1807:A:H4'	24:JD:63:ARG:HH11	1.30	0.93
22:JB:1817:U:OP1	24:JD:247:VAL:HG21	1.68	0.93
22:JB:2490:U:H4'	25:JE:124:GLY:C	1.89	0.93
34:JN:36:ILE:HG13	43:JW:74:ARG:NH2	1.83	0.93
1:AA:1279:A:C6	10:AJ:43:ARG:NH2	2.37	0.92
1:AA:1307:U:C3'	13:AM:109:THR:HG21	1.98	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:624:C:O3'	16:AP:10:GLY:HA3	1.66	0.92
35:BO:99:ARG:CD	48:B2:44:HIS:CD2	2.51	0.92
22:BB:1398:G:N1	22:BB:1416:A:N6	2.17	0.92
22:BB:1789:U:C5'	24:BD:257:LEU:CD1	2.21	0.92
22:BB:1834:G:C1'	24:BD:244:ARG:HG3	1.98	0.92
22:BB:2343:C:O2	44:BX:66:LYS:HD3	1.67	0.92
1:CA:1256:A:H61	3:CC:26:LYS:HZ3	0.95	0.92
1:CA:597:G:H21	8:CH:132:GLU:HG3	1.34	0.92
13:CM:87:TYR:O	13:CM:91:ARG:CD	2.17	0.92
13:CM:90:LEU:CD1	19:CS:76:PRO:HD3	1.99	0.92
22:DB:176:A:C4	47:D1:30:GLU:HB3	2.04	0.92
22:DB:1050:G:O5'	43:DW:37:LYS:CE	2.17	0.92
22:DB:2393:G:H21	33:DM:66:ASN:HD21	1.04	0.92
22:DB:487:G:H21	22:DB:491:A:H62	1.17	0.92
22:DB:6:A:N3	31:DK:162:LYS:HE2	1.83	0.92
22:DB:810:U:C5	26:DF:56:ARG:NH2	2.37	0.92
31:DK:41:TRP:HB3	31:DK:78:ASP:HB3	1.47	0.92
34:DN:63:GLY:HA2	43:DW:115:ILE:HD11	0.93	0.92
22:FB:15:G:H2'	48:F2:18:MET:HG3	1.51	0.92
22:FB:2638:G:N7	28:FH:180:GLY:CA	2.31	0.92
22:FB:863:C:H1'	46:FZ:43:MET:HG3	1.50	0.92
22:FB:980:G:P	46:FZ:14:GLY:H	1.91	0.92
22:FB:2679:G:H21	35:FO:68:GLN:CG	1.82	0.92
22:HB:15:G:OP1	48:H2:20:ARG:NH1	2.01	0.92
22:HB:234:C:O2	33:HM:104:ARG:NH2	2.02	0.92
22:HB:2494:C:P	31:HK:108:GLY:HA3	2.09	0.92
22:HB:8:A:O5'	31:HK:36:ASN:ND2	1.96	0.92
1:IA:1348:U:P	9:II:118:LYS:NZ	2.42	0.92
1:IA:919:A:C5	1:IA:920:U:H5	1.82	0.92
1:IA:646:U:O2'	17:IQ:81:ARG:NE	1.87	0.92
22:JB:2323:U:OP1	49:J3:39:LYS:HD2	1.67	0.92
22:JB:113:C:C2'	22:JB:124:A:O2'	2.17	0.92
22:JB:1167:A:H5''	22:JB:1168:G:C8	2.03	0.92
22:JB:2209:G:H1'	47:J1:40:HIS:O	1.68	0.92
22:JB:2407:G:OP1	22:JB:2408:G:OP1	1.87	0.92
22:JB:2689:C:OP1	35:JO:15:SER:OG	1.84	0.92
22:JB:1750:A:H4'	22:JB:2695:C:O4'	1.69	0.92
22:JB:509:U:C1'	42:JV:54:ILE:HG22	1.90	0.92
22:JB:1807:A:H5'	24:JD:63:ARG:NH1	1.73	0.92
1:AA:264:U:O2	17:AQ:64:PRO:HB2	1.70	0.92
1:AA:668:G:H2'	15:AO:45:VAL:HG11	1.49	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1307:U:H4'	13:AM:109:THR:HB	1.50	0.92
22:BB:2769:C:C2	22:BB:2867:G:C2	2.58	0.92
22:BB:2645:C:N4	28:BH:109:TYR:HB3	1.84	0.92
1:CA:1360:A:H5'	14:CN:35:ARG:NH2	1.82	0.92
1:CA:559:A:N3	5:CE:124:GLY:O	2.01	0.92
22:DB:1234:C:C4'	39:DS:68:LYS:CD	2.47	0.92
22:DB:1883:A:C5	22:DB:1953:A:C6	2.57	0.92
1:CA:772:U:O2	24:DD:5:LYS:HE2	1.68	0.92
25:DE:151:TYR:HD2	31:DK:106:TYR:CE1	1.85	0.92
22:DB:456:C:O4'	38:DR:2:PRO:CG	2.16	0.92
1:EA:1151:A:OP1	10:EJ:44:VAL:CG2	2.17	0.92
22:FB:1613:G:H4'	22:FB:1614:C:C2	2.04	0.92
22:FB:2600:A:H4'	25:FE:159:HIS:H	1.35	0.92
22:FB:980:G:H5'	46:FZ:13:PRO:N	1.83	0.92
38:FR:43:ALA:C	39:FS:75:LYS:HB2	1.86	0.92
1:GA:778:G:H21	11:GK:120:ARG:HD2	0.76	0.92
1:GA:36:C:O3'	12:GL:117:ARG:CD	2.00	0.92
22:HB:2064:U:P	47:H1:33:VAL:HG11	2.09	0.92
22:HB:1861:G:OP2	22:HB:1862:C:OP2	1.85	0.92
22:HB:2629:U:H5'	32:HL:29:ILE:CD1	1.79	0.92
32:HL:53:ALA:HB3	32:HL:72:ALA:HB3	1.51	0.92
22:HB:71:A:H4'	45:HY:54:ASN:HB2	1.50	0.92
22:JB:2374:C:O2	47:J1:28:ARG:CZ	2.17	0.92
22:JB:2652:G:H4'	32:JL:46:HIS:HE1	1.15	0.92
22:JB:3177:C:O2'	53:J7:161:ASP:OD2	1.87	0.92
22:JB:635:C:P	51:J5:63:PRO:HG3	2.07	0.92
22:JB:846:A:H1'	33:JM:53:ARG:HD2	0.96	0.92
23:JA:14:C:H6	44:JX:53:MET:HB3	1.30	0.92
1:AA:29:G:H4'	1:AA:295:C:H4'	1.48	0.92
1:AA:669:U:O4'	15:AO:45:VAL:HG11	1.68	0.92
22:BB:1414:G:N2	22:BB:1484:G:N2	2.17	0.92
22:BB:177:U:H5'	47:B1:31:ILE:HG12	0.95	0.92
22:BB:2503:G:C1'	22:BB:2744:A:C2	2.52	0.92
22:BB:3123:G:N3	53:B7:33:ILE:HD11	1.84	0.92
32:BL:91:PHE:N	37:BQ:79:ARG:NH1	1.93	0.92
22:BB:596:C:H2'	33:BM:29:THR:HG21	1.51	0.92
22:BB:504:G:H22	40:BT:77:ALA:HB3	1.34	0.92
1:CA:1318:A:C2	19:CS:37:ARG:NH1	2.38	0.92
1:CA:582:U:H4'	15:CO:68:ARG:HH22	1.32	0.92
1:CA:1224:G:HO2'	13:CM:102:ARG:HB3	1.28	0.92
34:DN:38:MET:CB	43:DW:74:ARG:CG	2.37	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:EA:452:A:OP2	16:EP:43:LYS:CD	2.17	0.92
1:EA:521:G:C6	12:EL:53:ARG:NH2	2.37	0.92
10:EJ:62:HIS:O	14:EN:59:ALA:HB3	1.68	0.92
22:FB:2262:C:O5'	49:F3:3:LYS:NZ	2.00	0.92
22:FB:2325:A:H61	49:F3:27:ASN:HD22	0.96	0.92
22:FB:2692:A:H2'	35:FO:14:SER:CB	1.99	0.92
22:FB:2292:C:O3'	27:FG:88:LYS:CD	2.18	0.92
32:FL:53:ALA:HB3	32:FL:72:ALA:HB3	1.51	0.92
34:FN:106:GLU:HG2	43:FW:115:ILE:CD1	1.99	0.92
22:FB:1041:G:H5'	34:FN:119:PHE:HZ	1.34	0.92
22:FB:2464:G:H4'	34:FN:122:ALA:C	1.90	0.92
1:GA:126:G:H5''	1:GA:604:G:H21	1.30	0.92
1:GA:1080:A:C4'	5:GE:16:THR:OG1	2.17	0.92
1:GA:824:C:C2'	8:GH:2:LEU:HD22	1.99	0.92
10:GJ:11:PHE:CE1	14:GN:54:PRO:HG2	2.03	0.92
1:GA:236:G:C4'	17:GQ:25:ARG:NE	2.28	0.92
22:HB:15:G:OP1	48:H2:20:ARG:CZ	2.16	0.92
22:HB:2591:C:C2'	48:H2:4:HIS:CA	2.47	0.92
22:HB:3121:G:O3'	53:H7:160:LYS:NZ	2.01	0.92
22:HB:891:A:H1'	22:HB:893:G:C5	2.05	0.92
22:HB:597:U:O2'	26:HF:84:PHE:HZ	1.26	0.92
22:HB:1325:U:O4	41:HU:59:PRO:HG2	1.68	0.92
22:HB:2334:C:H1'	44:HX:32:LYS:HE3	1.48	0.92
1:IA:1158:C:O2'	2:IB:133:LYS:HD2	1.68	0.92
1:EA:1264:C:H4'	1:IA:1273:G:C2	1.99	0.92
1:IA:29:G:H4'	1:IA:295:C:H4'	1.49	0.92
1:IA:673:G:H4'	6:IF:87:ARG:HE	1.33	0.92
1:IA:966:G:H4'	9:II:127:LYS:CE	1.99	0.92
22:JB:3122:U:O2'	53:J7:158:LYS:HD2	1.69	0.92
22:JB:3177:C:OP1	53:J7:163:PRO:HG2	1.70	0.92
22:JB:3178:C:C3'	53:J7:39:ILE:HD12	1.99	0.92
22:JB:2371:A:H5''	51:J5:29:LYS:CD	1.99	0.92
22:JB:3165:G:OP1	53:J7:99:PRO:HB3	1.69	0.92
22:JB:2637:C:H41	28:JH:181:GLY:CA	1.82	0.92
32:JL:53:ALA:HB3	32:JL:72:ALA:HB3	1.51	0.92
22:JB:542:A:O2'	38:JR:24:PHE:CG	2.21	0.92
22:JB:348:U:C4'	42:JV:13:LYS:HB2	2.00	0.92
34:JN:129:GLN:CG	43:JW:74:ARG:NH1	2.32	0.92
22:JB:2241:U:C5	44:JX:15:ASP:OD1	2.22	0.92
1:AA:265:G:O4'	17:AQ:65:ILE:CA	2.17	0.92
3:AC:29:TYR:HH	10:AJ:11:PHE:HZ	0.98	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:974:A:H2	14:AN:31:ARG:HB2	1.32	0.92
22:BB:1815:G:H5''	24:BD:54:ILE:CG1	1.97	0.92
22:BB:2766:U:C4'	25:BE:61:LYS:O	2.17	0.92
1:CA:435:C:O2'	4:CD:156:GLU:O	1.87	0.92
12:CL:12:ARG:HH12	17:CQ:98:LEU:CD1	1.82	0.92
22:DB:2735:C:C4	52:D6:35:ARG:NH2	2.36	0.92
22:DB:1797:C:O2'	24:DD:49:ILE:CD1	2.17	0.92
22:DB:1831:G:O4'	22:DB:1910:A:O4'	1.87	0.92
22:DB:910:U:C5	22:DB:911:A:C8	2.57	0.92
22:DB:687:G:C8	26:DF:68:ARG:NH1	2.36	0.92
23:DA:77:G:O2'	43:DW:31:SER:N	2.01	0.92
1:EA:1115:C:O4'	14:EN:61:TRP:CD1	2.23	0.92
1:EA:1100:C:C1'	2:EB:98:LEU:HD21	1.99	0.92
1:EA:265:G:H21	17:EQ:67:LYS:HE2	1.13	0.92
22:FB:15:G:C2	48:F2:18:MET:CE	2.52	0.92
33:FM:63:ARG:CD	51:F5:9:MET:CE	2.45	0.92
22:FB:2034:A:H4'	25:FE:141:ILE:HD11	1.50	0.92
22:FB:965:G:C5'	34:FN:18:MET:CG	2.38	0.92
22:FB:1265:G:C5'	38:FR:14:HIS:NE2	2.32	0.92
22:FB:491:A:O2'	42:FV:54:ILE:O	1.85	0.92
22:HB:1994:U:H5''	40:HT:120:ARG:HB3	1.49	0.92
22:HB:2235:G:OP1	44:HX:5:LYS:CG	2.18	0.92
22:HB:2372:A:C4'	33:HM:60:LEU:C	2.34	0.92
22:HB:2553:G:N2	25:HE:142:GLY:N	2.15	0.92
22:HB:761:G:N3	40:HT:111:ARG:HG3	1.74	0.92
22:HB:1075:C:H5'	30:HJ:84:ILE:HD12	1.48	0.92
22:HB:2760:G:C2'	31:HK:149:LYS:HD3	1.93	0.92
22:HB:502:A:C2	40:HT:28:ALA:C	2.25	0.92
1:IA:686:U:OP1	11:IK:40:ILE:O	1.85	0.92
1:IA:935:A:C6	7:IG:3:ARG:NH2	2.38	0.92
1:IA:878:G:H5'	8:IH:89:PRO:O	1.70	0.92
29:JI:26:ARG:CD	47:J1:68:ARG:HH11	1.81	0.92
23:JA:14:C:C6	44:JX:53:MET:HB3	2.04	0.92
23:JA:29:C:OP1	36:JP:36:LYS:CB	2.17	0.92
1:IA:1517:G:H1'	22:JB:1902:A:O2'	1.68	0.92
22:JB:2003:A:H5''	48:J2:9:LYS:NZ	1.84	0.92
22:JB:1039:A:H2	22:JB:2466:G:C1'	1.82	0.92
26:JF:28:HIS:CB	33:JM:18:ARG:NE	2.30	0.92
38:JR:87:ASN:HB3	39:JS:52:GLY:CA	1.99	0.92
43:JW:51:LEU:CD2	43:JW:128:ARG:NH2	2.26	0.92
3:AC:29:TYR:OH	10:AJ:11:PHE:HZ	1.52	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1330:U:OP1	13:AM:23:TYR:O	1.88	0.92
22:BB:1136:G:C8	52:B6:4:ARG:HG2	2.03	0.92
22:BB:1397:A:C5	22:BB:1418:C:C2	2.57	0.92
22:BB:2:G:N2	22:BB:2876:C:C4	2.37	0.92
22:BB:922:A:C2	22:BB:2243:C:O2'	2.23	0.92
22:BB:37:C:O2'	26:BF:45:THR:HB	1.66	0.92
22:BB:1142:G:H8	31:BK:106:TYR:O	1.51	0.92
1:CA:939:G:OP1	7:CG:102:ARG:NH2	2.02	0.92
22:DB:1816:G:H21	24:DD:252:LYS:CE	1.82	0.92
22:DB:2042:A:H5''	26:DF:66:ASN:ND2	1.83	0.92
22:DB:7:G:H1'	31:DK:163:PRO:CD	1.99	0.92
22:DB:545:C:C1'	38:DR:53:LYS:HE2	1.68	0.92
22:DB:29:U:C5'	38:DR:7:GLY:O	2.17	0.92
22:DB:887:G:OP1	43:DW:170:SER:CB	2.17	0.92
1:EA:278:G:C2	17:EQ:96:GLN:CD	2.37	0.92
1:EA:392:G:H5''	16:EP:12:LYS:HG2	1.50	0.92
1:EA:489:C:OP1	4:ED:132:ARG:HD2	1.68	0.92
1:EA:450:G:O4'	16:EP:42:ARG:HA	1.68	0.92
6:EF:48:LEU:CD2	18:ER:78:LEU:N	2.31	0.92
49:F3:26:LYS:NZ	51:F5:33:ASN:ND2	2.16	0.92
22:FB:2263:C:OP2	49:F3:9:ILE:CA	2.13	0.92
22:FB:2283:G:C2'	27:FG:153:ASP:HB3	2.00	0.92
22:FB:2637:C:H3'	28:FH:179:THR:CG2	1.99	0.92
25:FE:18:ASP:OD1	32:FL:85:ASP:HA	1.60	0.92
28:FH:76:VAL:HG12	28:FH:81:ASP:HB2	1.49	0.92
23:FA:10:U:O2	36:FP:49:GLN:CG	2.16	0.92
38:FR:87:ASN:HB3	39:FS:52:GLY:CA	1.98	0.92
38:FR:91:ASN:CG	39:FS:10:LYS:HZ3	1.71	0.92
1:GA:1379:G:O6	7:GG:2:ALA:HB3	1.66	0.92
10:GJ:64:GLU:OE2	14:GN:57:ARG:CB	2.18	0.92
1:GA:658:G:H5''	15:GO:4:THR:O	1.67	0.92
1:GA:273:A:C4	17:GQ:15:MET:HB3	2.04	0.92
22:HB:2646:C:C2	28:HH:109:TYR:HB2	1.68	0.92
22:HB:637:G:N2	33:HM:74:VAL:HG13	1.84	0.92
22:HB:1265:G:N1	38:HR:36:PHE:HD1	1.67	0.92
22:HB:95:G:C8	45:HY:41:HIS:ND1	2.36	0.92
1:IA:1312:G:O6	19:IS:2:PRO:O	1.87	0.92
1:IA:637:G:C1'	17:IQ:2:PRO:HG3	1.98	0.92
22:JB:1999:U:O2'	48:J2:6:VAL:HG22	1.05	0.92
22:JB:113:C:HO2'	22:JB:124:A:HO2'	1.07	0.92
22:JB:3103:A:C5'	53:J7:37:LYS:CG	2.27	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:JE:20:ALA:CA	32:JL:84:ALA:O	2.17	0.92
41:JU:88:ILE:HG12	41:JU:90:ALA:H	1.34	0.92
10:AJ:11:PHE:CE1	14:AN:54:PRO:CB	2.06	0.92
22:BB:2333:A:O2'	44:BX:31:VAL:HG13	1.66	0.92
22:BB:2343:C:H5''	44:BX:40:GLN:HB2	0.94	0.92
22:BB:2463:G:N3	34:BN:121:LEU:HD13	1.85	0.92
22:BB:2767:C:O2'	22:BB:2785:A:N3	2.01	0.92
25:BE:181:LEU:HD23	37:BQ:12:LEU:HD21	1.48	0.92
32:BL:53:ALA:HB3	32:BL:72:ALA:HB3	1.51	0.92
1:CA:323:U:O2'	20:CT:15:ARG:HD2	1.66	0.92
1:CA:1081:G:C8	5:CE:18:ARG:NH2	2.33	0.92
22:DB:2313:G:H2'	36:DP:15:ARG:NH1	1.84	0.92
22:DB:2611:A:N3	25:DE:61:LYS:HD3	1.85	0.92
22:DB:506:G:OP1	40:DT:22:LYS:N	2.01	0.92
23:DA:9:G:C4'	36:DP:32:TYR:CZ	2.51	0.92
1:EA:1055:A:H2	3:EC:156:ARG:NE	1.65	0.92
1:EA:1226:C:OP2	13:EM:103:THR:CG2	2.14	0.92
1:EA:1187:G:H21	14:EN:60:SER:C	1.72	0.92
22:FB:123:A:C5'	50:F4:23:LYS:HZ3	1.83	0.92
22:FB:93:A:C3'	45:FY:37:LEU:CD2	2.27	0.92
22:FB:2638:G:N7	28:FH:180:GLY:C	2.22	0.92
22:FB:2394:G:C5'	33:FM:64:GLY:CA	2.34	0.92
23:FA:117:G:O3'	36:FP:53:ALA:N	2.03	0.92
1:GA:877:C:C2'	8:GH:3:THR:O	2.18	0.92
1:GA:676:A:H1'	11:GK:118:GLY:HA3	1.51	0.92
1:GA:974:A:P	14:GN:29:ARG:HH22	1.93	0.92
22:HB:54:G:N2	22:HB:124:A:N3	2.16	0.92
22:HB:1455:C:C2	22:HB:1567:A:N1	2.38	0.92
22:HB:2356:A:C2	36:HP:89:PHE:CZ	2.56	0.92
22:HB:3875:A:O2'	53:H7:42:LYS:CG	2.16	0.92
28:HH:76:VAL:HG12	28:HH:81:ASP:HB2	1.49	0.92
32:HL:20:MET:HB3	32:HL:54:SER:HB2	1.50	0.92
1:IA:1409:C:C4'	22:JB:1898:U:O4	2.18	0.92
1:IA:779:C:H1'	11:IK:120:ARG:CD	1.99	0.92
4:ID:201:GLN:CD	5:IE:116:THR:OG1	2.06	0.92
22:JB:1265:G:N3	38:JR:32:TYR:HE1	1.66	0.92
1:IA:1409:C:OP1	22:JB:1899:A:N1	2.02	0.92
22:JB:2241:U:C3'	44:JX:15:ASP:OD2	2.16	0.92
22:JB:2282:G:N3	27:JG:129:ASN:ND2	2.16	0.92
22:JB:2490:U:O4'	25:JE:124:GLY:O	1.87	0.92
22:JB:339:U:H4'	42:JV:77:HIS:N	1.82	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1077:G:H1	5:AE:45:PHE:HE2	1.08	0.92
1:AA:612:C:HO2'	4:AD:86:LYS:HE2	1.21	0.92
1:AA:621:A:OP1	4:AD:139:ARG:CZ	2.16	0.92
1:AA:738:C:P	6:AF:92:LYS:NZ	2.38	0.92
1:AA:1256:A:H61	3:AC:26:LYS:NZ	1.67	0.92
3:AC:58:GLU:HB3	10:AJ:92:THR:HG1	1.29	0.92
1:AA:1309:G:H5''	13:AM:81:LEU:HD11	1.51	0.92
13:AM:81:LEU:CD1	13:AM:92:HIS:CE1	2.49	0.92
22:BB:1045:G:H4'	52:B6:18:ARG:CZ	1.81	0.92
23:BA:105:G:H5'	43:BW:92:VAL:CG2	1.98	0.92
22:BB:574:C:OP1	39:BS:80:TYR:N	2.01	0.92
22:BB:2600:A:O4'	25:BE:158:GLY:HA3	1.66	0.92
22:BB:1141:U:H2'	31:BK:107:GLN:NE2	1.84	0.92
1:CA:753:A:O2'	8:CH:1:MET:CA	2.18	0.92
1:CA:981:U:HO2'	14:CN:31:ARG:NH1	1.68	0.92
1:CA:973:G:O3'	14:CN:41:ARG:NH2	2.01	0.92
22:DB:2394:G:H4'	33:DM:64:GLY:HA2	1.39	0.92
22:DB:917:U:H4'	43:DW:121:GLN:O	1.68	0.92
23:DA:93:G:C5'	34:DN:22:ALA:HB1	1.97	0.92
1:EA:623:C:N4	4:ED:139:ARG:NH2	2.17	0.92
1:EA:537:G:O3'	12:EL:113:ARG:CD	2.17	0.92
3:EC:10:PHE:CZ	14:EN:58:LYS:NZ	2.38	0.92
22:FB:1636:G:C4'	50:F4:1:MET:CE	2.48	0.92
22:FB:642:A:H2	22:FB:2393:G:H21	1.13	0.92
22:FB:2764:U:H5'	25:FE:36:ARG:HH21	1.24	0.92
22:FB:2366:U:O2'	44:FX:16:SER:HB3	1.69	0.92
10:GJ:11:PHE:HD1	14:GN:54:PRO:HB2	1.18	0.92
22:HB:1202:U:H4'	39:HS:81:ARG:NH1	1.85	0.92
22:HB:868:U:O2	44:HX:25:LYS:CE	2.16	0.92
22:HB:631:G:C2'	33:HM:101:ARG:HH21	1.75	0.92
35:HO:16:ALA:HB1	35:HO:20:LEU:HD12	1.52	0.92
41:HU:46:PHE:CB	45:HY:19:ASP:OD1	2.17	0.92
1:IA:1393:U:C3'	1:IA:1394:A:P	2.57	0.92
1:IA:1441:G:O6	20:IT:31:SER:CB	2.17	0.92
22:JB:2182:A:O4'	47:J1:44:THR:OG1	1.88	0.92
22:JB:226:C:C4	22:JB:2374:C:H4'	2.05	0.92
22:JB:23:G:C1'	40:JT:96:TYR:HH	1.79	0.92
22:JB:512:A:OP1	40:JT:16:GLN:NE2	2.02	0.92
22:JB:528:G:C4	40:JT:96:TYR:CD2	2.56	0.92
34:JN:32:ASP:O	43:JW:117:VAL:HG13	1.00	0.92
22:JB:1000:G:N7	46:JZ:10:ILE:CD1	2.33	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:949:A:P	13:AM:102:ARG:HE	1.91	0.92
1:AA:236:G:C4'	17:AQ:42:TYR:OH	2.18	0.92
22:BB:177:U:H4'	47:B1:31:ILE:CD1	1.99	0.92
22:BB:2503:G:H1'	22:BB:2744:A:C2	2.04	0.92
22:BB:2615:U:O2'	25:BE:79:ARG:NH2	2.03	0.92
22:BB:6:A:H62	22:BB:2870:C:H42	0.98	0.92
26:BF:22:VAL:HG13	26:BF:23:ASN:H	1.31	0.92
22:BB:761:G:N7	40:BT:110:ALA:HB1	1.85	0.92
22:BB:1246:G:OP1	40:BT:8:PHE:CE2	2.23	0.92
1:CA:16:A:O2'	5:CE:16:THR:OG1	1.87	0.92
1:CA:583:A:H1'	17:CQ:91:ARG:CZ	1.99	0.92
3:CC:132:ARG:CZ	4:CD:47:ARG:NH1	2.32	0.92
22:DB:2007:G:C5'	25:DE:149:ARG:CD	2.45	0.92
22:DB:673:G:H22	33:DM:22:GLY:HA3	1.34	0.92
22:DB:1834:G:H1'	24:DD:244:ARG:HG3	1.09	0.92
22:DB:869:C:C1'	44:DX:24:LYS:CD	2.31	0.92
22:FB:58:C:C1'	22:FB:72:A:C5	2.53	0.92
32:FL:20:MET:HB3	32:FL:54:SER:HB2	1.50	0.92
23:FA:92:G:H21	34:FN:22:ALA:N	1.68	0.92
22:FB:1007:A:OP2	38:FR:94:VAL:HG22	1.70	0.92
1:GA:107:G:C6	20:GT:14:LYS:HB3	2.04	0.92
1:GA:1239:A:H62	1:GA:1299:A:H62	1.11	0.92
13:GM:88:ARG:HH22	13:GM:99:ARG:HE	1.18	0.92
22:HB:1245:G:H3'	40:HT:8:PHE:HZ	1.29	0.92
22:HB:1300:A:OP1	35:HO:103:ARG:HG2	1.68	0.92
22:HB:918:A:P	43:HW:118:HIS:CD2	2.63	0.92
1:IA:125:U:H4'	1:IA:605:U:O2'	1.70	0.92
1:IA:877:C:C5'	8:IH:88:LYS:HE3	2.00	0.92
15:IO:89:GLY:HA3	22:JB:729:A:P	2.10	0.92
22:JB:2328:G:C5'	51:J5:42:ARG:NH1	2.33	0.92
22:JB:2558:C:C3'	25:JE:132:LYS:HZ2	1.83	0.92
22:JB:490:A:H5'	42:JV:3:ARG:HH22	1.31	0.92
22:JB:1835:C:H4'	24:JD:255:LYS:HA	1.52	0.92
22:JB:672:C:C4'	26:JF:94:THR:H	1.81	0.92
28:JH:24:PHE:H	28:JH:35:VAL:HG21	1.30	0.92
1:IA:1432:G:OP1	37:JQ:115:ALA:HB1	1.68	0.92
1:AA:509:A:C5	4:AD:54:TYR:HE2	1.86	0.92
10:AJ:11:PHE:CD1	14:AN:54:PRO:O	2.21	0.92
1:AA:668:G:OP1	15:AO:48:LYS:HD2	1.01	0.92
22:BB:1861:G:C2	53:B7:199:ASN:OD1	2.23	0.92
22:BB:1070:G:C5	30:BJ:126:THR:HG22	2.05	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:BB:1235:C:OP2	39:BS:69:ILE:O	1.88	0.92
22:BB:2462:C:O2	34:BN:54:VAL:CG1	2.17	0.92
22:BB:2753:C:C5'	25:BE:164:ARG:HG2	2.00	0.92
22:BB:625:A:H5'	26:BF:38:ARG:CD	1.98	0.92
34:BN:98:VAL:HG13	34:BN:99:LYS:H	1.32	0.92
1:CA:1073:U:H1'	2:CB:107:THR:HG21	1.52	0.92
1:CA:815:A:C5	1:CA:1529:G:C5	2.56	0.92
1:CA:126:G:N2	17:CQ:4:LYS:HZ1	1.64	0.92
22:DB:2039:G:O2'	48:D2:5:PRO:CG	2.18	0.92
23:DA:105:G:H5''	43:DW:91:PRO:CA	1.98	0.92
22:DB:1402:G:N1	22:DB:1412:C:N4	2.13	0.92
22:DB:2357:A:H5''	36:DP:26:ARG:HH21	1.33	0.92
22:DB:506:G:H5''	40:DT:21:ARG:CG	1.99	0.92
22:DB:1835:C:H5''	24:DD:255:LYS:HZ3	1.09	0.92
22:DB:2542:U:P	32:DL:25:LEU:HD21	2.09	0.92
32:DL:86:GLY:O	37:DQ:83:PHE:C	2.07	0.92
1:EA:1225:A:H5''	13:EM:102:ARG:HA	1.52	0.92
1:EA:588:G:C8	8:EH:2:LEU:CD1	2.53	0.92
1:EA:623:C:H41	4:ED:139:ARG:HH22	1.04	0.92
1:EA:644:G:C8	8:EH:132:GLU:HB2	2.04	0.92
1:EA:44:G:OP1	16:EP:11:SER:HA	1.69	0.92
22:FB:124:A:C8	50:F4:19:ARG:N	2.38	0.92
22:FB:2074:U:OP1	29:FI:22:ASP:OD1	1.86	0.92
22:FB:1750:A:H4'	22:FB:2695:C:O4'	1.70	0.92
22:FB:2614:A:H4'	25:FE:77:ILE:C	1.71	0.92
22:FB:2647:G:H4'	28:FH:111:HIS:CE1	2.05	0.92
22:FB:1288:A:C6	35:FO:19:ALA:HB1	2.05	0.92
22:FB:2240:C:H5	44:FX:13:GLY:C	1.70	0.92
22:HB:1829:C:H5'	22:HB:1911:A:H4'	0.92	0.92
22:HB:4:C:N3	22:HB:2874:A:N6	2.17	0.92
22:HB:593:C:O2'	26:HF:75:PRO:O	1.86	0.92
22:HB:543:G:O2'	38:HR:42:ALA:CA	2.17	0.92
22:HB:489:A:C3'	42:HV:5:SER:CB	2.47	0.92
1:IA:1517:G:N3	22:JB:1902:A:O2'	2.00	0.92
1:IA:826:C:H5'	8:IH:12:ARG:CG	1.98	0.92
1:IA:1206:G:O4'	3:IC:193:TYR:HA	1.70	0.92
1:IA:730:G:N2	15:IO:51:HIS:HE2	1.67	0.92
1:IA:129(A):G:H2'	17:IQ:63:ARG:HH11	1.30	0.92
22:JB:2519:C:OP1	52:J6:4:ARG:CZ	2.17	0.92
22:JB:3170:A:O2'	53:J7:128:LEU:HD23	1.68	0.92
22:JB:309:G:P	42:JV:93:ARG:CD	2.58	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:JB:1780:A:OP1	24:JD:222:ARG:HD3	1.69	0.92
22:JB:2810:A:OP1	37:JQ:6:LYS:HE3	0.87	0.92
1:AA:1229:A:H2	13:AM:125:ARG:HB2	1.35	0.92
6:AF:49:ALA:HB1	18:AR:80:PRO:HD3	1.50	0.92
22:BB:475:U:H4'	50:B4:5:TYR:HB2	1.50	0.92
22:BB:760:U:H5'	40:BT:111:ARG:CD	1.99	0.92
23:BA:95:U:O3'	43:BW:14:LEU:HB2	1.69	0.92
22:BB:2365:U:C5'	44:BX:39:ARG:HH12	1.62	0.92
1:CA:1075:C:H5'	2:CB:103:THR:CG2	1.99	0.92
1:CA:16:A:O2'	5:CE:16:THR:CA	2.17	0.92
22:DB:2063:A:C5'	47:D1:20:VAL:CG2	2.49	0.92
22:DB:465:C:N4	50:D4:39:ARG:NE	2.17	0.92
22:DB:1437:A:C2	22:DB:1438:G:O6	2.22	0.92
22:DB:1831:G:H5''	22:DB:1910:A:H4'	1.51	0.92
22:DB:2432:A:C4'	22:DB:2551:A:O2'	2.18	0.92
26:DF:22:VAL:HG13	26:DF:23:ASN:H	1.32	0.92
32:DL:53:ALA:HB3	32:DL:72:ALA:HB3	1.51	0.92
40:DT:56:LEU:HA	48:D2:28:PRO:CG	1.99	0.92
22:DB:308:C:C5'	42:DV:93:ARG:NE	1.88	0.92
1:EA:643:C:O2	8:EH:132:GLU:HB3	1.66	0.92
1:EA:958:A:C1'	19:ES:55:LYS:HD3	2.00	0.92
1:EA:188:C:N4	20:ET:105:SER:HA	1.81	0.92
22:FB:1828:C:O2	22:FB:1912:G:H5''	1.67	0.92
22:FB:2372:A:HO2'	33:FM:59:ARG:HA	1.26	0.92
36:FP:47:ARG:CZ	44:FX:79:ILE:HB	1.99	0.92
22:FB:980:G:P	46:FZ:13:PRO:HA	2.09	0.92
1:GA:835:U:C5'	18:GR:64:ARG:CZ	2.48	0.92
1:GA:826:C:HO2'	8:GH:12:ARG:HG2	1.19	0.92
22:HB:1225:G:H22	40:HT:12:LYS:NZ	1.68	0.92
22:HB:1980:A:P	25:HE:135:HIS:CD2	2.63	0.92
22:HB:2240:C:O2'	22:HB:2306:A:N6	2.02	0.92
22:HB:339:U:O2'	42:HV:77:HIS:HE1	1.50	0.92
22:HB:492:G:C5'	42:HV:3:ARG:NH1	2.32	0.92
22:HB:506:G:O4'	40:HT:82:ASN:HA	1.64	0.92
1:IA:636:U:OP1	17:IQ:5:VAL:N	2.01	0.92
1:IA:9:G:OP2	4:ID:209:ARG:NH2	2.03	0.92
13:IM:87:TYR:H	19:IS:74:PHE:N	1.68	0.92
22:JB:2003:A:C8	48:J2:9:LYS:NZ	2.37	0.92
22:JB:3170:A:O3'	53:J7:128:LEU:HD21	1.70	0.92
22:JB:3093:C:O2'	29:JI:28:TRP:CE3	2.22	0.92
22:JB:3187:U:H5''	29:JI:11:LEU:HD23	1.45	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:JB:1018:C:O2'	31:JK:135:LEU:C	2.08	0.92
22:JB:846:A:C4'	33:JM:53:ARG:HA	2.00	0.92
22:JB:543:G:C3'	38:JR:22:LYS:HZ2	1.74	0.92
22:JB:63:A:H1'	41:JU:62:ARG:HB2	0.94	0.92
23:BA:105:G:C5'	43:BW:92:VAL:N	2.33	0.91
22:BB:1041:G:H5''	34:BN:119:PHE:HE2	1.29	0.91
22:BB:829:C:H5'	22:BB:1176:U:O2'	1.70	0.91
22:BB:2463:G:H22	34:BN:120:ARG:HD3	1.11	0.91
23:BA:48:A:O2'	36:BP:4:ALA:N	2.02	0.91
38:BR:25:TRP:CH2	48:B2:14:SER:OG	2.23	0.91
1:CA:1104:G:C1'	2:CB:111:ARG:HD2	1.99	0.91
1:CA:1074:G:O4'	2:CB:104:ASN:OD1	1.88	0.91
22:DB:456:C:H4'	38:DR:2:PRO:HG2	1.52	0.91
22:DB:1234:C:C4'	39:DS:68:LYS:HD3	1.99	0.91
1:EA:588:G:C2'	8:EH:5:PRO:HB3	1.93	0.91
1:EA:597:G:O6	8:EH:115:SER:CB	2.18	0.91
1:EA:668:G:H1'	15:EO:46:HIS:HD2	1.32	0.91
6:EF:2:ARG:HH11	15:EO:2:PRO:HG3	1.30	0.91
22:FB:2265:A:N3	49:F3:31:THR:HG21	1.83	0.91
23:FA:30:C:OP1	36:FP:34:SER:HB2	1.29	0.91
22:FB:1752:U:O3'	22:FB:1753:A:OP2	1.88	0.91
22:FB:2463:G:H5''	34:FN:47:GLN:HG2	1.49	0.91
22:FB:528:G:OP1	40:FT:36:ARG:CA	2.18	0.91
22:FB:938:G:H22	46:FZ:39:ALA:CB	1.82	0.91
22:FB:2511:G:H5'	28:FH:157:TYR:OH	1.71	0.91
22:FB:827:C:C6	33:FM:32:ARG:NH1	2.39	0.91
22:FB:1203:A:H5'	33:FM:36:GLY:H	1.31	0.91
22:FB:1162:A:O2'	38:FR:78:THR:CG2	2.17	0.91
1:GA:734:G:H4'	18:GR:71:LYS:HZ1	1.15	0.91
22:HB:2733:A:N3	52:H6:15:LYS:HE2	1.85	0.91
22:HB:1039:A:H2	22:HB:2466:G:H1'	1.31	0.91
22:HB:1260:A:C4'	38:HR:2:PRO:HD3	1.74	0.91
22:HB:2373:C:OP1	33:HM:62:LYS:CA	2.17	0.91
22:HB:758:G:O2'	40:HT:111:ARG:CG	2.18	0.91
22:HB:221:A:H4'	33:HM:68:VAL:CG1	2.00	0.91
1:IA:1439:C:H5''	20:IT:38:LYS:HE2	0.93	0.91
22:JB:3124:G:O5'	53:J7:62:LYS:HD3	1.47	0.91
22:JB:1003:C:O2	39:JS:88:GLN:HB2	1.69	0.91
22:JB:2063:A:O5'	47:J1:32:HIS:O	1.87	0.91
22:JB:529:U:OP1	40:JT:39:ARG:CB	2.17	0.91
37:JQ:55:ILE:HD13	37:JQ:55:ILE:H	1.33	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:JB:573:C:H6	38:JR:37:GLN:OE1	1.52	0.91
1:AA:21:G:H21	1:AA:914:A:N6	1.68	0.91
1:AA:274:A:C1'	17:AQ:15:MET:HG2	1.98	0.91
1:AA:43:C:C5'	16:AP:12:LYS:CD	2.48	0.91
22:BB:2470:U:N3	22:BB:2548:G:O2'	1.76	0.91
22:BB:704:G:H5'	24:BD:218:LYS:NZ	1.72	0.91
1:AA:1471:G:OP1	32:BL:17:ARG:HD3	1.68	0.91
22:BB:2465:G:H5'	34:BN:123:GLY:CA	2.00	0.91
1:CA:129:U:P	17:CQ:3:LYS:CE	2.51	0.91
1:CA:1345:U:H5''	9:CI:120:ARG:HH11	1.34	0.91
1:CA:1229:A:C8	13:CM:119:GLY:C	2.44	0.91
22:DB:1383:C:H5'	24:DD:48:ARG:CD	2.00	0.91
34:DN:99:LYS:HE3	43:DW:73:LYS:HZ3	0.87	0.91
1:EA:238:G:OP1	17:EQ:38:ARG:CZ	2.18	0.91
22:FB:2629:U:OP1	32:FL:29:ILE:CD1	2.18	0.91
22:FB:2764:U:H5''	25:FE:36:ARG:NH2	1.85	0.91
22:FB:2796:A:OP2	25:FE:191:ALA:HB3	1.67	0.91
22:FB:94:C:C2'	45:FY:40:PRO:HG3	1.99	0.91
22:FB:1673:C:C3'	25:FE:136:ARG:NE	2.32	0.91
22:FB:2474:G:C4'	34:FN:83:ARG:HD2	2.00	0.91
38:FR:47:TYR:CG	39:FS:74:TYR:CB	2.33	0.91
1:GA:1189:C:OP1	10:GJ:51:ARG:NH2	2.03	0.91
1:GA:17:U:H4'	5:GE:14:ARG:NE	1.84	0.91
2:GB:53:ARG:HH22	8:GH:68:ARG:HH11	0.92	0.91
7:GG:44:TYR:HH	9:GI:41:VAL:HG22	1.30	0.91
1:GA:1226:C:C5	13:GM:104:ARG:HA	2.04	0.91
6:GF:46:ARG:HH22	18:GR:35:ARG:NH1	1.52	0.91
13:GM:85:GLY:O	19:GS:74:PHE:HD2	1.41	0.91
22:HB:2652:G:C2	32:HL:41:ASN:OD1	2.23	0.91
22:HB:603:C:C4	22:HB:677:G:O6	2.22	0.91
34:HN:63:GLY:HA2	43:HW:111:GLY:C	1.91	0.91
41:HU:92:ALA:CA	45:HY:27:GLU:HG3	2.00	0.91
1:IA:1125:U:C4	10:IJ:5:ARG:CZ	2.54	0.91
1:IA:1380:U:O4	7:IG:3:ARG:HG3	1.71	0.91
22:JB:2208:U:C4	47:J1:42:PHE:HE1	1.86	0.91
22:JB:219:G:H2'	51:J5:4:MET:CA	2.00	0.91
22:JB:3164:C:C5'	53:J7:102:LYS:HD3	2.00	0.91
22:JB:2000:U:H4'	48:J2:8:LYS:HZ2	1.11	0.91
1:AA:545:C:C5'	4:AD:72:GLU:CD	2.36	0.91
5:AE:78:HIS:CB	8:AH:104:ARG:HH22	1.64	0.91
22:BB:1414:G:H21	22:BB:1484:G:H1	1.13	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:BB:2462:C:O2'	34:BN:50:ALA:HB1	1.24	0.91
22:BB:2714:A:C8	25:BE:205:SER:O	2.22	0.91
22:BB:817:A:OP1	33:BM:45:LYS:HE3	1.70	0.91
22:BB:873:U:C4	22:BB:2247:A:C5	2.58	0.91
1:CA:1345:U:H5''	9:CI:120:ARG:HH12	1.29	0.91
3:CC:18:TRP:HE1	14:CN:53:LEU:H	1.12	0.91
22:DB:1815:G:P	24:DD:54:ILE:CG2	2.55	0.91
22:DB:2492:G:H2'	22:DB:2493:U:C4	2.05	0.91
22:DB:24:G:O4'	40:DT:98:ASP:HB3	1.70	0.91
22:DB:1804:U:C1'	24:DD:46:ARG:CB	2.47	0.91
22:DB:1008:G:OP1	38:DR:92:ARG:CD	2.18	0.91
22:DB:503:G:C5'	40:DT:30:TYR:CE2	2.53	0.91
1:EA:1104:G:O5'	2:EB:111:ARG:O	1.89	0.91
1:EA:1308:U:H3'	13:EM:99:ARG:HH11	1.15	0.91
1:EA:599:C:H4'	8:EH:100:ILE:HD11	1.51	0.91
1:EA:751:U:O3'	15:EO:69:TYR:OH	1.88	0.91
1:EA:523:A:N6	12:EL:90:VAL:HG11	1.84	0.91
22:FB:10:A:N6	22:FB:2607:C:C5'	2.33	0.91
22:FB:2040:A:C1'	48:F2:3:LYS:CB	2.11	0.91
22:FB:2290:A:N1	27:FG:40:LEU:HD12	1.85	0.91
22:FB:59:G:C8	22:FB:73:A:N1	2.38	0.91
22:FB:845:U:C5'	33:FM:41:SER:HB2	1.99	0.91
22:FB:2056:C:OP1	24:FD:229:VAL:HG22	1.71	0.91
22:FB:491:A:C5'	42:FV:55:THR:HG21	1.85	0.91
1:GA:192:U:O3'	20:GT:57:ARG:CD	2.14	0.91
1:GA:580:U:H4'	15:GO:57:LEU:HD21	0.93	0.91
1:GA:1248:A:C1'	9:GI:70:LYS:NZ	2.20	0.91
22:HB:1225:G:N2	40:HT:12:LYS:HZ3	1.52	0.91
22:HB:7:G:N2	22:HB:2870:C:O2	2.03	0.91
22:HB:2553:G:H21	25:HE:142:GLY:H	1.02	0.91
1:IA:451:A:C5'	16:IP:72:ARG:NH2	2.33	0.91
22:JB:1238:A:H5''	39:JS:73:LYS:HZ2	1.32	0.91
22:JB:1781:C:O3'	24:JD:213:ARG:NH1	2.03	0.91
22:JB:23:G:N3	40:JT:98:ASP:OD2	2.03	0.91
22:JB:2487:G:C4'	22:JB:2534:U:H5'	1.99	0.91
22:JB:595:A:H4'	26:JF:84:PHE:HD1	1.35	0.91
35:JO:16:ALA:HB1	35:JO:20:LEU:HD12	1.52	0.91
13:AM:81:LEU:HD12	13:AM:92:HIS:NE2	1.85	0.91
22:BB:2789:U:C4	48:B2:43:HIS:CD2	2.59	0.91
22:BB:1398:G:C4	22:BB:1416:A:C2	2.58	0.91
22:BB:2343:C:O2	44:BX:66:LYS:CE	2.18	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:BB:24:G:O4'	40:BT:98:ASP:OD2	1.88	0.91
22:BB:1143:A:C3'	31:BK:111:LYS:HD3	2.01	0.91
22:BB:1237:G:C4'	39:BS:87:ARG:HB2	2.00	0.91
1:CA:1108:G:P	3:CC:176:HIS:H	1.94	0.91
1:CA:1317:C:H5	14:CN:16:PHE:CE2	1.87	0.91
1:CA:620:C:C5'	4:CD:138:TYR:OH	2.17	0.91
1:CA:1081:G:H8	5:CE:18:ARG:HH21	0.99	0.91
1:CA:129:U:OP2	17:CQ:3:LYS:HE2	1.71	0.91
22:DB:1163:C:H2'	38:DR:77:SER:HG	1.31	0.91
22:DB:2653:A:O2'	32:DL:41:ASN:CG	2.09	0.91
22:DB:2745:A:C8	22:DB:2746:G:C8	2.59	0.91
22:DB:910:U:C6	22:DB:911:A:C8	2.58	0.91
22:DB:2490:U:H4'	25:DE:122:PHE:CE1	2.04	0.91
34:DN:98:VAL:HG13	34:DN:99:LYS:H	1.32	0.91
23:DA:78:A:H2	43:DW:22:VAL:HG21	1.25	0.91
22:DB:2249:U:P	44:DX:18:PRO:HG2	2.11	0.91
1:EA:1330:U:OP1	13:EM:25:ILE:O	1.88	0.91
1:EA:644:G:OP1	8:EH:92:ARG:NH2	2.02	0.91
8:EH:33:GLU:HA	8:EH:36:LEU:HD12	1.52	0.91
1:EA:973:G:C1'	10:EJ:54:PHE:CZ	2.53	0.91
22:FB:1292:A:H5'	35:FO:33:ARG:HB3	1.31	0.91
22:FB:230:C:H41	51:F5:4:MET:HG3	1.10	0.91
22:FB:2661:G:C4	25:FE:11:MET:CA	2.54	0.91
22:FB:2773:G:N7	22:FB:2780:A:C2	2.38	0.91
22:FB:2773:G:N3	22:FB:2780:A:N3	2.18	0.91
22:FB:2315:A:C6	44:FX:70:ILE:HD13	2.05	0.91
1:GA:223:U:C2	20:GT:68:LYS:NZ	2.37	0.91
1:GA:438:G:H5'	4:GD:123:HIS:NE2	1.85	0.91
1:GA:958:A:N1	19:GS:77:THR:HG21	1.82	0.91
1:GA:875:C:HO2'	8:GH:11:THR:HG21	1.10	0.91
22:HB:1143:A:O2'	31:HK:99:VAL:CG1	2.19	0.91
22:HB:124:A:H62	50:H4:45:SER:HB3	0.76	0.91
22:HB:1816:G:O2'	24:HD:246:PRO:O	1.88	0.91
22:HB:1998:A:N9	48:H2:6:VAL:HG11	1.80	0.91
22:HB:2847:G:O2'	35:HO:8:ARG:CG	2.17	0.91
22:HB:825:C:C4'	38:HR:13:ARG:HH22	1.66	0.91
22:HB:1744:G:O6	37:HQ:125:MET:C	2.09	0.91
22:HB:93:A:O2'	45:HY:40:PRO:HB3	1.70	0.91
1:EA:1264:C:H1'	1:IA:1272:G:H21	1.25	0.91
1:IA:1380:U:H5	7:IG:3:ARG:HG2	1.32	0.91
1:IA:640:A:C3'	8:IH:127:LEU:HD13	2.00	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:IA:815:A:H3'	1:IA:1526:G:H21	0.76	0.91
22:JB:2263:C:OP1	49:J3:28:ARG:CZ	2.18	0.91
22:JB:477:A:OP1	50:J4:16:HIS:ND1	2.02	0.91
22:JB:1148:G:H4'	31:JK:133:GLY:HA3	0.93	0.91
22:JB:1486:A:C6	22:JB:1536:G:C2	2.58	0.91
22:JB:2003:A:H8	48:J2:9:LYS:NZ	1.68	0.91
22:JB:2203:G:O3'	22:JB:2204:A:O4'	1.89	0.91
22:JB:455:A:N7	26:JF:39:ARG:CG	2.34	0.91
22:JB:1813:A:C5'	24:JD:202:LYS:NZ	2.33	0.91
22:JB:1090:C:O2	30:JJ:132:ARG:CD	2.18	0.91
1:AA:922:G:H4'	5:AE:20:GLN:NE2	1.83	0.91
5:AE:151:LEU:HD13	8:AH:79:VAL:O	0.74	0.91
3:AC:58:GLU:CB	10:AJ:92:THR:OG1	2.19	0.91
22:BB:166:G:H3'	47:B1:36:TRP:CZ2	2.04	0.91
22:BB:24:G:O2'	40:BT:98:ASP:HB3	1.70	0.91
22:BB:2525:U:H1'	22:BB:2544:A:N1	1.86	0.91
22:BB:613:A:N1	33:BM:97:ARG:CD	2.33	0.91
22:BB:2490:U:H4'	25:BE:124:GLY:CA	2.00	0.91
22:BB:627:A:P	26:BF:33:TRP:CH2	2.64	0.91
1:CA:1318:A:H4'	19:CS:10:PHE:CB	2.01	0.91
1:CA:1298:C:H5	7:CG:114:ARG:HD3	1.24	0.91
22:DB:124:A:N7	50:D4:18:PHE:CD1	2.37	0.91
22:DB:1172:U:H1'	39:DS:8:GLY:O	1.68	0.91
22:DB:590:C:C5'	38:DR:32:TYR:HB3	1.99	0.91
22:DB:922:A:H62	34:DN:17:ARG:H	1.14	0.91
22:DB:2661:G:O2'	25:DE:12:THR:CB	2.16	0.91
22:DB:512:A:C3'	40:DT:15:LYS:HZ3	1.81	0.91
1:EA:865:A:P	1:EA:1078:U:N3	2.44	0.91
3:EC:14:ILE:HD11	14:EN:57:ARG:NH1	1.86	0.91
1:EA:633:G:H5'	17:EQ:28:PRO:HG2	1.46	0.91
1:EA:1313:U:C3'	19:ES:6:LYS:HD3	2.01	0.91
22:FB:1377:G:OP2	47:F1:3:LYS:HG2	1.70	0.91
22:FB:2264:C:P	49:F3:28:ARG:HH11	1.92	0.91
22:FB:857:U:C2	22:FB:946:U:O2	2.23	0.91
1:GA:1392:G:O4'	1:GA:1531:A:H5''	1.71	0.91
10:GJ:11:PHE:CE1	14:GN:54:PRO:CB	2.52	0.91
22:HB:2328:G:C3'	51:H5:42:ARG:HD2	1.99	0.91
22:HB:1075:C:C5'	30:HJ:84:ILE:HD12	2.01	0.91
22:HB:1398:G:C2	22:HB:1416:A:C5	2.58	0.91
22:HB:2620:G:H5''	31:HK:102:ARG:NH1	1.84	0.91
34:HN:66:TYR:HE1	43:HW:115:ILE:CG1	1.67	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:HB:2237:C:H5	44:HX:2:ALA:HB1	1.33	0.91
1:IA:825:G:N2	8:IH:11:THR:CG2	2.27	0.91
1:IA:1055:A:O2'	3:IC:161:GLU:HA	1.71	0.91
6:IF:2:ARG:CZ	15:IO:2:PRO:HG2	1.98	0.91
13:IM:84:ILE:CD1	19:IS:74:PHE:CD2	2.53	0.91
22:JB:2000:U:C4'	48:J2:8:LYS:CE	2.46	0.91
22:JB:3178:C:N3	53:J7:161:ASP:OD1	1.80	0.91
22:JB:2490:U:H4'	25:JE:124:GLY:O	1.67	0.91
22:JB:2685:A:H1'	35:JO:64:ARG:HD2	1.52	0.91
22:JB:1741:G:O6	37:JQ:125:MET:HE1	1.71	0.91
22:JB:1265:G:O4'	38:JR:32:TYR:OH	1.85	0.91
1:AA:1061:G:H5'	10:AJ:58:ASP:C	1.90	0.91
1:AA:1412:C:H5''	12:AL:65:GLU:CD	1.90	0.91
22:BB:1377:G:N7	47:B1:3:LYS:HG2	1.84	0.91
22:BB:1043:A:O5'	52:B6:23:VAL:CG2	2.18	0.91
23:BA:95:U:OP1	43:BW:14:LEU:HD12	1.70	0.91
22:BB:1143:A:O4'	31:BK:111:LYS:HD2	1.24	0.91
22:BB:686:C:C4'	26:BF:74:VAL:HG12	1.97	0.91
22:BB:7:G:O3'	31:BK:79:PHE:CE1	2.24	0.91
22:BB:742:G:C8	24:BD:18:THR:HB	2.06	0.91
22:DB:930:A:H1'	23:DA:82:U:O2'	1.71	0.91
22:DB:1163:C:H1'	38:DR:78:THR:CA	1.79	0.91
22:DB:2463:G:C2'	34:DN:121:LEU:HD12	2.00	0.91
22:DB:3197:U:O3'	22:DB:2181:A:P	2.28	0.91
22:DB:548:G:C4'	31:DK:32:TYR:HD2	1.84	0.91
1:EA:1330:U:OP1	13:EM:25:ILE:C	2.09	0.91
1:EA:958:A:N3	19:ES:55:LYS:CB	2.29	0.91
1:EA:392:G:C5'	16:EP:13:HIS:HB2	2.00	0.91
22:FB:124:A:C5'	50:F4:19:ARG:NE	2.30	0.91
22:FB:3875:A:O4'	53:F7:43:LYS:CD	2.19	0.91
22:FB:1265:G:P	38:FR:36:PHE:CD1	2.63	0.91
22:FB:1363:C:C2'	22:FB:1588:A:C1'	2.22	0.91
22:FB:1750:A:H5'	22:FB:2695:C:O2'	1.70	0.91
22:FB:2240:C:H4'	22:FB:2366:U:C2'	2.01	0.91
22:FB:2315:A:C8	44:FX:70:ILE:CD1	2.51	0.91
22:FB:2600:A:C1'	25:FE:158:GLY:C	2.37	0.91
22:FB:2760:G:H1	31:FK:125:ARG:HD3	1.36	0.91
22:FB:331:U:H2'	26:FF:130:THR:HG23	1.52	0.91
22:FB:504:G:O2'	40:FT:25:PHE:C	2.09	0.91
26:FF:22:VAL:HG13	26:FF:23:ASN:H	1.31	0.91
22:FB:2043:A:OP1	26:FF:62:LYS:HD2	1.70	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:FB:2628:C:H1'	32:FL:28:GLY:HA3	1.51	0.91
41:FU:88:ILE:HG12	41:FU:90:ALA:H	1.34	0.91
1:GA:828:A:H2	2:GB:24:TRP:HE1	1.17	0.91
8:GH:33:GLU:HA	8:GH:36:LEU:HD12	1.52	0.91
9:GI:10:ARG:HA	9:GI:104:ARG:HG3	1.49	0.91
22:HB:3167:U:O4	53:H7:98:ARG:NE	2.03	0.91
22:HB:3177:C:H5''	53:H7:163:PRO:HG2	1.50	0.91
34:HN:98:VAL:HG13	34:HN:99:LYS:H	1.32	0.91
22:HB:572:G:C2	38:HR:33:ARG:NH1	2.38	0.91
1:IA:1320:C:H5''	19:IS:3:ARG:HD3	1.45	0.91
1:IA:718:G:C6	18:IR:81:PHE:CD2	2.59	0.91
1:IA:597:G:H21	8:IH:131:GLY:C	1.70	0.91
1:IA:642:A:C2	8:IH:131:GLY:HA3	2.06	0.91
1:IA:238:G:H5''	17:IQ:38:ARG:NH1	1.85	0.91
22:JB:1045:G:H22	22:JB:1131:G:H22	1.13	0.91
22:JB:2364:C:C1'	44:JX:37:LEU:HD21	2.01	0.91
22:JB:2823:G:N7	37:JQ:105:TYR:N	2.18	0.91
22:JB:635:C:P	51:J5:63:PRO:HD3	2.11	0.91
22:JB:470:U:O2	41:JU:68:PHE:HD2	1.53	0.91
1:AA:1228:C:C2	13:AM:120:LYS:N	2.38	0.91
1:AA:1108:G:P	3:AC:176:HIS:H	1.94	0.91
6:AF:99:ALA:HB2	18:AR:31:LEU:CG	1.98	0.91
22:BB:1378:A:C5'	47:B1:40:HIS:CE1	2.53	0.91
22:BB:1397:A:C6	22:BB:1418:C:N3	2.39	0.91
22:BB:1681:A:N1	22:BB:2706:U:C6	2.38	0.91
22:BB:1809:G:H5'	24:BD:63:ARG:HH12	1.10	0.91
22:BB:597:U:O4'	33:BM:28:LYS:NZ	2.03	0.91
22:BB:686:C:H4'	26:BF:74:VAL:HG11	1.51	0.91
34:BN:36:ILE:CG1	43:BW:74:ARG:NH1	2.30	0.91
35:BO:16:ALA:HB1	35:BO:20:LEU:HD12	1.52	0.91
23:DA:77:G:N9	43:DW:29:ASN:OD1	2.04	0.91
22:DB:2218:G:H5''	24:DD:230:ASP:C	1.91	0.91
22:DB:2240:C:OP2	44:DX:14:ARG:NE	2.03	0.91
15:CO:89:GLY:OXT	22:DB:730:C:C4	2.23	0.91
22:DB:1673:C:C6	25:DE:136:ARG:NH1	2.38	0.91
22:DB:1050:G:C5'	43:DW:37:LYS:HZ1	1.78	0.91
1:EA:1114:C:O2'	14:EN:61:TRP:CB	2.17	0.91
1:EA:1072:G:H21	2:EB:111:ARG:HE	1.15	0.91
22:FB:1636:G:C2'	50:F4:1:MET:HA	2.00	0.91
22:FB:230:C:H42	51:F5:4:MET:HG3	1.32	0.91
22:FB:409:G:OP1	47:F1:10:VAL:HG21	1.69	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:FB:2752:C:C1'	25:FE:166:THR:CG2	2.45	0.91
23:FA:14:C:C2	44:FX:53:MET:HA	2.06	0.91
1:GA:188:C:H42	20:GT:89:ARG:HH22	0.95	0.91
22:HB:1043:A:P	52:H6:8:LYS:HA	2.11	0.91
22:HB:1300:A:OP1	35:HO:103:ARG:CG	2.19	0.91
22:HB:1789:U:H5''	24:HD:257:LEU:CB	1.93	0.91
22:HB:2002:A:O2'	38:HR:34:ASN:CG	2.07	0.91
22:HB:2235:G:O2'	44:HX:9:SER:O	1.89	0.91
22:HB:2671:C:O2	22:HB:2822:U:H4'	1.70	0.91
22:HB:648:A:P	33:HM:131:LYS:HE2	2.10	0.91
22:HB:819:C:P	33:HM:41:SER:OG	2.29	0.91
41:HU:88:ILE:HG12	41:HU:90:ALA:H	1.34	0.91
43:HW:84:TYR:CE2	43:HW:128:ARG:CZ	2.52	0.91
22:HB:2365:U:H5''	44:HX:39:ARG:HH11	1.28	0.91
22:JB:3165:G:H8	53:J7:102:LYS:HZ1	1.13	0.91
22:JB:2811:G:H4'	37:JQ:4:HIS:CE1	2.04	0.91
22:JB:2848:A:H2	35:JO:7:GLY:O	1.44	0.91
22:JB:47:G:C2	22:JB:155:G:O6	2.24	0.91
22:JB:541:C:O2'	38:JR:25:TRP:CD2	2.23	0.91
22:JB:2489:C:O2'	25:JE:125:GLY:N	2.04	0.91
22:JB:1469:U:C2'	35:JO:63:ARG:NH1	2.32	0.91
22:JB:528:G:C4'	40:JT:97:VAL:CG2	2.48	0.91
1:AA:509:A:C5	4:AD:54:TYR:CE2	2.58	0.91
1:AA:689:C:OP2	11:AK:51:LYS:CD	2.15	0.91
22:BB:127:C:C5'	22:BB:1360:G:H22	1.83	0.91
22:BB:597:U:C4'	33:BM:28:LYS:NZ	2.33	0.91
22:BB:811:G:OP2	26:BF:55:GLY:HA2	1.71	0.91
22:BB:2599:U:H1'	25:BE:156:MET:HB3	1.50	0.91
22:BB:916:U:O2	43:BW:166:LEU:CA	2.18	0.91
1:CA:1187:G:C2	14:CN:61:TRP:HA	2.06	0.91
22:DB:2025:A:H62	31:DK:142:ARG:NH2	1.64	0.91
22:DB:2494:C:O3'	31:DK:108:GLY:CA	2.19	0.91
22:DB:25:U:H5'	40:DT:100:GLY:C	1.90	0.91
22:DB:687:G:C5'	26:DF:68:ARG:NH2	2.34	0.91
22:DB:889:C:C6	43:DW:165:GLU:OE1	2.24	0.91
22:DB:1803:G:N3	24:DD:47:GLY:HA3	1.86	0.91
22:DB:2035:G:H5'	25:DE:142:GLY:N	1.85	0.91
34:DN:99:LYS:HE3	43:DW:73:LYS:HZ1	1.36	0.91
1:EA:880:C:P	12:EL:7:ILE:CG2	2.58	0.91
1:EA:1227:A:C3'	13:EM:111:LYS:HZ1	1.80	0.91
1:EA:1318:A:O4'	19:ES:10:PHE:CD1	2.23	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:FB:231:G:O6	51:F5:4:MET:CA	2.19	0.91
22:FB:2577:A:H5''	24:FD:235:GLY:HA3	1.52	0.91
22:FB:2663:U:N3	22:FB:2705:A:N1	2.19	0.91
22:FB:505:G:N3	40:FT:82:ASN:HB3	1.85	0.91
22:FB:2461:G:H22	34:FN:53:ILE:CD1	1.83	0.91
40:FT:56:LEU:CB	48:F2:28:PRO:HD2	2.00	0.91
43:FW:64:ALA:C	43:FW:128:ARG:HH11	1.63	0.91
1:GA:922:G:H1	1:GA:1395:C:H42	1.07	0.91
12:GL:10:LEU:C	17:GQ:32:TYR:CG	2.42	0.91
22:HB:1045:G:H22	22:HB:1131:G:H22	1.14	0.91
22:HB:2364:C:C1'	44:HX:69:PHE:CZ	2.43	0.91
22:HB:75:C:O2	45:HY:59:GLU:OE1	1.88	0.91
22:JB:2064:U:H5'	47:J1:35:VAL:HG21	0.91	0.91
22:JB:3122:U:OP1	53:J7:131:ARG:CD	1.94	0.91
22:JB:3175:C:H2'	53:J7:33:ILE:HD11	1.53	0.91
23:JA:14:C:H6	44:JX:53:MET:CA	1.74	0.91
22:JB:2186:G:C2'	24:JD:70:ARG:HH21	1.83	0.91
22:JB:3093:C:H5''	29:JI:24:TYR:HB3	1.51	0.91
22:JB:461:A:OP1	26:JF:79:GLY:HA2	1.71	0.91
22:JB:567:G:C4'	31:JK:73:ASN:CA	2.48	0.91
22:JB:1820:G:N1	24:JD:221:GLN:CB	2.32	0.91
22:JB:1808:C:OP1	24:JD:63:ARG:HG3	1.69	0.91
22:JB:864:C:H4'	46:JZ:42:GLY:O	1.69	0.91
1:AA:895:G:H1'	17:AQ:100:LYS:NZ	1.84	0.91
22:BB:1091:C:H4'	30:BJ:125:ASN:CA	2.01	0.91
22:BB:1397:A:C4	22:BB:1418:C:C5	2.58	0.91
22:BB:613:A:H61	33:BM:97:ARG:CD	1.81	0.91
22:BB:910:U:H3'	22:BB:911:A:H8	1.31	0.91
22:BB:2760:G:H21	31:BK:150:VAL:CG1	1.74	0.91
32:BL:113:PRO:HG3	37:BQ:76:GLY:H	1.24	0.91
32:BL:87:SER:HA	37:BQ:82:PRO:C	1.91	0.91
22:BB:2364:C:H1'	44:BX:69:PHE:CZ	2.06	0.91
1:CA:740:U:O2'	15:CO:52:SER:HB3	1.71	0.91
1:CA:1309:G:OP1	13:CM:98:VAL:HB	1.69	0.91
1:CA:233:C:O2'	17:CQ:64:PRO:HD2	1.69	0.91
22:DB:16:G:H4'	48:D2:18:MET:SD	2.11	0.91
23:DA:115:G:H22	36:DP:49:GLN:NE2	1.67	0.91
22:DB:2654:A:H5'	32:DL:43:ARG:NH2	1.84	0.91
22:DB:547:U:H5''	31:DK:30:LYS:HG3	1.53	0.91
22:DB:2395:C:P	33:DM:62:LYS:HB3	2.11	0.91
1:EA:452:A:OP2	16:EP:43:LYS:HD3	1.71	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:FB:2325:A:H61	49:F3:27:ASN:ND2	1.68	0.91
49:F3:24:THR:CA	51:F5:35:GLY:HA2	2.01	0.91
22:FB:1240:G:H5''	38:FR:16:LYS:HD3	0.92	0.91
22:FB:1450:G:H22	22:FB:1531:C:H1'	1.29	0.91
22:FB:332:C:C5'	26:FF:130:THR:HG22	1.99	0.91
1:GA:864:A:OP2	5:GE:86:ALA:HA	1.69	0.91
1:GA:1146:A:C2	9:GI:5:TYR:OH	2.24	0.91
1:GA:1187:G:N2	14:GN:60:SER:O	2.03	0.91
22:HB:3866:A:N6	53:H7:44:GLY:CA	2.33	0.91
22:HB:2235:G:OP1	44:HX:5:LYS:HB2	1.71	0.91
22:HB:70:A:H61	41:HU:31:PRO:HD2	0.77	0.91
22:HB:221:A:H4'	33:HM:68:VAL:CG2	2.01	0.91
38:HR:101:ARG:HH22	39:HS:43:GLU:CD	1.68	0.91
1:IA:588:G:O2'	8:IH:31:PHE:HB3	1.71	0.91
1:IA:877:C:H5''	8:IH:88:LYS:NZ	1.83	0.91
1:IA:677:U:H1'	11:IK:119:CYS:SG	2.11	0.91
22:JB:411:C:OP1	47:J1:62:ARG:NH1	2.03	0.91
22:JB:3179:C:O4'	53:J7:39:ILE:CD1	2.19	0.91
22:JB:1792:C:OP1	24:JD:147:LEU:O	1.89	0.91
1:AA:1279:A:H61	10:AJ:43:ARG:HH12	1.19	0.91
1:AA:217:C:H1'	1:AA:470:U:H1'	1.50	0.91
1:AA:254:G:C2	17:AQ:16:GLN:CG	2.42	0.91
1:AA:740:U:O2'	15:AO:52:SER:CB	2.19	0.91
1:AA:985:C:C4'	19:AS:55:LYS:NZ	2.34	0.91
22:BB:2365:U:H1'	44:BX:37:LEU:CD1	2.00	0.91
1:CA:1225:A:H5'	13:CM:104:ARG:N	1.86	0.91
1:CA:1344:C:O2'	9:CI:120:ARG:HD3	1.69	0.91
1:CA:8:A:H5''	5:CE:121:LYS:HA	1.50	0.91
1:CA:1225:A:H5'	13:CM:103:THR:OG1	1.70	0.91
6:CF:50:TYR:CD1	18:CR:80:PRO:HA	2.05	0.91
22:DB:3122:U:O2	53:D7:162:GLN:NE2	1.84	0.91
23:DA:30:C:OP1	36:DP:34:SER:HB2	1.70	0.91
22:DB:219:G:C4	51:D5:3:LYS:N	2.29	0.91
22:DB:2261:G:N2	22:DB:2406:C:O2	2.03	0.91
22:DB:675:C:O3'	33:DM:26:THR:HA	0.73	0.91
25:DE:52:ALA:HB3	37:DQ:5:ILE:HG21	1.50	0.91
1:EA:1098:C:OP1	2:EB:144:ARG:HG2	1.69	0.91
22:FB:2040:A:C2'	48:F2:3:LYS:HB3	2.01	0.91
23:FA:116:C:C2'	36:FP:50:THR:CG2	2.44	0.91
22:FB:1889:G:OP1	22:FB:1913:G:C8	2.24	0.91
22:FB:2025:A:H62	31:FK:142:ARG:HH12	0.91	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:FB:2492:G:H2'	22:FB:2493:U:C2	2.06	0.91
22:FB:2186:G:O2'	24:FD:150:GLY:HA3	1.71	0.91
22:FB:573:C:O2'	38:FR:37:GLN:CD	2.07	0.91
7:GG:17:VAL:HG22	9:GI:41:VAL:HG13	1.51	0.91
7:GG:153:HIS:H	11:GK:59:TYR:HE1	0.96	0.91
1:GA:188:C:H42	20:GT:89:ARG:NH2	1.51	0.91
22:HB:1261:G:C8	38:HR:2:PRO:C	2.43	0.91
22:HB:2637:C:C5	28:HH:181:GLY:HA2	2.05	0.91
22:HB:3172:U:P	53:H7:105:ARG:HH12	1.93	0.91
22:HB:418:C:O3'	53:H7:1:MET:SD	2.29	0.91
22:HB:865:A:H61	22:HB:937:C:H42	1.19	0.91
22:HB:1467:U:O3'	35:HO:77:ARG:NH2	2.04	0.91
32:HL:91:PHE:HA	37:HQ:79:ARG:HD2	0.91	0.91
1:IA:1239:A:H62	1:IA:1299:A:H62	1.11	0.91
5:IE:151:LEU:HD23	8:IH:77:GLU:OE2	1.69	0.91
22:JB:475:U:C5'	50:J4:5:TYR:HD1	1.83	0.91
33:JM:60:LEU:C	51:J5:27:SER:OG	2.08	0.91
22:JB:2264:C:C5	49:J3:28:ARG:HB2	2.06	0.91
22:JB:1583:A:N9	24:JD:84:TYR:CD1	2.31	0.91
1:AA:1307:U:C4'	13:AM:109:THR:HG21	1.99	0.90
22:BB:1091:C:H4'	30:BJ:125:ASN:HB2	0.91	0.90
22:BB:2461:G:H1	34:BN:53:ILE:HG13	1.34	0.90
22:BB:2767:C:H5'	25:BE:60:ASN:O	1.70	0.90
22:BB:429:C:N3	22:BB:2386:G:N1	2.17	0.90
22:BB:575:U:O4	39:BS:79:GLN:O	1.88	0.90
22:BB:528:G:H1'	40:BT:96:TYR:HB2	1.52	0.90
1:CA:1343:G:H4'	9:CI:122:ALA:HB3	1.51	0.90
1:CA:439:A:C4'	4:CD:122:ARG:NH2	2.34	0.90
1:CA:546:G:N2	4:CD:2:GLY:N	2.19	0.90
13:CM:86:CYS:HB3	13:CM:92:HIS:CB	1.72	0.90
22:DB:1234:C:C5'	39:DS:68:LYS:HZ3	1.63	0.90
22:DB:1325:U:OP1	41:DU:68:PHE:HZ	1.32	0.90
33:DM:52:GLY:HA3	51:D5:55:TRP:CE3	2.06	0.90
1:EA:217:C:H1'	1:EA:470:U:H1'	1.50	0.90
1:EA:229:U:O2'	16:EP:23:ASP:OD2	1.89	0.90
22:FB:2773:G:O2'	22:FB:2780:A:O2'	1.87	0.90
28:FH:24:PHE:HB2	28:FH:35:VAL:HG11	1.53	0.90
22:FB:490:A:OP1	42:FV:3:ARG:CZ	2.19	0.90
22:FB:2310:G:O2'	44:FX:71:ASN:N	2.02	0.90
1:GA:108:G:C8	20:GT:12:ALA:O	2.24	0.90
1:GA:276:G:H4'	17:GQ:43:LEU:HD13	1.52	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:HB:2859:U:C2	48:H2:34:PRO:CB	2.54	0.90
22:HB:2553:G:H22	25:HE:140:SER:C	1.74	0.90
7:IG:16:LEU:HD21	9:II:42:ARG:NH1	1.85	0.90
22:JB:1363:C:O2'	22:JB:1588:A:C4'	2.20	0.90
22:JB:2722:C:H3'	52:J6:35:ARG:HH21	0.76	0.90
22:JB:402:A:C2	22:JB:2392:G:C4'	2.54	0.90
22:JB:648:A:P	33:JM:131:LYS:HZ1	1.93	0.90
22:JB:84:G:H22	22:JB:96:C:H2'	1.34	0.90
34:JN:60:ARG:NH1	43:JW:106:GLY:O	2.04	0.90
1:AA:1059:C:H4'	14:AN:45:ARG:HH21	1.15	0.90
1:AA:265:G:N3	17:AQ:64:PRO:HB2	1.87	0.90
7:AG:149:ARG:CZ	11:AK:59:TYR:OH	2.20	0.90
10:AJ:47:PHE:HE1	14:AN:56:VAL:HG13	0.76	0.90
1:AA:529:G:N1	12:AL:46:LYS:HB3	1.87	0.90
1:AA:1229:A:H2	13:AM:125:ARG:CB	1.81	0.90
10:AJ:47:PHE:CZ	14:AN:56:VAL:HG11	2.05	0.90
22:BB:2444:C:C5'	52:B6:3:VAL:CG2	2.50	0.90
22:BB:2462:C:O2'	34:BN:50:ALA:CA	2.17	0.90
22:BB:2646:C:C1'	28:BH:111:HIS:HD1	1.78	0.90
22:BB:597:U:C4'	33:BM:28:LYS:HZ3	1.85	0.90
22:BB:763:A:O5'	40:BT:109:ARG:O	1.88	0.90
22:BB:24:G:H1'	40:BT:98:ASP:HB3	1.49	0.90
1:CA:1231:G:C4	13:CM:126:LYS:HD3	2.06	0.90
1:CA:1320:C:N4	19:CS:36:ARG:HG3	1.87	0.90
22:DB:2710:C:C3'	25:DE:169:ASN:HB3	2.00	0.90
22:DB:862:A:H1'	46:DZ:21:GLN:NE2	1.85	0.90
1:EA:1226:C:P	13:EM:91:ARG:NH2	2.44	0.90
1:EA:640:A:O2'	8:EH:127:LEU:CD1	2.15	0.90
22:FB:1042:G:O2'	52:F6:6:SER:CA	2.19	0.90
22:FB:1045:G:H22	22:FB:1131:G:H22	1.13	0.90
22:FB:1613:G:H5''	22:FB:1614:C:O4'	1.71	0.90
22:FB:1630:A:H61	40:FT:109:ARG:N	1.68	0.90
22:FB:2399:C:H3'	51:F5:32:GLN:NE2	1.80	0.90
22:FB:865:A:H61	22:FB:937:C:H42	1.19	0.90
22:FB:1164:C:H5''	38:FR:76:TYR:CZ	2.05	0.90
34:FN:106:GLU:HG2	43:FW:115:ILE:HG23	1.53	0.90
43:FW:47:SER:C	43:FW:95:SER:OG	1.89	0.90
1:GA:375:U:O2'	16:GP:28:ARG:NH2	2.04	0.90
10:GJ:63:PHE:HZ	14:GN:49:HIS:HD1	1.11	0.90
22:HB:2503:G:N9	22:HB:2744:A:H2	1.68	0.90
22:HB:2862:G:N3	48:H2:30:LEU:HA	1.83	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:HB:603:C:H5'	51:H5:62:LEU:HD21	1.51	0.90
34:HN:68:ARG:HH22	43:HW:117:VAL:HG22	1.24	0.90
22:HB:1021:A:OP1	38:HR:62:ILE:O	1.89	0.90
1:IA:1320:C:O4'	19:IS:73:GLU:CD	2.08	0.90
1:IA:778:G:O2'	11:IK:120:ARG:O	1.88	0.90
1:IA:1320:C:P	19:IS:3:ARG:HD3	2.11	0.90
22:JB:1780:A:P	24:JD:222:ARG:HD3	2.10	0.90
22:JB:2810:A:C8	37:JQ:6:LYS:HG2	2.05	0.90
22:JB:491:A:H5''	42:JV:72:ARG:HG2	1.51	0.90
22:JB:528:G:H1'	40:JT:97:VAL:N	1.86	0.90
22:JB:884:C:H4'	34:JN:70:PHE:CG	2.04	0.90
43:JW:84:TYR:CE2	43:JW:92:VAL:HG23	2.03	0.90
1:AA:1471:G:OP1	32:BL:17:ARG:HD2	1.69	0.90
1:AA:668:G:H1'	15:AO:45:VAL:C	1.91	0.90
22:BB:176:A:C5	47:B1:30:GLU:HB3	2.06	0.90
22:BB:3866:A:C8	53:B7:43:LYS:CG	2.54	0.90
22:BB:1176:U:O2	22:BB:1198:C:O2'	1.90	0.90
22:BB:1237:G:O2'	39:BS:86:HIS:CA	2.19	0.90
22:BB:1828:C:N4	22:BB:1888:C:O2	2.05	0.90
22:BB:3866:A:H3'	53:B7:43:LYS:CA	2.02	0.90
22:BB:1508:G:OP1	24:BD:100:GLY:CA	2.18	0.90
34:BN:36:ILE:HG12	43:BW:74:ARG:NH2	1.86	0.90
1:CA:217:C:H1'	1:CA:470:U:H1'	1.50	0.90
1:CA:918:A:H2	1:CA:1079:G:N2	1.68	0.90
1:CA:1374:A:C2	7:CG:29:LYS:CE	2.53	0.90
9:CI:10:ARG:HA	9:CI:104:ARG:HG3	1.49	0.90
22:DB:2063:A:OP1	47:D1:20:VAL:HG13	1.71	0.90
22:DB:6:A:O2'	31:DK:161:GLN:CA	2.19	0.90
22:DB:84:G:H22	22:DB:96:C:H2'	1.34	0.90
34:DN:38:MET:HB2	43:DW:74:ARG:CG	2.02	0.90
22:FB:2328:G:H3'	51:F5:42:ARG:CD	2.02	0.90
23:FA:44:C:O3'	27:FG:64:LYS:CE	2.18	0.90
22:FB:1291:G:H5''	35:FO:35:GLN:CB	2.01	0.90
22:FB:2037:A:C5'	25:FE:145:LYS:HE3	2.00	0.90
22:FB:2540:A:C2'	32:FL:23:ARG:HG3	2.02	0.90
22:FB:1240:G:OP1	38:FR:16:LYS:CG	2.16	0.90
1:GA:1349:A:C5'	9:GI:121:ARG:HG2	2.01	0.90
1:GA:323:U:O2'	20:GT:19:SER:CB	0.61	0.90
1:GA:925:G:N2	1:GA:1503:A:OP1	2.05	0.90
1:GA:273:A:H1'	17:GQ:15:MET:HA	1.52	0.90
22:HB:2203:G:O3'	22:HB:2204:A:P	2.29	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:HB:2399:C:O5'	51:H5:32:GLN:HB2	1.70	0.90
22:HB:2503:G:C1'	22:HB:2744:A:N3	2.34	0.90
22:HB:5:A:C6	22:HB:2873:G:O6	2.24	0.90
22:HB:57:G:H3'	22:HB:72:A:H61	1.36	0.90
22:HB:80:A:O4'	22:HB:305:A:C2	2.25	0.90
22:HB:84:G:H22	22:HB:96:C:H2'	1.35	0.90
32:HL:85:ASP:O	37:HQ:84:ALA:N	2.04	0.90
1:IA:1206:G:H4'	3:IC:192:THR:O	1.69	0.90
1:IA:1226:C:C6	13:IM:104:ARG:CA	2.54	0.90
12:IL:11:VAL:N	17:IQ:34:LYS:HD2	1.86	0.90
22:JB:2074:U:N3	47:J1:42:PHE:CB	2.00	0.90
22:JB:2182:A:C4'	47:J1:44:THR:OG1	2.19	0.90
22:JB:3170:A:HO2'	53:J7:131:ARG:NH1	1.62	0.90
22:JB:465:C:O2	50:J4:39:ARG:NH2	2.05	0.90
22:JB:2463:G:C5'	34:JN:47:GLN:CG	2.50	0.90
1:AA:1131:G:C4'	9:AI:2:GLU:CG	2.50	0.90
1:AA:694:A:O5'	11:AK:53:SER:CB	2.13	0.90
22:BB:1040:A:C5'	34:BN:125:LYS:HZ3	1.85	0.90
22:BB:1042:G:N9	52:B6:6:SER:CA	2.21	0.90
22:BB:1045:G:H22	22:BB:1131:G:H22	1.14	0.90
22:BB:215:G:H1'	22:BB:618:A:C1'	2.01	0.90
22:BB:886:A:C1'	43:BW:167:THR:CB	2.48	0.90
22:BB:2489:C:O2	25:BE:125:GLY:HA2	1.71	0.90
22:DB:1111:C:H1'	28:DH:168:GLN:HE21	0.83	0.90
22:DB:1827:G:N2	22:DB:1828:C:H41	1.68	0.90
22:DB:2039:G:O2'	48:D2:5:PRO:N	2.02	0.90
22:DB:219:G:H5''	51:D5:62:LEU:HD13	0.90	0.90
22:DB:2393:G:N2	33:DM:66:ASN:HD21	1.69	0.90
22:DB:487:G:H21	22:DB:491:A:N6	1.69	0.90
23:DA:117:G:H4'	36:DP:52:ALA:CA	2.00	0.90
22:DB:1746:A:P	37:DQ:124:VAL:CG2	2.59	0.90
22:DB:1239:A:P	39:DS:73:LYS:NZ	2.44	0.90
22:DB:934:G:O2'	44:DX:23:VAL:CG2	2.19	0.90
1:EA:520:A:O2'	12:EL:73:GLU:CB	2.19	0.90
1:EA:523:A:N6	12:EL:90:VAL:CG1	2.34	0.90
1:EA:599:C:O2	8:EH:128:GLY:C	2.09	0.90
1:EA:919:A:C2	1:EA:920:U:O4	2.25	0.90
22:FB:2240:C:H5''	22:FB:2366:U:O2'	1.72	0.90
22:FB:2542:U:H5''	32:FL:40:GLY:N	1.87	0.90
22:FB:469:G:N7	50:F4:40:HIS:HB2	1.86	0.90
1:GA:412:A:N3	4:GD:30:LYS:O	2.03	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:GA:1131:G:C5'	9:GI:2:GLU:HB2	2.01	0.90
10:GJ:11:PHE:CE1	14:GN:54:PRO:CG	2.54	0.90
1:GA:1320:C:H1'	19:GS:73:GLU:HB3	1.52	0.90
22:HB:3093:C:O2	22:HB:2181:A:N6	2.05	0.90
22:HB:3172:U:OP2	53:H7:105:ARG:NH1	2.02	0.90
1:IA:815:A:H8	1:IA:1509:C:O2	1.54	0.90
7:IG:16:LEU:HG	9:II:42:ARG:CA	2.00	0.90
1:IA:1151:A:C5'	10:IJ:42:THR:HB	2.00	0.90
13:IM:87:TYR:H	19:IS:73:GLU:C	1.75	0.90
22:JB:2182:A:H4'	47:J1:44:THR:CA	2.01	0.90
22:JB:2399:C:N1	51:J5:32:GLN:HA	1.85	0.90
22:JB:2491:C:O2'	25:JE:141:ILE:HG22	1.70	0.90
22:JB:2850:U:C1'	37:JQ:13:LEU:CD1	2.48	0.90
34:JN:32:ASP:OD2	43:JW:116:VAL:CA	2.19	0.90
1:AA:1130:A:H5''	9:AI:18:PHE:CD2	2.06	0.90
1:AA:586:C:OP1	17:AQ:34:LYS:NZ	2.04	0.90
1:AA:509:A:C8	4:AD:54:TYR:CD2	2.59	0.90
5:AE:78:HIS:HB2	8:AH:104:ARG:NH2	1.81	0.90
10:AJ:11:PHE:CE1	14:AN:54:PRO:C	2.45	0.90
13:AM:88:ARG:HD3	13:AM:92:HIS:HE1	1.33	0.90
10:AJ:49:VAL:HG13	14:AN:45:ARG:CB	1.98	0.90
1:AA:761:G:C4'	17:AQ:102:GLY:C	2.38	0.90
22:BB:2412:A:H2	47:B1:30:GLU:HA	1.36	0.90
22:BB:2753:C:H1'	25:BE:163:GLU:OE1	1.71	0.90
23:BA:98:C:N4	43:BW:10:PRO:HD2	1.86	0.90
1:CA:1229:A:N7	13:CM:120:LYS:HB3	1.85	0.90
1:CA:644:G:C1'	8:CH:90:GLY:H	1.83	0.90
1:CA:1311:G:N7	19:CS:2:PRO:CA	2.34	0.90
22:DB:699:G:C6	50:D4:5:TYR:CA	2.53	0.90
23:DA:96:C:OP1	43:DW:14:LEU:C	2.09	0.90
22:DB:1045:G:H22	22:DB:1131:G:H22	1.13	0.90
23:DA:78:A:O2'	43:DW:20:ALA:HB1	1.71	0.90
1:EA:529:G:O6	12:EL:49:ASN:HA	1.69	0.90
1:EA:537:G:OP1	12:EL:120:TYR:OH	1.88	0.90
9:EI:10:ARG:HA	9:EI:104:ARG:HG3	1.49	0.90
22:FB:3877:A:O3'	22:FB:1861:G:OP2	1.89	0.90
22:FB:1148:G:N2	31:FK:52:GLY:O	2.05	0.90
35:FO:16:ALA:HB1	35:FO:20:LEU:HD12	1.52	0.90
1:GA:17:U:OP1	5:GE:14:ARG:HB2	1.71	0.90
1:GA:877:C:O2'	8:GH:3:THR:O	1.88	0.90
1:GA:223:U:C6	20:GT:68:LYS:CE	2.54	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:HB:1483:G:O2'	22:HB:1484:G:H1'	1.71	0.90
22:HB:1888:C:H2'	22:HB:1913:G:C5	2.07	0.90
22:HB:1140:A:H2	22:HB:2549:G:H4'	1.34	0.90
22:HB:47:G:N2	22:HB:154:U:P	2.45	0.90
22:HB:2491:C:C1'	25:HE:139:GLY:O	2.20	0.90
28:HH:24:PHE:HB2	28:HH:35:VAL:HG11	1.53	0.90
22:HB:596:C:C6	33:HM:29:THR:CG2	2.55	0.90
22:HB:1468:A:C6	35:HO:76:VAL:HG22	2.05	0.90
22:HB:574:C:OP2	39:HS:79:GLN:NE2	2.05	0.90
22:HB:915:C:O2'	43:HW:163:ASP:HB3	1.69	0.90
1:IA:768:A:O4'	1:IA:1523:G:N2	2.04	0.90
1:IA:392:G:OP1	16:IP:12:LYS:CA	2.19	0.90
1:IA:1441:G:H1	20:IT:27:LYS:CE	1.84	0.90
22:JB:16:G:C4'	48:J2:14:SER:O	2.19	0.90
22:JB:1261:G:O6	26:JF:44:SER:OG	1.87	0.90
22:JB:1829:C:H5'	22:JB:1911:A:H4'	0.92	0.90
22:JB:2487:G:O3'	22:JB:2534:U:C5'	2.19	0.90
22:JB:1820:G:C6	24:JD:221:GLN:HG2	1.98	0.90
22:JB:2491:C:C4'	25:JE:138:PRO:HB3	2.00	0.90
25:JE:144:ARG:HD2	25:JE:146:THR:H	1.32	0.90
33:JM:62:LYS:N	51:J5:30:ARG:NH1	2.17	0.90
22:JB:1007:A:H5''	38:JR:93:LYS:HE2	1.53	0.90
22:JB:489:A:HO2'	42:JV:74:LEU:HA	1.33	0.90
1:AA:1220:G:N2	19:AS:54:GLY:C	2.25	0.90
19:AS:51:VAL:HG23	19:AS:60:VAL:HG21	1.54	0.90
22:BB:1043:A:H8	52:B6:23:VAL:HG23	1.17	0.90
22:BB:1237:G:H5''	39:BS:87:ARG:HB2	0.91	0.90
22:BB:1402:G:C4	22:BB:1412:C:N3	2.39	0.90
22:BB:3196:G:N2	22:BB:2181:A:H62	1.70	0.90
22:BB:2393:G:O2'	33:BM:65:PHE:HB2	1.71	0.90
22:BB:2465:G:C5'	34:BN:123:GLY:CA	2.49	0.90
22:BB:2668:U:O2'	35:BO:14:SER:HB3	1.72	0.90
41:BU:8:GLN:HG3	45:BY:26:MET:CE	2.01	0.90
1:CA:620:C:H4'	4:CD:138:TYR:CD1	2.06	0.90
1:CA:1239:A:H2'	7:CG:115:ARG:CG	2.02	0.90
10:CJ:63:PHE:CE2	14:CN:58:LYS:CG	2.54	0.90
1:CA:111:G:OP1	16:CP:27:LYS:CE	2.19	0.90
22:DB:2398:U:H5	51:D5:31:HIS:H	1.14	0.90
22:DB:2470:U:C2	22:DB:2549:G:P	2.64	0.90
22:DB:2462:C:HO2'	34:DN:50:ALA:HB1	1.20	0.90
22:DB:512:A:H5''	40:DT:15:LYS:CB	2.00	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:FB:2398:U:H5''	51:F5:34:THR:HG1	1.31	0.90
22:FB:1531:C:C2'	22:FB:1572:C:O2	2.20	0.90
22:FB:2700:U:O4	22:FB:2848:A:N6	2.03	0.90
22:FB:1240:G:OP1	38:FR:16:LYS:HG2	1.71	0.90
22:FB:1405:A:H61	41:FU:15:LYS:HB2	1.33	0.90
34:FN:36:ILE:HG13	43:FW:74:ARG:C	1.92	0.90
1:GA:1114:C:O2	14:GN:61:TRP:CB	2.18	0.90
1:GA:1495:U:O4'	22:HB:1895:A:N3	2.03	0.90
1:GA:721:G:OP2	18:GR:52:PRO:HB3	1.71	0.90
22:HB:1129:A:H4'	43:HW:76:ARG:HH11	1.09	0.90
22:HB:3171:A:O3'	53:H7:105:ARG:CZ	2.19	0.90
6:GF:81:ILE:O	24:HD:137:PRO:CB	2.19	0.90
33:HM:59:ARG:O	33:HM:60:LEU:HB2	1.71	0.90
1:IA:1228:C:C5'	13:IM:108:ARG:CZ	2.50	0.90
22:JB:2261:G:O3'	49:J3:3:LYS:NZ	1.95	0.90
22:JB:115:G:C3'	50:J4:22:MET:HE1	1.94	0.90
22:JB:3179:C:O4'	53:J7:39:ILE:HD13	1.48	0.90
22:JB:1808:C:C5	24:JD:65:ILE:CG2	2.55	0.90
22:JB:1829:C:H5'	22:JB:1911:A:C5'	2.02	0.90
22:JB:2372:A:O2'	33:JM:63:ARG:CZ	2.19	0.90
22:JB:2823:G:N7	37:JQ:105:TYR:CB	2.34	0.90
22:JB:63:A:C1'	41:JU:62:ARG:CB	2.35	0.90
22:JB:865:A:H61	22:JB:937:C:H42	1.19	0.90
34:JN:98:VAL:HG13	34:JN:99:LYS:H	1.32	0.90
22:JB:2003:A:C5'	38:JR:25:TRP:HZ3	1.84	0.90
1:AA:187:G:H22	1:GA:190:A:C5'	1.85	0.90
22:BB:1040:A:C4'	34:BN:125:LYS:HZ1	1.65	0.90
22:BB:504:G:N3	40:BT:78:ASN:OD1	2.04	0.90
22:BB:1508:G:OP1	24:BD:100:GLY:C	2.09	0.90
22:BB:1581:C:H5	24:BD:28:ARG:NH1	1.45	0.90
22:BB:2723:C:O4'	28:BH:150:LYS:CE	2.20	0.90
32:BL:83:ARG:CD	37:BQ:83:PHE:HD2	1.85	0.90
1:CA:932:C:H5	7:CG:3:ARG:HH12	1.14	0.90
1:CA:644:G:O2'	8:CH:90:GLY:N	2.03	0.90
1:CA:742:G:H5''	15:CO:58:MET:SD	2.08	0.90
22:DB:1355:A:OP1	41:DU:55:THR:O	1.88	0.90
22:DB:865:A:H61	22:DB:937:C:H42	1.19	0.90
22:DB:918:A:OP1	43:DW:120:LEU:HA	1.70	0.90
1:EA:1239:A:H62	1:EA:1299:A:H62	1.11	0.90
4:ED:205:GLU:HB3	5:EE:101:ILE:CA	2.00	0.90
1:EA:1382:C:C4'	7:EG:79:ARG:HD2	2.01	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:FB:409:G:H4'	47:F1:39:VAL:HG21	1.49	0.90
22:FB:1992:G:C5'	40:FT:62:ARG:CA	2.50	0.90
22:FB:2265:A:C4	49:F3:31:THR:CG2	2.43	0.90
22:FB:84:G:H22	22:FB:96:C:H2'	1.35	0.90
22:FB:2551:A:H61	25:FE:145:LYS:N	1.68	0.90
22:FB:1234:C:O3'	39:FS:68:LYS:CD	2.20	0.90
1:GA:1250:A:O3'	9:GI:12:GLU:OE1	1.90	0.90
1:GA:273:A:N3	17:GQ:15:MET:CG	2.34	0.90
3:GC:60:ALA:N	10:GJ:92:THR:HG21	1.84	0.90
1:GA:128:G:P	17:GQ:2:PRO:O	2.29	0.90
22:HB:7:G:H5'	31:HK:161:GLN:NE2	1.84	0.90
22:HB:95:G:H1'	45:HY:45:GLN:CG	1.92	0.90
22:HB:2357:A:C3'	36:HP:19:THR:HG21	2.00	0.90
1:IA:642:A:C5'	8:IH:117:GLY:HA2	2.01	0.90
1:IA:1350:A:N3	7:IG:33:ASP:O	2.04	0.90
1:IA:966:G:C4'	9:II:127:LYS:HE2	2.01	0.90
1:IA:1147:C:N1	9:II:16:ARG:NH2	2.19	0.90
22:JB:2328:G:OP1	51:J5:42:ARG:CZ	2.20	0.90
22:JB:114:C:H1'	22:JB:124:A:N3	1.87	0.90
22:JB:338:G:C2'	42:JV:77:HIS:HE1	1.71	0.90
22:JB:508:G:H21	42:JV:56:LYS:HG2	1.36	0.90
22:JB:603:C:H2'	22:JB:604:U:O4'	1.72	0.90
22:JB:671:A:H2	26:JF:96:PRO:CG	1.85	0.90
22:JB:1999:U:OP1	26:JF:65:GLY:CA	2.19	0.90
22:JB:846:A:C5'	33:JM:52:GLY:O	2.20	0.90
22:JB:2823:G:C6	37:JQ:105:TYR:CE2	2.59	0.90
1:AA:1257:U:P	3:AC:27:LYS:NZ	2.44	0.90
1:AA:559:A:N1	5:AE:126:ARG:NH1	2.06	0.90
5:AE:150:ARG:CD	8:AH:77:GLU:OE2	2.20	0.90
1:AA:949:A:OP1	13:AM:102:ARG:NH2	2.04	0.90
22:BB:2444:C:C5'	52:B6:3:VAL:HG22	2.02	0.90
22:BB:1043:A:C3'	52:B6:16:VAL:HG12	1.92	0.90
22:BB:127:C:C4'	22:BB:1360:G:N2	2.35	0.90
22:BB:122:G:C5'	22:BB:1390:G:OP1	2.20	0.90
15:AO:89:GLY:HA3	22:BB:729:A:P	2.11	0.90
22:BB:84:G:H22	22:BB:96:C:H2'	1.35	0.90
22:BB:1070:G:C4	30:BJ:126:THR:CG2	2.55	0.90
22:BB:2008:C:N1	31:BK:103:TYR:CZ	2.12	0.90
22:BB:1142:G:C4'	31:BK:111:LYS:CB	2.46	0.90
22:BB:489:A:H5''	42:BV:4:PRO:C	1.89	0.90
1:CA:436:C:H1'	4:CD:157:LEU:CD1	2.01	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:CI:19:LEU:HA	9:CI:61:ALA:HA	1.54	0.90
1:CA:1279:A:P	10:CJ:99:LYS:NZ	2.45	0.90
22:DB:2329:C:OP2	51:D5:42:ARG:HD3	1.69	0.90
23:DA:105:G:C5'	43:DW:91:PRO:CA	2.41	0.90
22:DB:1795:C:H4'	24:DD:250:TRP:CZ2	2.06	0.90
22:DB:1883:A:C8	22:DB:1953:A:N7	2.40	0.90
22:DB:2576:G:H5''	24:DD:239:ARG:HH22	1.07	0.90
22:DB:2628:C:C4'	32:DL:29:ILE:CD1	1.95	0.90
22:DB:637:G:N2	33:DM:72:TYR:OH	2.04	0.90
22:DB:892:A:N6	22:DB:912:A:C2	2.39	0.90
22:DB:2474:G:C4'	34:DN:83:ARG:CG	2.49	0.90
23:DA:10:U:O3'	36:DP:28:ARG:NH1	2.04	0.90
1:EA:539:A:P	12:EL:114:LYS:O	2.29	0.90
22:FB:477:A:OP1	50:F4:12:ARG:NH2	2.05	0.90
22:FB:2700:U:H3	22:FB:2848:A:N6	1.67	0.90
22:FB:528:G:O2'	40:FT:39:ARG:HD3	1.72	0.90
22:FB:1790:G:H22	24:FD:180:GLY:HA3	1.37	0.90
22:FB:3093:C:C5'	29:FI:22:ASP:H	1.78	0.90
22:FB:75:C:O3'	45:FY:52:GLN:OE1	1.87	0.90
1:GA:60:A:H61	20:GT:12:ALA:HB2	1.26	0.90
22:HB:2064:U:P	47:H1:33:VAL:HG13	2.04	0.90
22:HB:2372:A:O4'	33:HM:60:LEU:CA	2.18	0.90
22:HB:593:C:H5''	38:HR:3:ARG:NH1	1.87	0.90
22:HB:1165:G:OP1	38:HR:58:ARG:CD	2.19	0.90
22:HB:1338:G:O4'	40:HT:107:ILE:HG22	1.71	0.90
1:IA:537:G:H5''	12:IL:113:ARG:HH12	1.23	0.90
1:IA:450:G:O2'	16:IP:15:PRO:HG3	1.72	0.90
22:JB:1004:A:N1	22:JB:1172:U:N3	2.19	0.90
22:JB:2462:C:O2	34:JN:121:LEU:CD1	2.20	0.90
22:JB:348:U:H5'	42:JV:13:LYS:HB3	1.50	0.90
22:JB:348:U:C5'	42:JV:13:LYS:HB3	1.99	0.90
1:AA:43:C:H5''	16:AP:12:LYS:CD	2.02	0.90
1:AA:254:G:C4	17:AQ:16:GLN:CB	2.51	0.90
1:AA:1320:C:O2	19:AS:72:GLY:O	1.90	0.90
25:BE:18:ASP:OD2	32:BL:85:ASP:CA	2.18	0.90
33:BM:59:ARG:O	33:BM:60:LEU:HB2	1.71	0.90
22:BB:971:A:N1	34:BN:83:ARG:NH1	2.18	0.90
22:BB:575:U:O4	39:BS:79:GLN:HG3	0.72	0.90
22:BB:1237:G:O2'	39:BS:85:GLY:O	1.89	0.90
1:CA:815:A:C4	1:CA:1529:G:N3	2.39	0.90
1:CA:587:G:C4'	8:CH:3:THR:HA	2.02	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:1239:A:H2'	7:CG:115:ARG:CD	1.97	0.90
22:DB:1804:U:C1'	24:DD:46:ARG:HG2	2.01	0.90
22:DB:2249:U:H4'	44:DX:18:PRO:HD2	1.53	0.90
22:DB:2745:A:N7	22:DB:2746:G:C8	2.40	0.90
22:DB:2614:A:HO2'	25:DE:77:ILE:HG22	1.32	0.90
22:DB:497:C:O2'	40:DT:77:ALA:HB1	1.72	0.90
1:EA:1104:G:H1'	2:EB:111:ARG:CZ	1.90	0.90
1:EA:279:A:H2'	17:EQ:94:ASN:O	1.71	0.90
9:EI:19:LEU:HA	9:EI:61:ALA:HA	1.53	0.90
22:FB:1998:A:H1'	48:F2:3:LYS:HZ2	1.28	0.90
22:FB:3875:A:C4'	53:F7:43:LYS:HB3	2.02	0.90
23:FA:92:G:H21	34:FN:22:ALA:HA	1.34	0.90
22:FB:1072:U:H3	30:FJ:11:GLN:CA	1.85	0.90
22:FB:1289:A:H2	35:FO:23:ALA:C	1.74	0.90
23:FA:49:C:H4'	36:FP:95:LYS:HG3	0.90	0.90
22:FB:347:C:N1	42:FV:10:HIS:CE1	2.39	0.90
1:GA:37:U:OP1	12:GL:125:PRO:HD3	1.72	0.90
13:GM:87:TYR:CD2	19:GS:3:ARG:NH2	2.38	0.90
22:HB:1377:G:C5'	47:H1:40:HIS:HE1	1.85	0.90
22:HB:718:A:H61	22:HB:739:G:H1'	1.33	0.90
22:HB:916:U:H2'	43:HW:166:LEU:HD12	0.92	0.90
22:HB:2236:U:OP1	44:HX:4:LYS:HD3	1.52	0.90
1:IA:1103:C:O2'	2:IB:111:ARG:HB2	1.72	0.90
1:IA:1114:C:H4'	14:IN:60:SER:H	1.37	0.90
1:IA:968:A:C2'	9:II:128:ARG:HG3	2.00	0.90
4:ID:107:ARG:HA	4:ID:107:ARG:HH11	1.37	0.90
1:IA:588:G:HO2'	8:IH:31:PHE:HB2	1.33	0.90
10:IJ:64:GLU:HG3	14:IN:59:ALA:N	1.87	0.90
23:JA:14:C:H5	44:JX:53:MET:HA	1.33	0.90
22:JB:1268:U:P	26:JF:68:ARG:HG2	2.11	0.90
22:JB:2363:G:P	44:JX:39:ARG:HE	1.91	0.90
22:JB:236:C:H1'	22:JB:632:A:HO2'	1.13	0.90
22:JB:2823:G:C5	37:JQ:105:TYR:HD2	1.83	0.90
43:JW:84:TYR:CE1	43:JW:92:VAL:HG22	2.07	0.90
1:AA:667:G:O3'	15:AO:48:LYS:HB2	1.72	0.90
9:AI:19:LEU:HA	9:AI:61:ALA:HA	1.54	0.90
22:BB:1377:G:C8	47:B1:3:LYS:CG	2.53	0.90
22:BB:2790:C:O2'	48:B2:43:HIS:CG	2.25	0.90
22:BB:1141:U:N3	31:BK:106:TYR:CD1	2.39	0.90
22:BB:2724:G:N2	28:BH:143:GLN:NE2	2.07	0.90
22:BB:2789:U:O2	48:B2:42:SER:CA	2.19	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:BB:2862:G:C1'	48:B2:31:THR:CA	2.47	0.90
22:BB:2599:U:H5'	25:BE:154:LYS:O	1.71	0.90
22:BB:2723:C:O4'	28:BH:150:LYS:HE2	1.72	0.90
22:BB:1325:U:C4	41:BU:61:LYS:CD	2.54	0.90
3:CC:58:GLU:HB2	3:CC:65:ALA:HB3	1.53	0.90
4:CD:107:ARG:HH11	4:CD:107:ARG:HA	1.37	0.90
1:CA:875:C:H1'	8:CH:15:ASN:OD1	1.69	0.90
1:CA:1309:G:OP1	13:CM:88:ARG:HD3	1.70	0.90
1:CA:111:G:H5'	16:CP:27:LYS:HG2	1.54	0.90
19:CS:51:VAL:HG23	19:CS:60:VAL:HG21	1.54	0.90
33:DM:58:ALA:O	51:D5:12:ARG:HD3	1.72	0.90
22:DB:1363:C:O2	22:DB:1588:A:H1'	1.72	0.90
22:DB:1887:G:N7	22:DB:1888:C:C5	2.39	0.90
22:DB:596:C:C2'	33:DM:29:THR:HB	1.99	0.90
1:EA:640:A:H2	8:EH:129:VAL:CA	1.82	0.90
3:EC:18:TRP:HZ2	14:EN:53:LEU:CG	1.83	0.90
4:ED:107:ARG:HA	4:ED:107:ARG:HH11	1.37	0.90
1:EA:1225:A:C5'	13:EM:102:ARG:HA	2.02	0.90
22:FB:2284:U:C2	27:FG:152:MET:CE	2.54	0.90
22:FB:2620:G:H5'	31:FK:102:ARG:HH11	1.37	0.90
22:FB:2653:A:H5''	32:FL:44:TYR:HH	1.22	0.90
1:GA:222:U:C2'	20:GT:68:LYS:HE2	2.00	0.90
13:GM:86:CYS:CA	19:GS:74:PHE:HE2	1.78	0.90
22:HB:2007:G:H1'	31:HK:103:TYR:OH	1.71	0.90
22:HB:2240:C:HO2'	22:HB:2306:A:H61	1.10	0.90
22:HB:2463:G:N2	34:HN:120:ARG:CG	2.26	0.90
22:HB:248:A:C8	22:HB:373:A:N6	2.40	0.90
22:HB:3875:A:H2	53:H7:43:LYS:HA	1.33	0.90
22:HB:1996:A:H4'	40:HT:116:ILE:HG22	1.52	0.90
1:IA:1189:C:O2'	3:IC:176:HIS:CE1	2.25	0.90
8:IH:33:GLU:HA	8:IH:36:LEU:HD12	1.52	0.90
19:IS:51:VAL:HG23	19:IS:60:VAL:HG21	1.54	0.90
40:JT:44:VAL:HG23	48:J2:20:ARG:HH21	1.08	0.90
22:JB:475:U:H5''	50:J4:5:TYR:HD1	1.35	0.90
22:JB:2722:C:C3'	52:J6:35:ARG:NH2	2.29	0.90
22:JB:1289:A:OP2	22:JB:1662:G:N3	2.05	0.90
43:JW:51:LEU:HD13	43:JW:128:ARG:NE	1.86	0.90
1:AA:1279:A:N6	10:AJ:43:ARG:HH12	1.70	0.89
1:AA:691:G:O6	11:AK:51:LYS:HB3	1.72	0.89
3:AC:58:GLU:HB2	3:AC:65:ALA:HB3	1.53	0.89
1:AA:254:G:N3	17:AQ:17:LYS:HG3	1.85	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:BB:1142:G:N7	31:BK:106:TYR:N	2.18	0.89
22:BB:2600:A:H1'	25:BE:158:GLY:HA2	1.51	0.89
22:BB:511:A:C6	40:BT:12:LYS:HD2	2.07	0.89
22:BB:215:G:O2'	22:BB:618:A:O4'	1.89	0.89
22:BB:1236:G:N1	39:BS:73:LYS:HE2	1.87	0.89
22:DB:2063:A:H5'	47:D1:20:VAL:HG22	1.51	0.89
22:DB:164:G:OP1	47:D1:13:LYS:HD3	1.71	0.89
22:DB:2470:U:N3	22:DB:2548:G:O2'	1.93	0.89
22:DB:2725:C:H1'	28:DH:139:GLN:HA	1.53	0.89
22:DB:2745:A:C6	22:DB:2746:G:C4	2.60	0.89
22:DB:659:G:N2	51:D5:46:LYS:HE2	1.86	0.89
22:DB:687:G:H5'	26:DF:68:ARG:NH2	1.87	0.89
22:DB:2598:C:H1'	25:DE:154:LYS:HZ3	1.30	0.89
1:EA:1320:C:H42	19:ES:36:ARG:HG2	1.23	0.89
1:EA:1367:C:O2'	10:EJ:60:ARG:NH2	2.05	0.89
1:EA:644:G:H5'	8:EH:132:GLU:OE2	1.70	0.89
1:EA:778:G:O2'	11:EK:120:ARG:O	1.88	0.89
22:FB:1135:C:HO2'	52:F6:4:ARG:HG2	1.37	0.89
22:FB:2241:U:H5''	22:FB:2307:A:H2	1.37	0.89
22:FB:469:G:H3'	50:F4:40:HIS:HD2	1.18	0.89
22:FB:864:C:C5'	46:FZ:42:GLY:O	2.20	0.89
25:FE:19:ARG:NH2	37:FQ:65:SER:CA	0.75	0.89
22:FB:610:G:C4'	26:FF:98:GLN:NE2	2.33	0.89
22:FB:980:G:P	46:FZ:14:GLY:N	2.45	0.89
1:GA:559:A:H2	5:GE:126:ARG:HD3	1.36	0.89
1:GA:8:A:C1'	5:GE:107:ARG:NH2	2.35	0.89
1:GA:273:A:O2'	17:GQ:15:MET:HA	1.71	0.89
22:HB:2007:G:C2'	31:HK:103:TYR:OH	2.20	0.89
22:HB:3876:A:H62	53:H7:45:ASP:HB3	0.75	0.89
22:HB:603:C:H2'	22:HB:604:U:N1	1.87	0.89
26:HF:15:ILE:HG23	26:HF:16:GLU:H	1.38	0.89
22:HB:1020:A:H5'	38:HR:59:ARG:HD3	1.52	0.89
22:HB:512:A:C8	40:HT:16:GLN:OE1	2.23	0.89
22:HB:498:C:O4'	40:HT:77:ALA:HB2	1.71	0.89
1:IA:1190:G:OP1	3:IC:4:LYS:CA	2.19	0.89
1:IA:1186:G:C1'	9:II:110:GLU:OE2	2.20	0.89
1:IA:1115:C:P	10:IJ:46:ARG:NH2	2.46	0.89
1:IA:845:A:O2'	18:IR:23:LYS:NZ	2.05	0.89
22:JB:2074:U:C2	47:J1:42:PHE:HB3	2.07	0.89
22:JB:1139:A:N6	22:JB:2470:U:O4	2.02	0.89
22:JB:1173:G:O3'	39:JS:91:THR:OG1	1.89	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:JB:16:G:H5''	48:J2:17:ASP:CA	1.84	0.89
22:JB:1781:C:H5''	24:JD:213:ARG:HH21	1.33	0.89
22:JB:2182:A:O2'	47:J1:43:TRP:CB	2.20	0.89
22:JB:71:A:N6	45:JY:58:ALA:HB2	1.87	0.89
26:JF:15:ILE:HG23	26:JF:16:GLU:H	1.37	0.89
22:JB:2848:A:N3	35:JO:7:GLY:O	2.04	0.89
1:AA:980:C:H4'	14:AN:19:ARG:HH22	0.76	0.89
1:AA:1187:G:N3	14:AN:61:TRP:N	2.20	0.89
6:AF:99:ALA:CB	18:AR:31:LEU:HG	2.02	0.89
22:BB:1798:G:H5'	24:BD:49:ILE:CD1	2.01	0.89
22:BB:2503:G:N2	22:BB:2721:A:H1'	1.87	0.89
22:BB:2766:U:H4'	25:BE:61:LYS:O	1.71	0.89
22:BB:625:A:C2	26:BF:176:ASN:ND2	2.41	0.89
22:BB:2723:C:H1'	28:BH:150:LYS:HD3	0.91	0.89
1:CA:275:G:C4	17:CQ:15:MET:SD	2.62	0.89
1:CA:932:C:H5	7:CG:3:ARG:NH2	1.67	0.89
22:DB:2632:U:H3	28:DH:110:SER:H	0.90	0.89
22:DB:742:G:C6	24:DD:18:THR:HA	2.07	0.89
22:DB:917:U:O2'	43:DW:120:LEU:C	2.11	0.89
22:DB:1582:A:P	24:DD:24:LEU:HD13	2.12	0.89
22:DB:2786:G:C4'	25:DE:59:VAL:HA	2.02	0.89
32:DL:113:PRO:CD	37:DQ:75:GLU:O	2.21	0.89
22:DB:827:C:N4	33:DM:32:ARG:NH1	2.20	0.89
34:DN:66:TYR:HE2	43:DW:118:HIS:CE1	1.44	0.89
35:DO:16:ALA:HB1	35:DO:20:LEU:HD12	1.52	0.89
1:EA:689:C:C5	11:EK:51:LYS:NZ	2.40	0.89
1:EA:926:G:N1	1:EA:1505:G:N2	2.20	0.89
6:EF:48:LEU:HD23	18:ER:78:LEU:HA	1.51	0.89
22:FB:1005:U:C5	38:FR:51:ARG:NH1	2.40	0.89
22:FB:1018:C:O2'	31:FK:134:MET:CA	2.19	0.89
22:FB:597:U:H1'	26:FF:84:PHE:CZ	2.06	0.89
22:FB:76:C:O5'	45:FY:52:GLN:OE1	1.89	0.89
22:FB:2035:G:C4'	25:FE:142:GLY:CA	2.49	0.89
22:FB:497:C:O2'	40:FT:80:LEU:HD12	1.72	0.89
1:GA:1187:G:C2	14:GN:61:TRP:N	2.39	0.89
1:GA:1187:G:N2	14:GN:60:SER:OG	2.05	0.89
1:GA:16:A:H4'	5:GE:15:ARG:C	1.64	0.89
1:GA:323:U:O2'	20:GT:19:SER:HB2	1.14	0.89
22:HB:1247:U:C5	40:HT:11:LYS:HE3	2.07	0.89
22:HB:2848:A:H2	35:HO:8:ARG:O	1.56	0.89
22:HB:1855:G:C6	22:HB:3877:A:N6	2.40	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:HB:760:U:H5	48:H2:3:LYS:HD3	1.34	0.89
22:HB:95:G:H8	45:HY:41:HIS:CB	1.85	0.89
22:HB:2577:A:OP1	24:HD:235:GLY:O	1.91	0.89
1:IA:129(A):G:C2'	17:IQ:63:ARG:NH1	2.17	0.89
3:IC:58:GLU:HB2	3:IC:65:ALA:HB3	1.53	0.89
22:JB:2638:G:N7	28:JH:179:THR:C	2.24	0.89
29:JI:27:ASN:HD21	47:J1:61:LYS:CE	1.81	0.89
22:JB:941:U:N1	46:JZ:22:ALA:O	2.05	0.89
1:AA:718:G:O2'	11:AK:116:HIS:HA	1.71	0.89
1:AA:946:A:C4'	13:AM:114:ARG:NH2	2.34	0.89
22:BB:2009:U:OP1	31:BK:105:GLY:O	1.89	0.89
22:BB:891:A:H2	22:BB:909:C:O2	1.36	0.89
22:BB:865:A:H61	22:BB:937:C:H42	1.19	0.89
1:CA:134:A:C2	16:CP:25:ARG:CZ	2.55	0.89
1:CA:265:G:C1'	17:CQ:65:ILE:O	2.20	0.89
1:CA:408:A:H4'	4:CD:112:VAL:CB	2.02	0.89
4:CD:201:GLN:NE2	5:CE:116:THR:OG1	2.04	0.89
1:CA:588:G:O5'	8:CH:2:LEU:HB2	1.70	0.89
1:CA:720:C:C5'	18:CR:52:PRO:HG3	2.02	0.89
22:DB:2324:G:H4'	49:D3:40:TYR:CE1	2.07	0.89
23:DA:93:G:C5'	34:DN:22:ALA:HA	2.00	0.89
22:DB:503:G:C1'	40:DT:28:ALA:HA	2.02	0.89
22:DB:1815:G:OP1	24:DD:54:ILE:HG22	1.72	0.89
1:EA:1312:G:C5	19:ES:4:SER:OG	2.19	0.89
1:EA:262:A:H5''	20:ET:74:LYS:CD	1.71	0.89
1:EA:520:A:O2'	12:EL:73:GLU:CA	2.21	0.89
1:EA:640:A:C2'	8:EH:116:LYS:HB3	2.01	0.89
1:EA:1100:C:C1'	2:EB:98:LEU:CD2	2.51	0.89
22:FB:457:C:H5''	38:FR:3:ARG:CD	1.87	0.89
25:FE:152:LYS:N	31:FK:106:TYR:CE1	2.39	0.89
23:FA:116:C:O2'	36:FP:49:GLN:O	1.89	0.89
22:FB:1021:A:P	38:FR:66:ASN:HD21	1.95	0.89
1:GA:1495:U:O2'	22:HB:1902:A:N6	2.04	0.89
1:GA:375:U:H4'	16:GP:17:TYR:CZ	2.07	0.89
22:HB:2029:G:C5'	48:H2:19:ARG:CD	2.09	0.89
22:HB:1261:G:C8	38:HR:2:PRO:CG	2.54	0.89
22:HB:1789:U:H5'	24:HD:257:LEU:CB	1.88	0.89
22:HB:2591:C:H2'	48:H2:4:HIS:N	1.86	0.89
22:HB:1980:A:P	25:HE:135:HIS:HD2	1.95	0.89
25:HE:5:LEU:HD13	25:HE:28:ALA:H	1.36	0.89
22:HB:591:G:H5''	38:HR:11:ARG:HH22	0.91	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:HB:763:A:N6	40:HT:111:ARG:HE	1.69	0.89
1:IA:877:C:O3'	8:IH:88:LYS:CB	2.19	0.89
22:JB:644:A:O2'	22:JB:2383:C:H4'	1.73	0.89
22:JB:2206:C:H1'	24:JD:262:LYS:HZ2	1.11	0.89
1:AA:521:G:O6	12:AL:49:ASN:OD1	1.87	0.89
1:AA:658:G:H5''	15:AO:8:LYS:HZ1	1.33	0.89
10:AJ:47:PHE:CD1	14:AN:56:VAL:CG1	2.56	0.89
22:BB:1134:C:H1'	52:B6:21:GLY:CA	2.02	0.89
22:BB:1141:U:C2	31:BK:106:TYR:CG	2.61	0.89
22:BB:1237:G:H5''	39:BS:87:ARG:HB3	0.90	0.89
22:BB:418:C:H5''	53:B7:1:MET:CE	1.94	0.89
22:BB:887:G:C5'	43:BW:170:SER:CB	2.39	0.89
22:BB:597:U:O2'	26:BF:84:PHE:HZ	1.54	0.89
1:CA:1190:G:O6	10:CJ:51:ARG:NH1	2.06	0.89
13:CM:86:CYS:HB2	13:CM:92:HIS:HD2	1.33	0.89
1:CA:126:G:H21	17:CQ:4:LYS:HE3	1.38	0.89
23:DA:10:U:O2	36:DP:49:GLN:HG3	1.72	0.89
23:DA:115:G:N2	36:DP:49:GLN:NE2	2.18	0.89
22:DB:1192:A:O3'	39:DS:25:LEU:HD11	1.72	0.89
22:DB:2291:U:P	27:DG:70:ALA:CB	2.60	0.89
22:DB:547:U:O2'	31:DK:32:TYR:HA	1.71	0.89
22:DB:2372:A:OP1	33:DM:60:LEU:HG	1.71	0.89
1:EA:1114:C:C2'	14:EN:61:TRP:CB	2.49	0.89
1:EA:753:A:H2	8:EH:2:LEU:H	1.02	0.89
10:EJ:63:PHE:CZ	14:EN:58:LYS:CG	2.54	0.89
22:FB:409:G:H4'	47:F1:39:VAL:CG2	2.01	0.89
33:FM:63:ARG:NE	51:F5:9:MET:HE1	1.85	0.89
22:FB:2258:G:H1'	22:FB:2306:A:H1'	0.92	0.89
22:FB:2448:A:H4'	34:FN:58:HIS:HE1	1.26	0.89
22:FB:2662:C:N3	22:FB:2708:U:H5'	1.88	0.89
1:GA:37:U:O5'	12:GL:124:LYS:HD2	1.71	0.89
1:GA:919:A:C3'	1:GA:920:U:P	2.60	0.89
1:GA:277:C:OP1	17:GQ:41:LYS:HB2	1.72	0.89
1:GA:194:C:H1'	20:GT:64:ASP:O	1.70	0.89
22:HB:1376:C:H2'	47:H1:3:LYS:HG2	1.53	0.89
22:HB:1584:G:C5'	24:HD:59:LYS:HE3	2.00	0.89
22:HB:2343:C:C2'	44:HX:66:LYS:HD2	2.02	0.89
25:HE:76:ARG:HH21	37:HQ:2:GLN:NE2	1.70	0.89
34:HN:28:VAL:HG11	43:HW:117:VAL:O	1.72	0.89
22:HB:108:G:N2	45:HY:59:GLU:OE2	2.04	0.89
1:IA:258:G:H5'	20:IT:87:LYS:HE2	1.53	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:IA:1115:C:P	10:IJ:46:ARG:HH22	1.96	0.89
22:JB:1406:A:H61	41:JU:15:LYS:HG2	1.36	0.89
22:JB:1309:G:N2	22:JB:1661:C:O2	2.06	0.89
22:JB:2000:U:H4'	48:J2:8:LYS:HE3	1.53	0.89
38:JR:88:ILE:CB	39:JS:51:ALA:CB	2.50	0.89
10:AJ:64:GLU:O	14:AN:56:VAL:CG1	2.21	0.89
22:BB:1861:G:C5	53:B7:199:ASN:CB	2.52	0.89
22:BB:1044:U:C4	52:B6:15:LYS:CG	2.47	0.89
22:BB:1414:G:N2	22:BB:1484:G:H1	1.65	0.89
22:BB:2265:A:C5	49:B3:38:LYS:HE3	2.08	0.89
22:BB:2364:C:H1'	44:BX:69:PHE:HZ	1.36	0.89
22:BB:2789:U:C2	48:B2:42:SER:CA	2.53	0.89
22:DB:2338:C:C5'	51:D5:50:LEU:HD22	2.01	0.89
22:DB:1002:C:C4	22:DB:1174:G:N1	2.38	0.89
22:DB:2615:U:O4'	25:DE:79:ARG:NE	2.05	0.89
22:DB:2790:C:O2'	48:D2:43:HIS:HE1	1.33	0.89
1:EA:1456:A:H5''	20:ET:28:ALA:HB1	1.54	0.89
19:ES:51:VAL:HG23	19:ES:60:VAL:HG21	1.54	0.89
22:FB:1041:G:H21	52:F6:5:SER:CB	1.85	0.89
22:FB:1174:G:O2'	39:FS:89:ASN:CB	2.21	0.89
22:FB:1274:C:OP2	40:FT:118:LYS:CG	2.19	0.89
22:FB:1807:A:H4'	24:FD:63:ARG:NH1	1.86	0.89
22:FB:505:G:N3	40:FT:82:ASN:CB	2.34	0.89
34:FN:99:LYS:CA	43:FW:74:ARG:CG	2.49	0.89
1:GA:1186:G:N2	14:GN:61:TRP:CA	2.34	0.89
1:GA:1115:C:H1'	14:GN:61:TRP:HD1	1.37	0.89
1:GA:719:C:H42	18:GR:74:ARG:HH12	1.20	0.89
22:HB:1374:G:H5''	47:H1:53:GLU:N	1.85	0.89
22:HB:1239:A:P	39:HS:73:LYS:HG2	2.11	0.89
22:HB:1453:A:C4	22:HB:1454:U:C6	2.60	0.89
22:HB:2:G:N2	22:HB:2876:C:C4	2.41	0.89
22:HB:498:C:O2	40:HT:74:SER:OG	1.90	0.89
22:HB:490:A:H5'	42:HV:3:ARG:HB2	1.52	0.89
1:IA:1117:G:C2	9:II:106:ALA:HB3	2.04	0.89
1:IA:1190:G:C8	3:IC:3:ASN:HB2	2.07	0.89
1:EA:1264:C:H5''	1:IA:1273:G:H21	1.16	0.89
22:JB:2186:G:H2'	24:JD:70:ARG:HH21	1.25	0.89
22:JB:311:A:OP2	42:JV:91:ALA:HB3	1.72	0.89
22:JB:1820:G:H1	24:JD:221:GLN:HB3	1.36	0.89
22:JB:1807:A:C5'	24:JD:63:ARG:HH12	1.64	0.89
22:JB:1265:G:C1'	38:JR:14:HIS:HE2	1.85	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:21:G:N2	1:AA:914:A:H62	1.70	0.89
6:AF:49:ALA:CB	18:AR:79:LEU:HA	2.03	0.89
12:AL:16:GLU:C	12:AL:17:LYS:HG3	1.92	0.89
1:AA:1230:C:C2	13:AM:125:ARG:NH1	2.39	0.89
13:AM:87:TYR:CD2	13:AM:91:ARG:HG2	2.08	0.89
22:BB:14:A:C8	48:B2:21:SER:OG	2.26	0.89
22:BB:2856:U:C4'	35:BO:94:TYR:N	2.35	0.89
1:CA:1239:A:H62	1:CA:1299:A:H62	1.11	0.89
1:CA:1345:U:P	9:CI:120:ARG:NE	2.45	0.89
3:CC:8:ILE:HG12	3:CC:11:ARG:HH22	1.37	0.89
1:CA:552:U:H1'	12:CL:31:PRO:CB	2.02	0.89
1:CA:529:G:O6	12:CL:48:PRO:HD2	1.68	0.89
6:CF:48:LEU:HD22	18:CR:77:GLY:CA	2.01	0.89
1:CA:1457:A:O2'	20:CT:24:LEU:HB2	1.71	0.89
22:DB:2291:U:H5''	27:DG:85:VAL:HG23	1.54	0.89
22:DB:589:C:H5''	38:DR:33:ARG:HG2	0.91	0.89
22:DB:704:G:H5'	24:DD:218:LYS:HZ3	1.22	0.89
34:DN:99:LYS:HG3	43:DW:73:LYS:CG	1.97	0.89
25:DE:26:VAL:HG22	37:DQ:3:THR:HG1	1.27	0.89
1:EA:642:A:H61	8:EH:131:GLY:H	1.17	0.89
22:FB:1394:G:N3	22:FB:1588:A:C5	2.37	0.89
22:FB:29:U:C4'	38:FR:8:ILE:HG12	2.00	0.89
22:FB:332:C:OP1	26:FF:129:LYS:HD2	1.73	0.89
1:GA:16:A:O4'	5:GE:17:ALA:N	2.05	0.89
1:GA:273:A:N3	17:GQ:15:MET:SD	2.45	0.89
1:GA:728:A:P	15:GO:51:HIS:CD2	2.66	0.89
6:GF:46:ARG:CZ	18:GR:35:ARG:HH11	1.85	0.89
13:GM:87:TYR:CB	19:GS:73:GLU:HB2	2.02	0.89
22:HB:1803:G:O2'	24:HD:46:ARG:HG3	1.72	0.89
22:HB:221:A:C4'	33:HM:68:VAL:HG22	2.02	0.89
22:HB:542:A:OP1	38:HR:28:ARG:NH2	1.97	0.89
22:HB:2550:C:O2'	25:HE:144:ARG:HG3	0.72	0.89
22:HB:1338:G:N3	40:HT:107:ILE:N	2.21	0.89
1:IA:1391:U:O2'	1:IA:1531:A:O3'	1.90	0.89
1:IA:1206:G:C4'	3:IC:192:THR:O	2.20	0.89
1:IA:1151:A:H5'	10:IJ:42:THR:H	1.32	0.89
22:JB:3167:U:C4'	53:J7:97:LYS:CE	2.40	0.89
22:JB:50:G:C6	22:JB:117:A:C2	2.61	0.89
22:JB:1629:G:O3'	50:J4:3:ARG:CD	2.21	0.89
22:JB:2704:U:O3'	22:JB:2705:A:P	2.30	0.89
22:JB:2850:U:H1'	37:JQ:13:LEU:HD12	1.54	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:JB:76:C:C5'	45:JY:56:VAL:HB	2.03	0.89
22:JB:857:U:N3	22:JB:945:G:O6	2.04	0.89
22:JB:2826:C:O4'	35:JO:61:HIS:CG	2.26	0.89
22:JB:2823:G:C4	37:JQ:105:TYR:HD2	1.91	0.89
43:JW:85:MET:C	43:JW:91:PRO:HB3	1.62	0.89
22:JB:71:A:C6	45:JY:58:ALA:CB	2.54	0.89
1:AA:1349:A:H5''	9:AI:120:ARG:O	1.69	0.89
1:AA:968:A:O3'	10:AJ:56:HIS:CE1	2.26	0.89
22:BB:2591:C:N3	48:B2:4:HIS:ND1	2.20	0.89
22:BB:2457:A:C8	22:BB:2508:G:N7	2.41	0.89
22:BB:742:G:H8	24:BD:208:LYS:HE2	1.16	0.89
33:BM:63:ARG:NH1	51:B5:9:MET:HE3	1.88	0.89
42:BV:40:LEU:HB2	42:BV:44:GLN:HA	1.55	0.89
22:BB:2334:C:H1'	44:BX:32:LYS:CD	1.97	0.89
1:CA:1393:U:O3'	1:CA:1394:A:P	2.30	0.89
1:CA:332:G:C5'	20:CT:10:LEU:CB	2.16	0.89
1:CA:436:C:H1'	4:CD:157:LEU:HB2	1.54	0.89
4:CD:205:GLU:CG	5:CE:100:VAL:O	2.21	0.89
8:CH:33:GLU:HA	8:CH:36:LEU:HD12	1.52	0.89
1:CA:1226:C:N4	13:CM:104:ARG:HE	1.47	0.89
1:CA:673:G:C5'	18:CR:75:ILE:HG23	2.01	0.89
22:DB:930:A:O2'	23:DA:99:G:N2	2.06	0.89
22:DB:2558:C:O4'	25:DE:133:LYS:HE3	1.73	0.89
22:DB:1674:C:P	25:DE:134:TRP:CD1	2.66	0.89
32:DL:91:PHE:CA	37:DQ:79:ARG:HD2	2.02	0.89
22:DB:2255:G:H5'	34:DN:86:LYS:CD	1.97	0.89
38:DR:94:VAL:CG2	39:DS:10:LYS:O	2.21	0.89
1:EA:1102:A:H2	2:EB:104:ASN:ND2	1.68	0.89
1:EA:403:C:P	4:ED:137:SER:OG	2.31	0.89
10:EJ:62:HIS:O	14:EN:59:ALA:N	2.05	0.89
1:EA:234:C:H4'	17:EQ:70:ARG:NE	1.86	0.89
23:FA:10:U:C1'	36:FP:28:ARG:HH22	1.85	0.89
22:FB:1203:A:C5'	33:FM:35:LYS:HA	2.00	0.89
33:FM:59:ARG:O	33:FM:60:LEU:HB2	1.70	0.89
22:FB:922:A:N6	34:FN:17:ARG:N	2.21	0.89
3:GC:58:GLU:HB2	3:GC:65:ALA:HB3	1.53	0.89
1:GA:1297:C:H1'	7:GG:114:ARG:HH12	1.31	0.89
2:GB:30:ARG:NH1	8:GH:75:ARG:HH12	1.71	0.89
1:AA:179:A:C4	20:GT:99:LEU:C	2.44	0.89
23:HA:69:G:H4'	43:HW:160:LEU:CD1	2.01	0.89
1:GA:1517:G:N9	22:HB:1902:A:O3'	2.05	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:HB:2503:G:H1'	22:HB:2744:A:N3	1.86	0.89
22:HB:498:C:C2	40:HT:74:SER:CB	2.56	0.89
22:HB:593:C:C5'	38:HR:3:ARG:HH12	1.84	0.89
22:HB:1336:G:C5'	40:HT:103:LEU:HD23	2.02	0.89
1:IA:1226:C:C2	13:IM:104:ARG:CB	2.54	0.89
1:IA:675:A:H61	11:IK:116:HIS:HB2	1.38	0.89
3:IC:8:ILE:HG12	3:IC:11:ARG:HH22	1.37	0.89
1:IA:932:C:C5'	7:IG:4:ARG:HG3	2.01	0.89
7:IG:16:LEU:HD21	9:II:42:ARG:HD2	1.54	0.89
22:JB:2570:C:OP1	24:JD:238:GLY:O	1.61	0.89
22:JB:76:C:H5''	45:JY:56:VAL:HB	1.54	0.89
22:BB:2398:U:H5	51:B5:31:HIS:HA	1.33	0.89
22:BB:1041:G:N2	52:B6:5:SER:H	1.69	0.89
22:BB:1681:A:C2	22:BB:2706:U:C1'	2.56	0.89
22:BB:2552:C:O3'	22:BB:2553:G:P	2.30	0.89
22:BB:6:A:N6	22:BB:2870:C:N4	2.19	0.89
22:BB:1:G:N2	22:BB:2877:A:N6	2.21	0.89
25:BE:181:LEU:CD2	37:BQ:12:LEU:HD11	2.03	0.89
26:BF:15:ILE:HG23	26:BF:16:GLU:H	1.37	0.89
28:BH:24:PHE:HB2	28:BH:35:VAL:HG11	1.53	0.89
22:BB:2669:C:C5	35:BO:14:SER:O	2.25	0.89
1:CA:437:U:H5''	4:CD:155:LEU:HD12	1.52	0.89
1:CA:815:A:C4	1:CA:1529:G:C5	2.61	0.89
1:CA:922:G:HO2'	5:CE:21:ALA:HB2	1.20	0.89
13:CM:89:GLY:C	13:CM:90:LEU:O	2.10	0.89
23:DA:44:C:H4'	27:DG:64:LYS:CG	2.03	0.89
22:DB:2218:G:H5''	24:DD:230:ASP:CA	2.02	0.89
22:DB:1111:C:C1'	28:DH:168:GLN:HE21	1.77	0.89
1:EA:1186:G:H4'	9:EI:119:ALA:HB1	1.53	0.89
1:EA:958:A:H2	19:ES:55:LYS:HB3	1.06	0.89
22:FB:1164:C:C5'	38:FR:76:TYR:CE2	2.56	0.89
22:FB:1493:A:H2	22:FB:1573:G:N3	1.68	0.89
22:FB:2241:U:O4'	22:FB:2307:A:N3	2.05	0.89
22:FB:2284:U:O2'	27:FG:151:GLY:CA	2.21	0.89
22:FB:1173:G:O2'	39:FS:23:GLU:HG3	1.72	0.89
22:FB:24:G:O4'	40:FT:98:ASP:OD1	1.91	0.89
22:HB:2064:U:OP1	47:H1:33:VAL:HG11	1.72	0.89
22:HB:2194:A:O2'	47:H1:53:GLU:HG2	1.72	0.89
22:HB:3171:A:OP1	53:H7:131:ARG:NH2	2.04	0.89
22:HB:3177:C:C4'	53:H7:163:PRO:HD2	2.03	0.89
22:HB:1143:A:O2'	31:HK:99:VAL:HG13	1.71	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:HB:600:G:C2	51:H5:2:PRO:HD2	2.06	0.89
22:HB:603:C:C2	22:HB:677:G:N1	2.39	0.89
22:HB:891:A:C1'	22:HB:893:G:N7	2.35	0.89
22:HB:1074:G:N3	30:HJ:88:SER:HB2	1.87	0.89
1:IA:687:A:O4'	11:IK:42:TRP:HZ2	1.55	0.89
1:IA:932:C:H4'	7:IG:4:ARG:CZ	2.02	0.89
1:IA:1147:C:O2	9:II:16:ARG:NH2	2.05	0.89
22:JB:2372:A:H5'	33:JM:62:LYS:NZ	1.88	0.89
22:JB:2823:G:H5'	37:JQ:103:LYS:HG3	0.89	0.89
1:AA:1092:A:C5'	7:AG:4:ARG:HD2	2.02	0.89
1:AA:545:C:C5'	4:AD:72:GLU:HB2	2.01	0.89
1:AA:60:A:H8	20:AT:11:SER:OG	1.53	0.89
1:AA:928:G:H4'	1:AA:1533:C:H41	1.36	0.89
8:AH:33:GLU:HA	8:AH:36:LEU:HD12	1.52	0.89
5:AE:150:ARG:NE	8:AH:77:GLU:OE2	2.05	0.89
10:AJ:11:PHE:CD1	14:AN:54:PRO:C	2.46	0.89
22:BB:568:G:C2'	22:BB:569:C:O4'	2.20	0.89
25:BE:105:THR:HG23	25:BE:166:THR:H	1.38	0.89
25:BE:26:VAL:HG22	37:BQ:3:THR:HG21	1.55	0.89
23:BA:91:A:N7	34:BN:21:ASP:CB	2.35	0.89
1:CA:1226:C:N4	13:CM:104:ARG:CZ	2.36	0.89
1:CA:1225:A:H5''	13:CM:104:ARG:HB2	1.53	0.89
22:DB:1042:G:O2'	52:D6:6:SER:HA	0.75	0.89
22:DB:1630:A:C2	40:DT:108:PRO:CB	2.55	0.89
22:DB:2618:A:O3'	31:DK:122:HIS:NE2	2.03	0.89
22:DB:2654:A:C5	32:DL:41:ASN:ND2	2.40	0.89
1:EA:450:G:OP1	16:EP:43:LYS:CB	2.21	0.89
1:EA:521:G:N7	12:EL:53:ARG:NH2	2.17	0.89
22:FB:1049:C:N4	22:FB:1129:A:C6	2.41	0.89
22:FB:1992:G:H5'	40:FT:62:ARG:CA	2.02	0.89
22:FB:1265:G:OP1	38:FR:36:PHE:CD1	2.26	0.89
13:GM:84:ILE:HG22	19:GS:65:ASN:HD22	1.35	0.89
22:HB:1861:G:N2	53:H7:45:ASP:OD2	2.05	0.89
22:HB:3197:U:C4	22:HB:2203:G:N7	2.41	0.89
22:HB:217:U:H5'	22:HB:633:G:O2'	1.73	0.89
10:IJ:64:GLU:HG3	14:IN:58:LYS:C	1.93	0.89
22:JB:53:G:C4'	50:J4:36:ALA:HB2	2.03	0.89
22:JB:1200:G:C2'	39:JS:83:ARG:CZ	2.50	0.89
22:JB:1810:U:O2	24:JD:154:GLN:OE1	1.65	0.89
22:JB:871:U:H2'	22:JB:2247:A:H2'	1.55	0.89
22:JB:2263:C:P	49:J3:9:ILE:CA	2.61	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:JB:2406:C:H5''	22:JB:2408:G:O4'	1.73	0.89
1:AA:1224:G:O2'	13:AM:102:ARG:CB	2.21	0.89
1:AA:973:G:H4'	14:AN:41:ARG:HH22	1.28	0.89
3:AC:8:ILE:HG12	3:AC:11:ARG:HH22	1.37	0.89
9:AI:11:LYS:HE3	9:AI:108:VAL:HG13	1.55	0.89
13:AM:89:GLY:N	13:AM:90:LEU:C	2.17	0.89
1:AA:275:G:P	17:AQ:14:LYS:CB	2.55	0.89
22:BB:2063:A:H4'	47:B1:33:VAL:HG22	1.51	0.89
22:BB:699:G:O2'	50:B4:6:GLN:HB2	1.71	0.89
15:AO:89:GLY:CA	22:BB:729:A:OP2	2.21	0.89
22:BB:1338:G:C2	40:BT:107:ILE:HG21	2.03	0.89
1:CA:545:C:H5''	4:CD:72:GLU:HB2	1.55	0.89
1:CA:1239:A:C2'	7:CG:115:ARG:HG3	2.02	0.89
7:CG:16:LEU:HD21	9:CI:42:ARG:NH1	1.87	0.89
22:DB:3123:G:H5''	53:D7:158:LYS:NZ	1.80	0.89
22:DB:1992:G:H5'	40:DT:62:ARG:HA	1.53	0.89
22:DB:2752:C:C5'	25:DE:166:THR:HB	2.01	0.89
22:DB:2786:G:H4'	25:DE:59:VAL:HG22	1.55	0.89
22:DB:869:C:O4'	44:DX:24:LYS:CG	2.15	0.89
22:DB:886:A:O4'	43:DW:118:HIS:NE2	2.06	0.89
22:DB:916:U:O4'	43:DW:163:ASP:N	2.06	0.89
1:EA:1081:G:O6	5:EE:47:LYS:NZ	2.05	0.89
1:EA:927:G:O2'	1:EA:1532:U:H1'	1.72	0.89
1:EA:640:A:O2'	8:EH:127:LEU:CB	2.19	0.89
22:FB:2005:U:N3	48:F2:9:LYS:HE2	1.88	0.89
22:FB:1636:G:C4'	50:F4:1:MET:HE2	2.03	0.89
22:FB:2658:A:O2'	25:FE:187:ALA:CB	2.20	0.89
38:FR:44:THR:O	39:FS:76:SER:OG	1.91	0.89
22:FB:491:A:C4'	42:FV:55:THR:CG2	2.39	0.89
2:GB:7:VAL:HG23	2:GB:8:LYS:HG3	1.55	0.89
14:GN:53:LEU:HD12	14:GN:56:VAL:HB	1.55	0.89
1:GA:659:U:C5'	15:GO:5:LYS:HE3	2.01	0.89
17:GQ:59:ILE:HD12	17:GQ:73:VAL:HG22	1.55	0.89
1:GA:735:C:N1	18:GR:75:ILE:HD12	1.76	0.89
22:HB:2629:U:H5'	32:HL:29:ILE:HD11	0.90	0.89
22:HB:683:A:OP1	33:HM:46:GLY:N	2.06	0.89
43:HW:84:TYR:HE2	43:HW:128:ARG:HH11	0.93	0.89
22:HB:71:A:N6	45:HY:58:ALA:HB3	1.87	0.89
22:HB:941:U:O2	46:HZ:21:GLN:C	2.11	0.89
1:IA:929:G:H5'	1:IA:1533:C:C5	2.06	0.89
1:IA:751:U:C3'	15:IO:69:TYR:OH	2.20	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:II:19:LEU:HA	9:II:61:ALA:HA	1.54	0.89
12:IL:11:VAL:HG23	17:IQ:34:LYS:HD2	1.19	0.89
22:JB:2258:G:N3	22:JB:2306:A:C4	2.41	0.89
22:JB:2463:G:H5''	34:JN:47:GLN:HG2	1.53	0.89
38:JR:47:TYR:CD1	39:JS:75:LYS:O	2.26	0.89
22:JB:1405:A:C6	41:JU:15:LYS:HE2	2.04	0.89
1:AA:939:G:OP1	7:AG:102:ARG:NH2	2.07	0.88
22:BB:1166:A:N3	22:BB:1168:G:C8	2.40	0.88
22:BB:742:G:H3'	24:BD:18:THR:HG21	1.52	0.88
22:BB:2601:C:H5'	25:BE:159:HIS:HD2	1.35	0.88
25:BE:8:LYS:HB2	37:BQ:3:THR:HB	1.53	0.88
1:CA:1456:A:H5''	20:CT:28:ALA:HB1	0.90	0.88
1:CA:1347:G:H3'	9:CI:108:VAL:C	1.93	0.88
1:CA:258:G:OP1	20:CT:83:ARG:NH2	2.06	0.88
22:DB:1004:A:C4	22:DB:1173:G:N2	2.41	0.88
22:DB:2615:U:H4'	25:DE:79:ARG:CB	2.02	0.88
23:DA:44:C:H5''	27:DG:64:LYS:HE3	0.93	0.88
25:DE:151:TYR:CD2	31:DK:106:TYR:HD1	1.49	0.88
22:DB:512:A:O2'	40:DT:15:LYS:NZ	2.05	0.88
1:EA:1014:A:OP2	19:ES:18:LYS:HD2	1.73	0.88
1:EA:538:G:H4'	12:EL:114:LYS:HB2	1.55	0.88
22:FB:469:G:C3'	50:F4:40:HIS:CD2	2.53	0.88
22:FB:548:G:O2'	31:FK:33:ILE:HG23	1.72	0.88
26:FF:15:ILE:HG23	26:FF:16:GLU:H	1.37	0.88
22:FB:2462:C:HO2'	34:FN:50:ALA:CB	1.85	0.88
34:FN:99:LYS:CB	43:FW:74:ARG:HB2	1.87	0.88
22:FB:75:C:C1'	45:FY:48:ARG:HD2	2.01	0.88
1:GA:1225:A:H5'	13:GM:103:THR:C	1.93	0.88
4:GD:107:ARG:HA	4:GD:107:ARG:HH11	1.37	0.88
22:HB:603:C:N3	22:HB:677:G:O6	2.06	0.88
22:HB:1795:C:C3'	24:HD:250:TRP:CH2	2.56	0.88
22:HB:2658:A:C5'	25:HE:109:LYS:HG3	2.03	0.88
23:HA:45:C:C2'	27:HG:92:ARG:HH11	1.85	0.88
22:HB:71:A:C5'	45:HY:54:ASN:OD1	2.21	0.88
1:IA:520:A:H4'	12:IL:73:GLU:CB	2.02	0.88
14:IN:53:LEU:HD12	14:IN:56:VAL:HB	1.55	0.88
1:IA:128:G:C5'	17:IQ:61:GLU:CD	2.26	0.88
23:JA:117:G:C1'	36:JP:41:GLN:CD	2.42	0.88
22:JB:1174:G:H1'	39:JS:88:GLN:O	1.71	0.88
22:JB:2258:G:O2'	22:JB:2306:A:O4'	1.89	0.88
22:JB:204:A:N6	22:JB:2386:G:O4'	2.06	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:JB:2411:A:H2	47:J1:30:GLU:CB	1.84	0.88
22:JB:2558:C:H4'	25:JE:132:LYS:HD3	0.91	0.88
1:EA:1021:G:C5'	27:JG:179:LYS:HB2	2.02	0.88
22:JB:2826:C:H4'	35:JO:61:HIS:CG	2.06	0.88
22:JB:1007:A:O3'	38:JR:93:LYS:HG2	1.72	0.88
1:AA:815:A:O4'	1:AA:1529:G:O6	1.89	0.88
4:AD:107:ARG:HH11	4:AD:107:ARG:HA	1.37	0.88
1:AA:545:C:C4'	4:AD:72:GLU:OE2	2.20	0.88
1:AA:1308:U:C5'	13:AM:97:PRO:HA	2.02	0.88
1:AA:1187:G:N2	14:AN:60:SER:O	2.05	0.88
1:AA:759:A:H61	17:AQ:98:LEU:CD1	1.85	0.88
22:BB:1044:U:C3'	52:B6:16:VAL:HG21	2.00	0.88
22:BB:1135:C:C2'	52:B6:4:ARG:CA	2.38	0.88
22:BB:1143:A:C2	31:BK:103:TYR:HA	2.08	0.88
22:BB:2714:A:O4'	25:BE:205:SER:C	2.11	0.88
1:CA:1349:A:C2	7:CG:33:ASP:O	2.26	0.88
1:CA:588:G:H5''	8:CH:5:PRO:HD3	1.55	0.88
40:DT:52:ASP:CG	48:D2:29:ASN:OD1	2.11	0.88
22:DB:2325:A:C2	49:D3:26:LYS:O	2.25	0.88
23:DA:30:C:P	36:DP:34:SER:OG	2.32	0.88
22:DB:1394:G:N2	22:DB:1588:A:N3	2.20	0.88
22:DB:16:G:C4'	48:D2:18:MET:SD	2.60	0.88
26:DF:15:ILE:HG23	26:DF:16:GLU:H	1.37	0.88
25:DE:18:ASP:OD2	32:DL:85:ASP:HA	1.71	0.88
22:DB:24:G:C4'	40:DT:98:ASP:CB	2.52	0.88
3:EC:58:GLU:HB2	3:EC:65:ALA:HB3	1.53	0.88
1:EA:375:U:O2'	16:EP:17:TYR:HE2	1.56	0.88
22:FB:219:G:C3'	51:F5:3:LYS:CB	2.45	0.88
22:FB:125:A:N6	50:F4:18:PHE:CZ	2.42	0.88
22:FB:1630:A:N6	40:FT:108:PRO:C	2.26	0.88
22:FB:2623:A:C3'	22:FB:2624:G:P	2.62	0.88
22:FB:1673:C:P	25:FE:136:ARG:NH1	2.46	0.88
22:FB:1018:C:C1'	31:FK:134:MET:CG	2.43	0.88
38:FR:47:TYR:CA	39:FS:74:TYR:HA	1.99	0.88
42:FV:40:LEU:HB2	42:FV:44:GLN:HA	1.55	0.88
1:GA:658:G:H5'	15:GO:8:LYS:HZ2	1.12	0.88
1:GA:675:A:C2	11:GK:115:PRO:CA	2.47	0.88
1:GA:828:A:OP1	8:GH:21:LYS:HE2	1.73	0.88
6:GF:46:ARG:HH22	18:GR:35:ARG:HH12	0.90	0.88
19:GS:12:ASP:H	19:GS:38:SER:HB3	1.38	0.88
1:GA:323:U:H2'	20:GT:19:SER:HB3	1.56	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:HB:3126:A:H5''	53:H7:26:PHE:CE1	2.06	0.88
22:HB:1019:U:O2'	38:HR:59:ARG:NE	2.06	0.88
22:HB:2241:U:O2'	22:HB:2307:A:O2'	1.91	0.88
22:HB:511:A:C3'	40:HT:16:GLN:CG	2.52	0.88
22:HB:635:C:C5'	51:H5:63:PRO:HG3	2.02	0.88
22:HB:887:G:C5'	43:HW:170:SER:OG	2.20	0.88
22:HB:648:A:N1	33:HM:110:ALA:C	2.26	0.88
34:HN:64:LYS:CG	43:HW:173:PRO:O	2.20	0.88
1:IA:8:A:N6	4:ID:206:PHE:HA	1.87	0.88
1:IA:751:U:O2'	15:IO:69:TYR:OH	1.87	0.88
22:JB:1167:A:H5'	22:JB:1168:G:N7	1.80	0.88
22:JB:1820:G:N1	24:JD:221:GLN:HB3	1.87	0.88
22:JB:2241:U:H5''	22:JB:2307:A:H2	1.37	0.88
22:JB:2491:C:H5'	25:JE:138:PRO:HB3	1.53	0.88
22:JB:2638:G:C8	28:JH:179:THR:C	2.46	0.88
22:JB:75:C:N1	45:JY:56:VAL:HG13	1.87	0.88
22:JB:2366:U:C2'	44:JX:16:SER:HB3	2.01	0.88
1:AA:1239:A:H62	1:AA:1299:A:H62	1.11	0.88
1:AA:1382:C:H5''	7:AG:79:ARG:CD	2.02	0.88
1:AA:623:C:H41	4:AD:139:ARG:HH22	1.18	0.88
22:BB:2860:C:O2'	48:B2:34:PRO:O	1.90	0.88
22:BB:2000:U:O4'	48:B2:8:LYS:HA	1.72	0.88
22:BB:219:G:O6	51:B5:2:PRO:CB	2.20	0.88
22:BB:1805:G:H21	24:BD:52:ARG:HD3	1.37	0.88
22:BB:574:C:OP2	39:BS:79:GLN:HA	1.70	0.88
22:BB:489:A:C2'	42:BV:5:SER:CB	2.41	0.88
43:BW:48:THR:HG23	43:BW:129:ARG:O	1.73	0.88
1:CA:1320:C:H42	19:CS:36:ARG:HG3	1.38	0.88
1:CA:1320:C:N4	19:CS:36:ARG:CG	2.35	0.88
4:CD:204:ILE:HG22	5:CE:101:ILE:CD1	2.04	0.88
1:CA:559:A:H2	5:CE:124:GLY:O	1.41	0.88
1:CA:559:A:N6	5:CE:126:ARG:HH11	1.69	0.88
1:CA:932:C:C4	7:CG:3:ARG:NH2	2.41	0.88
1:CA:255:G:H8	17:CQ:17:LYS:NZ	1.69	0.88
22:DB:659:G:N2	51:D5:46:LYS:CE	2.36	0.88
22:DB:2039:G:N3	48:D2:4:HIS:HA	1.87	0.88
26:DF:132:ASN:HA	26:DF:135:SER:HB3	1.55	0.88
32:DL:113:PRO:CG	37:DQ:76:GLY:CA	2.51	0.88
42:DV:40:LEU:HB2	42:DV:44:GLN:HA	1.55	0.88
1:EA:1272:G:H21	1:IA:1264:C:H1'	0.74	0.88
4:ED:205:GLU:CB	5:EE:101:ILE:HG23	2.02	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:EA:676:A:O2'	11:EK:115:PRO:HB3	1.73	0.88
22:FB:338:G:N3	42:FV:77:HIS:NE2	2.21	0.88
22:FB:2241:U:P	44:FX:15:ASP:CA	2.61	0.88
1:GA:1392:G:H5'	1:GA:1531:A:H5''	1.54	0.88
1:GA:1251:A:H5''	9:GI:12:GLU:OE2	1.73	0.88
1:GA:111:G:H5''	16:GP:27:LYS:HG2	1.52	0.88
1:GA:332:G:H5''	20:GT:13:LEU:HD11	1.54	0.88
22:HB:1135:C:H2'	52:H6:4:ARG:O	1.73	0.88
22:HB:1455:C:O2	22:HB:1567:A:C2	2.26	0.88
22:HB:1861:G:N7	53:H7:200:LEU:CA	2.25	0.88
22:HB:2241:U:C6	22:HB:2306:A:H2	1.90	0.88
22:HB:2658:A:H5''	25:HE:109:LYS:CG	2.02	0.88
22:HB:2826:C:C5'	35:HO:64:ARG:HH12	1.86	0.88
41:HU:92:ALA:HB2	45:HY:24:GLU:OE1	1.72	0.88
22:JB:2399:C:N1	51:J5:32:GLN:CA	2.33	0.88
22:JB:1041:G:N2	52:J6:6:SER:HB2	1.88	0.88
22:JB:2240:C:H4'	22:JB:2366:U:H2'	0.94	0.88
22:JB:1477:C:H1'	22:JB:2681:A:N3	1.88	0.88
22:JB:1071:U:O4	30:JJ:130:THR:C	2.12	0.88
43:JW:51:LEU:HD11	43:JW:128:ARG:HD2	1.51	0.88
1:AA:529:G:O6	12:AL:47:LYS:HG3	1.73	0.88
1:AA:949:A:OP1	13:AM:102:ARG:CZ	2.22	0.88
22:BB:1238:A:C5'	39:BS:73:LYS:HA	2.02	0.88
22:BB:1805:G:C2	24:BD:52:ARG:HD2	2.07	0.88
22:BB:2614:A:H4'	25:BE:77:ILE:CB	2.03	0.88
22:BB:2463:G:C2	34:BN:120:ARG:NH2	2.40	0.88
25:BE:26:VAL:CG2	37:BQ:3:THR:CG2	2.50	0.88
22:BB:2343:C:C1'	44:BX:66:LYS:HD2	2.02	0.88
1:CA:520:A:H8	12:CL:51:ALA:HB1	1.06	0.88
1:CA:644:G:H4'	8:CH:89:PRO:HB2	1.53	0.88
1:CA:489:C:OP1	4:CD:132:ARG:HD2	1.72	0.88
9:CI:11:LYS:HE3	9:CI:108:VAL:HG13	1.56	0.88
22:DB:15:G:H21	48:D2:18:MET:HG2	1.38	0.88
22:DB:1856:U:C5'	22:DB:2389:G:O2'	2.20	0.88
22:DB:2218:G:H5''	24:DD:230:ASP:HA	1.55	0.88
22:DB:2745:A:C2'	22:DB:2746:G:O4'	2.19	0.88
22:DB:524:A:C5'	38:DR:30:LYS:HB3	2.01	0.88
22:DB:589:C:H5'	38:DR:33:ARG:HG3	1.53	0.88
28:DH:24:PHE:HB2	28:DH:35:VAL:HG11	1.53	0.88
22:DB:673:G:N2	33:DM:22:GLY:HA3	1.89	0.88
23:DA:105:G:H4'	43:DW:91:PRO:HA	1.29	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:EA:1055:A:C2	3:EC:156:ARG:CZ	2.56	0.88
22:FB:124:A:C4'	50:F4:19:ARG:NE	2.37	0.88
22:FB:1629:G:O2'	50:F4:3:ARG:NH1	2.06	0.88
22:FB:339:U:H4'	42:FV:76:LEU:HA	1.56	0.88
38:FR:88:ILE:HG13	39:FS:52:GLY:HA2	0.92	0.88
43:FW:64:ALA:CA	43:FW:128:ARG:HH11	1.85	0.88
22:FB:2311:U:C5'	44:FX:70:ILE:CG2	2.50	0.88
1:GA:1226:C:H41	13:GM:104:ARG:HB2	1.37	0.88
3:GC:8:ILE:HG12	3:GC:11:ARG:HH22	1.37	0.88
1:GA:400:C:C5'	4:GD:73:ARG:NH2	2.36	0.88
1:GA:254:G:N3	17:GQ:16:GLN:C	2.23	0.88
22:HB:1376:C:C4	47:H1:3:LYS:CA	2.55	0.88
22:HB:760:U:C4	48:H2:3:LYS:HD2	2.07	0.88
22:HB:1487:C:C4	22:HB:1536:G:N1	2.33	0.88
22:HB:1795:C:C4'	24:HD:250:TRP:CH2	2.39	0.88
1:GA:1484:C:C4'	22:HB:1943:A:HO2'	1.83	0.88
22:HB:741:G:O2'	24:HD:17:THR:C	2.10	0.88
22:HB:7:G:C2	22:HB:2871:U:C2	2.60	0.88
22:HB:857:U:O4	22:HB:943:U:N3	2.05	0.88
22:HB:1256:C:C2	33:HM:15:ASP:HA	2.08	0.88
22:HB:1238:A:OP1	39:HS:87:ARG:HG3	1.73	0.88
34:HN:68:ARG:HH21	43:HW:117:VAL:HG22	1.34	0.88
1:IA:1060:C:OP2	3:IC:2:GLY:HA2	1.72	0.88
1:IA:1100:C:H2'	2:IB:98:LEU:HD23	1.55	0.88
1:EA:1263:C:O2	1:IA:1264:C:C5'	2.20	0.88
1:IA:1396:A:N1	5:IE:19:MET:HE3	1.88	0.88
1:IA:778:G:C2	11:IK:120:ARG:HB2	2.09	0.88
1:IA:33:A:H1'	12:IL:32:PHE:CE2	2.07	0.88
22:JB:1238:A:H5'	39:JS:73:LYS:HG2	1.52	0.88
1:IA:1475:G:OP1	22:JB:1706:A:O2'	1.91	0.88
22:JB:1999:U:OP1	26:JF:64:THR:C	2.09	0.88
22:JB:2724:G:N2	28:JH:143:GLN:OE1	2.05	0.88
22:JB:1856:U:O2	22:JB:3865:A:C5	2.24	0.88
22:JB:2570:C:H5	24:JD:237:GLU:CA	1.86	0.88
23:JA:44:C:H5'	27:JG:66:ILE:CD1	2.02	0.88
22:JB:2638:G:C6	28:JH:180:GLY:HA3	2.08	0.88
22:JB:468:A:H5'	41:JU:69:ILE:HD11	0.89	0.88
43:JW:65:LEU:HA	43:JW:128:ARG:NH1	1.87	0.88
1:AA:760:G:H2'	17:AQ:103:GLY:N	1.87	0.88
1:AA:954:G:C2	13:AM:120:LYS:CD	2.43	0.88
1:AA:520:A:H4'	12:AL:52:LEU:O	1.70	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:AQ:59:ILE:HD12	17:AQ:73:VAL:HG22	1.55	0.88
22:BB:1416:A:O3'	22:BB:1485:U:O2'	1.90	0.88
22:BB:1483:G:O2'	22:BB:1484:G:C4	2.25	0.88
22:BB:568:G:C5	22:BB:569:C:C2	2.61	0.88
1:CA:1104:G:H1'	2:CB:111:ARG:HD2	1.55	0.88
22:DB:2040:A:C1'	48:D2:3:LYS:CB	2.50	0.88
38:DR:43:ALA:HA	39:DS:75:LYS:CG	2.03	0.88
22:DB:25:U:H5'	40:DT:100:GLY:HA2	1.53	0.88
22:DB:23:G:H1'	40:DT:96:TYR:CE2	2.08	0.88
34:DN:131:LYS:HZ2	43:DW:69:VAL:HG21	1.37	0.88
1:EA:641:U:C6	8:EH:116:LYS:CA	2.51	0.88
1:EA:1060:C:OP2	3:EC:2:GLY:HA3	1.54	0.88
3:EC:6:HIS:CB	14:EN:49:HIS:HD2	1.85	0.88
22:FB:1021:A:P	38:FR:66:ASN:ND2	2.46	0.88
22:FB:1041:G:H21	52:F6:5:SER:HB3	1.38	0.88
22:FB:226:C:N4	22:FB:2374:C:H4'	1.88	0.88
22:FB:680:U:OP2	33:FM:48:PHE:HA	1.72	0.88
22:FB:2291:U:OP1	27:FG:85:VAL:HG23	1.74	0.88
22:FB:2464:G:H4'	34:FN:122:ALA:CA	2.04	0.88
38:FR:46:GLU:CB	39:FS:75:LYS:HG3	2.03	0.88
22:FB:980:G:C5'	46:FZ:12:ARG:O	2.20	0.88
22:FB:1001:A:C4'	46:FZ:27:LYS:HZ1	1.86	0.88
1:GA:1188:A:N3	14:GN:60:SER:OG	2.06	0.88
13:GM:88:ARG:NH2	13:GM:99:ARG:HE	1.71	0.88
13:GM:88:ARG:HB3	13:GM:98:VAL:HG12	0.88	0.88
1:GA:106:C:N4	20:GT:14:LYS:CE	2.29	0.88
22:HB:2814:G:OP1	35:HO:46:PRO:CG	2.21	0.88
25:HE:105:THR:HG23	25:HE:166:THR:H	1.37	0.88
31:HK:75:ILE:HG22	31:HK:140:GLN:HA	1.55	0.88
41:HU:4:TYR:HE1	45:HY:18:ILE:HG21	1.12	0.88
22:HB:941:U:C2	46:HZ:21:GLN:C	2.47	0.88
1:IA:730:G:N1	15:IO:51:HIS:CD2	2.41	0.88
22:JB:2000:U:C4'	48:J2:8:LYS:HE3	2.04	0.88
22:JB:218:A:OP1	51:J5:63:PRO:CB	2.22	0.88
22:JB:2533:U:H2'	22:JB:2534:U:C6	2.07	0.88
22:JB:1270:C:H1'	26:JF:77:PHE:CD1	2.07	0.88
23:JA:29:C:OP1	36:JP:36:LYS:HB3	1.73	0.88
1:AA:1392:G:N3	1:AA:1502:A:H4'	1.89	0.88
1:AA:1433:A:H4'	37:BQ:116:ARG:NH1	1.88	0.88
1:AA:509:A:O5'	4:AD:54:TYR:CD2	2.27	0.88
10:AJ:64:GLU:OE1	14:AN:57:ARG:CB	2.19	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:BB:1169:C:H4'	46:BZ:27:LYS:HZ3	1.39	0.88
22:BB:1240:G:N7	39:BS:73:LYS:NZ	2.22	0.88
22:BB:2289:A:N3	27:BG:77:PHE:CZ	2.42	0.88
22:BB:2328:G:OP2	51:B5:41:ILE:CD1	2.22	0.88
22:BB:2826:C:HO2'	35:BO:60:LEU:HD23	1.00	0.88
22:BB:508:G:O6	40:BT:21:ARG:NH1	2.07	0.88
22:BB:686:C:O4'	26:BF:74:VAL:CG1	2.21	0.88
22:BB:718:A:N6	22:BB:739:G:H1'	1.89	0.88
26:BF:132:ASN:HA	26:BF:135:SER:HB3	1.55	0.88
22:BB:18:U:OP1	38:BR:26:GLY:C	2.11	0.88
22:BB:1235:C:C4	39:BS:71:ILE:HD13	2.07	0.88
1:CA:922:G:H4'	5:CE:20:GLN:HE22	1.38	0.88
1:CA:644:G:C4'	8:CH:89:PRO:HA	2.03	0.88
22:DB:2291:U:H5''	27:DG:85:VAL:C	1.94	0.88
22:DB:2773:G:N3	22:DB:2780:A:H1'	1.88	0.88
32:DL:119:ARG:NH2	37:DQ:43:ASN:HD22	1.69	0.88
34:DN:36:ILE:HG12	43:DW:74:ARG:HA	1.52	0.88
22:DB:1173:G:O4'	39:DS:22:VAL:HG11	1.71	0.88
1:EA:1061:G:C5'	10:EJ:56:HIS:CD2	2.57	0.88
1:EA:1227:A:H3'	13:EM:111:LYS:HZ1	0.89	0.88
1:EA:130:A:H62	17:EQ:64:PRO:HD3	0.92	0.88
1:EA:927:G:O4'	1:EA:1531:A:N3	2.07	0.88
1:EA:371:G:H2'	1:EA:372:C:H4'	1.56	0.88
4:ED:50:ARG:CZ	5:EE:10:MET:SD	2.61	0.88
22:FB:1030:U:OP1	22:FB:1046:U:O4'	1.91	0.88
22:FB:1:G:N2	22:FB:2876:C:C2	2.38	0.88
22:FB:2811:G:H5'	37:FQ:4:HIS:CE1	2.04	0.88
22:FB:596:C:H5''	33:FM:28:LYS:HZ3	1.28	0.88
22:FB:612:G:H4'	22:FB:613:A:H4'	1.55	0.88
22:FB:742:G:C8	24:FD:208:LYS:NZ	2.41	0.88
22:FB:1807:A:H4'	24:FD:63:ARG:HH11	1.37	0.88
31:FK:75:ILE:HG22	31:FK:140:GLN:HA	1.55	0.88
22:FB:2692:A:O2'	35:FO:15:SER:CB	2.22	0.88
1:GA:1103:C:P	2:GB:98:LEU:HD22	2.14	0.88
1:GA:339:C:H3'	32:HL:109:ARG:HE	1.36	0.88
1:GA:36:C:H4'	12:GL:117:ARG:CD	1.50	0.88
1:GA:371:G:H2'	1:GA:372:C:H4'	1.56	0.88
23:HA:107:C:C5'	43:HW:89:GLY:N	2.37	0.88
22:HB:1039:A:C2	22:HB:2466:G:H1'	2.09	0.88
22:HB:1454:U:H3	22:HB:1568:A:H61	0.92	0.88
22:HB:2764:U:H4'	25:HE:36:ARG:HH22	1.39	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:HB:498:C:O2'	40:HT:73:ASN:ND2	2.06	0.88
1:IA:635:G:O2'	17:IQ:4:LYS:HD2	1.72	0.88
6:IF:2:ARG:HH12	15:IO:2:PRO:CG	1.61	0.88
1:IA:642:A:N1	8:IH:131:GLY:N	2.22	0.88
1:IA:835:U:P	18:IR:64:ARG:CZ	2.60	0.88
22:JB:3171:A:C2'	53:J7:105:ARG:CD	2.42	0.88
22:JB:647:G:N1	33:JM:109:LEU:HD11	1.85	0.88
1:AA:741:G:H21	15:AO:51:HIS:CB	1.85	0.88
1:AA:1015:A:OP1	19:AS:14:HIS:HB2	1.74	0.88
22:BB:1861:G:N1	53:B7:199:ASN:HB2	1.89	0.88
22:BB:3866:A:H2'	53:B7:43:LYS:HA	1.54	0.88
22:BB:1041:G:H5''	34:BN:119:PHE:CZ	2.09	0.88
22:BB:2470:U:H3	22:BB:2548:G:H4'	1.39	0.88
22:BB:2795:A:C1'	35:BO:5:LYS:HD3	2.04	0.88
22:BB:1070:G:C5	30:BJ:126:THR:CG2	2.56	0.88
1:CA:922:G:H4'	5:CE:20:GLN:HE21	1.05	0.88
1:CA:1061:G:O2'	10:CJ:56:HIS:CE1	2.27	0.88
22:DB:2249:U:H5''	44:DX:18:PRO:HD3	1.55	0.88
22:DB:574:C:H5	39:DS:79:GLN:OE1	1.28	0.88
1:EA:922:G:O4'	5:EE:19:MET:SD	2.31	0.88
9:EI:11:LYS:HE3	9:EI:108:VAL:HG13	1.56	0.88
22:FB:641:G:N7	51:F5:15:LYS:CD	2.36	0.88
22:FB:1507:A:N1	22:FB:2188:A:OP1	2.07	0.88
22:FB:2510:A:O2'	28:FH:157:TYR:CZ	2.20	0.88
22:FB:2745:A:C4	22:FB:2746:G:C1'	2.56	0.88
22:FB:331:U:C4	26:FF:131:LYS:HA	2.09	0.88
22:FB:566:U:H1'	31:FK:74:MET:HB2	1.53	0.88
22:FB:590:C:P	38:FR:32:TYR:CB	2.53	0.88
22:FB:661:C:OP1	51:F5:20:GLY:N	2.07	0.88
22:FB:1670:G:N2	35:FO:11:ASN:HD21	1.70	0.88
38:FR:88:ILE:CD1	39:FS:52:GLY:O	2.22	0.88
22:FB:940:G:C2	46:FZ:37:THR:HG21	2.08	0.88
1:GA:927:G:H21	1:GA:1532:U:C4'	1.87	0.88
1:GA:1291:G:C3'	7:GG:41:ARG:HH12	1.87	0.88
1:GA:729:A:N6	15:GO:51:HIS:HE1	1.69	0.88
19:GS:51:VAL:HG23	19:GS:60:VAL:HG21	1.54	0.88
22:HB:2861:A:H2	48:H2:40:LYS:HB3	1.33	0.88
22:HB:1019:U:H4'	38:HR:59:ARG:HH21	1.35	0.88
22:HB:1075:C:OP1	30:HJ:84:ILE:HD11	1.72	0.88
34:HN:105:PHE:C	43:HW:113:VAL:HG11	1.52	0.88
22:HB:763:A:N1	40:HT:111:ARG:NH1	2.21	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:HN:68:ARG:HH21	43:HW:117:VAL:CG1	1.87	0.88
1:IA:1391:U:O2'	1:IA:1531:A:O5'	1.91	0.88
22:JB:1309:G:N1	22:JB:1661:C:N3	2.22	0.88
22:JB:512:A:H5''	40:JT:16:GLN:HA	0.90	0.88
22:JB:592:G:OP1	38:JR:8:ILE:N	0.73	0.88
22:JB:910:U:H3	22:JB:911:A:H5'	1.05	0.88
22:JB:1583:A:H1'	24:JD:84:TYR:CZ	2.08	0.88
22:JB:672:C:C3'	26:JF:94:THR:N	2.24	0.88
1:AA:1060:C:O3'	10:AJ:58:ASP:O	1.91	0.88
1:AA:1239:A:C2'	7:AG:115:ARG:CG	2.50	0.88
2:AB:7:VAL:HG23	2:AB:8:LYS:HG3	1.55	0.88
22:BB:227:G:H1'	33:BM:55:ARG:NH2	1.89	0.88
22:BB:2671:C:O2'	22:BB:2822:U:C2'	2.22	0.88
22:BB:1681:A:C2	22:BB:2706:U:H1'	2.09	0.88
22:BB:3866:A:H8	53:B7:43:LYS:HD3	1.29	0.88
22:BB:5:A:N6	22:BB:2872:U:O4	2.06	0.88
22:BB:720:A:N6	22:BB:738:G:H1'	1.89	0.88
22:BB:887:G:C1'	43:BW:166:LEU:O	2.12	0.88
25:BE:5:LEU:HD13	25:BE:28:ALA:H	1.35	0.88
22:BB:1237:G:O2'	39:BS:85:GLY:C	2.12	0.88
22:BB:2365:U:OP1	44:BX:39:ARG:NH2	2.05	0.88
1:CA:815:A:C4	1:CA:1529:G:N1	2.42	0.88
1:CA:1206:G:O4'	3:CC:193:TYR:O	1.90	0.88
1:CA:1396:A:N1	5:CE:19:MET:HE3	1.89	0.88
1:CA:1060:C:H5'	10:CJ:52:GLY:HA3	1.53	0.88
1:CA:529:G:N2	12:CL:49:ASN:CA	2.36	0.88
22:DB:3197:U:H3	22:DB:2204:A:N6	1.71	0.88
22:DB:864:C:C4'	46:DZ:43:MET:CG	2.31	0.88
22:DB:66:U:C6	22:DB:87:G:N2	2.42	0.88
33:DM:59:ARG:O	33:DM:60:LEU:HB2	1.70	0.88
22:DB:546:A:C4'	38:DR:57:PHE:HE1	1.81	0.88
22:DB:869:C:C1'	44:DX:24:LYS:CE	2.14	0.88
1:EA:546:G:C2	4:ED:2:GLY:N	2.41	0.88
1:EA:1104:G:O4'	2:EB:111:ARG:CD	2.05	0.88
1:EA:1072:G:H22	2:EB:111:ARG:HE	1.21	0.88
22:FB:1142:G:H1'	31:FK:111:LYS:HE2	0.89	0.88
22:FB:1238:A:OP1	39:FS:87:ARG:CD	2.20	0.88
1:GA:1393:U:O3'	1:GA:1394:A:P	2.31	0.88
1:GA:1349:A:H4'	9:GI:121:ARG:HH12	0.73	0.88
22:HB:2040:A:H4'	48:H2:8:LYS:CE	2.04	0.88
22:HB:1804:U:O2	24:HD:46:ARG:O	1.91	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:HB:1816:G:N2	24:HD:252:LYS:CE	2.36	0.88
22:HB:2062:U:H4'	47:H1:32:HIS:NE2	1.85	0.88
22:HB:643:A:C2	22:HB:2382:C:H1'	2.09	0.88
22:HB:2431:C:O3'	22:HB:2432:A:P	2.31	0.88
22:HB:1081:A:O4'	30:HJ:11:GLN:OE1	1.90	0.88
1:IA:127:G:H4'	17:IQ:4:LYS:HZ3	1.39	0.88
1:IA:779:C:H1'	11:IK:120:ARG:HD3	1.54	0.88
10:IJ:49:VAL:CG1	14:IN:45:ARG:HG3	2.04	0.88
33:JM:62:LYS:H	51:J5:30:ARG:HH11	0.91	0.88
22:JB:1807:A:O3'	24:JD:63:ARG:HD3	1.72	0.88
22:JB:2487:G:H5''	22:JB:2534:U:C4'	2.04	0.88
22:JB:2722:C:OP2	52:J6:35:ARG:O	1.92	0.88
22:JB:687:G:C5'	26:JF:70:GLY:HA3	2.04	0.88
22:JB:954:U:OP1	33:JM:39:SER:HA	1.47	0.88
22:JB:2558:C:O3'	25:JE:132:LYS:HE3	1.72	0.88
28:JH:24:PHE:HB2	28:JH:35:VAL:HG11	1.53	0.88
22:JB:592:G:C3'	38:JR:5:LYS:HD3	2.03	0.88
1:AA:1130:A:OP1	9:AI:20:ARG:CZ	2.22	0.88
5:AE:152:ARG:HH12	8:AH:122:ARG:HH21	1.15	0.88
22:BB:18:U:O2'	22:BB:563:U:C5'	2.22	0.88
22:BB:2462:C:O2'	34:BN:50:ALA:HB2	1.07	0.88
22:BB:2342:U:H4'	44:BX:38:VAL:HG12	1.54	0.88
1:CA:1061:G:HO2'	10:CJ:56:HIS:CE1	1.91	0.88
1:CA:1456:A:C3'	20:CT:28:ALA:HB2	2.04	0.88
1:CA:1456:A:OP1	20:CT:28:ALA:HB1	1.72	0.88
1:CA:437:U:H5''	4:CD:155:LEU:CD1	2.04	0.88
1:CA:436:C:O2	4:CD:157:LEU:CD1	2.22	0.88
6:CF:98:LEU:HD22	6:CF:101:ALA:HB3	1.56	0.88
1:CA:1117:G:C4'	9:CI:9:ARG:NH1	2.34	0.88
22:DB:2398:U:O5'	51:D5:31:HIS:O	1.91	0.88
22:DB:2558:C:C4'	25:DE:133:LYS:HE3	2.03	0.88
22:DB:2615:U:H1'	25:DE:79:ARG:NE	1.81	0.88
25:DE:105:THR:HG23	25:DE:166:THR:H	1.38	0.88
22:DB:2291:U:H5''	27:DG:85:VAL:CG2	2.04	0.88
22:DB:2372:A:H1'	33:DM:59:ARG:HG2	1.54	0.88
1:EA:237:C:H4'	17:EQ:27:PHE:CZ	2.08	0.88
1:EA:1298:C:H6	7:EG:114:ARG:NH1	1.65	0.88
22:FB:2324:G:H5'	49:F3:40:TYR:CD1	2.07	0.88
33:FM:61:PRO:HB2	51:F5:12:ARG:HD2	1.55	0.88
22:FB:1670:G:N2	35:FO:11:ASN:CG	2.28	0.88
22:FB:2399:C:H5	51:F5:31:HIS:HA	0.73	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:FB:1150:C:OP1	31:FK:51:LEU:O	1.90	0.88
1:GA:1374:A:C2	7:GG:29:LYS:NZ	2.41	0.88
1:GA:186:C:O2'	20:GT:81:LYS:HB3	1.74	0.88
22:HB:3172:U:P	53:H7:105:ARG:CZ	2.62	0.88
22:HB:1795:C:C3'	24:HD:250:TRP:HH2	1.86	0.88
22:HB:2:G:C2	22:HB:2876:C:C2	2.60	0.88
22:HB:5:A:N1	22:HB:2873:G:C6	2.40	0.88
22:HB:1815:G:OP1	24:HD:54:ILE:CG1	2.22	0.88
1:EA:1263:C:O2	1:IA:1264:C:H5'	1.72	0.88
1:IA:277:C:H42	17:IQ:96:GLN:HE21	1.21	0.88
1:IA:376:G:H4'	16:IP:28:ARG:NH1	1.81	0.88
7:IG:16:LEU:HB3	9:II:41:VAL:O	1.73	0.88
1:IA:764:C:H5''	15:IO:50:HIS:CG	2.09	0.88
22:JB:2411:A:C2	47:J1:30:GLU:HB3	2.06	0.88
23:JA:49:C:H4'	36:JP:95:LYS:HG3	1.25	0.88
22:JB:1261:G:C6	26:JF:44:SER:OG	2.25	0.88
22:JB:2075:U:OP1	22:JB:2182:A:N3	2.07	0.88
22:JB:2262:C:O3'	49:J3:9:ILE:N	2.07	0.88
22:JB:674:U:C5'	26:JF:93:TYR:OH	2.22	0.88
22:JB:593:C:O2	26:JF:76:THR:CA	2.22	0.88
22:JB:70:A:C6	41:JU:30:SER:HB2	2.08	0.88
1:AA:1015:A:OP1	19:AS:14:HIS:CB	2.22	0.88
1:AA:815:A:N3	1:AA:1529:G:C2	2.42	0.88
1:AA:270:A:H5'	22:BB:1738:U:H1'	1.54	0.88
1:AA:8:A:N6	4:AD:205:GLU:O	2.07	0.88
1:AA:668:G:H2'	15:AO:45:VAL:HG12	1.13	0.88
22:BB:1166:A:N1	22:BB:1168:G:N9	2.21	0.88
22:BB:2601:C:H5'	25:BE:159:HIS:CD2	2.08	0.88
22:BB:922:A:N3	22:BB:2244:C:C5'	2.35	0.88
22:BB:1109:A:H4'	30:BJ:7:ILE:HD12	1.54	0.88
22:BB:1007:A:C5'	38:BR:94:VAL:HG23	2.03	0.88
22:BB:2310:G:C4'	44:BX:71:ASN:HA	2.04	0.88
5:CE:140:ARG:HE	8:CH:72:PRO:HD2	1.33	0.88
1:CA:1318:A:H2	19:CS:37:ARG:HH12	1.21	0.88
23:DA:106:U:O3'	43:DW:88:TYR:CB	2.22	0.88
22:DB:1438:G:N1	22:DB:1591:U:O2	2.07	0.88
22:DB:1698:C:O3'	22:DB:1699:A:P	2.32	0.88
22:DB:2463:G:O2'	34:DN:121:LEU:HD12	1.73	0.88
22:DB:2542:U:OP1	32:DL:37:GLY:O	1.90	0.88
22:DB:2632:U:H3	28:DH:110:SER:N	1.71	0.88
22:DB:497:C:C2'	40:DT:77:ALA:HB1	2.04	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:DB:612:G:H4'	22:DB:613:A:H4'	1.55	0.88
22:DB:2767:C:C3'	25:DE:60:ASN:HB2	2.04	0.88
31:DK:75:ILE:HG22	31:DK:140:GLN:HA	1.56	0.88
1:EA:640:A:O2'	8:EH:127:LEU:CG	2.22	0.88
1:EA:919:A:N1	1:EA:920:U:O4	2.07	0.88
1:EA:970:C:OP1	10:EJ:55:LYS:NZ	2.07	0.88
1:EA:1073:U:O2	2:EB:107:THR:HG21	1.74	0.88
22:FB:1673:C:C6	25:FE:136:ARG:CZ	2.57	0.88
22:FB:2661:G:H1'	25:FE:11:MET:HE3	1.54	0.88
22:FB:1203:A:H4'	33:FM:36:GLY:N	1.88	0.88
22:FB:1041:G:C4'	34:FN:119:PHE:HE2	1.86	0.88
22:FB:591:G:OP1	38:FR:32:TYR:HE2	1.56	0.88
22:FB:457:C:H5'	38:FR:3:ARG:CG	2.04	0.88
1:GA:922:G:N2	1:GA:1395:C:C2	2.41	0.88
1:GA:1196:U:C5	1:GA:1397:C:C5	2.61	0.88
1:GA:824:C:H1'	8:GH:2:LEU:HD22	1.56	0.88
22:HB:2560:G:H5''	22:HB:2561:G:H5'	1.56	0.88
22:HB:2747:C:H4'	31:HK:114:THR:HG1	1.39	0.88
22:HB:489:A:H4'	42:HV:5:SER:C	1.94	0.88
22:HB:489:A:H5''	42:HV:5:SER:N	1.89	0.88
22:HB:1789:U:H5''	24:HD:257:LEU:HD22	1.54	0.88
22:HB:965:G:OP1	34:HN:18:MET:CB	2.22	0.88
38:HR:94:VAL:HG11	39:HS:10:LYS:HD2	1.53	0.88
1:IA:1014:A:OP2	19:IS:14:HIS:O	1.91	0.88
1:IA:1071:C:P	5:IE:27:ARG:NH2	2.45	0.88
1:IA:125:U:O3'	1:IA:605:U:H1'	1.74	0.88
1:IA:371:G:H2'	1:IA:372:C:H4'	1.56	0.88
1:IA:642:A:H8	8:IH:117:GLY:H	1.17	0.88
1:IA:590:C:H4'	8:IH:30:ARG:NH2	1.88	0.88
22:JB:2208:U:HO2'	47:J1:40:HIS:HB2	1.34	0.88
22:JB:1088:A:H5'	30:JJ:91:PRO:C	1.94	0.88
22:JB:1197:U:H5''	46:JZ:26:ARG:HH21	1.11	0.88
22:JB:1820:G:C6	24:JD:221:GLN:HG3	2.09	0.88
22:JB:2742:G:C2'	28:JH:150:LYS:HG2	2.04	0.88
22:JB:778:G:OP1	24:JD:214:TRP:CZ2	2.26	0.88
22:JB:2599:U:O2'	25:JE:157:ALA:O	1.92	0.88
22:JB:2810:A:C4'	37:JQ:6:LYS:HG3	2.03	0.88
22:JB:1173:G:H4'	39:JS:91:THR:CB	2.04	0.88
1:AA:1316:G:O3'	14:AN:18:VAL:CG1	2.22	0.87
1:AA:8:A:H1'	5:AE:104:ALA:HB2	1.55	0.87
14:AN:53:LEU:HD12	14:AN:56:VAL:HB	1.55	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BO:99:ARG:HE	48:B2:44:HIS:HD2	1.19	0.87
23:BA:95:U:O3'	43:BW:14:LEU:CB	2.22	0.87
22:BB:1401:G:O6	22:BB:1412:C:N4	2.07	0.87
22:BB:1670:G:OP2	22:BB:2797:G:O6	1.92	0.87
22:BB:187:U:H5'	50:B4:26:SER:HG	1.10	0.87
22:BB:2795:A:P	35:BO:5:LYS:HB2	2.14	0.87
1:AA:712:A:C4'	24:BD:182:LEU:CD1	2.42	0.87
22:BB:2786:G:C4'	25:BE:59:VAL:HG13	2.04	0.87
22:BB:2615:U:OP1	25:BE:78:LEU:HA	1.74	0.87
22:BB:1236:G:OP2	39:BS:87:ARG:NH2	2.07	0.87
1:CA:1092:A:H5'	7:CG:4:ARG:CD	2.04	0.87
1:CA:815:A:N3	1:CA:1529:G:N2	2.20	0.87
2:CB:7:VAL:HG23	2:CB:8:LYS:HG3	1.55	0.87
22:DB:419:G:OP2	53:D7:197:GLU:HG2	1.74	0.87
22:DB:1673:C:H6	25:DE:136:ARG:NH1	1.70	0.87
22:DB:1999:U:O2	48:D2:7:PRO:HG3	1.74	0.87
22:DB:2218:G:C5'	24:DD:230:ASP:HA	2.04	0.87
22:DB:642:A:H2	33:DM:66:ASN:OD1	1.29	0.87
1:EA:742:G:C5'	15:EO:58:MET:SD	2.62	0.87
1:EA:1320:C:N1	19:ES:72:GLY:HA3	1.87	0.87
22:FB:1135:C:O3'	52:F6:4:ARG:NE	2.06	0.87
22:FB:1363:C:O2'	22:FB:1588:A:C4'	2.21	0.87
22:FB:1400:A:C6	22:FB:1414:G:N1	2.28	0.87
22:FB:3175:C:H1'	53:F7:208:THR:O	1.74	0.87
22:FB:411:C:H5'	47:F1:62:ARG:HH22	1.39	0.87
40:FT:60:ILE:HG22	48:F2:25:LEU:HD13	1.49	0.87
1:GA:194:C:C1'	20:GT:64:ASP:O	2.22	0.87
1:GA:37:U:H5''	12:GL:124:LYS:HD2	1.55	0.87
9:GI:19:LEU:HA	9:GI:61:ALA:HA	1.54	0.87
1:GA:391:G:C5'	16:GP:8:ARG:CZ	2.50	0.87
42:HV:40:LEU:HB2	42:HV:44:GLN:HA	1.55	0.87
1:IA:1188:A:C5'	9:II:114:TYR:CE2	2.56	0.87
1:IA:1148:U:C5'	9:II:14:VAL:HB	2.04	0.87
1:IA:134:A:H62	16:IP:25:ARG:HH22	1.14	0.87
1:IA:127:G:H4'	17:IQ:4:LYS:NZ	1.90	0.87
22:JB:1238:A:H5''	39:JS:73:LYS:NZ	1.89	0.87
22:JB:2560:G:H5''	22:JB:2561:G:H5'	1.56	0.87
22:JB:3178:C:H2'	53:J7:39:ILE:HD12	0.90	0.87
22:JB:528:G:N3	40:JT:96:TYR:HB2	1.88	0.87
41:JU:92:ALA:HB1	45:JY:30:PHE:CE1	2.08	0.87
1:AA:759:A:C6	17:AQ:98:LEU:CD1	2.56	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:AS:12:ASP:H	19:AS:38:SER:HB3	1.38	0.87
22:BB:2789:U:O4'	48:B2:30:LEU:HD13	1.71	0.87
22:BB:1072:U:O4	30:BJ:54:PRO:HB3	1.71	0.87
22:BB:887:G:H5''	43:BW:170:SER:OG	1.74	0.87
31:BK:75:ILE:HG22	31:BK:140:GLN:HA	1.55	0.87
22:BB:1631:C:N3	40:BT:108:PRO:HD2	1.88	0.87
1:CA:1206:G:H4'	3:CC:193:TYR:O	1.73	0.87
1:CA:371:G:H2'	1:CA:372:C:H4'	1.56	0.87
1:CA:1374:A:C2	7:CG:29:LYS:HE3	2.09	0.87
14:CN:53:LEU:HD12	14:CN:56:VAL:HB	1.55	0.87
23:DA:106:U:O4'	43:DW:88:TYR:CZ	2.27	0.87
23:DA:9:G:H4'	36:DP:32:TYR:CE1	2.08	0.87
22:DB:1018:C:O2	31:DK:133:GLY:O	1.90	0.87
22:DB:1239:A:OP2	39:DS:73:LYS:NZ	2.07	0.87
22:DB:1887:G:N2	22:DB:1912:G:H4'	1.89	0.87
22:DB:225:G:O2'	47:D1:28:ARG:HB2	1.74	0.87
22:DB:2710:C:C4'	25:DE:169:ASN:CB	2.38	0.87
23:DA:9:G:C4'	36:DP:32:TYR:OH	2.21	0.87
1:EA:922:G:N2	1:EA:1396:A:N6	2.21	0.87
1:EA:633:G:C4'	17:EQ:28:PRO:CG	2.48	0.87
22:FB:2464:G:O2'	34:FN:123:GLY:CA	2.21	0.87
22:FB:2773:G:C8	22:FB:2780:A:H2	1.88	0.87
22:FB:331:U:C5	26:FF:131:LYS:HG3	2.08	0.87
22:FB:2254:C:H1'	34:FN:86:LYS:CE	2.03	0.87
22:FB:1171:A:H2	39:FS:8:GLY:O	1.56	0.87
43:FW:48:THR:HG22	43:FW:130:ILE:HD13	1.55	0.87
1:GA:815:A:C2'	1:GA:1526:G:N2	2.37	0.87
1:GA:1229:A:C5	13:GM:120:LYS:N	2.32	0.87
12:GL:11:VAL:HA	17:GQ:32:TYR:CG	2.08	0.87
22:HB:64:C:C4	22:HB:88:G:N1	2.43	0.87
22:HB:741:G:H1'	24:HD:17:THR:HB	1.56	0.87
41:HU:46:PHE:HB2	45:HY:19:ASP:CG	1.93	0.87
1:IA:1194:U:H4'	5:IE:22:GLY:HA3	0.90	0.87
1:IA:1320:C:H1'	19:IS:73:GLU:H	1.05	0.87
10:IJ:64:GLU:CG	14:IN:59:ALA:CA	2.51	0.87
19:IS:12:ASP:H	19:IS:38:SER:HB3	1.38	0.87
22:JB:1001:A:H5'	46:JZ:27:LYS:NZ	1.75	0.87
22:JB:1336:G:C5'	40:JT:105:ARG:CD	2.41	0.87
22:JB:1338:G:O4'	40:JT:107:ILE:CD1	2.22	0.87
22:JB:423:G:N2	22:JB:2386:G:C4	2.42	0.87
22:JB:50:G:H1'	22:JB:116:A:N6	1.87	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:JB:1809:G:H5''	24:JD:156:ALA:CB	2.04	0.87
22:JB:2708:U:OP1	32:JL:82:LYS:CB	2.22	0.87
33:JM:59:ARG:O	33:JM:60:LEU:HB2	1.71	0.87
1:AA:1230:C:H1'	13:AM:125:ARG:NH2	1.89	0.87
1:AA:15:G:C5	5:AE:19:MET:HB2	2.08	0.87
1:AA:981:U:O2'	14:AN:31:ARG:CZ	2.23	0.87
10:AJ:65:LEU:HG	14:AN:55:GLY:O	1.75	0.87
1:AA:953:G:C5'	13:AM:124:PRO:HD2	2.01	0.87
22:BB:2767:C:H1'	25:BE:61:LYS:HZ2	1.25	0.87
22:BB:659:G:O2'	51:B5:48:PHE:CE2	2.25	0.87
22:BB:2007:G:N2	31:BK:103:TYR:CD1	2.35	0.87
41:BU:61:LYS:H	41:BU:72:ARG:HD3	1.40	0.87
1:CA:1117:G:H4'	9:CI:9:ARG:NH2	1.88	0.87
1:CA:275:G:O4'	17:CQ:15:MET:CG	2.18	0.87
1:CA:1102:A:H2	2:CB:104:ASN:HD22	1.16	0.87
1:CA:588:G:H5'	8:CH:3:THR:H	1.37	0.87
1:CA:227:G:H21	16:CP:62:VAL:CG1	1.87	0.87
23:DA:117:G:H5'	36:DP:51:LEU:O	1.74	0.87
22:DB:503:G:O3'	40:DT:29:LYS:HE3	1.72	0.87
22:DB:1583:A:C8	24:DD:84:TYR:CD1	2.61	0.87
22:DB:1006:C:H4'	38:DR:93:LYS:HZ1	1.37	0.87
6:EF:50:TYR:CE1	18:ER:80:PRO:HA	2.09	0.87
17:EQ:59:ILE:HD12	17:EQ:73:VAL:HG22	1.55	0.87
1:EA:188:C:N4	20:ET:104:LEU:O	2.06	0.87
22:FB:409:G:H4'	47:F1:39:VAL:CB	2.05	0.87
22:FB:113:C:O2'	22:FB:125:A:H4'	1.75	0.87
22:FB:2679:G:H21	35:FO:68:GLN:HG2	1.36	0.87
22:FB:547:U:O2	31:FK:71:THR:CG2	2.19	0.87
25:FE:105:THR:HG23	25:FE:166:THR:H	1.38	0.87
43:FW:65:LEU:HD22	43:FW:128:ARG:HH12	1.31	0.87
10:GJ:51:ARG:HG2	14:GN:45:ARG:CZ	2.04	0.87
22:HB:2862:G:O2'	48:H2:29:ASN:ND2	2.06	0.87
22:HB:1247:U:C6	40:HT:11:LYS:CE	2.57	0.87
22:HB:2337:A:H2	51:H5:52:LYS:CG	1.87	0.87
22:HB:2550:C:O3'	25:HE:144:ARG:HG2	1.73	0.87
22:HB:2463:G:H5''	34:HN:44:LYS:NZ	1.88	0.87
23:JA:48:A:O3'	36:JP:94:TYR:OH	1.91	0.87
22:JB:2398:U:H3'	51:J5:34:THR:OG1	0.70	0.87
22:JB:884:C:O3'	34:JN:70:PHE:CD2	2.27	0.87
22:JB:1129:A:H5'	43:JW:76:ARG:HE	1.38	0.87
1:AA:1298:C:H2'	7:AG:114:ARG:HH22	1.35	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:331:G:OP2	20:AT:10:LEU:CD1	2.22	0.87
1:AA:371:G:H2'	1:AA:372:C:H4'	1.56	0.87
1:AA:741:G:N2	15:AO:51:HIS:CB	2.37	0.87
1:AA:658:G:H5'	15:AO:8:LYS:NZ	1.77	0.87
1:AA:43:C:C5'	16:AP:12:LYS:HE3	2.03	0.87
1:AA:1221:G:C4'	19:AS:77:THR:OG1	2.23	0.87
22:BB:127:C:H4'	22:BB:1360:G:N1	1.89	0.87
22:BB:1808:C:P	24:BD:87:ASN:ND2	2.38	0.87
22:BB:2766:U:H5'	25:BE:65:GLY:N	1.88	0.87
25:BE:176:ARG:HD2	37:BQ:19:ASP:OD2	1.74	0.87
41:BU:46:PHE:HB2	45:BY:23:LYS:NZ	1.90	0.87
41:BU:23:GLY:HA3	41:BU:82:LEU:HD22	1.57	0.87
22:BB:2334:C:C2	44:BX:32:LYS:NZ	2.43	0.87
1:CA:932:C:H5''	7:CG:3:ARG:CB	1.88	0.87
1:CA:981:U:O2'	14:CN:31:ARG:CZ	2.22	0.87
1:CA:1205:U:H5'	3:CC:195:VAL:HG21	1.56	0.87
1:CA:8:A:C5'	5:CE:120:THR:O	2.19	0.87
7:CG:16:LEU:HD21	9:CI:42:ARG:HH11	1.37	0.87
1:CA:1060:C:OP1	10:CJ:51:ARG:HB3	1.72	0.87
22:DB:124:A:N6	50:D4:45:SER:HB2	1.89	0.87
22:DB:1782:A:O2'	24:DD:205:VAL:HG21	1.75	0.87
22:DB:1797:C:H1'	24:DD:49:ILE:HG21	0.88	0.87
22:DB:2661:G:C6	25:DE:11:MET:N	2.41	0.87
22:DB:504:G:O4'	40:DT:27:VAL:O	1.92	0.87
25:DE:151:TYR:HA	31:DK:106:TYR:HE1	1.09	0.87
22:DB:2713:A:H61	25:DE:203:LYS:HB3	1.32	0.87
22:DB:2373:C:H5'	33:DM:59:ARG:HH11	1.39	0.87
22:DB:1288:A:N1	35:DO:19:ALA:CB	2.37	0.87
41:DU:23:GLY:HA3	41:DU:82:LEU:HD22	1.57	0.87
3:EC:8:ILE:HG12	3:EC:11:ARG:HH22	1.37	0.87
1:EA:583:A:H1'	17:EQ:91:ARG:HG2	1.54	0.87
22:FB:2344:G:H4'	44:FX:66:LYS:HD2	1.55	0.87
22:FB:57:G:OP2	41:FU:72:ARG:HB3	1.72	0.87
22:FB:60:A:C5'	45:FY:31:GLN:OE1	2.22	0.87
22:FB:1673:C:O5'	25:FE:136:ARG:HG2	1.75	0.87
26:FF:132:ASN:HA	26:FF:135:SER:HB3	1.55	0.87
32:FL:132:GLU:CG	37:FQ:75:GLU:CB	2.50	0.87
1:GA:502:G:OP1	12:GL:116:SER:N	2.07	0.87
13:GM:87:TYR:HB3	19:GS:73:GLU:HB2	1.54	0.87
22:HB:1376:C:H5	47:H1:55:ARG:HE	1.19	0.87
23:HA:45:C:C2'	27:HG:92:ARG:NH1	2.38	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:HB:1238:A:OP1	39:HS:87:ARG:CG	2.23	0.87
22:HB:224:G:H1'	22:HB:229:G:H22	1.38	0.87
22:HB:2505:G:H5'	22:HB:2722:C:P	2.13	0.87
22:HB:2606:G:C1'	22:HB:2757:G:C2	2.58	0.87
22:HB:79:G:O2'	22:HB:305:A:N1	2.08	0.87
13:GM:93:ARG:HH12	22:HB:900:U:H3'	1.21	0.87
22:HB:1582:A:OP2	24:HD:24:LEU:HD13	1.73	0.87
22:HB:636:G:C6	33:HM:97:ARG:NE	2.29	0.87
22:HB:2343:C:H4'	44:HX:40:GLN:CB	2.04	0.87
1:IA:553:A:H4'	12:IL:26:ALA:CB	2.03	0.87
22:JB:1486:A:H2	22:JB:1535:C:H41	1.21	0.87
1:IA:1409:C:H4'	22:JB:1898:U:O4	1.73	0.87
22:JB:1996:A:C5'	40:JT:117:ILE:N	2.36	0.87
22:JB:47:G:H1'	22:JB:155:G:H1	1.38	0.87
22:JB:612:G:H4'	22:JB:613:A:H4'	1.55	0.87
30:JJ:21:PRO:HB2	30:JJ:22:PRO:HD3	1.56	0.87
22:JB:2464:G:C2'	34:JN:123:GLY:CA	2.28	0.87
22:JB:528:G:OP1	40:JT:35:PRO:O	1.92	0.87
22:JB:468:A:C4'	41:JU:69:ILE:HD11	2.04	0.87
22:JB:2315:A:N3	44:JX:70:ILE:CD1	2.38	0.87
1:AA:1128:C:C5'	9:AI:16:ARG:HH11	1.86	0.87
1:AA:1189:C:OP1	10:AJ:61:GLU:OE2	1.89	0.87
10:AJ:65:LEU:HB2	14:AN:56:VAL:CG1	2.04	0.87
22:BB:1087:C:O2'	30:BJ:91:PRO:HB2	1.74	0.87
22:BB:872:G:O2'	22:BB:2247:A:C2	1.94	0.87
22:BB:7:G:H5''	31:BK:79:PHE:CZ	2.09	0.87
1:CA:668:G:C8	15:CO:49:ASP:HB2	2.09	0.87
22:DB:1999:U:H4'	48:D2:6:VAL:HG11	1.56	0.87
22:DB:225:G:H4'	47:D1:28:ARG:HG3	1.56	0.87
22:DB:967:G:H5'	34:DN:78:LYS:CE	2.05	0.87
23:DA:117:G:O2'	36:DP:53:ALA:CB	2.22	0.87
43:DW:84:TYR:CE2	43:DW:128:ARG:HG3	2.08	0.87
13:EM:89:GLY:CA	13:EM:92:HIS:NE2	2.38	0.87
14:EN:53:LEU:HD12	14:EN:56:VAL:HB	1.55	0.87
1:EA:632:A:C2'	17:EQ:30:PRO:CA	2.50	0.87
22:FB:125:A:N6	50:F4:18:PHE:HE1	1.63	0.87
22:FB:2237:C:H5'	44:FX:12:ASN:HD21	1.39	0.87
22:FB:88:G:H21	41:FU:67:ARG:HH22	0.94	0.87
24:FD:60:ARG:HG2	24:FD:61:LEU:HG	1.57	0.87
25:FE:5:LEU:HD13	25:FE:28:ALA:H	1.36	0.87
1:GA:15:G:C2'	5:GE:17:ALA:HB3	2.05	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:GA:1373:G:O2'	7:GG:31:MET:CE	2.22	0.87
22:HB:2789:U:H6	48:H2:30:LEU:HD13	1.20	0.87
22:HB:1468:A:O5'	35:HO:77:ARG:NH2	2.08	0.87
22:HB:460:U:H2'	26:HF:78:VAL:HG22	1.56	0.87
22:HB:498:C:C1'	40:HT:74:SER:HA	2.03	0.87
1:IA:1359:C:C5'	14:IN:31:ARG:CG	2.49	0.87
1:IA:707:C:C5'	11:IK:85:ARG:CZ	2.38	0.87
22:JB:1379:A:C5'	47:J1:1:MET:HE1	2.04	0.87
22:JB:1088:A:H5''	30:JJ:92:ASN:CB	2.05	0.87
22:JB:1309:G:H2'	22:JB:1310:C:C6	2.10	0.87
22:JB:2181:A:C2	29:JI:28:TRP:CB	2.57	0.87
22:JB:2491:C:C5'	25:JE:138:PRO:HB3	2.04	0.87
25:JE:105:THR:HG23	25:JE:166:THR:H	1.37	0.87
25:JE:5:LEU:HD13	25:JE:28:ALA:H	1.36	0.87
26:JF:132:ASN:HA	26:JF:135:SER:HB3	1.55	0.87
22:JB:234:C:O3'	33:JM:103:ASN:OD1	1.93	0.87
22:JB:845:U:O2	33:JM:53:ARG:NH2	2.07	0.87
1:AA:1228:C:N4	13:AM:120:LYS:HD3	1.90	0.87
1:AA:974:A:C2	14:AN:31:ARG:HB2	2.04	0.87
22:BB:1166:A:C6	22:BB:1168:G:C5	2.62	0.87
22:BB:2370:G:O3'	22:BB:2371:A:OP1	1.90	0.87
22:BB:652:C:O2'	51:B5:42:ARG:NH1	2.08	0.87
31:BK:77:GLY:HA3	31:BK:147:ARG:HH22	1.40	0.87
1:CA:437:U:C5'	4:CD:155:LEU:CD1	2.52	0.87
1:CA:489:C:OP1	4:CD:132:ARG:CG	2.23	0.87
13:CM:81:LEU:C	13:CM:92:HIS:HB3	1.95	0.87
22:DB:1011:A:H5'	46:DZ:7:ARG:HH11	1.40	0.87
22:DB:123:A:C4'	50:D4:13:ALA:HB1	2.05	0.87
22:DB:28:A:H1'	38:DR:11:ARG:HH22	1.39	0.87
22:DB:318:G:C4'	40:DT:12:LYS:NZ	2.37	0.87
22:DB:426:C:O3'	22:DB:1862:C:O2'	1.93	0.87
22:DB:502:A:H2'	40:DT:30:TYR:HE2	1.38	0.87
22:DB:627:A:OP1	26:DF:100:ARG:NH2	2.07	0.87
34:DN:99:LYS:HB3	43:DW:74:ARG:HB2	0.88	0.87
1:EA:1081:G:O5'	5:EE:18:ARG:HA	1.74	0.87
1:EA:538:G:OP1	12:EL:113:ARG:HD2	1.75	0.87
40:FT:51:GLN:O	48:F2:29:ASN:OD1	1.90	0.87
48:F2:33:CYS:HB2	48:F2:38:GLY:HA2	1.55	0.87
22:FB:3866:A:C5	53:F7:195:LYS:O	2.28	0.87
22:FB:2745:A:O2'	22:FB:2746:G:H5'	1.74	0.87
22:FB:347:C:C2	42:FV:10:HIS:HE1	1.85	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:FN:27:TYR:CZ	43:FW:73:LYS:CA	2.43	0.87
1:GA:18:C:C4'	5:GE:130:ASN:ND2	2.36	0.87
10:GJ:64:GLU:CG	14:GN:58:LYS:C	2.42	0.87
1:GA:739:C:O2	15:GO:46:HIS:HE1	1.52	0.87
22:HB:123:A:O3'	50:H4:18:PHE:HD1	1.55	0.87
22:HB:57:G:P	41:HU:75:ARG:NH2	2.44	0.87
22:HB:823:U:H2'	33:HM:30:ALA:CB	2.03	0.87
22:HB:2462:C:O2'	34:HN:50:ALA:HB3	1.73	0.87
22:HB:1668:G:O5'	35:HO:11:ASN:ND2	2.08	0.87
41:HU:23:GLY:HA3	41:HU:82:LEU:HD22	1.57	0.87
34:HN:62:GLY:CA	43:HW:110:GLY:CA	2.50	0.87
1:EA:1273:G:C4	1:IA:1264:C:H4'	2.08	0.87
1:IA:1328:C:O5'	13:IM:28:ALA:HB3	1.75	0.87
1:IA:134:A:N6	16:IP:25:ARG:HH12	1.66	0.87
22:JB:2208:U:C2	47:J1:42:PHE:HE1	1.90	0.87
22:JB:3176:A:P	53:J7:33:ILE:HD13	2.05	0.87
22:JB:1761:G:H4'	22:JB:1920:A:HO2'	1.39	0.87
22:JB:2259:G:N3	22:JB:2367:A:N3	2.22	0.87
22:JB:488:A:H2	42:JV:74:LEU:HD23	1.37	0.87
22:JB:62:U:H4'	41:JU:62:ARG:HH11	1.32	0.87
24:JD:60:ARG:HG2	24:JD:61:LEU:HG	1.57	0.87
22:JB:594:G:OP1	26:JF:82:VAL:HG21	1.74	0.87
22:JB:3187:U:P	29:JI:11:LEU:HD21	2.14	0.87
22:JB:1216:G:N3	33:JM:14:LYS:HD2	1.89	0.87
43:JW:65:LEU:HD22	43:JW:128:ARG:HE	1.40	0.87
22:JB:1197:U:OP1	46:JZ:26:ARG:HB3	1.73	0.87
1:AA:735:C:OP1	18:AR:68:LYS:HE2	1.73	0.87
1:AA:953:G:N7	13:AM:123:ALA:O	2.07	0.87
1:AA:8:A:H62	4:AD:205:GLU:HB2	1.37	0.87
22:BB:157:G:C4'	50:B4:36:ALA:CB	2.28	0.87
22:BB:1809:G:H5''	24:BD:157:ARG:NH1	1.84	0.87
22:BB:965:G:OP1	34:BN:18:MET:HA	1.75	0.87
1:CA:1117:G:C4'	9:CI:9:ARG:NH2	2.38	0.87
1:CA:739:C:C2	15:CO:42:HIS:CE1	2.63	0.87
22:DB:1674:C:C5'	25:DE:134:TRP:HB3	2.04	0.87
22:DB:2229:G:C2'	34:DN:84:MET:O	2.22	0.87
22:DB:2056:C:O2'	24:DD:228:PRO:CG	2.18	0.87
22:DB:565:A:C6	31:DK:73:ASN:ND2	2.42	0.87
41:DU:61:LYS:H	41:DU:72:ARG:HD3	1.40	0.87
1:EA:1186:G:O4'	9:EI:110:GLU:CG	2.12	0.87
1:EA:1318:A:C2	19:ES:37:ARG:NH1	2.41	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:EA:487:A:C2	4:ED:131:ARG:NH2	2.43	0.87
1:EA:761:G:C6	17:EQ:104:LYS:CE	2.41	0.87
1:EA:761:G:N2	17:EQ:104:LYS:HE2	1.90	0.87
2:EB:181:PHE:CG	5:EE:64:ARG:NH2	2.42	0.87
1:EA:643:C:C1'	8:EH:113:SER:HB3	2.04	0.87
22:FB:1516:A:O2'	24:FD:98:ALA:CB	2.18	0.87
22:FB:339:U:O2'	42:FV:76:LEU:HA	1.75	0.87
22:FB:3877:A:N1	22:FB:1862:C:O2	2.07	0.87
22:FB:591:G:H5''	38:FR:11:ARG:HH11	1.35	0.87
22:FB:7:G:H1'	31:FK:162:LYS:NZ	1.90	0.87
22:FB:997:C:H4'	23:FA:86:A:H5''	1.55	0.87
22:FB:2490:U:C5'	25:FE:122:PHE:HE1	1.78	0.87
33:FM:63:ARG:NE	51:F5:9:MET:CE	2.37	0.87
22:FB:2464:G:C4'	34:FN:123:GLY:N	2.25	0.87
1:GA:254:G:H5'	17:GQ:69:LYS:HD2	1.54	0.87
1:GA:1297:C:H1'	7:GG:114:ARG:CZ	2.04	0.87
1:GA:1250:A:H5'	9:GI:68:GLY:HA2	1.54	0.87
1:GA:324:G:OP1	20:GT:22:ARG:NH1	1.77	0.87
22:HB:1043:A:OP1	52:H6:8:LYS:HA	1.73	0.87
22:HB:1664:G:C8	40:HT:107:ILE:CD1	2.55	0.87
22:HB:2487:G:H5''	22:HB:2534:U:C5'	2.05	0.87
22:HB:3093:C:H4'	22:HB:2181:A:N1	1.90	0.87
22:HB:825:C:H4'	38:HR:13:ARG:HH21	1.07	0.87
22:HB:8:A:N1	22:HB:2869:U:C2	2.42	0.87
22:HB:1582:A:C5	24:HD:211:ARG:CG	2.57	0.87
22:HB:71:A:H5'	45:HY:54:ASN:CG	1.94	0.87
1:IA:835:U:OP1	18:IR:64:ARG:CD	2.22	0.87
1:IA:598:U:H1'	8:IH:130:GLY:O	1.74	0.87
1:IA:1369:C:OP2	9:II:112:LYS:HB2	1.73	0.87
1:IA:675:A:N6	11:IK:116:HIS:CB	2.34	0.87
22:JB:1071:U:O4	30:JJ:130:THR:CA	2.23	0.87
22:JB:1813:A:H4'	24:JD:157:ARG:HH22	1.34	0.87
22:JB:224:G:H1'	22:JB:229:G:H22	1.38	0.87
22:JB:3164:C:H5''	53:J7:102:LYS:CD	2.03	0.87
22:JB:77:C:OP1	45:JY:7:ARG:NH2	2.05	0.87
22:JB:846:A:O4'	33:JM:53:ARG:CZ	2.23	0.87
22:JB:592:G:C2'	38:JR:5:LYS:HE2	2.04	0.87
22:JB:1174:G:C8	39:JS:89:ASN:C	2.47	0.87
22:JB:348:U:O2	42:JV:11:ASN:CB	2.22	0.87
22:JB:60:A:C4'	45:JY:29:ARG:HH21	1.88	0.87
22:JB:71:A:H61	45:JY:58:ALA:HA	1.40	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1248:A:O4'	9:AI:36:TYR:OH	1.91	0.87
1:AA:521:G:N7	12:AL:49:ASN:OD1	2.07	0.87
6:AF:98:LEU:HD22	6:AF:101:ALA:HB3	1.56	0.87
1:AA:1061:G:H4'	10:AJ:58:ASP:CB	2.03	0.87
1:AA:694:A:H5'	11:AK:53:SER:HB2	0.89	0.87
22:BB:3124:G:H21	53:B7:209:MSE:HG2	1.40	0.87
22:BB:1141:U:N1	31:BK:106:TYR:CD1	2.42	0.87
22:BB:1378:A:C5'	47:B1:40:HIS:NE2	2.38	0.87
22:BB:612:G:H4'	22:BB:613:A:H4'	1.56	0.87
22:BB:755:C:C4'	25:BE:129:HIS:CE1	2.52	0.87
22:BB:6:A:H5'	31:BK:162:LYS:CE	2.05	0.87
34:BN:78:LYS:HD3	34:BN:87:GLY:HA2	1.57	0.87
25:BE:195:LEU:CD1	37:BQ:2:GLN:CD	2.33	0.87
22:DB:2040:A:H4'	48:D2:6:VAL:HG22	1.57	0.87
22:DB:1002:C:N3	22:DB:1174:G:C2	2.42	0.87
22:DB:2181:A:H1'	29:DI:24:TYR:HD2	1.14	0.87
22:DB:676:G:C2	22:DB:950:G:H4'	2.09	0.87
22:DB:567:G:C5'	31:DK:73:ASN:O	2.23	0.87
34:DN:66:TYR:CE1	43:DW:116:VAL:CA	2.39	0.87
1:EA:1055:A:C2	3:EC:156:ARG:NE	2.41	0.87
22:FB:1481:U:O4'	22:FB:1561:A:C2	2.27	0.87
22:FB:2474:G:H4'	34:FN:83:ARG:CD	2.03	0.87
22:FB:2745:A:N3	22:FB:2746:G:H1'	1.88	0.87
22:FB:475:U:OP1	50:F4:4:THR:CG2	2.23	0.87
22:FB:1666:G:H22	35:FO:106:ASP:HB2	1.39	0.87
22:FB:1001:A:H5'	46:FZ:27:LYS:HE3	1.53	0.87
1:GA:1320:C:H4'	19:GS:3:ARG:HH11	1.06	0.87
1:GA:8:A:H1'	5:GE:107:ARG:HH22	1.38	0.87
4:GD:50:ARG:NH1	5:GE:10:MET:SD	2.47	0.87
48:H2:33:CYS:HB2	48:H2:38:GLY:HA2	1.55	0.87
22:HB:2340:C:H5''	51:H5:26:LYS:HE2	1.56	0.87
22:HB:612:G:H4'	22:HB:613:A:H4'	1.55	0.87
24:HD:60:ARG:HG2	24:HD:61:LEU:HG	1.57	0.87
22:HB:2550:C:O2	25:HE:143:GLN:CG	2.22	0.87
41:HU:61:LYS:H	41:HU:72:ARG:HD3	1.40	0.87
41:HU:10:PRO:CD	45:HY:26:MET:SD	2.63	0.87
1:IA:1187:G:H4'	9:II:113:LYS:HG2	1.55	0.87
1:IA:673:G:H5''	6:IF:87:ARG:NH1	1.89	0.87
9:II:11:LYS:HE3	9:II:108:VAL:HG13	1.55	0.87
15:IO:89:GLY:OXT	22:JB:730:C:N3	2.08	0.87
1:IA:955:U:O2	19:IS:80:TYR:HE1	1.47	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:JB:805:G:H4'	22:JB:2055:G:H4'	1.56	0.87
22:JB:2372:A:O2'	33:JM:63:ARG:NH1	2.06	0.87
22:JB:2578:G:OP1	24:JD:228:PRO:HB3	1.75	0.87
22:JB:3122:U:OP1	53:J7:131:ARG:HD2	1.72	0.87
22:JB:543:G:H5''	38:JR:22:LYS:HG3	1.56	0.87
22:JB:796:A:OP2	24:JD:226:MET:CE	2.22	0.87
13:IM:6:GLY:HA2	27:JG:110:ARG:HH21	1.40	0.87
3:AC:23:TYR:CG	10:AJ:9:ARG:O	2.21	0.87
22:BB:2028:C:O2	48:B2:22:HIS:HD2	1.56	0.87
22:BB:2399:C:P	51:B5:33:ASN:H	1.97	0.87
22:BB:1043:A:O3'	52:B6:16:VAL:HA	1.75	0.87
22:BB:1148:G:H5''	31:BK:132:PHE:CD2	2.10	0.87
22:BB:227:G:C1'	33:BM:55:ARG:NH2	2.31	0.87
22:BB:7:G:O6	22:BB:2870:C:N3	2.08	0.87
22:BB:628:A:OP2	26:BF:97:ARG:NE	2.08	0.87
22:BB:680:U:OP2	33:BM:48:PHE:CA	2.23	0.87
22:BB:489:A:O2'	42:BV:5:SER:OG	1.72	0.87
22:BB:2365:U:H1'	44:BX:37:LEU:HD11	1.54	0.87
22:BB:2343:C:O2'	44:BX:66:LYS:CG	2.23	0.87
1:CA:9:G:H5''	5:CE:122:GLU:CD	1.95	0.87
13:CM:88:ARG:HH21	13:CM:99:ARG:CB	1.87	0.87
1:CA:668:G:O4'	15:CO:49:ASP:N	2.08	0.87
22:DB:2040:A:H2'	48:D2:3:LYS:HB3	1.55	0.87
22:DB:2229:G:C4	34:DN:84:MET:C	2.36	0.87
22:DB:2293:G:P	27:DG:88:LYS:HZ2	1.98	0.87
22:DB:917:U:C1'	43:DW:166:LEU:HD13	2.04	0.87
1:EA:407:G:N2	4:ED:157:LEU:HD11	1.88	0.87
2:EB:7:VAL:HG23	2:EB:8:LYS:HG3	1.55	0.87
1:EA:1298:C:H6	7:EG:114:ARG:HH12	1.17	0.87
7:EG:149:ARG:HD3	11:EK:59:TYR:CZ	2.10	0.87
22:FB:504:G:N2	40:FT:78:ASN:HD21	1.72	0.87
22:FB:1583:A:C1'	24:FD:84:TYR:CE1	2.42	0.87
1:GA:1309:G:H4'	13:GM:81:LEU:HD21	1.57	0.87
1:GA:718:G:C6	18:GR:81:PHE:CD2	2.62	0.87
22:HB:1855:G:N1	22:HB:3877:A:N6	2.23	0.87
22:HB:80:A:H1'	22:HB:305:A:N3	1.90	0.87
22:HB:718:A:N6	22:HB:739:G:H1'	1.89	0.87
34:HN:63:GLY:CA	43:HW:111:GLY:N	2.38	0.87
38:HR:94:VAL:CG1	39:HS:10:LYS:CE	2.50	0.87
22:HB:763:A:N6	40:HT:111:ARG:NE	2.21	0.87
22:HB:504:G:C3'	40:HT:25:PHE:HB3	2.05	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:IA:51:A:H1'	1:IA:353:A:H61	1.40	0.87
1:IA:588:G:C2'	8:IH:31:PHE:HB2	2.03	0.87
1:IA:1186:G:H2'	9:II:113:LYS:CE	2.02	0.87
1:IA:363:A:C6	12:IL:30:ALA:CB	2.58	0.87
1:IA:1358:U:O3'	14:IN:31:ARG:CA	2.23	0.87
1:IA:1321:C:P	19:IS:3:ARG:NH2	2.48	0.87
22:JB:1743:C:N4	37:JQ:125:MET:N	2.22	0.87
22:JB:2847:G:C2	35:JO:8:ARG:O	2.28	0.87
22:JB:1200:G:H2'	39:JS:83:ARG:CZ	2.03	0.87
1:AA:624:C:O2	16:AP:14:ASN:ND2	2.08	0.86
1:AA:1215:G:H5''	14:AN:3:ARG:NH2	1.89	0.86
1:AA:1221:G:C2'	19:AS:77:THR:HG21	2.03	0.86
22:BB:3866:A:O5'	53:B7:43:LYS:HG2	1.75	0.86
22:BB:1169:C:C5'	46:BZ:27:LYS:NZ	2.37	0.86
22:BB:2344:G:H5''	44:BX:42:GLY:N	1.90	0.86
22:BB:1805:G:C4'	24:BD:44:ASN:CA	2.47	0.86
22:BB:2372:A:C4'	33:BM:60:LEU:CA	2.30	0.86
22:BB:2793:G:OP1	35:BO:42:LYS:CE	2.23	0.86
22:BB:2815:C:OP1	35:BO:50:GLN:O	1.93	0.86
25:BE:176:ARG:NE	37:BQ:16:ILE:HG23	1.89	0.86
32:BL:89:ILE:CA	37:BQ:81:PHE:CB	2.38	0.86
1:CA:815:A:O2'	1:CA:1527:C:O4'	1.90	0.86
6:CF:48:LEU:CD2	18:CR:77:GLY:C	2.44	0.86
22:DB:1861:G:N1	53:D7:199:ASN:OD1	2.03	0.86
22:DB:1163:C:O3'	38:DR:80:ILE:CG1	2.22	0.86
22:DB:2659:C:O4'	25:DE:187:ALA:O	1.93	0.86
22:DB:2612:G:N3	25:DE:62:PRO:HG3	1.90	0.86
22:DB:2615:U:C2'	25:DE:79:ARG:HD2	2.04	0.86
32:DL:21:CYS:HA	32:DL:54:SER:H	1.40	0.86
34:DN:35:LEU:HG	34:DN:128:ILE:HA	1.57	0.86
1:EA:1273:G:C4	1:IA:1264:C:C4'	2.57	0.86
1:EA:258:G:O3'	20:ET:83:ARG:NH1	2.07	0.86
49:F3:24:THR:O	51:F5:35:GLY:N	2.08	0.86
22:FB:1256:C:N3	33:FM:14:LYS:NZ	2.22	0.86
22:FB:1583:A:C8	24:FD:85:ASP:HA	2.10	0.86
22:FB:2254:C:H4'	34:FN:86:LYS:HG2	1.56	0.86
22:FB:2399:C:OP1	51:F5:34:THR:N	2.08	0.86
22:FB:2438:A:N6	22:FB:2472:U:O4	2.08	0.86
31:FK:77:GLY:HA3	31:FK:147:ARG:HH22	1.40	0.86
22:FB:2810:A:N7	37:FQ:6:LYS:HG2	1.89	0.86
22:FB:29:U:O4'	38:FR:8:ILE:CG1	2.23	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:FB:503:G:O2'	40:FT:27:VAL:O	1.93	0.86
43:FW:87:THR:HA	43:FW:90:GLU:N	1.89	0.86
1:GA:555:C:C5	12:GL:20:LYS:NZ	2.43	0.86
1:GA:580:U:O3'	15:GO:57:LEU:HD21	1.75	0.86
1:GA:186:C:O4'	20:GT:78:ALA:HA	1.75	0.86
22:HB:1337:G:OP1	40:HT:105:ARG:C	2.12	0.86
1:GA:1483:A:N1	22:HB:1942:G:H2'	1.90	0.86
22:HB:1998:A:H2'	48:H2:6:VAL:HG11	1.53	0.86
22:HB:2652:G:N2	32:HL:41:ASN:OD1	2.08	0.86
22:HB:805:G:H4'	22:HB:2055:G:H4'	1.57	0.86
22:HB:2764:U:H4'	25:HE:36:ARG:NH2	1.90	0.86
22:HB:2760:G:H1'	31:HK:149:LYS:HB2	1.55	0.86
32:HL:21:CYS:HA	32:HL:54:SER:H	1.40	0.86
1:IA:1104:G:H1'	2:IB:111:ARG:HD2	1.55	0.86
1:IA:1226:C:H1'	19:IS:80:TYR:CE2	2.11	0.86
1:IA:1374:A:O2'	7:IG:29:LYS:HG2	1.75	0.86
1:IA:586:C:OP1	8:IH:90:GLY:O	1.93	0.86
3:IC:23:TYR:HB3	10:IJ:92:THR:HG22	0.87	0.86
6:IF:99:ALA:CB	18:IR:29:PHE:HE1	1.88	0.86
22:JB:1197:U:C2'	22:JB:1198:C:O4'	2.19	0.86
22:JB:1810:U:H3'	24:JD:154:GLN:HE22	1.40	0.86
22:JB:2635:U:H3'	28:JH:181:GLY:HA3	1.55	0.86
31:JK:75:ILE:HG22	31:JK:140:GLN:HA	1.55	0.86
41:JU:61:LYS:H	41:JU:72:ARG:HD3	1.40	0.86
1:AA:412:A:N3	4:AD:30:LYS:O	2.08	0.86
1:AA:529:G:C2	12:AL:49:ASN:N	2.34	0.86
1:AA:1257:U:P	3:AC:27:LYS:HZ1	1.97	0.86
22:BB:15:G:OP1	48:B2:20:ARG:NH2	2.06	0.86
22:BB:1003:C:O2	22:BB:1173:G:N2	2.09	0.86
22:BB:2558:C:H4'	25:BE:132:LYS:HD3	1.57	0.86
22:BB:2714:A:H8	25:BE:205:SER:O	1.58	0.86
22:BB:2494:C:O3'	31:BK:109:GLY:N	2.05	0.86
34:BN:35:LEU:HG	34:BN:128:ILE:HA	1.57	0.86
22:BB:2344:G:P	44:BX:41:ARG:HA	2.14	0.86
1:CA:331:G:OP2	20:CT:10:LEU:HD21	1.75	0.86
1:CA:436:C:HO2'	4:CD:157:LEU:HB3	1.34	0.86
6:CF:48:LEU:HD22	18:CR:78:LEU:N	1.88	0.86
11:CK:23:ALA:HA	11:CK:28:THR:HG23	1.57	0.86
17:CQ:59:ILE:HD12	17:CQ:73:VAL:HG22	1.55	0.86
22:DB:699:G:C6	50:D4:5:TYR:CB	2.52	0.86
22:DB:2733:A:C2	52:D6:15:LYS:CE	2.58	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:DB:1481:U:C4'	22:DB:1561:A:C6	2.58	0.86
22:DB:2611:A:N3	25:DE:61:LYS:CD	2.38	0.86
22:DB:491:A:OP1	42:DV:3:ARG:NH2	1.95	0.86
22:DB:537:C:N4	22:DB:2759:U:H2'	1.90	0.86
25:DE:5:LEU:HD13	25:DE:28:ALA:H	1.36	0.86
34:DN:78:LYS:HD3	34:DN:87:GLY:HA2	1.57	0.86
22:DB:2793:G:P	35:DO:42:LYS:HE3	2.15	0.86
1:EA:258:G:OP2	20:ET:83:ARG:HG2	1.75	0.86
1:EA:125:U:O3'	1:EA:605:U:H1'	1.74	0.86
1:EA:668:G:O2'	15:EO:46:HIS:CG	2.28	0.86
1:EA:927:G:H1'	1:EA:1532:U:O4'	1.75	0.86
1:EA:827:U:H5'	8:EH:19:VAL:HG21	1.56	0.86
22:FB:1829:C:H5'	22:FB:1911:A:H4'	0.88	0.86
22:FB:2034:A:C4'	25:FE:141:ILE:HD11	2.04	0.86
22:FB:63:A:O5'	41:FU:62:ARG:CD	2.22	0.86
22:FB:677:G:OP1	33:FM:27:ASP:OD1	1.93	0.86
22:FB:2294:U:H5'	27:FG:33:LYS:NZ	1.89	0.86
38:FR:44:THR:CA	39:FS:76:SER:N	2.24	0.86
38:FR:94:VAL:CG2	39:FS:10:LYS:O	2.17	0.86
1:GA:1006:C:H42	1:GA:1023:G:H1	1.18	0.86
1:GA:815:A:N3	1:GA:1527:C:C1'	2.36	0.86
22:HB:1861:G:C2'	53:H7:199:ASN:CB	2.50	0.86
22:HB:2365:U:O2	44:HX:37:LEU:HD21	1.74	0.86
22:HB:2457:A:C8	22:HB:2508:G:N7	2.43	0.86
22:HB:2591:C:C2'	48:H2:4:HIS:N	2.37	0.86
22:HB:2741:G:H1'	28:HH:143:GLN:HE22	1.09	0.86
22:HB:1805:G:C2	24:HD:52:ARG:HD3	2.10	0.86
26:HF:132:ASN:HA	26:HF:135:SER:HB3	1.55	0.86
1:IA:815:A:H2'	1:IA:1526:G:C2	1.96	0.86
48:J2:33:CYS:HB2	48:J2:38:GLY:HA2	1.55	0.86
22:JB:2264:C:C6	49:J3:28:ARG:HB2	2.11	0.86
22:JB:1039:A:C2	22:JB:2466:G:H1'	2.09	0.86
22:JB:1301:U:C6	22:JB:1341:G:N2	2.43	0.86
22:JB:2506:C:OP1	52:J6:33:LYS:CB	2.22	0.86
22:JB:3178:C:C1'	53:J7:161:ASP:CA	2.53	0.86
26:JF:28:HIS:HB2	33:JM:18:ARG:NE	1.87	0.86
43:JW:48:THR:C	43:JW:95:SER:CB	2.34	0.86
1:AA:125:U:H1'	1:AA:633:G:H22	1.40	0.86
11:AK:23:ALA:HA	11:AK:28:THR:HG23	1.57	0.86
1:AA:529:G:H1	12:AL:48:PRO:HD2	1.35	0.86
22:BB:3176:A:O2'	53:B7:35:THR:HG22	1.73	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:BB:625:A:C6	26:BF:176:ASN:CG	2.48	0.86
22:BB:910:U:H3'	22:BB:911:A:N7	1.90	0.86
24:BD:60:ARG:HG2	24:BD:61:LEU:HG	1.57	0.86
22:BB:967:G:H5'	34:BN:78:LYS:HE3	1.58	0.86
22:BB:2236:U:OP1	44:BX:4:LYS:HD3	1.75	0.86
1:CA:1074:G:H4'	2:CB:104:ASN:HA	1.56	0.86
1:CA:953:G:H1	13:CM:120:LYS:HG2	1.07	0.86
1:CA:958:A:C6	19:CS:56:GLN:HG3	2.09	0.86
22:DB:176:A:C2	47:D1:32:HIS:CE1	2.63	0.86
22:DB:2003:A:H62	48:D2:9:LYS:HE2	1.07	0.86
22:DB:1007:A:H4'	38:DR:92:ARG:C	1.95	0.86
22:DB:1176:U:O2	22:DB:1198:C:C1'	2.23	0.86
22:DB:1398:G:C2	22:DB:1416:A:C5	2.63	0.86
22:DB:176:A:C8	47:D1:30:GLU:CA	2.57	0.86
22:DB:2249:U:H5'	44:DX:18:PRO:CG	2.03	0.86
22:DB:706:A:OP2	24:DD:58:HIS:HE1	1.52	0.86
22:DB:891:A:C4	22:DB:909:C:N3	2.43	0.86
22:DB:677:G:O4'	22:DB:951:G:H5'	1.75	0.86
22:DB:2661:G:N7	25:DE:11:MET:CA	2.21	0.86
31:DK:77:GLY:HA3	31:DK:147:ARG:HH22	1.40	0.86
22:DB:915:C:C4'	43:DW:163:ASP:OD1	2.19	0.86
1:EA:238:G:H5''	17:EQ:38:ARG:CZ	2.03	0.86
1:EA:922:G:H1'	5:EE:19:MET:SD	2.16	0.86
6:EF:98:LEU:HD22	6:EF:101:ALA:HB3	1.56	0.86
1:EA:1115:C:C1'	14:EN:61:TRP:CD1	2.58	0.86
22:FB:3178:C:O4'	53:F7:163:PRO:CG	2.23	0.86
22:FB:1154:A:H61	31:FK:52:GLY:CA	1.86	0.86
22:FB:2238:G:H2'	44:FX:14:ARG:NH1	1.90	0.86
22:FB:2241:U:C1'	22:FB:2307:A:H1'	2.06	0.86
22:FB:2282:G:N3	27:FG:129:ASN:CB	2.37	0.86
38:FR:47:TYR:N	39:FS:75:LYS:H	1.72	0.86
41:FU:61:LYS:H	41:FU:72:ARG:HD3	1.40	0.86
22:FB:869:C:H5''	44:FX:57:HIS:HB3	1.57	0.86
1:GA:1224:G:H1'	13:GM:102:ARG:NH1	1.90	0.86
1:GA:520:A:OP1	12:GL:52:LEU:CG	2.22	0.86
9:GI:111:ARG:HD2	14:GN:61:TRP:CZ2	2.11	0.86
9:GI:11:LYS:HE3	9:GI:108:VAL:HG13	1.55	0.86
1:GA:663:A:P	18:GR:65:ILE:HD11	2.15	0.86
23:HA:106:U:OP2	43:HW:91:PRO:HB2	1.75	0.86
22:HB:1485:U:C4	22:HB:1537:U:O4	2.27	0.86
22:HB:1788:C:C5'	24:HD:254:THR:HG23	2.05	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:HB:2378:G:H1'	49:H3:20:PHE:CE1	2.10	0.86
22:HB:2741:G:H1'	28:HH:143:GLN:HE21	1.37	0.86
1:IA:1187:G:O2'	9:II:114:TYR:HD2	1.49	0.86
1:IA:1195:C:H4'	1:IA:1398:A:H62	1.39	0.86
1:IA:363:A:C2	12:IL:30:ALA:CA	2.46	0.86
3:IC:18:TRP:HE1	14:IN:53:LEU:N	1.71	0.86
22:JB:2669:C:C3'	35:JO:17:ARG:HH22	1.76	0.86
22:JB:320:A:O2'	42:JV:25:LEU:HA	1.75	0.86
31:JK:77:GLY:HA3	31:JK:147:ARG:HH22	1.40	0.86
22:JB:1202:U:C5'	39:JS:81:ARG:CB	2.51	0.86
41:JU:53:ILE:HD12	41:JU:80:VAL:HG22	1.58	0.86
1:AA:254:G:C4	17:AQ:16:GLN:C	2.48	0.86
10:AJ:49:VAL:HG11	14:AN:45:ARG:HA	1.55	0.86
1:AA:1220:G:N3	19:AS:54:GLY:HA3	1.88	0.86
22:BB:51:A:N6	22:BB:116:A:C2	2.43	0.86
22:BB:529:U:H5'	40:BT:39:ARG:HH21	1.31	0.86
22:BB:891:A:N3	22:BB:909:C:N3	2.24	0.86
22:BB:2394:G:H4'	33:BM:64:GLY:HA2	1.56	0.86
25:BE:76:ARG:CD	37:BQ:2:GLN:NE2	2.36	0.86
22:BB:2334:C:C5'	44:BX:21:LEU:HD11	2.03	0.86
48:D2:33:CYS:HB2	48:D2:38:GLY:HA2	1.55	0.86
22:DB:2398:U:H6	51:D5:31:HIS:O	1.57	0.86
22:DB:456:C:H4'	38:DR:2:PRO:CG	2.05	0.86
22:DB:503:G:C1'	40:DT:28:ALA:CA	2.53	0.86
22:DB:887:G:H8	43:DW:167:THR:CG2	1.83	0.86
22:FB:3170:A:H4'	53:F7:130:PRO:HG3	1.54	0.86
22:FB:1992:G:O4'	35:FO:105:GLY:O	1.94	0.86
22:FB:2049:C:H1'	22:FB:2428:U:H3	1.39	0.86
22:FB:2056:C:H4'	24:FD:228:PRO:C	1.95	0.86
22:FB:58:C:C5'	22:FB:72:A:N6	2.38	0.86
22:FB:64:C:H42	41:FU:65:VAL:HG23	1.28	0.86
22:FB:2035:G:C6	25:FE:150:VAL:HG22	2.10	0.86
31:FK:126:VAL:HG22	31:FK:127:ILE:H	1.40	0.86
38:FR:44:THR:C	39:FS:76:SER:CB	2.43	0.86
1:GA:193:C:O4'	20:GT:60:GLU:OE1	1.93	0.86
1:GA:254:G:H1'	17:GQ:16:GLN:C	1.94	0.86
1:GA:922:G:O3'	5:GE:20:GLN:NE2	2.07	0.86
1:GA:276:G:C3'	17:GQ:43:LEU:HD11	2.05	0.86
22:HB:2398:U:C4	51:H5:31:HIS:ND1	2.40	0.86
22:HB:1040:A:H1'	22:HB:2465:G:C5'	2.05	0.86
22:HB:1750:A:C2	22:HB:2675:U:O2	2.28	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:HB:2235:G:H5''	44:HX:5:LYS:H	1.40	0.86
1:IA:1006:C:H42	1:IA:1023:G:H1	1.18	0.86
1:IA:1206:G:C4'	3:IC:193:TYR:CA	2.47	0.86
1:IA:673:G:C4'	6:IF:87:ARG:NH2	2.38	0.86
33:JM:72:TYR:CE2	51:J5:64:ARG:HD3	2.10	0.86
22:JB:2550:C:O2'	25:JE:143:GLN:CB	2.15	0.86
22:JB:237:G:O4'	22:JB:618:A:C2	2.28	0.86
22:JB:795:A:N1	24:JD:53:PHE:HE1	1.74	0.86
31:JK:126:VAL:HG22	31:JK:127:ILE:H	1.41	0.86
38:JR:3:ARG:HE	38:JR:4:ALA:H	1.23	0.86
42:JV:40:LEU:HB2	42:JV:44:GLN:HA	1.55	0.86
1:AA:1077:G:H22	5:AE:45:PHE:HZ	0.90	0.86
1:AA:1320:C:O2'	19:AS:73:GLU:HA	1.75	0.86
1:AA:1392:G:H5'	1:AA:1531:A:O5'	1.76	0.86
1:AA:815:A:H2	1:AA:1528:U:C1'	1.88	0.86
1:AA:1128:C:C5'	9:AI:16:ARG:NH1	2.37	0.86
6:AF:46:ARG:HH22	18:AR:35:ARG:NH1	1.73	0.86
22:BB:1377:G:H3'	47:B1:3:LYS:HZ3	1.40	0.86
22:BB:1398:G:C5'	22:BB:1416:A:N3	2.39	0.86
22:BB:1796:A:H1'	24:BD:51:SER:CA	2.03	0.86
22:BB:18:U:P	38:BR:26:GLY:O	2.32	0.86
22:BB:2039:G:N3	48:B2:5:PRO:CD	2.38	0.86
22:BB:1141:U:C3'	31:BK:107:GLN:CD	2.42	0.86
31:BK:126:VAL:HG22	31:BK:127:ILE:H	1.40	0.86
1:CA:254:G:H1'	17:CQ:49:GLU:OE2	1.75	0.86
1:CA:280:C:C4	17:CQ:88:TYR:CZ	2.62	0.86
1:CA:675:A:C8	18:CR:81:PHE:CE2	2.62	0.86
20:CT:57:ARG:HA	20:CT:60:GLU:HB3	1.55	0.86
22:DB:643:A:O2'	33:DM:66:ASN:HB3	1.74	0.86
22:DB:699:G:N1	50:D4:5:TYR:CB	2.39	0.86
34:DN:131:LYS:HE3	43:DW:69:VAL:HG11	1.57	0.86
3:EC:18:TRP:CE2	14:EN:53:LEU:O	2.27	0.86
1:EA:1180:A:H5''	9:EI:103:THR:CG2	2.04	0.86
22:FB:1636:G:C1'	50:F4:1:MET:H2	1.80	0.86
22:FB:1613:G:O3'	22:FB:1614:C:O5'	1.94	0.86
22:FB:2074:U:O4	47:F1:42:PHE:CZ	2.28	0.86
22:FB:1509:A:O2'	22:FB:2189:A:OP1	1.92	0.86
22:FB:64:C:N3	41:FU:65:VAL:HB	1.89	0.86
22:FB:2786:G:H4'	25:FE:59:VAL:CG2	2.04	0.86
22:FB:610:G:H4'	26:FF:98:GLN:HE22	1.41	0.86
22:FB:64:C:N3	41:FU:69:ILE:O	1.80	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:GA:1192:C:P	3:GC:4:LYS:NZ	2.48	0.86
1:GA:281:G:OP1	17:GQ:38:ARG:CD	2.23	0.86
1:GA:927:G:H21	1:GA:1532:U:C2'	1.88	0.86
1:GA:1330:U:OP1	13:GM:23:TYR:O	1.92	0.86
1:GA:262:A:H5'	20:GT:74:LYS:CD	2.05	0.86
22:HB:1835:C:C5'	24:HD:255:LYS:HZ2	1.87	0.86
1:IA:1074:G:OP1	5:IE:60:TYR:HE2	1.59	0.86
1:IA:878:G:C5'	8:IH:89:PRO:O	2.23	0.86
22:JB:113:C:H4'	22:JB:125:A:H4'	1.55	0.86
22:JB:3172:U:OP1	53:J7:131:ARG:NE	2.08	0.86
22:JB:337:G:O2'	42:JV:9:HIS:HD2	1.53	0.86
22:JB:593:C:O2	26:JF:76:THR:C	2.13	0.86
22:JB:1071:U:O4	30:JJ:130:THR:HA	1.75	0.86
26:JF:111:ARG:HH22	33:JM:13:ARG:NH2	1.72	0.86
22:JB:634:G:C5	33:JM:98:LEU:HD11	2.10	0.86
23:JA:8:C:O2'	36:JP:32:TYR:CE1	2.29	0.86
23:JA:14:C:O4'	44:JX:53:MET:HB3	1.74	0.86
1:AA:430:A:OP1	4:AD:7:PRO:C	2.14	0.86
8:AH:104:ARG:HB3	8:AH:107:LEU:HB2	1.58	0.86
1:AA:1320:C:H42	19:AS:36:ARG:HG3	1.37	0.86
22:BB:1479:G:HO2'	22:BB:1543:G:HO2'	1.20	0.86
22:BB:1817:U:H5''	24:BD:224:SER:CA	2.05	0.86
22:BB:2049:C:H1'	22:BB:2428:U:H3	1.39	0.86
24:BD:112:THR:HG22	24:BD:113:VAL:HG23	1.58	0.86
1:AA:711:G:C3'	24:BD:184:ARG:HH12	1.89	0.86
22:BB:2724:G:O2'	28:BH:143:GLN:HG3	1.75	0.86
34:BN:99:LYS:HD2	43:BW:74:ARG:HG3	1.56	0.86
34:BN:63:GLY:HA3	43:BW:112:LEU:CD2	1.94	0.86
1:CA:1108:G:OP1	3:CC:176:HIS:N	2.08	0.86
23:DA:106:U:O4'	43:DW:88:TYR:CE1	2.17	0.86
22:DB:1401:G:O6	22:DB:1413:U:C4	2.28	0.86
22:DB:2049:C:H1'	22:DB:2428:U:H3	1.40	0.86
22:DB:2745:A:N3	22:DB:2746:G:H1'	1.91	0.86
22:DB:777:A:H1'	24:DD:209:ALA:O	1.74	0.86
24:DD:60:ARG:HG2	24:DD:61:LEU:HG	1.57	0.86
22:DB:613:A:N6	33:DM:97:ARG:HB2	1.90	0.86
1:EA:1100:C:N1	2:EB:98:LEU:CD2	2.37	0.86
1:EA:325:A:N6	16:EP:25:ARG:NH1	2.24	0.86
1:EA:407:G:N2	4:ED:157:LEU:HD12	1.89	0.86
1:EA:707:C:C5'	11:EK:85:ARG:HH22	1.87	0.86
4:ED:204:ILE:CD1	5:EE:98:THR:O	2.22	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:EA:9:G:OP2	5:EE:121:LYS:NZ	2.08	0.86
10:EJ:63:PHE:HA	14:EN:59:ALA:CA	2.04	0.86
20:ET:57:ARG:HA	20:ET:60:GLU:HB3	1.55	0.86
22:FB:659:G:N2	51:F5:46:LYS:NZ	2.22	0.86
22:FB:1322:G:H5'	50:F4:8:ASN:N	1.89	0.86
22:FB:2556:A:N1	48:F2:5:PRO:HG2	1.90	0.86
22:FB:2652:G:C4'	32:FL:46:HIS:HE1	1.75	0.86
22:FB:592:G:N2	26:FF:78:VAL:HB	1.90	0.86
41:FU:53:ILE:HD12	41:FU:80:VAL:HG22	1.57	0.86
1:GA:17:U:HO2'	1:GA:1079:G:H1'	1.35	0.86
1:GA:21:G:H21	1:GA:914:A:N6	1.74	0.86
1:GA:255:G:H5'	17:GQ:45:HIS:CE1	2.08	0.86
6:GF:98:LEU:HD22	6:GF:101:ALA:HB3	1.56	0.86
8:GH:104:ARG:HB3	8:GH:107:LEU:HB2	1.58	0.86
5:GE:78:HIS:CB	8:GH:138:TRP:CZ3	2.59	0.86
22:HB:2184:C:OP1	47:H1:43:TRP:CZ3	2.29	0.86
22:HB:1039:A:H2	22:HB:2466:G:C1'	1.89	0.86
22:HB:1225:G:N2	40:HT:12:LYS:HZ1	1.70	0.86
22:HB:3188:U:OP1	29:HI:20:VAL:CG1	2.22	0.86
30:HJ:21:PRO:HB2	30:HJ:22:PRO:HD3	1.56	0.86
1:IA:1349:A:H5'	9:II:121:ARG:NH1	1.91	0.86
2:IB:7:VAL:HG23	2:IB:8:LYS:HG3	1.55	0.86
1:IA:673:G:C5'	6:IF:87:ARG:NE	2.39	0.86
8:IH:104:ARG:HB3	8:IH:107:LEU:HB2	1.58	0.86
22:JB:2182:A:HO2'	47:J1:43:TRP:HB2	1.37	0.86
22:JB:409:G:OP1	47:J1:10:VAL:CG2	2.18	0.86
22:JB:60:A:H4'	45:JY:29:ARG:NH2	1.89	0.86
34:JN:60:ARG:CG	43:JW:111:GLY:N	2.37	0.86
1:AA:1131:G:H5''	9:AI:2:GLU:CG	2.00	0.86
1:AA:409:G:P	4:AD:22:LYS:HZ3	1.98	0.86
5:AE:151:LEU:CB	8:AH:79:VAL:HG13	2.00	0.86
1:AA:1251:A:C5'	9:AI:12:GLU:CD	2.43	0.86
1:AA:980:C:C4'	14:AN:19:ARG:CZ	2.52	0.86
22:BB:2195:C:H2'	22:BB:2196:U:H4'	1.56	0.86
22:BB:2789:U:O4	48:B2:43:HIS:NE2	2.06	0.86
30:BJ:111:LYS:HD2	30:BJ:127:VAL:HB	1.58	0.86
22:BB:1236:G:P	39:BS:87:ARG:CZ	2.64	0.86
1:CA:1348:U:P	9:CI:110:GLU:H	1.98	0.86
1:CA:509:A:O5'	4:CD:54:TYR:HD2	1.58	0.86
1:CA:720:C:H5'	18:CR:52:PRO:CG	2.05	0.86
1:CA:1375:A:P	7:CG:28:ASN:ND2	2.48	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:275:G:HO2'	17:CQ:18:THR:HG21	1.40	0.86
1:CA:1320:C:O2'	19:CS:73:GLU:HA	1.75	0.86
22:DB:1437:A:H2'	22:DB:1438:G:H8	1.36	0.86
22:DB:158:A:H5'	50:D4:36:ALA:O	1.74	0.86
22:DB:2736:U:N3	28:DH:67:LEU:CD2	2.38	0.86
22:DB:3093:C:C5'	29:DI:20:VAL:O	2.23	0.86
22:DB:648:A:H61	33:DM:77:LEU:C	1.78	0.86
25:DE:26:VAL:CG2	37:DQ:3:THR:CB	2.34	0.86
32:DL:86:GLY:CA	37:DQ:84:ALA:CB	2.36	0.86
22:DB:318:G:C5'	40:DT:12:LYS:HE2	2.03	0.86
43:DW:84:TYR:HD2	43:DW:128:ARG:NE	1.50	0.86
1:EA:588:G:C3'	8:EH:5:PRO:HB2	1.73	0.86
22:FB:3178:C:C5'	53:F7:36:PHE:O	2.20	0.86
22:FB:10:A:N6	22:FB:2608:A:O4'	2.08	0.86
22:FB:1516:A:C4	24:FD:98:ALA:HB1	2.10	0.86
22:FB:1741:G:H1'	22:FB:2835:A:H2	1.38	0.86
22:FB:2254:C:O2'	34:FN:86:LYS:N	1.95	0.86
28:FH:9:ILE:HG13	28:FH:10:ALA:H	1.40	0.86
30:FJ:111:LYS:HD2	30:FJ:127:VAL:HB	1.58	0.86
22:FB:934:G:N2	44:FX:25:LYS:HG3	1.89	0.86
1:GA:1186:G:H21	14:GN:61:TRP:CB	1.84	0.86
1:GA:1308:U:H5'	13:GM:110:ARG:HH21	1.38	0.86
1:GA:323:U:O2'	20:GT:19:SER:OG	1.93	0.86
1:GA:716:A:O2'	11:GK:117:ASN:OD1	1.94	0.86
22:HB:2603:G:O4'	48:H2:22:HIS:HA	1.76	0.86
22:HB:1746:A:OP1	37:HQ:124:VAL:HG21	1.75	0.86
22:HB:2310:G:O2'	44:HX:70:ILE:HG21	1.73	0.86
22:HB:1140:A:C2	22:HB:2549:G:H4'	2.11	0.86
22:HB:673:G:H5'	26:HF:93:TYR:CD1	2.08	0.86
32:HL:87:SER:CB	37:HQ:83:PHE:CA	1.90	0.86
22:HB:2373:C:P	33:HM:62:LYS:HE3	2.15	0.86
22:HB:2235:G:OP1	44:HX:5:LYS:CB	2.23	0.86
1:IA:925:G:H4'	1:IA:1502:A:C4	2.11	0.86
1:IA:332:G:H1'	20:IT:16:HIS:HE2	1.40	0.86
1:IA:452:A:OP2	16:IP:43:LYS:HD2	1.74	0.86
3:IC:14:ILE:HD11	14:IN:57:ARG:NH1	1.89	0.86
22:JB:2861:A:H2	48:J2:31:THR:OG1	1.55	0.86
23:JA:54:U:OP1	36:JP:62:GLY:HA3	1.76	0.86
22:JB:541:C:H4'	38:JR:25:TRP:CD1	2.11	0.86
1:EA:1021:G:HO2'	27:JG:179:LYS:HD2	1.06	0.86
34:JN:35:LEU:HG	34:JN:128:ILE:HA	1.57	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:JT:44:VAL:HG22	48:J2:20:ARG:NH2	1.73	0.86
40:JT:50:VAL:H	40:JT:53:ALA:HB3	1.40	0.86
7:AG:149:ARG:HD3	11:AK:59:TYR:CZ	2.10	0.86
10:AJ:65:LEU:CD1	14:AN:56:VAL:HG23	1.69	0.86
48:B2:33:CYS:HB2	48:B2:38:GLY:HA2	1.55	0.86
53:B7:34:LEU:HG	53:B7:204:TYR:H	1.41	0.86
22:BB:1069:G:O2'	30:BJ:116:ASN:ND2	2.09	0.86
22:BB:1510:A:H2	22:BB:1595:A:C1'	1.86	0.86
22:BB:2504:G:H1'	22:BB:2721:A:N3	1.91	0.86
22:BB:2767:C:H4'	25:BE:60:ASN:HD22	1.02	0.86
22:BB:504:G:H4'	40:BT:25:PHE:HD2	1.37	0.86
22:BB:2601:C:P	25:BE:159:HIS:CB	2.64	0.86
30:BJ:21:PRO:HB2	30:BJ:22:PRO:HD3	1.56	0.86
32:BL:21:CYS:HA	32:BL:54:SER:H	1.40	0.86
22:BB:1163:C:H4'	38:BR:80:ILE:HB	1.58	0.86
22:BB:23:G:H1'	40:BT:96:TYR:CE2	2.11	0.86
34:BN:63:GLY:N	43:BW:112:LEU:HD23	1.90	0.86
22:BB:2236:U:OP1	44:BX:10:SER:HB3	1.76	0.86
1:CA:1227:A:O2'	13:CM:117:VAL:CG1	2.24	0.86
22:DB:699:G:C4	50:D4:5:TYR:C	2.49	0.86
22:DB:1394:G:N2	22:DB:1588:A:C2	2.43	0.86
22:DB:1809:G:C5'	24:DD:157:ARG:NH1	2.31	0.86
22:DB:2195:C:H2'	22:DB:2196:U:H4'	1.56	0.86
22:DB:2719:U:O2	22:DB:2746:G:C6	2.29	0.86
22:DB:869:C:OP1	44:DX:57:HIS:HB3	1.75	0.86
22:DB:2462:C:HO2'	34:DN:50:ALA:CB	1.74	0.86
32:DL:91:PHE:CA	37:DQ:79:ARG:CD	2.53	0.86
10:EJ:47:PHE:HB2	10:EJ:63:PHE:HB2	1.58	0.86
1:EA:261:U:P	20:ET:72:LEU:HD13	2.16	0.86
22:FB:3177:C:C4'	53:F7:163:PRO:HG2	2.03	0.86
22:FB:2195:C:H2'	22:FB:2196:U:H4'	1.56	0.86
22:FB:2715:C:C2	22:FB:2749:A:H2	1.90	0.86
22:FB:29:U:C1'	38:FR:8:ILE:HG12	2.06	0.86
22:FB:3197:U:O2'	22:FB:2181:A:H8	1.57	0.86
22:FB:469:G:C3'	50:F4:40:HIS:HD2	1.88	0.86
22:FB:1673:C:C4'	25:FE:136:ARG:HG2	2.06	0.86
22:FB:2752:C:H4'	25:FE:166:THR:HB	0.86	0.86
22:FB:2767:C:O4'	25:FE:64:GLN:OE1	1.94	0.86
22:FB:2042:A:O3'	26:FF:62:LYS:CA	2.24	0.86
22:FB:2313:G:HO2'	36:FP:15:ARG:HH11	1.17	0.86
22:FB:468:A:P	41:FU:67:ARG:HB3	2.15	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:GA:51:A:H1'	1:GA:353:A:H61	1.40	0.86
1:GA:1060:C:OP1	10:GJ:51:ARG:CB	2.22	0.86
1:GA:1186:G:H22	14:GN:61:TRP:HB2	1.36	0.86
22:HB:1377:G:N1	47:H1:1:MET:SD	2.47	0.86
22:HB:1263:G:H4'	38:HR:6:THR:CG2	2.05	0.86
22:HB:2075:U:O3'	22:HB:3093:C:OP2	1.91	0.86
22:HB:741:G:O2'	24:HD:17:THR:O	1.93	0.86
30:HJ:111:LYS:HD2	30:HJ:127:VAL:HB	1.58	0.86
32:HL:85:ASP:OD2	37:HQ:87:LEU:CD2	2.24	0.86
22:HB:497:C:H2'	40:HT:77:ALA:CB	2.04	0.86
22:HB:2335:U:H5''	44:HX:19:LYS:HD2	1.56	0.86
22:HB:108:G:N2	45:HY:59:GLU:CD	2.29	0.86
1:IA:927:G:C4	1:IA:1531:A:C2'	2.58	0.86
1:IA:33:A:N3	12:IL:32:PHE:CZ	2.43	0.86
33:JM:62:LYS:HD2	51:J5:30:ARG:CG	2.04	0.86
22:JB:1394:G:N2	22:JB:1588:A:C6	2.43	0.86
1:IA:1517:G:C8	22:JB:1903:C:O5'	2.28	0.86
28:JH:9:ILE:HG13	28:JH:10:ALA:H	1.40	0.86
22:JB:861:G:N2	46:JZ:21:GLN:HE21	1.73	0.86
1:AA:975:A:C8	14:AN:34:TYR:HE1	1.93	0.86
12:AL:11:VAL:HG21	17:AQ:29:HIS:CB	2.05	0.86
22:BB:1437:A:C2'	22:BB:1438:G:H8	1.68	0.86
22:BB:2724:G:O2'	28:BH:143:GLN:CG	2.24	0.86
41:BU:53:ILE:HD12	41:BU:80:VAL:HG22	1.58	0.86
22:BB:2310:G:O2'	44:BX:70:ILE:HG22	1.76	0.86
1:CA:815:A:C8	1:CA:1529:G:C5	2.63	0.86
1:CA:545:C:OP1	4:CD:72:GLU:HB2	1.75	0.86
1:CA:624:C:C1'	16:CP:11:SER:OG	2.20	0.86
1:CA:815:A:H2	1:CA:1528:U:C4'	1.89	0.86
1:CA:958:A:C6	19:CS:56:GLN:CG	2.59	0.86
4:CD:204:ILE:HG21	5:CE:101:ILE:HD11	1.57	0.86
1:CA:642:A:N1	8:CH:132:GLU:HB2	1.90	0.86
22:DB:1139:A:H62	22:DB:2469:G:P	1.99	0.86
22:DB:887:G:O4'	43:DW:167:THR:HA	1.76	0.86
22:DB:2614:A:H5'	25:DE:77:ILE:N	1.88	0.86
22:DB:596:C:C6	33:DM:30:ALA:CB	2.53	0.86
22:DB:642:A:C1'	33:DM:64:GLY:HA3	2.04	0.86
1:EA:583:A:O2'	17:EQ:91:ARG:HG3	1.74	0.86
1:EA:922:G:C1'	5:EE:19:MET:SD	2.63	0.86
10:EJ:63:PHE:CD2	14:EN:57:ARG:O	2.29	0.86
19:ES:12:ASP:H	19:ES:38:SER:HB3	1.38	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:FB:1216:G:C2	33:FM:14:LYS:NZ	2.44	0.86
22:FB:2040:A:H1'	48:F2:3:LYS:CA	2.06	0.86
22:FB:2716:G:N1	22:FB:2749:A:H1'	1.90	0.86
22:FB:312:G:H4'	42:FV:89:GLY:HA2	1.48	0.86
34:FN:78:LYS:HD3	34:FN:87:GLY:HA2	1.57	0.86
23:FA:62:C:OP1	36:FP:6:THR:HG22	1.74	0.86
43:FW:65:LEU:HD23	43:FW:93:GLU:O	1.75	0.86
22:FB:2364:C:O2	44:FX:37:LEU:CD2	2.24	0.86
1:GA:1105:A:OP1	3:GC:172:ARG:NH2	2.09	0.86
1:GA:128:G:H1'	17:GQ:4:LYS:H	1.40	0.86
1:GA:1370:G:OP2	9:GI:109:VAL:O	1.93	0.86
1:GA:1224:G:C2'	13:GM:102:ARG:HB3	2.04	0.86
13:GM:86:CYS:N	19:GS:74:PHE:CE2	2.35	0.86
22:HB:2063:A:C4'	47:H1:33:VAL:HG22	2.06	0.86
22:HB:1081:A:H2	30:HJ:9:LYS:O	1.58	0.86
22:HB:1487:C:C2	22:HB:1536:G:N1	2.43	0.86
22:HB:2329:C:OP2	51:H5:42:ARG:NE	2.09	0.86
22:HB:2522:G:H4'	22:HB:2624:G:C6	2.11	0.86
22:HB:575:U:O4	39:HS:79:GLN:C	2.14	0.86
31:HK:126:VAL:HG22	31:HK:127:ILE:H	1.40	0.86
22:HB:1148:G:C5'	31:HK:133:GLY:CA	2.52	0.86
33:HM:140:VAL:HG13	33:HM:141:VAL:H	1.40	0.86
22:HB:512:A:OP2	40:HT:16:GLN:NE2	2.06	0.86
40:HT:50:VAL:H	40:HT:53:ALA:HB3	1.40	0.86
34:HN:64:LYS:N	43:HW:111:GLY:HA2	1.91	0.86
1:IA:1228:C:H41	13:IM:104:ARG:HG3	1.41	0.86
20:IT:57:ARG:HA	20:IT:60:GLU:HB3	1.56	0.86
22:JB:1996:A:O3'	40:JT:116:ILE:O	1.94	0.86
22:JB:231:G:N2	51:J5:7:HIS:HD2	1.67	0.86
22:JB:642:A:H2	22:JB:2393:G:H21	1.24	0.86
24:JD:112:THR:HG22	24:JD:113:VAL:HG23	1.58	0.86
1:AA:1006:C:H42	1:AA:1023:G:H1	1.19	0.86
1:AA:1061:G:H5'	10:AJ:58:ASP:HB2	1.55	0.86
38:BR:25:TRP:HH2	48:B2:14:SER:HG	1.18	0.86
22:BB:2760:G:H21	31:BK:150:VAL:HG13	1.05	0.86
25:BE:52:ALA:CB	37:BQ:5:ILE:HD13	2.06	0.86
22:BB:332:C:C5'	26:BF:160:ALA:HB2	2.06	0.86
22:BB:1225:G:H1	40:BT:12:LYS:NZ	1.74	0.86
5:CE:141:GLN:HE21	8:CH:69:ARG:CZ	1.88	0.86
1:CA:943:U:H1'	9:CI:124:GLN:HE22	1.05	0.86
30:DJ:111:LYS:HD2	30:DJ:127:VAL:HB	1.58	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:DB:504:G:O2'	40:DT:25:PHE:HD2	1.59	0.86
22:DB:2249:U:OP1	44:DX:18:PRO:CG	2.23	0.86
1:EA:1074:G:H1'	2:EB:104:ASN:CB	1.86	0.86
1:EA:130:A:C6	17:EQ:64:PRO:HD2	2.11	0.86
23:FA:9:G:H5'	36:FP:32:TYR:HE1	1.35	0.86
22:FB:50:G:C2	22:FB:117:A:C2	2.64	0.86
22:FB:1265:G:H1	38:FR:37:GLN:HB2	0.71	0.86
22:FB:1288:A:H61	35:FO:19:ALA:HB1	1.04	0.86
22:FB:1829:C:H4'	22:FB:1910:A:C2'	2.02	0.86
1:EA:1517:G:H1'	22:FB:1902:A:O2'	1.74	0.86
22:FB:2209:G:H4'	47:F1:39:VAL:HA	1.58	0.86
22:FB:88:G:N2	41:FU:67:ARG:HH21	1.74	0.86
29:FI:26:ARG:C	47:F1:73:LYS:OXT	2.13	0.86
1:GA:35:G:N3	12:GL:117:ARG:O	2.09	0.86
22:HB:1149:G:OP1	31:HK:130:ALA:O	1.94	0.86
22:HB:1400:A:N1	22:HB:1414:G:O6	2.09	0.86
22:HB:3197:U:O4	22:HB:2203:G:C8	2.29	0.86
22:HB:3876:A:N7	53:H7:45:ASP:CA	2.39	0.86
22:HB:2357:A:H5'	36:HP:26:ARG:HE	1.39	0.86
22:HB:2002:A:C5'	38:HR:33:ARG:HG3	2.06	0.86
22:HB:869:C:O2	44:HX:24:LYS:HG2	1.76	0.86
1:IA:673:G:H4'	6:IF:87:ARG:NE	1.89	0.86
1:IA:1130:A:O4'	9:II:18:PHE:CE1	2.29	0.86
17:IQ:59:ILE:HD12	17:IQ:73:VAL:HG22	1.55	0.86
1:IA:261:U:C4	20:IT:79:ARG:HD3	2.11	0.86
22:JB:3171:A:C8	53:J7:101:LYS:HD2	2.06	0.86
22:JB:1148:G:C4'	31:JK:133:GLY:CA	2.31	0.86
22:JB:2490:U:H5'	25:JE:124:GLY:HA3	1.55	0.86
22:JB:47:G:C2	22:JB:155:G:C6	2.64	0.86
22:JB:2811:G:P	37:JQ:6:LYS:HA	2.14	0.86
22:JB:1263:G:C4'	38:JR:6:THR:HG21	2.06	0.86
22:JB:93:A:C5	45:JY:41:HIS:NE2	2.38	0.86
1:AA:1014:A:N7	19:AS:34:TRP:CZ3	2.44	0.85
1:AA:1187:G:N3	14:AN:60:SER:C	2.28	0.85
12:AL:10:LEU:HD13	17:AQ:32:TYR:CE2	2.11	0.85
22:BB:177:U:C5'	47:B1:31:ILE:HB	2.03	0.85
22:BB:220:U:OP1	51:B5:5:LYS:HD3	1.75	0.85
22:BB:2334:C:H5'	44:BX:21:LEU:CG	2.02	0.85
22:BB:2504:G:N3	22:BB:2721:A:O2'	2.08	0.85
23:BA:105:G:H5''	43:BW:92:VAL:HG13	1.57	0.85
1:CA:815:A:N9	1:CA:1529:G:N1	2.22	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:1381:U:C4	7:CG:77:SER:O	2.29	0.85
1:CA:644:G:C4'	8:CH:89:PRO:CA	2.54	0.85
1:CA:1117:G:C3'	9:CI:9:ARG:NH2	2.38	0.85
1:CA:968:A:H1'	10:CJ:56:HIS:NE2	1.91	0.85
22:DB:1469:U:C4	35:DO:60:LEU:HD12	2.08	0.85
22:DB:864:C:O2'	46:DZ:40:VAL:CA	2.21	0.85
1:EA:1006:C:H42	1:EA:1023:G:H1	1.19	0.85
1:EA:958:A:C4'	19:ES:55:LYS:HZ3	1.88	0.85
22:FB:1411:C:C2'	22:FB:1412:C:C5	2.59	0.85
22:FB:1672:A:H4'	25:FE:114:GLN:HB3	1.58	0.85
22:FB:1828:C:O2'	22:FB:1911:A:O3'	1.94	0.85
22:FB:742:G:N7	24:FD:208:LYS:CE	2.39	0.85
22:FB:892:A:N6	22:FB:912:A:C6	2.43	0.85
33:FM:140:VAL:HG13	33:FM:141:VAL:H	1.40	0.85
22:FB:497:C:O2'	40:FT:77:ALA:O	1.94	0.85
1:GA:1517:G:H8	22:HB:1903:C:P	1.95	0.85
1:GA:559:A:OP2	5:GE:121:LYS:NZ	2.07	0.85
1:GA:129:U:H6	17:GQ:3:LYS:CE	1.89	0.85
20:GT:57:ARG:HA	20:GT:60:GLU:HB3	1.55	0.85
22:HB:2814:G:C5'	35:HO:46:PRO:HG3	2.06	0.85
31:HK:77:GLY:HA3	31:HK:147:ARG:HH22	1.40	0.85
34:HN:66:TYR:CE1	43:HW:115:ILE:HG12	2.11	0.85
22:HB:1664:G:H8	40:HT:107:ILE:HD11	1.38	0.85
6:IF:98:LEU:HD22	6:IF:101:ALA:HB3	1.56	0.85
1:IA:1517:G:C1'	22:JB:1902:A:O3'	2.24	0.85
22:JB:2260:C:O2'	22:JB:2368:G:C4	2.27	0.85
22:JB:227:G:OP1	22:JB:2372:A:C2	2.29	0.85
32:JL:21:CYS:HA	32:JL:54:SER:H	1.40	0.85
22:JB:884:C:O3'	34:JN:70:PHE:CE2	2.29	0.85
22:JB:1003:C:H5''	39:JS:74:TYR:HB3	1.56	0.85
1:AA:1349:A:P	9:AI:120:ARG:HB2	2.15	0.85
1:AA:982:U:P	14:AN:23:ARG:HH22	1.99	0.85
1:AA:668:G:C1'	15:AO:46:HIS:CA	2.53	0.85
22:BB:1381:G:OP1	50:B4:25:LYS:HG2	1.76	0.85
22:BB:2560:G:H5''	22:BB:2561:G:H5'	1.56	0.85
22:BB:1681:A:C2	22:BB:2706:U:C2	2.64	0.85
22:BB:2725:C:C4'	28:BH:142:GLY:N	2.37	0.85
22:BB:3866:A:C3'	53:B7:43:LYS:CA	2.51	0.85
25:BE:181:LEU:HD22	37:BQ:12:LEU:CD1	2.06	0.85
34:BN:106:GLU:HB2	43:BW:113:VAL:HG13	0.88	0.85
40:BT:50:VAL:H	40:BT:53:ALA:HB3	1.41	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:BB:2334:C:C2	44:BX:32:LYS:HE3	2.09	0.85
1:CA:1006:C:H42	1:CA:1023:G:H1	1.19	0.85
1:CA:815:A:H1'	1:CA:1529:G:N1	1.89	0.85
1:CA:1298:C:C6	7:CG:114:ARG:HD3	2.08	0.85
1:CA:1374:A:C1'	7:CG:28:ASN:O	2.24	0.85
1:CA:597:G:N2	8:CH:132:GLU:OE1	2.08	0.85
10:CJ:47:PHE:HB2	10:CJ:63:PHE:HB2	1.58	0.85
1:CA:1231:G:H8	13:CM:126:LYS:HE2	1.02	0.85
22:DB:1044:U:H5	52:D6:16:VAL:HG13	1.41	0.85
22:DB:1288:A:N1	35:DO:19:ALA:HB3	1.90	0.85
22:DB:2786:G:C4'	25:DE:59:VAL:HG13	2.06	0.85
22:DB:596:C:O2	33:DM:29:THR:CG2	2.23	0.85
22:DB:845:U:H5'	33:DM:41:SER:HB2	1.55	0.85
22:DB:1469:U:N3	35:DO:60:LEU:CD1	2.37	0.85
25:DE:176:ARG:HD3	37:DQ:20:HIS:CE1	2.11	0.85
32:DL:87:SER:CA	37:DQ:83:PHE:HA	2.05	0.85
22:DB:2335:U:H5''	44:DX:17:ASN:OD1	1.76	0.85
1:EA:1092:A:O3'	7:EG:4:ARG:NH2	2.09	0.85
1:EA:407:G:H1'	4:ED:116:GLN:HE21	0.76	0.85
22:FB:1001:A:C4'	46:FZ:27:LYS:NZ	2.39	0.85
22:FB:1174:G:O2'	39:FS:89:ASN:HB3	1.76	0.85
22:FB:864:C:H4'	46:FZ:42:GLY:H	1.40	0.85
22:FB:2628:C:C4'	32:FL:28:GLY:HA3	2.05	0.85
34:FN:36:ILE:N	43:FW:74:ARG:NH1	2.16	0.85
22:FB:529:U:C5'	40:FT:39:ARG:CG	2.54	0.85
1:GA:880:C:OP1	12:GL:9:GLN:NE2	2.10	0.85
1:GA:21:G:N2	1:GA:914:A:H62	1.74	0.85
22:HB:1381:G:OP1	50:H4:25:LYS:HB2	1.77	0.85
22:HB:1290:A:H5'	35:HO:12:ARG:HH22	1.39	0.85
22:HB:2522:G:O2'	22:HB:2624:G:C8	2.29	0.85
22:HB:592:G:O3'	38:HR:5:LYS:CD	2.15	0.85
22:HB:7:G:C6	22:HB:2870:C:N3	2.44	0.85
22:HB:221:A:H5'	33:HM:68:VAL:HA	1.56	0.85
22:HB:2002:A:O2'	38:HR:34:ASN:ND2	2.08	0.85
27:FG:179:LYS:CG	1:IA:1021:G:H4'	2.06	0.85
1:IA:258:G:H5'	20:IT:87:LYS:CE	2.06	0.85
22:JB:122:G:P	22:JB:1388:C:O2'	2.35	0.85
22:JB:1357:U:N3	22:JB:1416:A:N1	2.24	0.85
23:JA:14:C:N4	44:JX:52:GLY:N	2.23	0.85
1:AA:667:G:N3	15:AO:49:ASP:CB	2.35	0.85
4:AD:196:LEU:HD23	4:AD:197:PRO:HD2	1.57	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1374:A:H1'	7:AG:28:ASN:O	1.06	0.85
1:AA:265:G:N3	17:AQ:64:PRO:CB	2.39	0.85
20:AT:57:ARG:HA	20:AT:60:GLU:HB3	1.56	0.85
22:BB:1042:G:N3	52:B6:23:VAL:HB	1.91	0.85
22:BB:334:G:P	26:BF:162:ARG:HH11	1.99	0.85
22:BB:675:C:OP1	33:BM:26:THR:HG21	1.77	0.85
28:BH:9:ILE:HG13	28:BH:10:ALA:H	1.40	0.85
22:BB:1143:A:H5'	31:BK:111:LYS:HD2	1.58	0.85
22:DB:475:U:C5'	50:D4:5:TYR:CB	2.53	0.85
22:DB:2716:G:O6	22:DB:2749:A:C4	2.29	0.85
22:DB:2372:A:H4'	33:DM:59:ARG:HB3	1.55	0.85
22:DB:24:G:H4'	40:DT:98:ASP:CB	2.05	0.85
41:DU:53:ILE:HD12	41:DU:80:VAL:HG22	1.58	0.85
22:DB:886:A:C5'	43:DW:118:HIS:HE1	1.85	0.85
1:EA:922:G:H1'	5:EE:19:MET:HE3	1.51	0.85
1:EA:927:G:N3	1:EA:1532:U:C4'	2.37	0.85
1:EA:643:C:N4	8:EH:115:SER:HA	1.90	0.85
11:EK:23:ALA:HA	11:EK:28:THR:HG23	1.58	0.85
22:FB:1162:A:N3	38:FR:78:THR:OG1	2.08	0.85
22:FB:219:G:C5'	51:F5:62:LEU:CD1	2.53	0.85
22:FB:941:U:OP2	46:FZ:34:VAL:HA	1.76	0.85
22:FB:965:G:OP1	34:FN:19:THR:N	2.02	0.85
22:FB:1110:G:N2	28:FH:168:GLN:NE2	2.22	0.85
22:FB:2728:A:H4'	28:FH:67:LEU:HD13	1.57	0.85
22:FB:2540:A:H1'	32:FL:23:ARG:HG3	1.54	0.85
23:FA:116:C:O4'	36:FP:50:THR:HG22	1.48	0.85
22:FB:468:A:P	41:FU:67:ARG:HD2	2.17	0.85
1:GA:223:U:N1	20:GT:68:LYS:CE	2.39	0.85
1:GA:17:U:C4'	5:GE:14:ARG:NE	2.34	0.85
1:GA:1319:A:OP1	19:GS:5:LEU:HD22	1.76	0.85
1:GA:194:C:O2'	20:GT:66:ALA:CA	2.20	0.85
22:HB:221:A:C4'	33:HM:68:VAL:HG13	2.05	0.85
22:HB:2337:A:N3	51:H5:52:LYS:CD	2.38	0.85
22:HB:2358:C:OP1	36:HP:19:THR:HG23	1.75	0.85
22:HB:2490:U:O2	25:HE:139:GLY:C	2.14	0.85
22:HB:2522:G:O2'	22:HB:2624:G:N7	2.08	0.85
22:HB:2653:A:H4'	32:HL:43:ARG:HH21	1.40	0.85
22:HB:504:G:C4'	40:HT:25:PHE:HD2	1.80	0.85
22:HB:684:C:H5'	33:HM:45:LYS:HA	1.58	0.85
22:HB:69:G:H5'	22:HB:72:A:O4'	1.75	0.85
22:HB:824:U:O5'	33:HM:33:GLY:CA	2.24	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:HR:17:VAL:CG2	39:HS:75:LYS:HZ2	1.85	0.85
22:HB:497:C:C2'	40:HT:77:ALA:HA	2.06	0.85
34:HN:63:GLY:HA2	43:HW:111:GLY:N	1.91	0.85
1:IA:1240:U:OP1	7:IG:115:ARG:CA	2.23	0.85
1:IA:644:G:C5'	8:IH:92:ARG:NE	2.39	0.85
1:IA:644:G:H5'	8:IH:92:ARG:NE	1.92	0.85
23:JA:116:C:H4'	36:JP:50:THR:HB	1.57	0.85
22:JB:1088:A:C5'	30:JJ:92:ASN:CG	2.44	0.85
22:JB:1548:U:H3	22:JB:1556:A:H1'	1.42	0.85
22:JB:2570:C:C5	24:JD:237:GLU:CA	2.59	0.85
22:JB:3167:U:O3'	53:J7:97:LYS:CE	2.23	0.85
1:AA:1319:A:H5'	19:AS:70:LYS:NZ	1.90	0.85
10:AJ:64:GLU:OE1	14:AN:57:ARG:N	2.08	0.85
22:BB:4:C:N3	22:BB:2873:G:O6	2.09	0.85
22:BB:820:U:N3	33:BM:40:ARG:NH2	2.24	0.85
22:BB:930:A:H8	23:BA:83:C:C5'	1.83	0.85
1:CA:332:G:H5''	20:CT:10:LEU:HB3	1.56	0.85
1:CA:735:C:OP1	18:CR:68:LYS:NZ	2.09	0.85
3:CC:23:TYR:CZ	10:CJ:9:ARG:CB	2.59	0.85
13:CM:87:TYR:O	13:CM:91:ARG:CG	2.22	0.85
22:DB:3:U:O4	22:DB:2874:A:N6	2.10	0.85
22:DB:575:U:C5	39:DS:80:TYR:CA	2.56	0.85
22:DB:922:A:N6	34:DN:16:GLY:C	2.28	0.85
25:DE:52:ALA:HB1	37:DQ:5:ILE:CG2	2.05	0.85
28:DH:9:ILE:HG13	28:DH:10:ALA:H	1.40	0.85
37:DQ:26:ASP:HB2	37:DQ:93:ILE:HG12	1.58	0.85
1:EA:753:A:H61	8:EH:2:LEU:HD21	0.71	0.85
1:EA:973:G:C1'	10:EJ:54:PHE:CE2	2.58	0.85
1:EA:281:G:C6	17:EQ:98:LEU:CD1	2.59	0.85
1:EA:1313:U:OP2	19:ES:6:LYS:CB	2.24	0.85
22:FB:1291:G:OP1	35:FO:35:GLN:CB	2.24	0.85
22:FB:2560:G:H5''	22:FB:2561:G:H5'	1.56	0.85
22:FB:64:C:N3	41:FU:65:VAL:CB	2.38	0.85
22:FB:864:C:C1'	46:FZ:39:ALA:CA	2.53	0.85
1:GA:1373:G:H5''	7:GG:36:LYS:CB	2.06	0.85
6:GF:50:TYR:HE1	18:GR:77:GLY:CA	1.86	0.85
1:GA:1380:U:O4	7:GG:3:ARG:HG3	1.75	0.85
22:HB:419:G:OP1	53:H7:1:MET:HG2	1.76	0.85
22:HB:2241:U:H1'	22:HB:2307:A:H1'	1.55	0.85
22:HB:2343:C:C4'	44:HX:40:GLN:HB2	2.06	0.85
38:HR:3:ARG:HE	38:HR:4:ALA:H	1.23	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:IA:520:A:H4'	12:IL:73:GLU:HB3	1.54	0.85
1:IA:919:A:C2'	1:IA:920:U:C6	2.51	0.85
1:IA:927:G:C4	1:IA:1531:A:H2'	2.10	0.85
10:IJ:49:VAL:HG11	14:IN:45:ARG:HG3	1.58	0.85
22:JB:1200:G:O2'	39:JS:83:ARG:NH2	2.08	0.85
1:AA:1229:A:N6	13:AM:120:LYS:CB	2.39	0.85
1:AA:1187:G:C1'	14:AN:61:TRP:N	2.40	0.85
22:BB:2789:U:C2'	48:B2:42:SER:CB	2.35	0.85
22:BB:123:A:C1'	50:B4:10:ARG:HH22	1.90	0.85
22:BB:1042:G:H1'	52:B6:5:SER:O	1.76	0.85
22:BB:317:U:O2'	22:BB:1224:A:OP2	1.94	0.85
22:BB:1438:G:C2	22:BB:1591:U:O2	2.30	0.85
22:BB:215:G:O4'	22:BB:618:A:H4'	1.76	0.85
25:BE:181:LEU:CD2	37:BQ:12:LEU:CD1	2.54	0.85
22:BB:1141:U:C4'	31:BK:108:GLY:N	2.35	0.85
22:BB:591:G:P	38:BR:10:ARG:HH22	1.99	0.85
1:CA:438:G:OP1	4:CD:125:HIS:CD2	2.29	0.85
1:CA:588:G:H5'	8:CH:2:LEU:HB2	0.86	0.85
4:CD:87:GLY:CA	5:CE:96:PRO:O	2.24	0.85
1:CA:9:G:P	5:CE:122:GLU:HB2	2.15	0.85
1:CA:16:A:H4'	5:CE:16:THR:HA	1.57	0.85
22:DB:2411:A:C2	47:D1:27:THR:HB	2.09	0.85
22:DB:2560:G:H5''	22:DB:2561:G:H5'	1.56	0.85
22:DB:506:G:H5''	40:DT:21:ARG:HB2	1.55	0.85
22:DB:2373:C:C5'	33:DM:59:ARG:NH1	2.39	0.85
22:DB:503:G:N3	40:DT:28:ALA:HB2	1.90	0.85
1:EA:589:C:C3'	8:EH:31:PHE:N	2.40	0.85
2:EB:181:PHE:CZ	5:EE:64:ARG:NH1	2.44	0.85
1:EA:1239:A:O2'	7:EG:115:ARG:HD2	1.75	0.85
22:FB:3175:C:O2'	53:F7:206:LYS:HD2	1.76	0.85
22:FB:3875:A:O4'	53:F7:43:LYS:HD3	1.75	0.85
22:FB:456:C:O5'	38:FR:2:PRO:HG2	1.76	0.85
22:FB:29:U:C5'	38:FR:8:ILE:HB	2.05	0.85
38:FR:87:ASN:HB2	39:FS:52:GLY:CA	2.06	0.85
22:FB:498:C:C1'	40:FT:77:ALA:CB	2.54	0.85
43:FW:88:TYR:O	43:FW:90:GLU:CB	2.24	0.85
1:GA:262:A:H5'	20:GT:74:LYS:HD2	1.58	0.85
1:GA:509:A:H5'	4:GD:52:SER:HG	1.40	0.85
1:GA:719:C:O2'	18:GR:49:LYS:CA	2.23	0.85
13:GM:82:MET:SD	13:GM:92:HIS:CA	2.64	0.85
22:HB:2195:C:H2'	22:HB:2196:U:H4'	1.56	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:HB:3168:G:C6	53:H7:101:LYS:NZ	2.45	0.85
22:HB:593:C:P	38:HR:5:LYS:HA	2.16	0.85
22:HB:763:A:H62	40:HT:111:ARG:HE	1.23	0.85
22:HB:941:U:H4'	46:HZ:24:GLY:HA3	1.57	0.85
1:IA:44:G:OP1	16:IP:10:GLY:O	1.93	0.85
1:IA:730:G:H1	15:IO:51:HIS:HE2	0.92	0.85
15:IO:89:GLY:HA3	22:JB:729:A:OP1	1.74	0.85
22:JB:1356:G:N1	22:JB:1416:A:N6	2.25	0.85
22:JB:2258:G:H1'	22:JB:2306:A:C2'	2.06	0.85
30:JJ:111:LYS:HD2	30:JJ:127:VAL:HB	1.58	0.85
23:JA:53:G:C5	36:JP:64:LYS:NZ	2.43	0.85
37:JQ:26:ASP:HB2	37:JQ:93:ILE:HG12	1.58	0.85
22:JB:1615:C:OP1	41:JU:35:LYS:CE	2.23	0.85
1:AA:742:G:H5''	15:AO:58:MET:CE	2.06	0.85
1:AA:8:A:N6	4:AD:205:GLU:C	2.30	0.85
5:AE:33:VAL:HG12	5:AE:112:LEU:HD12	1.58	0.85
1:AA:760:G:HO2'	17:AQ:102:GLY:HA2	1.40	0.85
22:BB:1999:U:H4'	48:B2:6:VAL:HG21	1.56	0.85
22:BB:1437:A:N3	22:BB:1438:G:C5	2.43	0.85
22:BB:226:C:H5	47:B1:28:ARG:HH21	1.21	0.85
22:BB:489:A:C2'	42:BV:5:SER:HB2	1.91	0.85
22:BB:965:G:P	34:BN:18:MET:HB3	2.08	0.85
1:CA:1221:G:O3'	19:CS:77:THR:CB	2.25	0.85
1:CA:1298:C:N4	7:CG:115:ARG:HD3	1.92	0.85
1:CA:529:G:C2	12:CL:49:ASN:CA	2.48	0.85
1:CA:589:C:OP1	8:CH:31:PHE:CD2	2.28	0.85
1:CA:6:G:C6	5:CE:95:ALA:HB3	2.11	0.85
1:CA:1298:C:N4	7:CG:115:ARG:CD	2.38	0.85
5:CE:141:GLN:HG2	8:CH:69:ARG:HH12	0.75	0.85
13:CM:90:LEU:HD12	19:CS:76:PRO:HD3	1.57	0.85
23:DA:106:U:C4'	43:DW:88:TYR:CD1	2.53	0.85
22:DB:1750:A:N3	22:DB:2675:U:O2	2.08	0.85
22:DB:2039:G:H1'	48:D2:5:PRO:HG2	1.58	0.85
1:EA:236:G:HO2'	17:EQ:25:ARG:HH21	1.23	0.85
1:EA:51:A:H1'	1:EA:353:A:H61	1.40	0.85
4:ED:196:LEU:HD23	4:ED:197:PRO:HD2	1.57	0.85
5:EE:33:VAL:HG12	5:EE:112:LEU:HD12	1.58	0.85
12:EL:16:GLU:HG3	12:EL:19:ARG:NH2	1.87	0.85
22:FB:1583:A:H61	24:FD:89:SER:HA	1.38	0.85
22:FB:2264:C:C6	49:F3:27:ASN:O	2.30	0.85
22:FB:456:C:OP2	38:FR:2:PRO:CD	2.23	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:FB:504:G:HO2'	40:FT:25:PHE:C	1.80	0.85
22:FB:572:G:N2	38:FR:33:ARG:HH22	1.75	0.85
22:FB:2628:C:O3'	32:FL:29:ILE:HD11	1.72	0.85
22:FB:2313:G:C2'	36:FP:15:ARG:HH11	1.87	0.85
23:FA:116:C:C3'	36:FP:50:THR:HG22	2.06	0.85
23:FA:116:C:O2'	36:FP:50:THR:HG22	1.77	0.85
1:GA:1187:G:N2	14:GN:60:SER:CA	2.39	0.85
1:GA:922:G:C1'	5:GE:19:MET:SD	2.63	0.85
1:GA:1495:U:H5'	22:HB:1895:A:C1'	2.06	0.85
22:HB:2310:G:H4'	44:HX:71:ASN:N	1.89	0.85
24:HD:112:THR:HG22	24:HD:113:VAL:HG23	1.58	0.85
22:HB:1078:A:C2	30:HJ:23:VAL:HG12	2.11	0.85
22:HB:648:A:H5'	33:HM:131:LYS:HZ3	1.39	0.85
22:HB:514:G:N2	40:HT:14:ARG:HG3	1.90	0.85
1:IA:597:G:H22	8:IH:131:GLY:HA3	1.38	0.85
1:IA:637:G:P	17:IQ:2:PRO:CD	2.62	0.85
1:IA:687:A:O4'	11:IK:42:TRP:CZ2	2.30	0.85
5:IE:33:VAL:HG12	5:IE:112:LEU:HD12	1.58	0.85
1:IA:597:G:H21	8:IH:94:TYR:HD2	1.24	0.85
22:JB:2722:C:C5'	52:J6:35:ARG:CD	1.92	0.85
22:JB:1583:A:C8	24:JD:85:ASP:HA	2.12	0.85
22:JB:2241:U:H1'	22:JB:2307:A:H1'	1.56	0.85
22:JB:2264:C:N3	49:J3:27:ASN:HA	1.91	0.85
22:JB:469:G:OP1	50:J4:41:GLN:N	2.08	0.85
22:JB:1256:C:H42	33:JM:14:LYS:NZ	1.75	0.85
43:JW:171:VAL:HG12	43:JW:173:PRO:HD3	1.58	0.85
1:AA:668:G:H1'	15:AO:46:HIS:CA	2.07	0.85
13:AM:90:LEU:CD1	19:AS:76:PRO:HD3	2.06	0.85
22:BB:2265:A:H61	49:B3:38:LYS:HE2	1.41	0.85
22:BB:1440:G:N1	22:BB:1588:A:OP2	2.08	0.85
22:BB:1453:A:H3'	22:BB:1454:U:C5	2.11	0.85
22:BB:2487:G:C5'	22:BB:2534:U:H5'	2.06	0.85
1:CA:1347:G:H3'	9:CI:108:VAL:O	1.75	0.85
13:CM:87:TYR:CD2	13:CM:91:ARG:CG	2.59	0.85
19:CS:12:ASP:H	19:CS:38:SER:HB3	1.39	0.85
22:DB:1135:C:O2	52:D6:5:SER:HA	1.77	0.85
22:DB:2324:G:H4'	49:D3:40:TYR:HE1	1.41	0.85
22:DB:700:C:O5'	50:D4:2:LYS:HB3	1.74	0.85
40:DT:50:VAL:H	40:DT:53:ALA:HB3	1.40	0.85
1:EA:229:U:O2'	16:EP:23:ASP:HB2	1.75	0.85
23:FA:92:G:N2	34:FN:22:ALA:HA	1.89	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:FB:1019:U:H5''	31:FK:63:ARG:HD3	1.58	0.85
22:FB:114:C:O4'	22:FB:124:A:O2'	1.94	0.85
22:FB:1450:G:N2	22:FB:1531:C:C1'	2.31	0.85
22:FB:2181:A:O2'	29:FI:24:TYR:HE2	1.58	0.85
22:FB:2464:G:H4'	34:FN:123:GLY:H	1.40	0.85
32:FL:21:CYS:HA	32:FL:54:SER:H	1.40	0.85
22:FB:2445:C:O2	34:FN:120:ARG:HD2	1.77	0.85
1:GA:1367:C:OP2	9:GI:115:GLY:CA	2.24	0.85
1:GA:1392:G:N3	1:GA:1502:A:H5'	1.63	0.85
1:GA:932:C:H5'	7:GG:4:ARG:N	1.90	0.85
22:HB:2063:A:C5'	47:H1:33:VAL:HG22	2.07	0.85
22:HB:1548:U:H3	22:HB:1556:A:H1'	1.42	0.85
22:HB:2861:A:C4	48:H2:31:THR:CB	2.59	0.85
22:HB:934:G:H4'	44:HX:23:VAL:CG2	2.05	0.85
28:HH:9:ILE:HG13	28:HH:10:ALA:H	1.40	0.85
22:HB:2653:A:H4'	32:HL:43:ARG:HD2	1.59	0.85
34:HN:68:ARG:HH21	43:HW:117:VAL:CG2	1.82	0.85
22:HB:1336:G:H5'	40:HT:103:LEU:CB	2.06	0.85
1:IA:1369:C:OP2	9:II:112:LYS:CB	2.25	0.85
1:IA:1195:C:C4'	1:IA:1398:A:H62	1.90	0.85
1:IA:637:G:H5'	17:IQ:2:PRO:CD	2.05	0.85
22:JB:16:G:H5'	48:J2:18:MET:N	1.90	0.85
22:JB:1007:A:H5''	38:JR:93:LYS:HG3	1.57	0.85
22:JB:1999:U:O2	48:J2:6:VAL:CA	2.24	0.85
22:JB:3178:C:O2'	53:J7:39:ILE:CD1	2.22	0.85
22:JB:411:C:H5'	47:J1:62:ARG:HH22	1.41	0.85
22:JB:673:G:OP1	26:JF:93:TYR:N	2.09	0.85
22:JB:631:G:O6	33:JM:96:TYR:HE2	1.23	0.85
34:JN:78:LYS:HD3	34:JN:87:GLY:HA2	1.57	0.85
22:JB:1997:A:H4'	40:JT:114:ALA:O	1.77	0.85
41:JU:23:GLY:HA3	41:JU:82:LEU:HD22	1.57	0.85
1:AA:1228:C:O2	13:AM:119:GLY:C	2.15	0.85
1:AA:8:A:H62	4:AD:205:GLU:C	1.80	0.85
1:AA:1375:A:OP1	7:AG:12:LEU:CG	2.25	0.85
1:AA:254:G:N1	17:AQ:16:GLN:HB3	1.63	0.85
22:BB:124:A:N7	50:B4:18:PHE:CE1	2.44	0.85
22:BB:1786:C:O2	24:BD:252:LYS:NZ	2.10	0.85
22:BB:2407:G:H4'	22:BB:2408:G:C8	2.10	0.85
22:BB:477:A:H5'	50:B4:12:ARG:HH22	1.41	0.85
22:BB:215:G:H1'	22:BB:618:A:H1'	1.55	0.85
22:BB:1504:G:O6	24:BD:99:ASP:O	1.95	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:BB:888:G:O4'	43:BW:165:GLU:OE1	1.94	0.85
1:CA:51:A:H1'	1:CA:353:A:H61	1.40	0.85
13:CM:87:TYR:CG	13:CM:91:ARG:HG2	2.12	0.85
1:CA:126:G:H21	17:CQ:4:LYS:CE	1.82	0.85
22:DB:177:U:P	47:D1:31:ILE:HG21	2.16	0.85
22:DB:1416:A:H4'	22:DB:1485:U:H4'	1.58	0.85
22:DB:2461:G:N2	34:DN:53:ILE:HD12	1.90	0.85
22:DB:588:G:H5''	22:DB:2001:G:H5''	1.59	0.85
22:DB:923:A:N3	22:DB:2243:C:O2'	2.08	0.85
22:DB:2576:G:C5'	24:DD:239:ARG:HH22	1.78	0.85
34:DN:99:LYS:HB3	43:DW:74:ARG:CA	2.06	0.85
1:EA:1115:C:H1'	14:EN:61:TRP:HD1	1.39	0.85
1:EA:710:G:OP1	6:EF:54:LYS:HD2	1.76	0.85
1:EA:377:G:H5'	16:EP:5:ARG:HH11	0.97	0.85
29:FI:1:MET:HG2	47:F1:66:SER:HA	1.58	0.85
22:FB:588:G:H5''	22:FB:2001:G:H5''	1.59	0.85
22:FB:3178:C:O4'	53:F7:163:PRO:CB	2.25	0.85
22:FB:548:G:H1'	31:FK:33:ILE:HG21	1.55	0.85
30:FJ:21:PRO:HB2	30:FJ:22:PRO:HD3	1.56	0.85
32:FL:76:ARG:HD2	32:FL:90:ARG:HH22	1.42	0.85
37:FQ:26:ASP:HB2	37:FQ:93:ILE:HG12	1.58	0.85
38:FR:46:GLU:HB2	39:FS:75:LYS:HG2	1.58	0.85
22:HB:596:C:OP1	33:HM:29:THR:O	1.95	0.85
34:HN:35:LEU:HG	34:HN:128:ILE:HA	1.57	0.85
22:HB:1630:A:H62	40:HT:114:ALA:CB	1.86	0.85
22:HB:505:G:C4'	40:HT:83:ASP:HB2	2.06	0.85
22:HB:2364:C:O2'	44:HX:69:PHE:HZ	1.54	0.85
1:IA:1186:G:H22	14:IN:61:TRP:C	1.74	0.85
22:JB:1378:A:OP2	47:J1:3:LYS:HD2	1.77	0.85
22:JB:1088:A:C5'	30:JJ:92:ASN:HB2	2.07	0.85
22:JB:3167:U:O4	53:J7:101:LYS:HG3	1.77	0.85
22:JB:1040:A:C4'	34:JN:125:LYS:NZ	2.19	0.85
1:AA:780:A:O2'	1:AA:1523:G:C4'	2.24	0.85
1:AA:1239:A:O2'	7:AG:115:ARG:CD	2.24	0.85
23:BA:107:C:C5'	43:BW:89:GLY:HA3	1.96	0.85
22:BB:1143:A:O4'	31:BK:111:LYS:CD	0.55	0.85
22:BB:166:G:H3'	47:B1:36:TRP:HZ2	1.39	0.85
15:AO:89:GLY:C	22:BB:729:A:OP2	2.15	0.85
43:BW:49:THR:CG2	43:BW:132:GLN:NE2	2.39	0.85
1:CA:928:G:H4'	1:CA:1533:C:N4	1.91	0.85
1:CA:559:A:H5'	5:CE:124:GLY:N	1.91	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:739:C:O2	15:CO:42:HIS:HE1	1.56	0.85
1:CA:974:A:OP2	14:CN:32:SER:CB	2.24	0.85
1:CA:9:G:C5'	5:CE:122:GLU:CD	2.45	0.85
10:CJ:62:HIS:C	14:CN:59:ALA:H	1.79	0.85
22:DB:2411:A:C5	47:D1:27:THR:C	2.49	0.85
22:DB:2618:A:H4'	31:DK:125:ARG:NH1	1.90	0.85
22:DB:2729:A:H2	52:D6:18:ARG:NH1	1.67	0.85
22:DB:1583:A:C2'	24:DD:84:TYR:HE1	1.88	0.85
22:DB:1040:A:C5'	34:DN:125:LYS:HZ3	1.89	0.85
1:EA:1311:G:N7	19:ES:2:PRO:CA	2.39	0.85
22:FB:231:G:H1	51:F5:4:MET:HA	1.39	0.85
22:FB:1399:C:C4	22:FB:1414:G:N1	2.45	0.85
22:FB:2315:A:N6	44:FX:70:ILE:CG2	2.39	0.85
22:FB:1040:A:H1'	22:FB:2465:G:H5'	1.58	0.85
22:FB:490:A:OP1	42:FV:3:ARG:NE	2.10	0.85
22:FB:777:A:OP1	24:FD:211:ARG:NH2	2.10	0.85
22:FB:2598:C:H5''	25:FE:152:LYS:CE	2.06	0.85
22:FB:1072:U:C4	30:FJ:10:LEU:O	2.29	0.85
22:FB:1234:C:H5''	39:FS:68:LYS:HZ2	1.39	0.85
22:FB:870:C:H4'	44:FX:24:LYS:HE2	1.59	0.85
22:FB:2236:U:OP1	44:FX:9:SER:O	1.95	0.85
12:GL:22:SER:O	12:GL:24:VAL:O	1.94	0.85
1:GA:186:C:O3'	20:GT:82:SER:HB3	1.77	0.85
22:HB:1861:G:C1'	53:H7:199:ASN:CG	2.45	0.85
22:HB:1698:C:O3'	22:HB:1699:A:P	2.35	0.85
22:HB:2525:U:H1'	22:HB:2544:A:N1	1.91	0.85
22:HB:5:A:N1	22:HB:2873:G:O6	2.10	0.85
34:HN:66:TYR:HD1	43:HW:115:ILE:CG2	1.53	0.85
41:HU:53:ILE:HD12	41:HU:80:VAL:HG22	1.58	0.85
22:HB:2365:U:C3'	44:HX:37:LEU:HD11	2.06	0.85
1:IA:590:C:H5''	8:IH:30:ARG:CD	2.07	0.85
1:IA:15:G:N3	5:IE:17:ALA:HB3	1.92	0.85
1:IA:673:G:C5'	6:IF:87:ARG:NH2	2.22	0.85
22:JB:2210:C:O5'	47:J1:39:VAL:HG22	1.77	0.85
22:JB:1998:A:O2'	48:J2:3:LYS:CB	2.06	0.85
22:JB:1828:C:C2	22:JB:1912:G:H5'	2.11	0.85
22:JB:871:U:H2'	22:JB:2247:A:C2'	2.07	0.85
22:JB:2552:C:OP1	22:JB:2554:C:OP1	1.94	0.85
22:JB:2638:G:H5''	28:JH:178:ALA:H	1.39	0.85
22:JB:2685:A:H4'	35:JO:64:ARG:HH21	1.36	0.85
22:JB:2847:G:N3	35:JO:8:ARG:HB3	1.92	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:JB:348:U:H5''	42:JV:13:LYS:HZ2	1.39	0.85
22:JB:845:U:OP1	33:JM:41:SER:CB	2.24	0.85
22:JB:1807:A:C5'	24:JD:63:ARG:HH11	1.77	0.85
27:JG:78:LYS:HG3	27:JG:80:ARG:HH12	1.42	0.85
22:JB:528:G:C4'	40:JT:97:VAL:HG23	2.07	0.85
1:AA:1239:A:H3'	7:AG:115:ARG:HG3	1.57	0.85
1:AA:15:G:C2	5:AE:17:ALA:O	2.22	0.85
1:AA:1372:U:OP1	9:AI:71:SER:HB3	1.76	0.85
22:BB:659:G:HO2'	51:B5:48:PHE:HE2	1.21	0.85
22:BB:1044:U:OP1	52:B6:14:CYS:O	1.95	0.85
22:BB:1169:C:C4'	46:BZ:27:LYS:HZ3	1.86	0.85
22:BB:1414:G:H22	22:BB:1484:G:H22	1.23	0.85
22:BB:1727:C:H5'	22:BB:2833:C:O2	1.77	0.85
22:BB:2504:G:O4'	22:BB:2721:A:C2	2.30	0.85
22:BB:588:G:H5''	22:BB:2001:G:H5''	1.59	0.85
22:BB:801:A:C2'	50:B4:4:THR:OG1	2.25	0.85
22:BB:2601:C:H5''	25:BE:159:HIS:CD2	2.10	0.85
22:BB:2334:C:C2	44:BX:32:LYS:CE	2.60	0.85
1:CA:9:G:O5'	5:CE:122:GLU:OE1	1.92	0.85
1:CA:8:A:H8	5:CE:102:ALA:O	1.57	0.85
22:DB:1583:A:C4	24:DD:84:TYR:CD1	2.64	0.85
22:DB:742:G:C5	24:DD:18:THR:HB	1.57	0.85
22:DB:1781:C:H4'	24:DD:209:ALA:CB	2.05	0.85
27:DG:179:LYS:HD2	1:GA:1021:G:O2'	1.76	0.85
1:EA:520:A:H4'	12:EL:73:GLU:HA	1.59	0.85
1:EA:261:U:P	20:ET:72:LEU:HD22	2.16	0.85
22:FB:123:A:C5'	50:F4:23:LYS:NZ	2.39	0.85
22:FB:1666:G:H22	35:FO:106:ASP:CB	1.83	0.85
22:FB:969:U:C2	34:FN:20:GLY:HA2	2.11	0.85
22:FB:1670:G:N1	35:FO:11:ASN:HA	1.92	0.85
22:FB:1670:G:N1	35:FO:11:ASN:OD1	2.09	0.85
1:GA:1250:A:H5''	9:GI:68:GLY:CA	2.06	0.85
1:GA:1368:G:N7	9:GI:112:LYS:CD	2.40	0.85
1:GA:546:G:P	4:GD:72:GLU:H	1.99	0.85
1:GA:919:A:H3'	1:GA:920:U:P	2.17	0.85
48:H2:15:LYS:HD3	48:H2:16:ARG:H	1.42	0.85
22:HB:2343:C:O2'	44:HX:66:LYS:CB	2.25	0.85
32:HL:87:SER:OG	37:HQ:82:PRO:C	2.13	0.85
25:HE:54:LYS:HE3	37:HQ:6:LYS:HE3	1.59	0.85
41:HU:91:LEU:HD22	45:HY:24:GLU:OE2	1.77	0.85
34:HN:68:ARG:HH21	43:HW:117:VAL:HG13	1.41	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:IA:1374:A:N3	7:IG:29:LYS:NZ	2.25	0.85
1:IA:531:U:O2	1:IA:1208:C:C4'	2.25	0.85
5:IE:151:LEU:HD21	8:IH:77:GLU:CD	1.96	0.85
29:JI:46:LEU:CD1	53:J7:216:LYS:HZ1	1.87	0.85
22:JB:2195:C:H2'	22:JB:2196:U:H4'	1.56	0.85
22:JB:226:C:N4	22:JB:2374:C:C4'	2.36	0.85
22:JB:2366:U:O2'	44:JX:16:SER:HB2	1.76	0.85
22:JB:51:A:H61	22:JB:115:G:H2'	1.40	0.85
22:JB:969:U:O4	34:JN:21:ASP:N	2.03	0.85
1:EA:1021:G:H4'	27:JG:179:LYS:HB2	1.57	0.85
1:AA:1457:A:H5''	20:AT:27:LYS:HG2	1.58	0.84
1:AA:51:A:H1'	1:AA:353:A:H61	1.40	0.84
13:AM:83:ASP:O	13:AM:84:ILE:C	1.95	0.84
22:BB:215:G:O3'	22:BB:617:U:O2'	1.95	0.84
22:BB:743:A:H5''	24:BD:17:THR:CG2	2.06	0.84
22:BB:886:A:N3	43:BW:167:THR:CB	2.39	0.84
1:CA:1229:A:N3	13:CM:125:ARG:CD	2.39	0.84
1:CA:1343:G:H4'	9:CI:122:ALA:CB	2.06	0.84
1:CA:932:C:H6	7:CG:3:ARG:NH1	1.38	0.84
22:DB:1548:U:H3	22:DB:1556:A:H1'	1.42	0.84
22:DB:1827:G:N2	22:DB:1828:C:N4	2.24	0.84
22:DB:680:U:C5'	33:DM:48:PHE:CD1	2.56	0.84
22:DB:1412:C:OP1	41:DU:81:ARG:NH1	2.09	0.84
43:DW:171:VAL:HG12	43:DW:173:PRO:HD3	1.58	0.84
1:EA:1457:A:OP1	20:ET:27:LYS:CB	2.22	0.84
1:EA:613:C:O4'	4:ED:86:LYS:NZ	2.10	0.84
22:FB:455:A:H2'	38:FR:2:PRO:HD2	1.58	0.84
22:FB:814:G:OP1	26:FF:50:GLN:NE2	2.11	0.84
22:FB:922:A:H62	34:FN:17:ARG:N	1.75	0.84
22:FB:2464:G:O2'	34:FN:122:ALA:C	2.14	0.84
22:FB:969:U:C6	34:FN:21:ASP:CG	2.50	0.84
41:FU:23:GLY:HA3	41:FU:82:LEU:HD22	1.57	0.84
1:GA:1308:U:C5'	13:GM:110:ARG:NH2	2.39	0.84
10:GJ:65:LEU:CB	14:GN:56:VAL:CB	2.44	0.84
1:GA:60:A:H62	20:GT:12:ALA:N	1.75	0.84
22:HB:1150:C:OP1	31:HK:52:GLY:C	2.14	0.84
22:HB:1805:G:C2'	24:HD:52:ARG:HH11	1.90	0.84
22:HB:588:G:H5''	22:HB:2001:G:H5''	1.59	0.84
22:HB:2862:G:H21	48:H2:30:LEU:CD2	1.81	0.84
22:HB:2007:G:C2'	31:HK:103:TYR:HH	1.88	0.84
22:HB:2463:G:N3	34:HN:121:LEU:HD13	1.91	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:IA:958:A:C6	19:IS:56:GLN:HG2	2.12	0.84
1:IA:1058:G:OP1	3:IC:154:SER:CA	2.25	0.84
1:IA:640:A:C2	8:IH:128:GLY:O	2.29	0.84
22:JB:3122:U:N1	53:J7:158:LYS:NZ	2.25	0.84
22:JB:2209:G:O4'	47:J1:40:HIS:N	2.03	0.84
22:JB:348:U:H4'	42:JV:13:LYS:CB	2.07	0.84
22:JB:1810:U:H3'	24:JD:154:GLN:NE2	1.90	0.84
22:JB:1583:A:C5	24:JD:84:TYR:CD1	2.50	0.84
22:JB:2550:C:HO2'	25:JE:144:ARG:HG3	1.40	0.84
26:JF:44:SER:H	38:JR:2:PRO:HG2	1.41	0.84
22:JB:530:G:O2'	40:JT:94:GLU:OE1	1.93	0.84
1:AA:158:G:H1	1:AA:163:C:H42	1.24	0.84
3:AC:23:TYR:CB	10:AJ:94:VAL:HA	2.07	0.84
1:AA:922:G:H4'	5:AE:20:GLN:HE21	1.39	0.84
1:AA:1344:C:C4'	9:AI:120:ARG:HG2	2.03	0.84
10:AJ:46:ARG:NH1	14:AN:59:ALA:CB	2.38	0.84
12:AL:16:GLU:O	12:AL:17:LYS:CG	2.24	0.84
1:AA:980:C:H4'	14:AN:19:ARG:CZ	2.07	0.84
1:AA:323:U:C2'	20:AT:15:ARG:CZ	2.54	0.84
22:BB:1461:C:O2'	22:BB:1561:A:C4'	2.24	0.84
22:BB:1831:G:C8	22:BB:1910:A:C1'	2.60	0.84
22:BB:625:A:C5	26:BF:176:ASN:OD1	2.30	0.84
22:BB:742:G:C8	24:BD:208:LYS:CE	2.59	0.84
6:AF:81:ILE:O	24:BD:137:PRO:HB3	1.77	0.84
22:BB:7:G:O3'	31:BK:79:PHE:CZ	2.30	0.84
1:CA:815:A:C4	1:CA:1529:G:C6	2.64	0.84
1:CA:815:A:C6	1:CA:1529:G:C4	2.65	0.84
1:CA:8:A:O3'	5:CE:122:GLU:OE2	1.95	0.84
1:CA:1117:G:O2'	9:CI:9:ARG:CD	2.25	0.84
22:DB:1636:G:H4'	50:D4:1:MET:CE	2.08	0.84
22:DB:2398:U:C6	51:D5:31:HIS:O	2.30	0.84
53:D7:34:LEU:HG	53:D7:204:TYR:H	1.41	0.84
22:DB:1261:G:N1	38:DR:3:ARG:CZ	2.34	0.84
22:DB:1356:G:O2'	22:DB:1613:G:C8	2.28	0.84
22:DB:2395:C:OP2	33:DM:62:LYS:CA	2.24	0.84
22:DB:2627:G:H22	32:DL:28:GLY:CA	1.60	0.84
22:DB:2662:C:C4	25:DE:21:ILE:CD1	2.59	0.84
22:DB:643:A:O2'	33:DM:66:ASN:CB	2.24	0.84
1:EA:1318:A:O2'	19:ES:10:PHE:CG	2.29	0.84
1:EA:1056:U:O5'	3:EC:162:GLN:HA	1.76	0.84
22:FB:2556:A:H2	48:F2:5:PRO:HD2	1.35	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
53:F7:34:LEU:HG	53:F7:204:TYR:H	1.41	0.84
22:FB:456:C:OP2	38:FR:2:PRO:HD2	1.76	0.84
22:FB:50:G:C2	22:FB:117:A:N3	2.45	0.84
22:FB:2577:A:H5''	24:FD:235:GLY:CA	2.07	0.84
22:FB:756:C:C5'	25:FE:130:GLY:H	1.89	0.84
22:FB:597:U:C1'	26:FF:84:PHE:HE2	1.88	0.84
22:FB:2638:G:C8	28:FH:180:GLY:N	2.40	0.84
22:FB:845:U:H5'	33:FM:41:SER:CB	2.07	0.84
40:FT:50:VAL:H	40:FT:53:ALA:HB3	1.41	0.84
22:FB:346:C:N3	42:FV:79:SER:HB3	1.83	0.84
22:FB:1001:A:C5'	46:FZ:27:LYS:NZ	2.39	0.84
1:GA:192:U:H5'	20:GT:103:GLY:HA3	1.60	0.84
1:GA:831:U:OP1	2:GB:22:LYS:NZ	2.10	0.84
1:GA:1291:G:C4'	7:GG:41:ARG:NH1	2.36	0.84
1:GA:37:U:C3'	12:GL:124:LYS:CD	2.54	0.84
22:HB:2064:U:C5'	47:H1:33:VAL:CG1	2.55	0.84
22:HB:2378:G:O2'	49:H3:20:PHE:HZ	1.58	0.84
22:HB:1613:G:HO3'	22:HB:1614:C:P	1.32	0.84
22:HB:2815:C:O4'	35:HO:92:GLY:HA3	1.76	0.84
22:HB:51:A:H61	22:HB:115:G:H2'	1.40	0.84
22:HB:700:C:OP1	50:H4:2:LYS:HB3	1.76	0.84
22:HB:1805:G:O3'	24:HD:44:ASN:O	1.94	0.84
22:HB:941:U:P	46:HZ:23:LEU:CA	2.53	0.84
1:IA:1187:G:N2	14:IN:60:SER:OG	2.10	0.84
1:IA:1379:G:C5	7:IG:2:ALA:O	2.29	0.84
1:IA:877:C:C4'	8:IH:88:LYS:CG	2.47	0.84
22:JB:2186:G:C8	24:JD:149:PRO:HG2	2.12	0.84
22:JB:2241:U:O4'	22:JB:2307:A:N3	2.10	0.84
22:JB:2399:C:H5''	51:J5:33:ASN:CA	2.07	0.84
22:JB:2839:G:OP1	37:JQ:98:LYS:NZ	2.09	0.84
22:JB:528:G:H5'	40:JT:35:PRO:HB3	1.60	0.84
22:JB:2742:G:N2	28:JH:150:LYS:NZ	2.14	0.84
34:JN:107:VAL:CB	43:JW:112:LEU:CB	2.43	0.84
23:JA:10:U:C4'	36:JP:28:ARG:NH2	2.39	0.84
38:JR:91:ASN:CG	39:JS:10:LYS:HE2	1.97	0.84
1:AA:970:C:C2	13:AM:126:LYS:HD3	2.10	0.84
1:AA:1309:G:H5''	13:AM:88:ARG:NH1	1.92	0.84
1:AA:985:C:C4'	19:AS:55:LYS:HZ1	1.90	0.84
48:B2:15:LYS:HD3	48:B2:16:ARG:H	1.42	0.84
23:BA:96:C:H5''	43:BW:11:LYS:HA	1.57	0.84
22:BB:1197:U:C3'	22:BB:1198:C:P	2.64	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:BB:1548:U:H3	22:BB:1556:A:H1'	1.42	0.84
22:BB:2724:G:N3	28:BH:143:GLN:NE2	2.24	0.84
22:BB:2790:C:O2'	48:B2:43:HIS:CB	2.25	0.84
22:BB:1078:A:N3	30:BJ:23:VAL:CG1	2.40	0.84
22:BB:1142:G:C2'	31:BK:111:LYS:HB2	2.07	0.84
32:BL:76:ARG:HD2	32:BL:90:ARG:HH22	1.42	0.84
22:BB:2365:U:H5''	44:BX:39:ARG:HH11	1.10	0.84
1:CA:1456:A:H5''	20:CT:28:ALA:HB2	1.54	0.84
1:CA:158:G:H1	1:CA:163:C:H42	1.24	0.84
1:CA:673:G:H5''	6:CF:87:ARG:NE	1.91	0.84
1:CA:827:U:H5''	8:CH:21:LYS:HE2	1.56	0.84
1:CA:1239:A:H2'	7:CG:115:ARG:HG3	1.57	0.84
1:CA:691:G:P	11:CK:26:ASN:ND2	2.49	0.84
1:CA:719:C:O2	18:CR:50:ILE:HG13	1.76	0.84
1:CA:349:A:O2'	20:CT:8:ARG:HD3	1.77	0.84
22:DB:1042:G:C5'	52:D6:8:LYS:NZ	2.40	0.84
22:DB:2490:U:H5'	25:DE:122:PHE:CZ	2.11	0.84
22:DB:410:A:OP1	47:D1:58:LYS:HE2	1.76	0.84
22:DB:2751:C:H5''	25:DE:202:ALA:HB2	1.58	0.84
22:DB:2614:A:C5'	25:DE:77:ILE:N	2.38	0.84
1:EA:1055:A:H2	3:EC:156:ARG:CZ	1.91	0.84
1:EA:1263:C:O3'	1:IA:1263:C:H1'	1.73	0.84
2:EB:181:PHE:CD1	5:EE:64:ARG:NH2	2.44	0.84
1:EA:130:A:H61	17:EQ:64:PRO:CD	1.90	0.84
20:ET:13:LEU:HD22	20:ET:17:ARG:HG3	1.60	0.84
22:FB:1743:C:H5'	22:FB:2836:U:C4'	2.07	0.84
22:FB:2040:A:N1	48:F2:2:ALA:N	2.25	0.84
22:FB:643:A:C2	22:FB:2382:C:C1'	2.49	0.84
22:FB:1670:G:C2	35:FO:11:ASN:OD1	2.28	0.84
43:FW:171:VAL:HG12	43:FW:173:PRO:HD3	1.58	0.84
22:FB:73:A:C5'	45:FY:44:ARG:HH22	1.88	0.84
1:GA:1151:A:C5'	10:GJ:41:PRO:HA	2.07	0.84
1:GA:274:A:C4'	17:GQ:14:LYS:HG2	2.06	0.84
22:HB:1338:G:C5	40:HT:107:ILE:CG2	2.34	0.84
22:HB:2265:A:N6	49:H3:38:LYS:NZ	2.25	0.84
22:HB:3197:U:C2	22:HB:2203:G:N1	2.46	0.84
1:IA:483:C:C2'	16:IP:13:HIS:CD2	2.60	0.84
1:IA:644:G:H4'	8:IH:92:ARG:NE	1.91	0.84
1:IA:730:G:N2	15:IO:51:HIS:NE2	2.23	0.84
1:IA:1320:C:C1'	19:IS:73:GLU:OE1	2.25	0.84
22:JB:2002:A:OP2	48:J2:8:LYS:CA	2.25	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:JB:635:C:OP1	51:J5:63:PRO:HG3	1.76	0.84
22:JB:2722:C:H5	52:J6:35:ARG:HH12	0.90	0.84
22:JB:156:G:O3'	22:JB:157:G:P	2.34	0.84
22:JB:2431:C:O3'	22:JB:2432:A:P	2.35	0.84
22:JB:2282:G:C1'	27:JG:129:ASN:OD1	2.24	0.84
32:JL:2:ILE:HG22	32:JL:45:ALA:H	1.43	0.84
46:JZ:4:LYS:HD3	46:JZ:5:LEU:H	1.41	0.84
1:AA:1382:C:C5'	7:AG:79:ARG:CD	2.54	0.84
1:AA:815:A:N1	1:AA:1529:G:C2'	2.35	0.84
1:AA:815:A:O2'	1:AA:1527:C:O4'	1.93	0.84
13:AM:89:GLY:C	13:AM:90:LEU:O	2.16	0.84
22:BB:2399:C:OP1	51:B5:33:ASN:N	2.10	0.84
22:BB:1400:A:C2	22:BB:1414:G:C6	2.66	0.84
22:BB:1989:C:O2'	22:BB:2798:A:N3	2.10	0.84
22:BB:2015:G:C2	22:BB:2551:A:C2	2.65	0.84
22:BB:2613:A:O2'	25:BE:77:ILE:CD1	2.25	0.84
22:BB:2614:A:H5'	25:BE:77:ILE:CD1	2.05	0.84
22:BB:2615:U:H4'	25:BE:79:ARG:HD2	1.57	0.84
33:BM:140:VAL:HG13	33:BM:141:VAL:H	1.40	0.84
1:CA:558:G:C5'	5:CE:121:LYS:CE	2.52	0.84
4:CD:205:GLU:CB	5:CE:101:ILE:HA	2.01	0.84
22:DB:1999:U:O2	48:D2:7:PRO:CG	2.25	0.84
23:DA:52:G:OP1	36:DP:65:THR:HB	1.77	0.84
22:DB:1033:G:C8	31:DK:94:LYS:CD	2.59	0.84
22:DB:224:G:H1'	22:DB:229:G:H22	1.38	0.84
22:DB:2745:A:C2	22:DB:2746:G:C1'	2.59	0.84
22:DB:2745:A:C5	22:DB:2746:G:N9	2.45	0.84
22:DB:1809:G:OP1	24:DD:63:ARG:NE	2.11	0.84
34:DN:131:LYS:HZ2	43:DW:69:VAL:CG2	1.89	0.84
1:EA:1100:C:C6	2:EB:98:LEU:HD11	2.11	0.84
4:ED:57:ARG:CZ	5:EE:107:ARG:HD3	2.07	0.84
7:EG:69:VAL:HG11	7:EG:100:ALA:HA	1.59	0.84
1:EA:589:C:O4'	8:EH:29:SER:HB2	1.77	0.84
22:FB:409:G:H5'	47:F1:39:VAL:HB	1.59	0.84
40:FT:60:ILE:HG22	48:F2:25:LEU:CD2	1.91	0.84
22:FB:410:A:C5'	47:F1:58:LYS:HE2	2.05	0.84
24:FD:112:THR:HG22	24:FD:113:VAL:HG23	1.58	0.84
22:FB:591:G:P	38:FR:32:TYR:HE2	1.99	0.84
22:FB:1007:A:C5'	38:FR:93:LYS:C	2.45	0.84
7:GG:111:ARG:HD3	7:GG:119:ARG:HD2	1.60	0.84
22:HB:1376:C:C4'	47:H1:55:ARG:NH2	2.39	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:HB:2592:U:OP1	48:H2:4:HIS:CD2	2.19	0.84
22:HB:2594:U:O4	48:H2:9:LYS:HD3	1.76	0.84
22:HB:3168:G:O6	53:H7:101:LYS:CD	2.24	0.84
22:HB:1827:G:H2'	22:HB:1828:C:C5	2.13	0.84
22:HB:2192:U:OP1	24:HD:39:LYS:NZ	2.10	0.84
22:HB:2447:G:O2'	34:HN:57:ARG:HG2	1.76	0.84
22:HB:1148:G:C4'	31:HK:133:GLY:HA3	2.07	0.84
22:HB:504:G:C5'	40:HT:25:PHE:CD2	2.59	0.84
1:IA:644:G:O4'	8:IH:92:ARG:HG2	1.78	0.84
22:JB:1307:U:H2'	35:JO:23:ALA:HB1	1.57	0.84
22:JB:588:G:H5''	22:JB:2001:G:H5''	1.59	0.84
22:JB:2558:C:C3'	25:JE:132:LYS:HD3	2.08	0.84
22:JB:3877:A:O4'	53:J7:43:LYS:CD	2.24	0.84
33:JM:140:VAL:HG13	33:JM:141:VAL:H	1.40	0.84
22:JB:221:A:OP2	33:JM:67:ASN:ND2	2.10	0.84
1:AA:1061:G:C5'	10:AJ:58:ASP:HB3	2.06	0.84
1:AA:1131:G:C5'	9:AI:2:GLU:HB3	2.08	0.84
1:AA:1433:A:H1'	37:BQ:116:ARG:HE	1.41	0.84
1:AA:761:G:C5'	17:AQ:102:GLY:CA	2.54	0.84
5:AE:148:VAL:HB	8:AH:107:LEU:CD2	2.05	0.84
10:AJ:65:LEU:HD13	14:AN:56:VAL:HG21	1.58	0.84
1:AA:895:G:O2'	17:AQ:100:LYS:HD3	1.77	0.84
1:AA:761:G:C2	17:AQ:104:LYS:HA	2.11	0.84
1:AA:581:G:O2'	17:AQ:105:ALA:CB	2.25	0.84
6:AF:49:ALA:HB2	18:AR:79:LEU:HA	1.58	0.84
22:BB:677:G:C4'	22:BB:951:G:H5'	2.08	0.84
22:BB:1806:G:O4'	24:BD:52:ARG:NH2	2.09	0.84
22:BB:2726:U:OP1	28:BH:141:VAL:CG2	2.25	0.84
32:BL:86:GLY:CA	37:BQ:84:ALA:CB	2.09	0.84
45:BY:23:LYS:HD3	45:BY:24:GLU:HG3	1.59	0.84
1:CA:597:G:H2'	8:CH:94:TYR:HE1	1.40	0.84
1:CA:436:C:C1'	4:CD:157:LEU:HB2	2.05	0.84
1:CA:7:G:N2	5:CE:90:VAL:CG1	2.39	0.84
22:DB:1238:A:OP2	39:DS:87:ARG:HD3	1.76	0.84
22:DB:2372:A:C1'	33:DM:59:ARG:HG2	1.75	0.84
32:DL:76:ARG:HD2	32:DL:90:ARG:HH22	1.42	0.84
22:DB:2236:U:H4'	44:DX:10:SER:CB	2.08	0.84
1:EA:1226:C:H3'	13:EM:104:ARG:N	1.92	0.84
1:EA:144:G:H1'	1:EA:179:A:H61	1.42	0.84
1:EA:257:G:O3'	20:ET:87:LYS:HE2	1.76	0.84
1:EA:589:C:H5'	8:EH:32:LYS:HE2	1.59	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:EA:758:G:H4'	1:EA:880:C:H1'	1.59	0.84
1:EA:1074:G:H1'	2:EB:104:ASN:HB2	1.58	0.84
22:FB:408:U:O3'	47:F1:10:VAL:HG13	1.77	0.84
22:FB:1364:C:H5'	22:FB:1588:A:H5'	1.58	0.84
22:FB:1548:U:H3	22:FB:1556:A:H1'	1.42	0.84
22:FB:2510:A:H4'	28:FH:157:TYR:HE2	1.40	0.84
22:FB:2736:U:O4	28:FH:67:LEU:HD21	1.76	0.84
22:FB:1291:G:H5'	35:FO:35:GLN:H	1.42	0.84
22:FB:1264:C:O2'	38:FR:36:PHE:HE1	1.60	0.84
7:GG:69:VAL:HG11	7:GG:100:ALA:HA	1.59	0.84
11:GK:23:ALA:HA	11:GK:28:THR:HG23	1.57	0.84
1:GA:750:G:C4'	15:GO:22:THR:HG1	1.83	0.84
22:HB:2365:U:C2	44:HX:37:LEU:HD21	2.12	0.84
27:HG:78:LYS:HG3	27:HG:80:ARG:HH12	1.42	0.84
22:HB:1149:G:H4'	31:HK:56:THR:OG1	1.77	0.84
22:HB:1260:A:H4'	38:HR:2:PRO:HD2	1.59	0.84
1:IA:708:C:C5'	11:IK:20:TYR:HE2	1.89	0.84
47:J1:31:ILE:HG23	47:J1:32:HIS:H	1.43	0.84
22:JB:2008:C:OP1	25:JE:147:PRO:HG3	1.77	0.84
22:JB:2638:G:C5'	28:JH:178:ALA:N	2.33	0.84
1:AA:144:G:H1'	1:AA:179:A:H61	1.43	0.84
1:AA:758:G:H4'	1:AA:880:C:H1'	1.58	0.84
22:BB:1397:A:C5	22:BB:1418:C:N3	2.46	0.84
22:BB:1673:C:H3'	25:BE:136:ARG:NE	1.92	0.84
22:BB:224:G:H1'	22:BB:229:G:H22	1.38	0.84
22:BB:2723:C:H1'	28:BH:150:LYS:CE	2.01	0.84
22:BB:511:A:H2	40:BT:12:LYS:CB	1.64	0.84
22:BB:596:C:C2	33:BM:29:THR:HG22	2.04	0.84
24:BD:246:PRO:HG2	24:BD:247:VAL:H	1.41	0.84
22:BB:1673:C:H5''	25:BE:136:ARG:CB	2.07	0.84
22:BB:2725:C:O2	28:BH:143:GLN:OE1	1.95	0.84
1:CA:144:G:H1'	1:CA:179:A:H61	1.42	0.84
1:CA:546:G:C4	4:CD:2:GLY:HA2	2.11	0.84
23:DA:14:C:C5'	44:DX:53:MET:HB3	2.08	0.84
22:DB:1292:A:OP1	35:DO:33:ARG:HB3	1.77	0.84
22:DB:2598:C:C1'	25:DE:154:LYS:HZ3	1.90	0.84
22:DB:2522:G:H4'	22:DB:2624:G:C6	2.12	0.84
22:DB:308:C:H5'	42:DV:93:ARG:HH21	1.43	0.84
22:DB:565:A:N3	31:DK:74:MET:HG2	1.91	0.84
24:DD:112:THR:HG22	24:DD:113:VAL:HG23	1.58	0.84
22:DB:1812:U:H3	24:DD:200:GLU:HA	1.42	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:DL:2:ILE:HG22	32:DL:45:ALA:H	1.43	0.84
23:DA:30:C:OP1	36:DP:34:SER:CB	2.24	0.84
1:EA:1185:G:H2'	9:EI:110:GLU:HG3	1.58	0.84
1:EA:1494:G:O2'	22:FB:1895:A:O2'	1.94	0.84
1:EA:376:G:H4'	16:EP:28:ARG:HH22	0.67	0.84
22:FB:1238:A:OP1	39:FS:87:ARG:HD2	1.77	0.84
22:FB:1586:A:N6	22:FB:1587:A:N1	2.17	0.84
22:FB:1762:C:H5'	22:FB:1921:A:N7	1.91	0.84
22:FB:2324:G:C4'	49:F3:40:TYR:CE1	2.59	0.84
22:FB:1:G:C2	22:FB:2876:C:N3	2.44	0.84
22:FB:94:C:H2'	45:FY:40:PRO:HG3	1.59	0.84
22:FB:672:C:C1'	26:FF:96:PRO:HD3	2.07	0.84
22:FB:2728:A:H2	28:FH:63:ALA:HA	1.40	0.84
25:FE:181:LEU:CD2	37:FQ:12:LEU:HD23	2.07	0.84
22:FB:498:C:C1'	40:FT:77:ALA:HB2	2.07	0.84
22:FB:340:G:O6	42:FV:28:LYS:HA	1.77	0.84
23:FA:77:G:HO2'	43:FW:31:SER:HB2	1.05	0.84
43:FW:65:LEU:HD22	43:FW:128:ARG:HH11	1.41	0.84
22:FB:60:A:C4'	45:FY:31:GLN:NE2	2.39	0.84
1:GA:108:G:H8	20:GT:12:ALA:O	1.59	0.84
22:HB:2337:A:C2'	51:H5:52:LYS:HZ1	1.79	0.84
22:HB:1167:A:H2	38:HR:48:ARG:HD3	1.02	0.84
22:HB:58:C:C4	22:HB:73:A:C2	2.65	0.84
22:HB:848:A:C5'	22:HB:2337:A:H1'	2.07	0.84
22:HB:1805:G:H2'	24:HD:52:ARG:CZ	2.07	0.84
22:HB:2559:U:H5'	25:HE:132:LYS:CE	2.04	0.84
22:HB:818:G:H4'	33:HM:41:SER:C	1.98	0.84
7:IG:69:VAL:HG11	7:IG:100:ALA:HA	1.59	0.84
1:IA:1380:U:H5	7:IG:3:ARG:CG	1.86	0.84
1:IA:827:U:C4'	8:IH:15:ASN:O	2.25	0.84
1:IA:278:G:C8	17:IQ:95:TYR:HB3	2.10	0.84
48:J2:15:LYS:HD3	48:J2:16:ARG:H	1.42	0.84
22:JB:1200:G:O3'	39:JS:83:ARG:CG	2.18	0.84
22:JB:2810:A:H3'	37:JQ:6:LYS:CB	2.06	0.84
22:JB:954:U:OP1	33:JM:38:LYS:O	1.95	0.84
23:JA:119:G:C5'	36:JP:55:SER:OG	2.24	0.84
22:JB:1003:C:O2	39:JS:88:GLN:CB	2.25	0.84
22:JB:339:U:H2'	42:JV:80:LYS:HE3	1.59	0.84
22:JB:1000:G:N7	46:JZ:10:ILE:HG12	1.91	0.84
13:AM:88:ARG:CB	13:AM:92:HIS:ND1	2.40	0.84
10:AJ:49:VAL:CG1	14:AN:45:ARG:CA	2.53	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:BB:1008:G:H5''	38:BR:92:ARG:HB2	1.60	0.84
22:BB:1437:A:N6	22:BB:1439:G:C2	2.44	0.84
22:BB:2398:U:C5	51:B5:31:HIS:CA	2.59	0.84
22:BB:2856:U:C5'	35:BO:93:GLY:C	2.46	0.84
22:BB:625:A:C5'	26:BF:38:ARG:CD	2.46	0.84
25:BE:176:ARG:NE	37:BQ:19:ASP:CB	2.40	0.84
22:BB:2767:C:H1'	25:BE:61:LYS:HZ1	0.83	0.84
22:BB:1072:U:C4	30:BJ:54:PRO:CB	2.59	0.84
38:BR:94:VAL:HG11	39:BS:10:LYS:CD	2.05	0.84
1:CA:1148:U:H4'	9:CI:66:ARG:HH21	1.05	0.84
1:CA:18:C:P	5:CE:14:ARG:NH1	2.51	0.84
4:CD:196:LEU:HD23	4:CD:197:PRO:HD2	1.57	0.84
1:CA:16:A:O2'	5:CE:16:THR:HA	1.77	0.84
1:CA:277:C:C5'	17:CQ:43:LEU:HD12	1.99	0.84
22:DB:2576:G:H5'	24:DD:241:GLY:HA3	1.60	0.84
22:DB:2662:C:H42	25:DE:21:ILE:HD12	1.36	0.84
1:EA:403:C:P	4:ED:137:SER:HG	1.99	0.84
1:EA:633:G:H5''	17:EQ:28:PRO:HG3	1.59	0.84
1:EA:642:A:H61	8:EH:131:GLY:N	1.75	0.84
22:FB:409:G:C5'	47:F1:39:VAL:HB	2.08	0.84
22:FB:15:G:H1'	48:F2:18:MET:CB	2.07	0.84
22:FB:1364:C:C4'	22:FB:1588:A:H5'	2.07	0.84
22:FB:1636:G:O2'	50:F4:1:MET:HA	1.78	0.84
22:FB:805:G:H4'	22:FB:2055:G:H4'	1.57	0.84
25:FE:176:ARG:CD	37:FQ:20:HIS:HE1	1.83	0.84
22:FB:63:A:N3	41:FU:62:ARG:HG3	1.93	0.84
45:FY:23:LYS:HD3	45:FY:24:GLU:HG3	1.59	0.84
1:AA:191:G:OP2	1:GA:191:G:N7	2.10	0.84
22:HB:2334:C:H4'	44:HX:21:LEU:CG	2.08	0.84
22:HB:2591:C:C4	48:H2:4:HIS:CE1	2.65	0.84
22:HB:3168:G:C5	53:H7:101:LYS:NZ	2.44	0.84
22:HB:511:A:H2'	40:HT:16:GLN:CG	2.08	0.84
32:HL:76:ARG:HD2	32:HL:90:ARG:HH22	1.42	0.84
34:HN:78:LYS:HD3	34:HN:87:GLY:HA2	1.58	0.84
46:HZ:4:LYS:HD3	46:HZ:5:LEU:H	1.41	0.84
1:IA:782:A:H4'	1:IA:1515:C:H4'	0.91	0.84
1:IA:835:U:H5''	18:IR:64:ARG:HH22	1.37	0.84
14:IN:15:LYS:HD3	14:IN:16:PHE:H	1.42	0.84
22:JB:15:G:P	48:J2:20:ARG:O	2.35	0.84
22:JB:1004:A:O4'	39:JS:74:TYR:OH	1.94	0.84
22:JB:2241:U:H3'	44:JX:15:ASP:CG	1.98	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:JB:642:A:H2	22:JB:2393:G:N2	1.72	0.84
22:JB:847:C:O2	22:JB:2337:A:C8	2.30	0.84
22:JB:1781:C:C4'	24:JD:213:ARG:NH2	2.41	0.84
25:JE:184:VAL:HG21	25:JE:188:ILE:HD13	1.60	0.84
22:JB:1174:G:N9	39:JS:89:ASN:N	1.62	0.84
43:JW:48:THR:HG23	43:JW:93:GLU:O	1.77	0.84
47:B1:31:ILE:HG23	47:B1:32:HIS:H	1.43	0.84
22:BB:1805:G:N2	24:BD:51:SER:CA	2.40	0.84
22:BB:238:G:H4'	22:BB:620:G:H5'	1.58	0.84
22:BB:2813:G:O3'	35:BO:46:PRO:CG	2.24	0.84
22:BB:613:A:N1	33:BM:97:ARG:NE	2.25	0.84
22:BB:805:G:H4'	22:BB:2055:G:H4'	1.57	0.84
22:BB:676:G:N2	22:BB:950:G:O3'	2.09	0.84
43:BW:171:VAL:HG12	43:BW:173:PRO:HD3	1.58	0.84
1:CA:588:G:OP1	8:CH:5:PRO:HD3	1.77	0.84
1:CA:9:G:C5'	5:CE:122:GLU:OE1	2.26	0.84
1:CA:279:A:N7	17:CQ:95:TYR:HB3	1.88	0.84
22:DB:1043:A:H5''	52:D6:23:VAL:CG2	2.08	0.84
22:DB:10:A:H62	22:DB:2607:C:C5'	1.89	0.84
22:DB:2692:A:O2'	35:DO:15:SER:HB2	1.76	0.84
1:EA:1320:C:C4	19:ES:36:ARG:HG2	2.10	0.84
8:EH:104:ARG:HB3	8:EH:107:LEU:HB2	1.58	0.84
47:F1:31:ILE:HG23	47:F1:32:HIS:H	1.43	0.84
22:FB:124:A:C4'	50:F4:19:ARG:CZ	2.54	0.84
22:FB:3875:A:O4'	53:F7:43:LYS:CG	2.25	0.84
22:FB:15:G:H2'	48:F2:18:MET:SD	2.17	0.84
22:FB:224:G:H1'	22:FB:229:G:H22	1.38	0.84
22:FB:2662:C:H1'	32:FL:86:GLY:C	1.97	0.84
22:FB:419:G:H5''	53:F7:1:MET:CE	2.08	0.84
1:GA:391:G:C5'	16:GP:8:ARG:NH1	2.38	0.84
4:GD:196:LEU:HD23	4:GD:197:PRO:HD2	1.57	0.84
22:HB:2859:U:N3	48:H2:34:PRO:CG	2.40	0.84
22:HB:2504:G:HO2'	22:HB:2721:A:H2'	1.43	0.84
22:HB:508:G:OP2	40:HT:19:LYS:HD2	1.77	0.84
25:HE:5:LEU:HD22	25:HE:27:LEU:HA	1.60	0.84
32:HL:2:ILE:HG22	32:HL:45:ALA:H	1.43	0.84
4:ID:196:LEU:HD23	4:ID:197:PRO:HD2	1.57	0.84
1:IA:1187:G:C8	9:II:113:LYS:HE2	2.12	0.84
1:IA:684:A:C4'	11:IK:38:ASN:HD22	1.91	0.84
1:IA:363:A:C6	12:IL:30:ALA:CA	2.60	0.84
22:JB:1377:G:C5	47:J1:1:MET:SD	2.63	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:JB:2541:U:O5'	32:JL:23:ARG:CD	2.26	0.84
22:JB:2635:U:H3'	28:JH:181:GLY:CA	2.08	0.84
22:JB:528:G:O2'	40:JT:96:TYR:CA	2.23	0.84
22:JB:93:A:N1	45:JY:41:HIS:NE2	2.25	0.84
22:JB:1834:G:O2'	24:JD:255:LYS:NZ	2.11	0.84
22:JB:2638:G:H8	28:JH:179:THR:CA	1.90	0.84
22:JB:1074:G:N3	30:JJ:88:SER:CA	2.40	0.84
22:JB:1020:A:C4'	38:JR:62:ILE:HD13	2.06	0.84
22:JB:77:C:OP1	45:JY:7:ARG:HG3	1.76	0.84
1:AA:825:G:N3	8:AH:8:ASP:OD1	2.09	0.84
6:AF:48:LEU:HB3	18:AR:77:GLY:O	1.78	0.84
1:AA:1249:C:H1'	9:AI:70:LYS:HG3	1.60	0.84
23:BA:92:G:H1'	34:BN:21:ASP:C	1.98	0.84
22:BB:2768:C:C2'	22:BB:2866:A:C2	2.60	0.84
43:BW:48:THR:CG2	43:BW:129:ARG:O	2.25	0.84
1:CA:15:G:N2	1:CA:1080:A:HO2'	1.73	0.84
1:CA:407:G:H1'	4:CD:116:GLN:HE21	1.06	0.84
1:CA:758:G:H4'	1:CA:880:C:H1'	1.59	0.84
13:CM:87:TYR:CD2	13:CM:91:ARG:HG3	2.12	0.84
1:CA:1014:A:C8	19:CS:34:TRP:CZ3	2.65	0.84
20:CT:13:LEU:HD22	20:CT:17:ARG:HG3	1.60	0.84
22:DB:16:G:O4'	48:D2:18:MET:SD	2.36	0.84
22:DB:2654:A:C4	32:DL:41:ASN:ND2	2.46	0.84
22:DB:2661:G:C2	25:DE:11:MET:O	2.30	0.84
22:DB:1674:C:C5'	25:DE:134:TRP:CB	2.56	0.84
22:DB:498:C:O4'	40:DT:77:ALA:HB2	1.77	0.84
22:DB:915:C:H3'	43:DW:163:ASP:OD1	0.97	0.84
23:DA:77:G:C8	43:DW:29:ASN:OD1	2.30	0.84
1:EA:1056:U:H4'	3:EC:162:GLN:O	1.76	0.84
7:EG:111:ARG:HD3	7:EG:119:ARG:HD2	1.60	0.84
22:FB:2313:G:C2'	36:FP:15:ARG:NH1	2.40	0.84
22:FB:687:G:H5'	26:FF:69:HIS:O	1.78	0.84
24:FD:246:PRO:HG2	24:FD:247:VAL:H	1.41	0.84
1:GA:579:G:HO2'	15:GO:54:ARG:HD2	1.38	0.84
22:HB:846:A:O2'	51:H5:55:TRP:CH2	2.31	0.84
27:FG:179:LYS:NZ	1:IA:1021:G:C5'	2.35	0.84
1:IA:1196:U:OP2	1:IA:1397:C:C5	2.29	0.84
1:IA:66:G:H4'	1:IA:199:G:H4'	1.57	0.84
7:IG:111:ARG:HD3	7:IG:119:ARG:HD2	1.59	0.84
22:JB:2325:A:O2'	49:J3:25:THR:HG21	1.77	0.84
22:JB:474:G:H2'	50:J4:5:TYR:CG	2.13	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:JB:1628:C:C3'	50:J4:6:GLN:HA	2.07	0.84
22:JB:2000:U:O3'	48:J2:8:LYS:CE	2.18	0.84
22:JB:682:G:N2	26:JF:49:ALA:HB2	1.93	0.84
22:JB:2542:U:C5'	32:JL:40:GLY:O	2.25	0.84
1:IA:1463:C:C5	37:JQ:116:ARG:NH1	2.46	0.84
1:AA:1398:A:C2	5:AE:21:ALA:CB	2.58	0.84
1:AA:718:G:O4'	11:AK:116:HIS:O	1.95	0.84
1:AA:1106:G:OP1	3:AC:172:ARG:HG3	1.78	0.84
3:AC:58:GLU:CA	10:AJ:92:THR:HG21	2.08	0.84
1:AA:620:C:C4'	4:AD:138:TYR:CZ	2.57	0.84
5:AE:148:VAL:HG21	8:AH:107:LEU:HB3	1.57	0.84
13:AM:88:ARG:CD	13:AM:92:HIS:CE1	2.60	0.84
1:AA:658:G:H5''	15:AO:8:LYS:HZ2	1.17	0.84
22:BB:2464:G:HO2'	34:BN:123:GLY:HA2	1.42	0.84
22:BB:2859:U:O2	48:B2:53:ASP:OD2	1.66	0.84
22:BB:1806:G:O4'	24:BD:52:ARG:NH1	2.10	0.84
22:BB:596:C:O5'	33:BM:28:LYS:O	1.94	0.84
34:BN:66:TYR:CB	43:BW:117:VAL:CG2	2.53	0.84
1:CA:1254:C:H41	10:CJ:43:ARG:HH12	1.22	0.84
1:CA:1383:C:H5'	7:CG:79:ARG:HH22	0.75	0.84
1:CA:644:G:C1'	8:CH:92:ARG:HD3	2.06	0.84
1:CA:689:C:H3'	11:CK:51:LYS:HZ1	1.43	0.84
1:CA:815:A:C1'	1:CA:1529:G:H1	1.91	0.84
1:CA:980:C:O2	14:CN:21:TYR:CE1	2.30	0.84
22:DB:2350:G:O3'	49:D3:46:LYS:HD2	1.78	0.84
22:DB:115:G:H5''	50:D4:19:ARG:HH21	1.38	0.84
22:DB:1750:A:C2	22:DB:2675:U:O2	2.31	0.84
22:DB:2856:U:O4'	35:DO:93:GLY:HA2	1.72	0.84
22:DB:477:A:H5'	50:D4:12:ARG:HH22	1.40	0.84
22:DB:805:G:H4'	22:DB:2055:G:H4'	1.57	0.84
24:DD:246:PRO:HG2	24:DD:247:VAL:H	1.40	0.84
22:DB:2728:A:H1'	28:DH:67:LEU:CD2	1.97	0.84
30:DJ:21:PRO:HB2	30:DJ:22:PRO:HD3	1.56	0.84
31:DK:126:VAL:HG22	31:DK:127:ILE:H	1.41	0.84
32:DL:91:PHE:CD1	37:DQ:79:ARG:HG3	2.13	0.84
22:DB:1992:G:C5'	40:DT:62:ARG:HA	2.06	0.84
45:DY:23:LYS:HD3	45:DY:24:GLU:HG3	1.60	0.84
1:EA:158:G:H1	1:EA:163:C:H42	1.25	0.84
1:EA:589:C:O2'	8:EH:29:SER:HA	1.77	0.84
1:EA:643:C:O2	8:EH:132:GLU:CA	2.26	0.84
1:EA:529:G:N2	12:EL:51:ALA:HB1	1.70	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:FB:2003:A:H62	48:F2:9:LYS:CD	1.90	0.84
22:FB:2551:A:OP1	22:FB:2553:G:H4'	1.78	0.84
22:FB:2540:A:O2'	32:FL:23:ARG:HB3	1.78	0.84
25:FE:19:ARG:NH1	37:FQ:65:SER:OG	2.11	0.84
43:FW:51:LEU:CD1	43:FW:128:ARG:CD	2.53	0.84
22:FB:2311:U:C5'	44:FX:70:ILE:O	2.26	0.84
1:GA:66:G:H4'	1:GA:199:G:H4'	1.57	0.84
1:GA:375:U:H4'	16:GP:17:TYR:HE2	1.40	0.84
5:GE:33:VAL:HG12	5:GE:112:LEU:HD12	1.58	0.84
1:GA:658:G:H5''	15:GO:8:LYS:HZ1	1.39	0.84
1:GA:735:C:C2	18:GR:75:ILE:HG21	2.13	0.84
22:HB:1363:C:O2	22:HB:1588:A:H1'	1.78	0.84
22:HB:1487:C:C2	22:HB:1536:G:N2	2.46	0.84
22:HB:2049:C:H1'	22:HB:2428:U:H3	1.39	0.84
22:HB:2062:U:HO2'	47:H1:32:HIS:CE1	1.93	0.84
22:HB:759:C:C3'	48:H2:2:ALA:CA	2.55	0.84
32:HL:88:THR:O	37:HQ:81:PHE:CG	2.31	0.84
22:HB:638:A:H62	33:HM:109:LEU:HD11	1.43	0.84
1:IA:1441:G:N1	20:IT:27:LYS:HE3	1.93	0.84
10:IJ:47:PHE:HB2	10:IJ:63:PHE:HB2	1.58	0.84
1:IA:751:U:C3'	15:IO:69:TYR:HH	1.89	0.84
1:IA:452:A:HO2'	16:IP:72:ARG:HG2	1.38	0.84
22:JB:2722:C:OP2	52:J6:35:ARG:HB3	1.78	0.84
53:J7:34:LEU:HG	53:J7:204:TYR:H	1.41	0.84
22:JB:1172:U:C3'	39:JS:22:VAL:CG1	2.55	0.84
22:JB:3176:A:C5	53:J7:162:GLN:NE2	2.42	0.84
22:JB:2568:A:H5''	24:JD:226:MET:SD	2.17	0.84
22:JB:1791:C:H5'	24:JD:263:ARG:NH1	1.93	0.84
22:JB:1808:C:C4	24:JD:65:ILE:CG2	2.60	0.84
22:JB:71:A:N1	45:JY:58:ALA:HB2	1.90	0.84
1:AA:1028:C:H2'	1:AA:1029:U:H4'	1.60	0.83
1:AA:265:G:H1'	17:AQ:64:PRO:C	1.97	0.83
1:AA:264:U:O2	17:AQ:64:PRO:N	2.11	0.83
22:BB:2398:U:O5'	51:B5:31:HIS:O	1.96	0.83
1:AA:1495:U:C4'	22:BB:1895:A:C2	2.61	0.83
22:BB:2725:C:O3'	28:BH:141:VAL:HG22	1.78	0.83
22:BB:2769:C:H2'	22:BB:2867:G:C6	2.13	0.83
22:BB:51:A:H61	22:BB:115:G:H2'	1.40	0.83
32:BL:90:ARG:NE	32:BL:91:PHE:H	1.76	0.83
38:BR:3:ARG:HE	38:BR:4:ALA:H	1.22	0.83
22:BB:1235:C:H5	39:BS:71:ILE:HG21	1.42	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:1309:G:OP1	13:CM:88:ARG:CD	2.26	0.83
1:CA:15:G:N2	5:CE:18:ARG:C	2.32	0.83
7:CG:111:ARG:HD3	7:CG:119:ARG:HD2	1.60	0.83
22:DB:2394:G:C2'	33:DM:64:GLY:HA2	2.07	0.83
22:DB:3123:G:H1'	53:D7:166:GLN:NE2	1.93	0.83
22:DB:2738:A:O2'	28:DH:64:LEU:HD12	1.77	0.83
22:DB:915:C:O5'	43:DW:163:ASP:OD1	1.96	0.83
13:EM:89:GLY:HA2	13:EM:92:HIS:HE2	1.39	0.83
1:EA:667:G:H21	15:EO:42:HIS:CE1	1.96	0.83
22:FB:2074:U:C2	47:F1:42:PHE:HB3	2.11	0.83
22:FB:1827:G:H2'	22:FB:1828:C:H5	1.41	0.83
22:FB:2540:A:O2'	32:FL:23:ARG:CG	2.26	0.83
22:FB:603:C:C2	22:FB:677:G:N1	2.38	0.83
25:FE:17:ASN:CB	37:FQ:87:LEU:HD11	2.07	0.83
22:FB:2760:G:H4'	31:FK:149:LYS:CE	2.08	0.83
34:FN:27:TYR:CD1	43:FW:73:LYS:CB	2.57	0.83
22:FB:1169:C:O2'	46:FZ:30:ASP:OD1	1.96	0.83
1:GA:144:G:H1'	1:GA:179:A:H61	1.42	0.83
1:GA:411:A:N6	1:GA:428:G:H1	1.75	0.83
1:GA:758:G:H4'	1:GA:880:C:H1'	1.58	0.83
1:GA:1060:C:H1'	10:GJ:56:HIS:HB3	1.60	0.83
53:H7:34:LEU:HG	53:H7:204:TYR:H	1.41	0.83
22:HB:2310:G:HO2'	44:HX:70:ILE:HG22	0.70	0.83
22:HB:2463:G:OP1	34:HN:44:LYS:NZ	2.11	0.83
24:HD:246:PRO:HG2	24:HD:247:VAL:H	1.41	0.83
30:HJ:129:GLY:HA3	30:HJ:132:ARG:HH11	1.43	0.83
32:HL:119:ARG:HH22	37:HQ:43:ASN:C	1.79	0.83
22:HB:887:G:N2	43:HW:165:GLU:O	2.11	0.83
1:IA:1206:G:H4'	3:IC:193:TYR:CA	2.05	0.83
1:IA:637:G:O5'	17:IQ:2:PRO:CD	2.24	0.83
22:JB:114:C:O2	22:JB:124:A:N3	2.11	0.83
22:JB:1469:U:H2'	35:JO:63:ARG:HH12	1.34	0.83
22:JB:1289:A:OP2	22:JB:1662:G:C4	2.30	0.83
22:JB:1888:C:C2	22:JB:1913:G:C6	2.65	0.83
22:JB:838:A:H5''	22:JB:2407:G:N7	1.92	0.83
22:JB:2573:C:H41	24:JD:239:ARG:NE	1.76	0.83
22:JB:2753:C:H5''	25:JE:164:ARG:HG2	1.58	0.83
22:JB:3093:C:H5'	29:JI:24:TYR:HD2	0.68	0.83
22:JB:1996:A:O4'	40:JT:117:ILE:CG2	2.25	0.83
23:JA:14:C:C4	44:JX:52:GLY:N	2.45	0.83
1:AA:1382:C:O2	7:AG:77:SER:OG	1.95	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:136:C:H1'	16:AP:63:GLY:HA3	1.59	0.83
22:BB:17:G:OP1	48:B2:13:LYS:NZ	2.11	0.83
22:BB:1809:G:C5'	24:BD:63:ARG:NH2	2.34	0.83
22:BB:1018:C:O3'	31:BK:136:PRO:HA	1.78	0.83
25:BE:19:ARG:HD2	37:BQ:86:PRO:CD	2.07	0.83
37:BQ:26:ASP:HB2	37:BQ:93:ILE:HG12	1.58	0.83
22:BB:1325:U:H6	41:BU:61:LYS:HE2	1.01	0.83
1:CA:1028:C:H2'	1:CA:1029:U:H4'	1.60	0.83
1:CA:753:A:O2'	8:CH:1:MET:N	2.11	0.83
14:CN:15:LYS:HD3	14:CN:16:PHE:H	1.42	0.83
22:DB:1636:G:H4'	50:D4:1:MET:HE3	1.59	0.83
22:DB:1042:G:H4'	52:D6:6:SER:C	1.99	0.83
22:DB:1164:C:O4'	38:DR:77:SER:OG	1.95	0.83
22:DB:51:A:H61	22:DB:115:G:H2'	1.40	0.83
22:DB:545:C:C2'	38:DR:53:LYS:CE	2.44	0.83
1:EA:546:G:C4	4:ED:2:GLY:HA2	2.13	0.83
1:EA:653:A:H62	8:EH:32:LYS:HZ2	1.26	0.83
1:EA:1180:A:H5''	9:EI:103:THR:HG23	1.60	0.83
22:FB:124:A:N9	50:F4:19:ARG:HB2	1.93	0.83
22:FB:1162:A:H1'	38:FR:78:THR:HG21	1.55	0.83
22:FB:2684:A:N1	35:FO:60:LEU:CD2	2.41	0.83
22:FB:51:A:H61	22:FB:115:G:H2'	1.40	0.83
22:FB:777:A:P	24:FD:211:ARG:NH2	2.50	0.83
22:FB:892:A:N6	22:FB:912:A:C5	2.46	0.83
22:FB:2035:G:C4'	25:FE:142:GLY:HA3	2.07	0.83
22:FB:458:G:H5'	38:FR:5:LYS:HZ1	1.42	0.83
22:FB:64:C:H42	41:FU:65:VAL:CG2	1.91	0.83
1:GA:264:U:C2'	17:GQ:64:PRO:C	2.45	0.83
1:GA:377:G:P	16:GP:5:ARG:HH11	2.00	0.83
13:GM:88:ARG:HB3	13:GM:98:VAL:HG11	1.57	0.83
22:HB:1374:G:H4'	47:H1:53:GLU:HG2	1.59	0.83
22:HB:419:G:H3'	53:H7:197:GLU:CD	1.99	0.83
22:HB:1829:C:O2'	22:HB:1910:A:H1'	1.77	0.83
22:HB:591:G:C5'	38:HR:11:ARG:NH2	2.04	0.83
22:HB:699:G:H1'	50:H4:5:TYR:O	1.76	0.83
22:HB:1805:G:C3'	24:HD:52:ARG:HH11	1.91	0.83
22:HB:2550:C:HO2'	25:HE:144:ARG:HG3	1.05	0.83
23:HA:44:C:O2'	27:HG:63:GLN:NE2	2.11	0.83
32:HL:87:SER:CB	37:HQ:83:PHE:N	2.40	0.83
1:IA:935:A:N1	7:IG:3:ARG:NH2	2.25	0.83
22:JB:410:A:C5'	47:J1:58:LYS:CD	2.54	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:JB:1861:G:C6	53:J7:196:VAL:HG12	2.12	0.83
22:JB:224:G:N1	51:J5:8:LYS:HG2	1.93	0.83
22:JB:2370:G:O3'	22:JB:2371:A:P	2.35	0.83
22:JB:2490:U:O2'	25:JE:138:PRO:HA	1.77	0.83
22:JB:953:G:C5'	33:JM:38:LYS:HA	2.08	0.83
23:JA:14:C:N3	44:JX:52:GLY:CA	2.41	0.83
1:AA:1383:C:H5'	7:AG:79:ARG:HH21	1.43	0.83
1:AA:411:A:N6	1:AA:428:G:H1	1.75	0.83
1:AA:1108:G:P	3:AC:176:HIS:HB2	2.17	0.83
22:BB:123:A:H1'	50:B4:10:ARG:NH2	1.92	0.83
22:BB:1805:G:C4'	24:BD:44:ASN:C	2.45	0.83
22:BB:23:G:H1'	40:BT:96:TYR:CZ	2.13	0.83
22:BB:1681:A:H2	22:BB:2706:U:H1'	1.42	0.83
22:BB:47:G:N2	22:BB:154:U:OP2	2.11	0.83
22:BB:505:G:O2'	40:BT:82:ASN:HB2	1.77	0.83
22:BB:6:A:C5'	31:BK:162:LYS:NZ	2.41	0.83
22:BB:742:G:N7	24:BD:208:LYS:CD	2.41	0.83
22:BB:2394:G:C5'	33:BM:63:ARG:O	2.25	0.83
46:BZ:4:LYS:HD3	46:BZ:5:LEU:H	1.41	0.83
1:CA:1298:C:C4	7:CG:114:ARG:CG	2.61	0.83
1:CA:407:G:N3	4:CD:116:GLN:NE2	2.25	0.83
5:CE:33:VAL:HG12	5:CE:112:LEU:HD12	1.58	0.83
1:CA:254:G:C5	17:CQ:16:GLN:HB3	2.13	0.83
22:DB:2324:G:H5'	49:D3:40:TYR:CD1	2.13	0.83
22:DB:1043:A:C3'	52:D6:23:VAL:HG23	2.08	0.83
22:DB:1234:C:H5'	39:DS:68:LYS:HZ3	1.30	0.83
22:DB:123:A:P	50:D4:14:LYS:HB2	2.12	0.83
22:DB:1263:G:N3	38:DR:13:ARG:NH2	2.26	0.83
32:DL:113:PRO:CD	37:DQ:75:GLU:C	2.46	0.83
34:DN:127:PRO:CD	43:DW:74:ARG:NH1	2.40	0.83
22:DB:869:C:P	44:DX:57:HIS:HB3	2.18	0.83
1:EA:794:A:O2'	1:EA:1521:G:H4'	1.78	0.83
1:EA:411:A:N6	1:EA:428:G:H1	1.75	0.83
1:EA:538:G:H5''	12:EL:114:LYS:CA	2.08	0.83
1:EA:583:A:O4'	17:EQ:90:ILE:HG22	1.77	0.83
1:EA:598:U:O2'	8:EH:95:VAL:HG21	1.77	0.83
1:EA:826:C:O2	8:EH:15:ASN:OD1	1.96	0.83
1:EA:583:A:H4'	17:EQ:90:ILE:HB	1.57	0.83
6:EF:49:ALA:CB	18:ER:80:PRO:CD	2.51	0.83
49:F3:24:THR:CG2	51:F5:35:GLY:HA2	2.08	0.83
22:FB:58:C:O4'	22:FB:72:A:N6	2.10	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:FB:590:C:OP1	38:FR:32:TYR:CA	2.27	0.83
22:FB:674:U:OP1	26:FF:93:TYR:CZ	2.31	0.83
22:FB:845:U:H5'	33:FM:41:SER:HB2	1.60	0.83
43:FW:64:ALA:C	43:FW:128:ARG:HH12	1.72	0.83
1:GA:158:G:H1	1:GA:163:C:H42	1.24	0.83
1:GA:377:G:C5'	16:GP:5:ARG:NH1	2.41	0.83
8:GH:24:THR:HG23	8:GH:61:VAL:HB	1.60	0.83
1:GA:60:A:H62	20:GT:12:ALA:HB2	1.10	0.83
22:HB:1999:U:HO2'	48:H2:8:LYS:HG2	1.39	0.83
22:HB:1135:C:C2'	52:H6:4:ARG:C	2.47	0.83
22:HB:2577:A:P	24:HD:235:GLY:O	2.36	0.83
22:HB:6:A:N6	22:HB:2871:U:O4	2.09	0.83
22:HB:3093:C:C2	22:HB:2181:A:N6	2.46	0.83
22:HB:597:U:C1'	26:HF:84:PHE:CZ	2.61	0.83
34:HN:28:VAL:CG1	43:HW:117:VAL:O	2.26	0.83
1:IA:411:A:N6	1:IA:428:G:H1	1.75	0.83
22:JB:2375:G:H22	51:J5:32:GLN:HE22	1.24	0.83
23:JA:44:C:C4'	27:JG:66:ILE:HD11	2.08	0.83
22:JB:2049:C:H1'	22:JB:2428:U:H3	1.39	0.83
22:JB:2722:C:OP2	52:J6:35:ARG:CB	2.26	0.83
22:JB:953:G:H5'	33:JM:38:LYS:HA	1.61	0.83
33:JM:61:PRO:CA	51:J5:27:SER:OG	2.23	0.83
22:JB:62:U:C4'	41:JU:73:ASN:OD1	2.09	0.83
1:AA:1103:C:C5'	2:AB:98:LEU:HD13	2.07	0.83
1:AA:980:C:O2	14:AN:21:TYR:CZ	2.30	0.83
1:AA:1231:G:N3	13:AM:126:LYS:HG2	1.93	0.83
14:AN:15:LYS:HD3	14:AN:16:PHE:H	1.42	0.83
22:BB:1887:G:H22	22:BB:1912:G:H4'	1.41	0.83
22:BB:2862:G:H4'	48:B2:32:GLU:CD	1.97	0.83
22:BB:511:A:N1	40:BT:12:LYS:CB	2.41	0.83
23:BA:78:A:C4	43:BW:22:VAL:HG21	2.09	0.83
22:BB:2333:A:O2'	44:BX:32:LYS:HG2	1.79	0.83
1:CA:814:A:H2	1:CA:1526:G:HO2'	0.84	0.83
7:CG:69:VAL:HG11	7:CG:100:ALA:HA	1.59	0.83
1:CA:753:A:C2	8:CH:1:MET:O	2.32	0.83
10:CJ:62:HIS:HB2	14:CN:59:ALA:HB3	1.58	0.83
22:DB:1021:A:OP1	38:DR:66:ASN:ND2	2.09	0.83
22:DB:2522:G:O2'	22:DB:2624:G:N7	2.12	0.83
22:DB:2615:U:H4'	25:DE:79:ARG:HD2	0.99	0.83
22:DB:2708:U:H5'	25:DE:21:ILE:CD1	2.03	0.83
22:DB:424:G:OP2	22:DB:2386:G:P	2.36	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:DB:476:G:OP1	50:D4:5:TYR:OH	1.95	0.83
22:DB:566:U:H5'	31:DK:74:MET:CE	2.01	0.83
22:DB:907:U:H5''	43:DW:143:ILE:HD11	0.85	0.83
22:DB:910:U:C5	22:DB:911:A:H8	1.95	0.83
33:DM:140:VAL:HG13	33:DM:141:VAL:H	1.40	0.83
22:DB:922:A:H62	34:DN:16:GLY:HA3	1.40	0.83
1:EA:1028:C:H2'	1:EA:1029:U:H4'	1.60	0.83
1:EA:1104:G:P	2:EB:111:ARG:O	2.36	0.83
1:EA:259:G:P	20:ET:83:ARG:HH12	2.00	0.83
1:EA:621:A:C5'	4:ED:139:ARG:HH21	1.91	0.83
1:EA:933:G:OP2	7:EG:2:ALA:N	2.12	0.83
1:EA:1114:C:H5'	14:EN:57:ARG:HH22	1.42	0.83
22:FB:2350:G:H4'	49:F3:46:LYS:HD3	1.59	0.83
22:FB:642:A:N6	22:FB:2394:G:H21	1.75	0.83
22:FB:529:U:P	40:FT:39:ARG:CG	2.64	0.83
22:FB:574:C:C5'	39:FS:82:ARG:NH1	2.21	0.83
25:FE:181:LEU:HD22	37:FQ:12:LEU:HD23	1.60	0.83
22:FB:597:U:C1'	26:FF:84:PHE:CE2	2.54	0.83
22:FB:673:G:OP1	26:FF:93:TYR:HA	1.78	0.83
27:FG:107:GLY:HA2	27:FG:137:ILE:HG13	1.60	0.83
22:FB:2284:U:C2	27:FG:152:MET:HE3	2.13	0.83
22:FB:1018:C:H1'	31:FK:134:MET:HG3	0.87	0.83
34:FN:35:LEU:HG	34:FN:128:ILE:HA	1.57	0.83
32:FL:91:PHE:CE1	37:FQ:79:ARG:HD2	2.12	0.83
41:FU:88:ILE:HG23	41:FU:89:GLU:H	1.44	0.83
43:FW:51:LEU:HD21	43:FW:129:ARG:O	1.77	0.83
22:FB:2309:G:H1'	44:FX:36:ILE:HD11	1.59	0.83
1:GA:1071:C:H4'	3:GC:167:TRP:CH2	2.13	0.83
1:GA:267:C:P	17:GQ:67:LYS:HE3	2.17	0.83
1:GA:1250:A:C5'	9:GI:68:GLY:CA	2.56	0.83
1:AA:180:U:O4'	20:GT:100:ILE:C	2.08	0.83
47:H1:31:ILE:HG23	47:H1:32:HIS:H	1.43	0.83
22:HB:1321:A:HO2'	50:H4:7:PRO:HG3	1.38	0.83
22:HB:602:C:C1'	51:H5:2:PRO:CD	2.57	0.83
22:HB:2463:G:O4'	34:HN:47:GLN:OE1	1.79	0.83
22:HB:600:G:H21	51:H5:2:PRO:HG2	1.43	0.83
22:HB:637:G:H21	33:HM:74:VAL:CG1	1.90	0.83
22:HB:8:A:C2	22:HB:2869:U:N3	2.46	0.83
37:HQ:26:ASP:HB2	37:HQ:93:ILE:HG12	1.58	0.83
22:HB:1166:A:P	38:HR:55:ARG:NH2	2.52	0.83
22:HB:1225:G:C2	40:HT:12:LYS:NZ	2.35	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:IA:1112:C:N4	3:IC:176:HIS:O	2.11	0.83
1:IA:158:G:H1	1:IA:163:C:H42	1.24	0.83
1:IA:814:A:C1'	1:IA:1511:G:O4'	2.26	0.83
11:IK:23:ALA:HA	11:IK:28:THR:HG23	1.58	0.83
22:JB:1379:A:C5'	47:J1:1:MET:HE2	1.96	0.83
22:JB:124:A:N6	50:J4:18:PHE:O	2.11	0.83
22:JB:1912:G:O3'	22:JB:1913:G:OP2	1.96	0.83
22:JB:58:C:OP2	41:JU:75:ARG:HD3	1.79	0.83
24:JD:246:PRO:HG2	24:JD:247:VAL:H	1.41	0.83
22:JB:2637:C:C6	28:JH:179:THR:HG23	2.12	0.83
1:AA:1381:U:O2'	7:AG:79:ARG:HB2	1.79	0.83
1:AA:940:C:O4'	7:AG:29:LYS:NZ	2.12	0.83
7:AG:69:VAL:HG11	7:AG:100:ALA:HA	1.59	0.83
1:AA:1347:G:H8	9:AI:107:ARG:CB	1.86	0.83
1:AA:275:G:O4'	17:AQ:15:MET:HE2	1.78	0.83
22:BB:464:G:N1	50:B4:39:ARG:NH2	2.26	0.83
22:BB:3127:G:H4'	53:B7:24:ARG:NH1	1.92	0.83
22:BB:1134:C:H1'	52:B6:21:GLY:C	1.98	0.83
22:BB:1401:G:C6	22:BB:1412:C:N4	2.46	0.83
22:BB:2463:G:N3	34:BN:121:LEU:HD11	1.93	0.83
22:BB:1139:A:H62	22:BB:2469:G:P	2.00	0.83
22:BB:2766:U:C5'	25:BE:64:GLN:C	2.46	0.83
22:BB:2789:U:H2'	48:B2:42:SER:HB2	0.84	0.83
22:BB:540:G:C8	22:BB:2018:G:H4'	2.12	0.83
22:BB:2739:G:H21	28:BH:139:GLN:HG3	1.03	0.83
32:BL:92:ASP:OD2	37:BQ:79:ARG:NH2	2.11	0.83
34:BN:99:LYS:HB3	43:BW:74:ARG:HG2	1.59	0.83
41:BU:88:ILE:HG23	41:BU:89:GLU:H	1.44	0.83
1:CA:558:G:C4'	5:CE:121:LYS:CE	2.56	0.83
1:CA:1092:A:H4'	7:CG:4:ARG:HE	1.36	0.83
8:CH:24:THR:HG23	8:CH:61:VAL:HB	1.60	0.83
1:CA:1333:A:O2'	13:CM:114:ARG:NH2	2.12	0.83
47:D1:31:ILE:HG23	47:D1:32:HIS:H	1.43	0.83
23:DA:78:A:O4'	43:DW:31:SER:OG	1.97	0.83
22:DB:2786:G:H4'	25:DE:59:VAL:HA	1.59	0.83
22:DB:228:A:H61	22:DB:399:G:H1	1.26	0.83
1:CA:899:C:N4	24:DD:4:LYS:HZ2	1.76	0.83
22:DB:625:A:C4	26:DF:176:ASN:OD1	2.32	0.83
35:DO:95:THR:HG21	35:DO:113:ILE:HG23	1.60	0.83
1:EA:779:C:H1'	11:EK:120:ARG:NE	1.92	0.83
3:EC:19:GLU:OE2	14:EN:52:GLN:NE2	2.11	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:EH:91:ARG:HH22	17:EQ:34:LYS:HZ2	1.27	0.83
1:EA:130:A:N7	17:EQ:63:ARG:CG	2.42	0.83
22:FB:123:A:O5'	50:F4:14:LYS:HG3	1.77	0.83
22:FB:3121:G:O2'	53:F7:162:GLN:NE2	2.11	0.83
22:FB:1406:A:H61	41:FU:15:LYS:HG2	0.69	0.83
22:FB:1479:G:O2'	22:FB:1543:G:O2'	1.96	0.83
22:FB:2542:U:OP1	32:FL:25:LEU:CD2	2.25	0.83
22:FB:228:A:H61	22:FB:399:G:H1	1.26	0.83
22:FB:596:C:H5''	33:FM:28:LYS:HZ1	1.37	0.83
22:FB:2510:A:OP1	28:FH:175:LYS:HG3	1.78	0.83
22:FB:468:A:P	41:FU:67:ARG:CG	2.66	0.83
22:FB:869:C:HO2'	44:FX:24:LYS:HG2	1.40	0.83
1:GA:1392:G:N3	1:GA:1502:A:H4'	1.87	0.83
1:GA:1373:G:O2'	7:GG:31:MET:HE1	1.77	0.83
1:GA:668:G:O2'	15:GO:45:VAL:HG11	1.78	0.83
16:GP:4:ILE:HB	16:GP:66:PRO:HA	1.61	0.83
22:HB:2064:U:OP1	47:H1:33:VAL:CG1	2.26	0.83
22:HB:1377:G:H5''	47:H1:40:HIS:HE1	1.39	0.83
22:HB:1996:A:H4'	40:HT:116:ILE:CG2	2.08	0.83
22:HB:10:A:C6	22:HB:2608:A:C4	2.65	0.83
22:HB:64:C:O2	22:HB:88:G:N2	2.08	0.83
22:HB:1817:U:P	24:HD:223:GLY:HA2	2.19	0.83
25:HE:184:VAL:HG21	25:HE:188:ILE:HD13	1.60	0.83
32:HL:90:ARG:O	37:HQ:79:ARG:HD3	1.77	0.83
22:HB:1019:U:H4'	38:HR:59:ARG:HG2	1.60	0.83
22:HB:917:U:O2'	43:HW:118:HIS:CE1	2.31	0.83
1:IA:620:C:C5'	4:ID:138:TYR:CE1	2.61	0.83
1:IA:953:G:O3'	13:IM:124:PRO:CG	2.27	0.83
12:IL:11:VAL:HG22	17:IQ:34:LYS:HD3	1.19	0.83
22:JB:2209:G:C1'	47:J1:40:HIS:O	2.26	0.83
22:JB:1781:C:OP1	24:JD:220:HIS:CA	2.26	0.83
22:JB:594:G:OP1	26:JF:82:VAL:CB	2.18	0.83
32:JL:90:ARG:NE	32:JL:91:PHE:H	1.76	0.83
22:JB:592:G:C4'	38:JR:5:LYS:CD	2.57	0.83
22:JB:1200:G:C3'	39:JS:83:ARG:HE	1.92	0.83
22:JB:339:U:C4'	42:JV:77:HIS:H	1.90	0.83
1:AA:8:A:C8	5:AE:107:ARG:NH2	2.46	0.83
10:AJ:64:GLU:CD	14:AN:57:ARG:HB3	1.97	0.83
1:AA:276:G:H5''	17:AQ:43:LEU:CD2	2.08	0.83
33:BM:63:ARG:HD3	51:B5:8:LYS:HD3	1.59	0.83
22:BB:1166:A:N1	22:BB:1168:G:C8	2.46	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:BB:115:G:OP2	22:BB:117:A:H3'	1.78	0.83
22:BB:157:G:OP1	50:B4:32:ALA:CB	2.26	0.83
22:BB:1804:U:C1'	24:BD:46:ARG:NE	2.39	0.83
22:BB:2603:G:H1'	48:B2:22:HIS:HA	1.61	0.83
22:BB:545:C:O2'	38:BR:53:LYS:HE3	1.78	0.83
22:BB:1673:C:H5''	25:BE:136:ARG:HG2	0.85	0.83
22:BB:2646:C:C2'	28:BH:111:HIS:HD1	1.87	0.83
1:CA:66:G:H4'	1:CA:199:G:H4'	1.57	0.83
1:CA:280:C:H5	17:CQ:88:TYR:HE1	1.24	0.83
1:CA:411:A:N6	1:CA:428:G:H1	1.75	0.83
1:CA:6:G:O6	5:CE:95:ALA:N	2.11	0.83
22:DB:2039:G:O2'	48:D2:5:PRO:CD	2.23	0.83
22:DB:565:A:C2	31:DK:74:MET:CB	2.60	0.83
22:DB:1834:G:C4'	24:DD:244:ARG:HG3	2.08	0.83
32:DL:90:ARG:NE	32:DL:91:PHE:H	1.76	0.83
22:DB:2357:A:H5''	36:DP:26:ARG:NH2	1.91	0.83
34:DN:131:LYS:NZ	43:DW:43:PHE:CG	2.44	0.83
1:EA:928:G:H4'	1:EA:1533:C:H5	1.40	0.83
1:EA:194:C:O2'	20:ET:68:LYS:HD3	1.78	0.83
1:EA:238:G:OP2	17:EQ:40:LYS:CE	2.26	0.83
1:EA:538:G:H4'	12:EL:114:LYS:HE2	0.84	0.83
1:EA:520:A:O2'	12:EL:73:GLU:HB3	1.79	0.83
22:FB:222:G:OP2	51:F5:7:HIS:CG	2.32	0.83
23:FA:116:C:C4'	36:FP:50:THR:CB	2.38	0.83
22:FB:1269:G:H21	26:FF:76:THR:CB	1.91	0.83
22:FB:1399:C:N3	22:FB:1414:G:N1	2.26	0.83
22:FB:15:G:H2'	48:F2:18:MET:CG	2.06	0.83
22:FB:644:A:H1'	22:FB:2382:C:O2'	1.78	0.83
22:FB:2498:U:H5'	22:FB:2546:G:H21	1.40	0.83
22:FB:2590:U:N3	48:F2:2:ALA:CB	2.40	0.83
22:FB:413:G:C8	47:F1:63:PHE:CD1	2.66	0.83
22:FB:1256:C:C1'	33:FM:15:ASP:HA	2.07	0.83
22:FB:965:G:P	34:FN:19:THR:H	2.00	0.83
35:FO:95:THR:HG21	35:FO:113:ILE:HG23	1.60	0.83
10:GJ:47:PHE:HB2	10:GJ:63:PHE:HB2	1.58	0.83
22:HB:3168:G:O6	53:H7:101:LYS:NZ	2.11	0.83
22:HB:228:A:H61	22:HB:399:G:H1	1.26	0.83
22:HB:596:C:N1	33:HM:29:THR:HG21	1.94	0.83
22:HB:1805:G:H4'	24:HD:44:ASN:C	1.98	0.83
22:HB:2826:C:C5'	35:HO:61:HIS:HD1	1.58	0.83
1:IA:1148:U:P	9:II:14:VAL:HG21	2.18	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:IA:332:G:C1'	20:IT:16:HIS:CD2	2.59	0.83
1:IA:779:C:O2	11:IK:120:ARG:NH1	2.11	0.83
1:IA:758:G:H4'	1:IA:880:C:H1'	1.59	0.83
10:IJ:61:GLU:OE2	14:IN:58:LYS:NZ	2.10	0.83
1:IA:451:A:H5'	16:IP:72:ARG:NH2	1.93	0.83
22:JB:2399:C:H6	51:J5:32:GLN:HA	1.37	0.83
22:JB:2328:G:H5''	51:J5:42:ARG:HH12	1.44	0.83
22:JB:1039:A:C2	22:JB:2466:G:C1'	2.61	0.83
22:JB:2842:C:C4	37:JQ:29:PRO:CD	2.60	0.83
22:JB:228:A:H61	22:JB:399:G:H1	1.26	0.83
22:JB:236:C:O2'	22:JB:632:A:C4'	2.26	0.83
22:JB:642:A:N6	22:JB:2394:G:N2	2.25	0.83
26:JF:16:GLU:HG3	26:JF:17:LEU:H	1.44	0.83
23:JA:14:C:H3'	44:JX:53:MET:CG	2.08	0.83
22:JB:1001:A:C5'	46:JZ:27:LYS:HZ3	1.72	0.83
1:AA:1374:A:H4'	7:AG:28:ASN:OD1	0.91	0.83
1:AA:1398:A:N3	5:AE:21:ALA:HB3	1.89	0.83
1:AA:191:G:OP2	1:GA:191:G:C8	2.32	0.83
3:AC:77:ILE:HG22	3:AC:81:GLY:HA2	1.61	0.83
7:AG:111:ARG:HD3	7:AG:119:ARG:HD2	1.60	0.83
1:AA:255:G:O5'	17:AQ:17:LYS:CE	2.26	0.83
22:BB:1175:A:N6	22:BB:1198:C:C2	2.46	0.83
22:BB:2753:C:H4'	25:BE:163:GLU:CB	2.08	0.83
22:BB:2856:U:O4'	35:BO:45:ARG:NH2	2.11	0.83
27:BG:136:LEU:HG	27:BG:138:PHE:HD2	1.43	0.83
22:BB:827:C:P	39:BS:83:ARG:C	2.57	0.83
1:CA:407:G:C3'	4:CD:116:GLN:HB2	2.08	0.83
1:CA:619:U:C1'	4:CD:133:VAL:HG22	2.07	0.83
8:CH:104:ARG:HB3	8:CH:107:LEU:HB2	1.58	0.83
22:DB:1670:G:C2	35:DO:11:ASN:CG	2.52	0.83
22:DB:1834:G:O4'	24:DD:244:ARG:HG2	1.78	0.83
22:DB:2494:C:H4'	31:DK:108:GLY:N	1.94	0.83
25:DE:8:LYS:HB3	37:DQ:3:THR:CB	2.07	0.83
22:DB:624:A:C8	26:DF:170:LEU:HD23	2.13	0.83
22:DB:2283:G:HO2'	27:DG:153:ASP:HB3	1.02	0.83
38:DR:3:ARG:HE	38:DR:4:ALA:H	1.23	0.83
22:DB:916:U:OP1	43:DW:161:ALA:O	1.95	0.83
1:EA:707:C:H5''	11:EK:85:ARG:HH12	1.43	0.83
8:EH:24:THR:HG23	8:EH:61:VAL:HB	1.60	0.83
1:EA:1146:A:C2	9:EI:16:ARG:NH1	2.46	0.83
22:FB:2262:C:C4'	49:F3:3:LYS:HZ1	1.91	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:FB:2661:G:O2'	25:FE:11:MET:CE	2.27	0.83
22:FB:469:G:H8	50:F4:40:HIS:CB	1.83	0.83
22:FB:737:C:C3'	22:FB:738:G:P	2.66	0.83
38:FR:3:ARG:HE	38:FR:4:ALA:H	1.23	0.83
22:FB:76:C:P	45:FY:52:GLN:OE1	2.36	0.83
6:GF:49:ALA:HB2	18:GR:78:LEU:C	1.98	0.83
1:GA:1349:A:H4'	9:GI:121:ARG:NH1	1.44	0.83
22:HB:2029:G:H5'	48:H2:19:ARG:HD2	1.56	0.83
22:HB:1019:U:C4'	38:HR:59:ARG:NH2	2.36	0.83
22:HB:2334:C:O4'	44:HX:32:LYS:HE3	1.77	0.83
22:HB:2493:U:H4'	25:HE:151:TYR:HE1	1.41	0.83
22:HB:2747:C:H5''	31:HK:112:THR:HG21	1.59	0.83
1:IA:144:G:H1'	1:IA:179:A:H61	1.43	0.83
1:IA:641:U:N1	8:IH:116:LYS:HG2	1.93	0.83
4:ID:201:GLN:NE2	5:IE:99:GLY:HA3	1.92	0.83
1:IA:1151:A:H5''	10:IJ:42:THR:HB	1.61	0.83
23:JA:44:C:H4'	27:JG:66:ILE:HD11	1.58	0.83
22:JB:1004:A:H61	22:JB:1171:A:N6	1.76	0.83
22:JB:839:U:H5'	22:JB:2407:G:H2'	1.58	0.83
22:JB:797:A:N6	24:JD:229:VAL:HG22	1.91	0.83
32:JL:76:ARG:HD2	32:JL:90:ARG:HH22	1.42	0.83
22:JB:489:A:H5''	42:JV:5:SER:OG	1.78	0.83
1:AA:815:A:C6	1:AA:1529:G:C2'	2.60	0.83
1:AA:66:G:H4'	1:AA:199:G:H4'	1.57	0.83
1:AA:36:C:OP1	12:AL:122:THR:O	1.96	0.83
1:AA:768:A:O2'	1:AA:1523:G:N2	2.11	0.83
1:AA:8:A:O3'	5:AE:122:GLU:OE2	1.96	0.83
1:AA:939:G:O2'	7:AG:29:LYS:NZ	2.10	0.83
10:AJ:49:VAL:CG1	14:AN:45:ARG:HA	2.09	0.83
1:AA:522:C:OP2	12:AL:90:VAL:HG21	1.78	0.83
35:BO:99:ARG:NE	48:B2:44:HIS:HD2	1.74	0.83
22:BB:228:A:H61	22:BB:399:G:H1	1.26	0.83
22:BB:426:C:O3'	22:BB:1862:C:O2'	1.95	0.83
22:BB:2786:G:H4'	25:BE:59:VAL:HG13	1.59	0.83
1:CA:1074:G:H1'	2:CB:104:ASN:CB	2.07	0.83
1:CA:673:G:OP1	6:CF:87:ARG:CZ	2.27	0.83
3:CC:77:ILE:HG22	3:CC:81:GLY:HA2	1.61	0.83
1:CA:673:G:OP1	6:CF:87:ARG:NH2	2.11	0.83
15:CO:89:GLY:HA3	22:DB:729:A:OP1	1.79	0.83
1:CA:273:A:N3	17:CQ:16:GLN:N	2.21	0.83
22:DB:1050:G:C4'	43:DW:37:LYS:HZ1	1.89	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:DB:2715:C:N3	22:DB:2749:A:N1	2.27	0.83
22:DB:546:A:C5'	38:DR:57:PHE:CE1	2.58	0.83
22:DB:887:G:P	43:DW:167:THR:CB	2.63	0.83
22:DB:2752:C:H5'	25:DE:166:THR:HB	1.61	0.83
22:DB:2738:A:C6	28:DH:71:LEU:HD11	2.12	0.83
1:EA:1382:C:C4'	7:EG:79:ARG:CZ	2.57	0.83
11:EK:61:ALA:HB1	11:EK:94:ALA:HB2	1.60	0.83
23:FA:117:G:O2'	36:FP:53:ALA:HB2	1.79	0.83
22:FB:1029:C:H5''	22:FB:1046:U:O2'	1.79	0.83
22:FB:2399:C:C5	51:F5:31:HIS:CB	2.55	0.83
22:FB:2708:U:H4'	25:FE:21:ILE:HD11	0.83	0.83
22:FB:2708:U:O4'	25:FE:21:ILE:HD12	1.76	0.83
22:FB:2716:G:C6	22:FB:2748:C:C4	2.66	0.83
22:FB:2760:G:C4'	31:FK:149:LYS:HE2	2.09	0.83
22:FB:2795:A:H62	25:FE:8:LYS:HE3	1.44	0.83
22:FB:590:C:P	38:FR:32:TYR:O	2.36	0.83
22:FB:2617:G:OP2	25:FE:81:PHE:CZ	2.32	0.83
22:FB:2638:G:O5'	28:FH:179:THR:HA	1.77	0.83
22:FB:6:A:H2	31:FK:162:LYS:HE3	1.37	0.83
22:FB:456:C:O3'	38:FR:3:ARG:CG	2.27	0.83
1:GA:223:U:O4'	20:GT:68:LYS:CE	2.26	0.83
1:GA:694:A:H5'	11:GK:53:SER:CB	2.03	0.83
1:GA:128:G:C1'	17:GQ:4:LYS:H	1.87	0.83
22:HB:95:G:OP2	45:HY:41:HIS:CB	2.16	0.83
16:IP:4:ILE:HB	16:IP:66:PRO:HA	1.61	0.83
22:JB:2208:U:O2'	47:J1:40:HIS:CB	2.27	0.83
22:JB:1197:U:H5''	46:JZ:26:ARG:HG3	1.61	0.83
22:JB:1197:U:C5	22:JB:1198:C:N3	2.47	0.83
22:JB:1240:G:OP1	38:JR:16:LYS:HD2	1.79	0.83
22:JB:3178:C:O2'	53:J7:39:ILE:HD11	1.79	0.83
22:JB:786:U:O3'	24:JD:48:ARG:HB3	1.78	0.83
22:JB:2753:C:C5'	25:JE:164:ARG:HG2	2.08	0.83
22:JB:687:G:H5'	26:JF:70:GLY:HA3	1.59	0.83
45:JY:23:LYS:HD3	45:JY:24:GLU:HG3	1.59	0.83
1:AA:659:U:C5'	15:AO:4:THR:HB	1.94	0.83
12:AL:10:LEU:CD1	17:AQ:32:TYR:HE2	1.91	0.83
22:BB:543:G:C4	22:BB:570:G:C2	2.66	0.83
22:BB:969:U:O4	34:BN:20:GLY:CA	2.27	0.83
22:BB:542:A:O2'	38:BR:41:ASN:CG	2.17	0.83
22:BB:1050:G:H4'	43:BW:37:LYS:HE2	1.15	0.83
1:CA:1279:A:OP2	10:CJ:99:LYS:NZ	2.11	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:437:U:O2'	4:CD:119:GLN:OE1	1.97	0.83
47:D1:48:ARG:NH2	47:D1:49:PHE:HB3	1.94	0.83
22:DB:1290:A:C2	35:DO:27:ALA:HB2	2.14	0.83
22:DB:2619:G:O5'	31:DK:122:HIS:CE1	2.32	0.83
22:DB:611:C:H2'	22:DB:669:G:H22	1.43	0.83
22:DB:1816:G:N2	24:DD:252:LYS:CE	2.39	0.83
22:DB:2725:C:C1'	28:DH:139:GLN:HA	2.08	0.83
1:EA:1382:C:H4'	7:EG:79:ARG:HD2	1.60	0.83
3:EC:77:ILE:HG22	3:EC:81:GLY:HA2	1.61	0.83
8:EH:91:ARG:HH12	17:EQ:34:LYS:NZ	1.77	0.83
22:FB:410:A:H5''	47:F1:58:LYS:CD	2.08	0.83
22:FB:3197:U:O2'	22:FB:2181:A:C8	2.31	0.83
22:FB:2628:C:C4'	32:FL:28:GLY:CA	2.55	0.83
22:FB:2653:A:H4'	32:FL:44:TYR:CE2	2.13	0.83
22:FB:2692:A:O2'	35:FO:15:SER:HB2	1.79	0.83
22:FB:504:G:C4'	40:FT:25:PHE:CE2	2.61	0.83
25:FE:184:VAL:HG21	25:FE:188:ILE:HD13	1.60	0.83
22:FB:1006:C:C4	31:FK:30:LYS:NZ	2.47	0.83
22:FB:2540:A:O2'	32:FL:23:ARG:HD2	1.79	0.83
22:FB:1670:G:O6	35:FO:11:ASN:CA	2.22	0.83
22:FB:1406:A:N6	41:FU:15:LYS:CG	2.25	0.83
1:GA:15:G:C4	5:GE:17:ALA:HB3	2.13	0.83
1:GA:580:U:OP1	15:GO:54:ARG:NH2	2.11	0.83
13:GM:87:TYR:CB	19:GS:73:GLU:C	2.32	0.83
1:GA:668:G:C5'	15:GO:48:LYS:HZ3	1.87	0.83
22:HB:2791:C:O4'	48:H2:43:HIS:HB2	1.77	0.83
22:HB:1261:G:N7	38:HR:2:PRO:HG2	1.92	0.83
23:HA:59:A:O4'	27:HG:23:SER:CB	2.27	0.83
1:IA:1028:C:H2'	1:IA:1029:U:H4'	1.60	0.83
1:IA:1058:G:P	3:IC:154:SER:CB	2.63	0.83
1:IA:1104:G:HO2'	2:IB:111:ARG:HH11	1.23	0.83
1:IA:620:C:H4'	4:ID:138:TYR:HE1	1.42	0.83
1:IA:932:C:C4'	7:IG:4:ARG:HE	1.87	0.83
11:IK:61:ALA:HB1	11:IK:94:ALA:HB2	1.60	0.83
12:IL:11:VAL:HG21	17:IQ:35:VAL:O	1.79	0.83
22:JB:16:G:O2'	48:J2:14:SER:O	1.95	0.83
22:JB:1141:U:O4	25:JE:147:PRO:HG2	1.78	0.83
22:JB:1270:C:OP1	26:JF:69:HIS:CE1	2.32	0.83
22:JB:2370:G:O2'	22:JB:2408:G:N2	2.11	0.83
22:JB:1750:A:C2	22:JB:2675:U:O2	2.32	0.83
22:JB:872:G:H1'	22:JB:2247:A:N3	1.94	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:JB:2742:G:H21	28:JH:150:LYS:HZ3	1.24	0.83
34:JN:107:VAL:HG23	43:JW:115:ILE:HD11	1.61	0.83
22:JB:76:C:OP1	45:JY:7:ARG:NH2	2.11	0.83
1:AA:1372:U:H5''	9:AI:71:SER:CB	2.08	0.83
10:AJ:47:PHE:HB2	10:AJ:63:PHE:HB2	1.58	0.83
22:BB:1141:U:C2'	31:BK:107:GLN:NE2	2.41	0.83
22:BB:1381:G:OP1	50:B4:25:LYS:HG3	1.78	0.83
22:BB:1416:A:H5'	22:BB:1485:U:O4'	1.71	0.83
22:BB:58:C:C2'	45:BY:44:ARG:HH12	1.90	0.83
22:BB:2218:G:O5'	24:BD:230:ASP:HA	1.79	0.83
32:BL:132:GLU:OE2	37:BQ:75:GLU:OE2	1.93	0.83
32:BL:2:ILE:HG22	32:BL:45:ALA:H	1.43	0.83
34:BN:103:VAL:H	34:BN:104:MET:HE1	1.44	0.83
1:CA:1206:G:H4'	3:CC:193:TYR:CA	2.08	0.83
22:DB:177:U:H3	22:DB:225:G:H5''	1.44	0.83
22:DB:2713:A:H61	25:DE:203:LYS:HZ2	1.08	0.83
22:DB:1508:G:OP2	24:DD:101:GLU:OE1	1.95	0.83
32:DL:88:THR:H	37:DQ:81:PHE:C	1.82	0.83
22:DB:503:G:H1'	40:DT:28:ALA:O	1.72	0.83
41:DU:88:ILE:HG23	41:DU:89:GLU:H	1.44	0.83
22:DB:869:C:C2	44:DX:24:LYS:HD3	2.14	0.83
1:EA:66:G:H4'	1:EA:199:G:H4'	1.57	0.83
1:EA:487:A:N3	4:ED:131:ARG:NH1	2.27	0.83
1:EA:686:U:O4'	11:EK:42:TRP:NE1	2.12	0.83
1:EA:1227:A:P	13:EM:111:LYS:HZ2	2.02	0.83
1:EA:244:U:P	17:EQ:100:LYS:HZ2	1.99	0.83
1:EA:1320:C:H1'	19:ES:72:GLY:CA	2.08	0.83
23:FA:9:G:C5'	36:FP:32:TYR:HE1	1.88	0.83
22:FB:1145:C:C2	22:FB:1147:G:OP2	2.32	0.83
22:FB:2578:G:C6	24:FD:237:GLU:HG2	2.14	0.83
22:FB:590:C:OP1	38:FR:32:TYR:C	2.17	0.83
22:FB:1239:A:P	39:FS:73:LYS:HZ1	1.98	0.83
23:FA:79:U:OP1	43:FW:10:PRO:HB3	1.78	0.83
22:FB:864:C:C1'	46:FZ:39:ALA:HA	2.08	0.83
1:GA:1226:C:H42	13:GM:104:ARG:CD	1.78	0.83
1:GA:1226:C:H5	13:GM:104:ARG:HA	1.44	0.83
10:GJ:63:PHE:CZ	14:GN:49:HIS:N	2.45	0.83
22:HB:1336:G:C5'	40:HT:103:LEU:HG	2.09	0.83
22:HB:2491:C:N1	25:HE:139:GLY:O	2.12	0.83
32:HL:83:ARG:HH11	37:HQ:81:PHE:HD2	1.26	0.83
22:HB:57:G:C5'	41:HU:75:ARG:NH2	2.39	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:IA:1392:G:H21	1:IA:1502:A:H5''	1.44	0.83
1:IA:452:A:O2'	16:IP:72:ARG:CD	2.27	0.83
1:IA:1359:C:H5''	14:IN:31:ARG:CG	2.08	0.83
13:IM:87:TYR:HA	19:IS:76:PRO:HD3	1.61	0.83
20:IT:13:LEU:HD22	20:IT:17:ARG:HG3	1.60	0.83
22:JB:2264:C:N4	49:J3:27:ASN:CA	2.41	0.83
22:JB:2372:A:OP2	51:J5:29:LYS:HA	1.77	0.83
22:JB:1040:A:C1'	22:JB:2465:G:C4'	2.56	0.83
22:JB:2542:U:C5'	32:JL:40:GLY:C	2.46	0.83
22:JB:2372:A:O3'	33:JM:61:PRO:O	1.97	0.83
1:AA:1298:C:H2'	7:AG:114:ARG:CZ	1.88	0.82
1:AA:666:G:C4	15:AO:51:HIS:HB2	2.14	0.82
22:BB:1376:C:C5	47:B1:55:ARG:NH1	2.47	0.82
22:BB:1508:G:P	24:BD:100:GLY:HA2	2.15	0.82
22:BB:540:G:C4	22:BB:2018:G:C5'	2.61	0.82
22:BB:24:G:C1'	40:BT:98:ASP:CB	2.56	0.82
22:BB:2825:A:C2	35:BO:61:HIS:CG	2.67	0.82
1:CA:1226:C:H41	13:CM:104:ARG:CZ	1.90	0.82
1:CA:922:G:C5'	5:CE:20:GLN:HE21	1.92	0.82
1:CA:1117:G:C3'	9:CI:9:ARG:CZ	2.56	0.82
22:DB:2218:G:H5''	24:DD:230:ASP:O	1.79	0.82
22:DB:497:C:H2'	40:DT:77:ALA:HB1	1.60	0.82
22:DB:969:U:O4	34:DN:20:GLY:C	2.17	0.82
22:DB:1834:G:C4'	24:DD:244:ARG:CG	2.57	0.82
25:DE:26:VAL:CB	37:DQ:3:THR:CG2	2.50	0.82
27:DG:78:LYS:HG3	27:DG:80:ARG:HH12	1.41	0.82
29:DI:45:THR:H	29:DI:48:ALA:HB3	1.43	0.82
22:DB:1237:G:O3'	39:DS:87:ARG:HB2	0.75	0.82
23:DA:96:C:OP1	43:DW:14:LEU:HB2	1.77	0.82
46:DZ:4:LYS:HD3	46:DZ:5:LEU:H	1.41	0.82
1:EA:653:A:N1	8:EH:27:PRO:HB3	1.93	0.82
1:EA:740:U:P	15:EO:3:ILE:HG12	2.18	0.82
1:EA:1102:A:C2	2:EB:108:ILE:CG1	2.61	0.82
4:ED:120:LEU:HB3	4:ED:125:HIS:HB2	1.61	0.82
10:EJ:30:SER:HB3	10:EJ:80:LYS:HE2	1.61	0.82
1:EA:708:C:H5'	11:EK:20:TYR:CE2	2.13	0.82
16:EP:4:ILE:HB	16:EP:66:PRO:HA	1.61	0.82
22:FB:2063:A:O3'	47:F1:33:VAL:HG13	1.78	0.82
23:FA:79:U:OP2	43:FW:10:PRO:HG2	1.78	0.82
22:FB:1167:A:H5'	22:FB:1168:G:C8	2.14	0.82
22:FB:3877:A:H3'	22:FB:1861:G:OP2	1.78	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:FB:2291:U:C5'	27:FG:85:VAL:O	2.26	0.82
22:FB:2684:A:N1	35:FO:60:LEU:HD21	1.94	0.82
22:FB:60:A:C5'	45:FY:31:GLN:CD	2.48	0.82
22:FB:611:C:H2'	22:FB:669:G:H22	1.43	0.82
22:FB:742:G:N7	24:FD:208:LYS:NZ	2.27	0.82
22:FB:1203:A:C4'	33:FM:37:GLN:H	1.89	0.82
22:FB:1292:A:H5''	35:FO:33:ARG:HB3	1.43	0.82
22:FB:2679:G:N2	35:FO:68:GLN:CG	2.40	0.82
3:GC:77:ILE:HG22	3:GC:81:GLY:HA2	1.61	0.82
6:GF:46:ARG:CZ	18:GR:35:ARG:NH1	2.42	0.82
1:GA:824:C:C1'	8:GH:2:LEU:HD22	2.06	0.82
1:GA:1225:A:O5'	13:GM:103:THR:N	2.03	0.82
10:GJ:11:PHE:CE1	14:GN:54:PRO:O	2.32	0.82
1:GA:1186:G:H21	14:GN:61:TRP:HB2	1.35	0.82
1:GA:186:C:H4'	20:GT:78:ALA:O	1.79	0.82
47:H1:48:ARG:NH2	47:H1:49:PHE:HB3	1.94	0.82
22:HB:1075:C:H5''	30:HJ:84:ILE:HG21	1.59	0.82
22:HB:1715:A:H4'	22:HB:1754:G:N2	1.94	0.82
26:HF:16:GLU:HG3	26:HF:17:LEU:H	1.44	0.82
22:HB:625:A:C4'	26:HF:38:ARG:HD3	2.08	0.82
1:IA:1392:G:H21	1:IA:1502:A:H5'	1.23	0.82
1:IA:8:A:H62	4:ID:206:PHE:HA	1.43	0.82
12:IL:11:VAL:HG21	17:IQ:34:LYS:HD3	1.60	0.82
22:JB:1142:G:N2	31:JK:103:TYR:HE2	1.77	0.82
22:JB:1861:G:O6	53:J7:196:VAL:HG12	1.79	0.82
22:JB:1375:C:H5'	22:JB:2194:A:H5'	1.60	0.82
22:JB:234:C:O3'	33:JM:103:ASN:CG	2.17	0.82
22:JB:593:C:P	38:JR:6:THR:H	2.02	0.82
22:JB:1584:G:C5'	24:JD:62:TYR:HH	1.87	0.82
22:JB:1174:G:C8	39:JS:90:PHE:N	2.46	0.82
22:BB:2062:U:O2'	47:B1:32:HIS:CG	2.32	0.82
22:BB:2861:A:O2'	48:B2:33:CYS:O	1.96	0.82
22:BB:186:C:OP1	50:B4:33:ARG:CZ	2.27	0.82
22:BB:2503:G:N9	22:BB:2744:A:H2	1.77	0.82
22:BB:2490:U:C4'	25:BE:124:GLY:HA3	2.08	0.82
22:BB:1142:G:C3'	31:BK:111:LYS:HB2	2.09	0.82
34:BN:28:VAL:HG12	43:BW:119:ASN:HB2	1.57	0.82
22:BB:2343:C:H4'	44:BX:40:GLN:HB3	1.59	0.82
1:CA:332:G:H5''	20:CT:10:LEU:CG	2.09	0.82
1:CA:644:G:C4'	8:CH:89:PRO:CB	2.57	0.82
1:CA:943:U:H1'	9:CI:124:GLN:OE1	1.78	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:DB:1856:U:HO3'	22:DB:3865:A:P	2.00	0.82
22:DB:2411:A:C2	47:D1:22:MET:HE2	2.11	0.82
22:DB:2714:A:H62	22:DB:2750:G:H1'	1.44	0.82
22:DB:1809:G:H5''	24:DD:157:ARG:HH11	1.42	0.82
27:DG:136:LEU:HG	27:DG:138:PHE:HD2	1.43	0.82
32:DL:87:SER:OG	37:DQ:82:PRO:C	2.13	0.82
23:DA:30:C:P	36:DP:34:SER:HG	2.02	0.82
37:DQ:100:ARG:HH11	37:DQ:120:ASP:HB3	1.44	0.82
22:DB:916:U:H6	43:DW:163:ASP:H	1.22	0.82
1:EA:586:C:OP1	8:EH:91:ARG:HA	1.02	0.82
1:EA:953:G:O6	13:EM:104:ARG:NH1	2.09	0.82
14:EN:15:LYS:HD3	14:EN:16:PHE:H	1.42	0.82
22:FB:1291:G:C5'	35:FO:35:GLN:HB2	2.09	0.82
22:FB:1516:A:H1'	24:FD:98:ALA:CA	2.09	0.82
22:FB:1760:G:H4'	22:FB:1941:C:H5''	1.59	0.82
22:FB:2542:U:H5''	32:FL:40:GLY:HA3	1.59	0.82
22:FB:687:G:H5'	26:FF:70:GLY:O	1.78	0.82
27:FG:78:LYS:HG3	27:FG:80:ARG:HH12	1.42	0.82
38:FR:44:THR:HA	39:FS:76:SER:N	1.90	0.82
38:FR:46:GLU:CB	39:FS:75:LYS:CG	2.55	0.82
1:GA:1028:C:H2'	1:GA:1029:U:H4'	1.60	0.82
10:GJ:30:SER:HB3	10:GJ:80:LYS:HE2	1.61	0.82
1:GA:719:C:O2'	18:GR:49:LYS:HA	1.78	0.82
22:HB:1829:C:C5'	22:HB:1911:A:C4'	2.29	0.82
32:HL:86:GLY:CA	37:HQ:84:ALA:CB	2.41	0.82
22:HB:1202:U:H4'	39:HS:80:TYR:HE1	1.43	0.82
41:HU:88:ILE:HG23	41:HU:89:GLU:H	1.44	0.82
34:HN:63:GLY:HA3	43:HW:112:LEU:CD2	2.10	0.82
1:IA:538:G:C8	12:IL:115:LYS:HE3	1.91	0.82
1:IA:675:A:N1	11:IK:116:HIS:N	2.26	0.82
15:IO:36:ILE:HA	15:IO:39:LEU:HB3	1.61	0.82
22:JB:929:A:H5''	22:JB:2247:A:H61	1.41	0.82
22:JB:491:A:O4'	42:JV:53:VAL:HG11	1.79	0.82
22:JB:2283:G:C4'	27:JG:130:LEU:HD22	2.08	0.82
29:JI:46:LEU:HD12	53:J7:216:LYS:NZ	1.95	0.82
30:JJ:129:GLY:HA3	30:JJ:132:ARG:HH11	1.43	0.82
22:JB:587:A:C2	38:JR:33:ARG:HD3	2.13	0.82
22:JB:528:G:N3	40:JT:96:TYR:HD2	1.56	0.82
1:AA:1344:C:H4'	9:AI:120:ARG:CG	2.01	0.82
1:AA:1375:A:OP1	7:AG:12:LEU:CD2	2.27	0.82
1:AA:430:A:P	4:AD:8:VAL:HG23	2.19	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:AJ:63:PHE:CE2	14:AN:48:ALA:CB	2.61	0.82
1:AA:1059:C:H5'	14:AN:45:ARG:NH2	1.94	0.82
15:AO:36:ILE:HA	15:AO:39:LEU:HB3	1.61	0.82
22:BB:1402:G:C4	22:BB:1412:C:C2	2.68	0.82
22:BB:177:U:H3	22:BB:225:G:H5''	1.45	0.82
22:BB:2556:A:H1'	48:B2:4:HIS:HE1	1.43	0.82
22:BB:1673:C:H6	25:BE:136:ARG:NH2	1.73	0.82
25:BE:184:VAL:HG21	25:BE:188:ILE:HD13	1.60	0.82
27:BG:78:LYS:HG3	27:BG:80:ARG:HH12	1.41	0.82
35:BO:95:THR:HG21	35:BO:113:ILE:HG23	1.60	0.82
37:BQ:100:ARG:HH11	37:BQ:120:ASP:HB3	1.45	0.82
1:CA:1455:G:H2'	1:CA:1455:G:N3	1.94	0.82
22:DB:114:C:O3'	50:D4:19:ARG:NH1	2.12	0.82
22:DB:1416:A:H5''	22:DB:1485:U:H1'	1.59	0.82
22:DB:2736:U:C4	28:DH:67:LEU:HD21	2.13	0.82
30:DJ:129:GLY:HA3	30:DJ:132:ARG:HH11	1.43	0.82
23:DA:115:G:H22	36:DP:49:GLN:CG	1.92	0.82
43:DW:67:LYS:HG3	43:DW:128:ARG:HH11	1.42	0.82
1:EA:1382:C:C4'	7:EG:79:ARG:NE	2.42	0.82
1:EA:521:G:H5''	12:EL:69:TYR:OH	1.80	0.82
1:EA:1114:C:HO2'	14:EN:61:TRP:HB3	1.45	0.82
47:F1:48:ARG:NH2	47:F1:49:PHE:HB3	1.95	0.82
22:FB:469:G:C8	50:F4:40:HIS:CG	2.61	0.82
49:F3:24:THR:HG23	51:F5:35:GLY:HA2	1.61	0.82
22:FB:1004:A:H5''	38:FR:51:ARG:HB2	1.60	0.82
22:FB:504:G:C3'	40:FT:25:PHE:CD2	2.63	0.82
25:FE:176:ARG:NH2	37:FQ:16:ILE:CD1	2.16	0.82
26:FF:16:GLU:HG3	26:FF:17:LEU:H	1.44	0.82
22:FB:2542:U:H4'	32:FL:40:GLY:C	1.99	0.82
23:FA:119:G:C5'	36:FP:55:SER:OG	2.27	0.82
34:FN:36:ILE:CG2	43:FW:74:ARG:HA	2.09	0.82
1:GA:951:G:C4	13:GM:126:LYS:HA	2.13	0.82
7:GG:150:ALA:HB1	11:GK:59:TYR:CB	2.09	0.82
22:HB:1264:C:OP1	38:HR:6:THR:OG1	1.98	0.82
22:HB:1809:G:H5''	24:HD:157:ARG:HH11	1.42	0.82
22:HB:2463:G:C1'	34:HN:47:GLN:OE1	2.27	0.82
1:IA:521:G:OP1	12:IL:72:GLY:O	1.97	0.82
1:IA:684:A:C2	11:IK:39:PRO:HG3	2.14	0.82
3:IC:26:LYS:HE3	10:IJ:95:GLU:CG	2.07	0.82
3:IC:77:ILE:HG22	3:IC:81:GLY:HA2	1.61	0.82
22:JB:1583:A:N3	24:JD:84:TYR:CE1	2.47	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:JB:226:C:N1	22:JB:2373:C:O2'	2.08	0.82
22:JB:3167:U:C4	53:J7:98:ARG:CA	2.61	0.82
22:JB:1820:G:C6	24:JD:221:GLN:HB3	2.14	0.82
22:JB:2573:C:H41	24:JD:239:ARG:CZ	1.92	0.82
22:JB:2240:C:H2'	44:JX:15:ASP:N	1.91	0.82
1:AA:1023:G:H2'	1:AA:1024:G:H4'	1.61	0.82
1:AA:943:U:C2	9:AI:124:GLN:OE1	2.33	0.82
13:AM:86:CYS:SG	13:AM:92:HIS:NE2	2.50	0.82
22:BB:147:G:H2'	22:BB:147:G:N3	1.94	0.82
22:BB:1669:A:H62	22:BB:1670:G:H21	1.27	0.82
22:BB:2523:G:C4'	22:BB:2624:G:C8	2.63	0.82
22:BB:511:A:N1	40:BT:12:LYS:CD	2.42	0.82
22:BB:686:C:C2'	26:BF:68:ARG:HH22	1.91	0.82
22:BB:687:G:N7	26:BF:68:ARG:NH1	2.27	0.82
22:BB:686:C:O2'	26:BF:68:ARG:NH2	2.12	0.82
32:BL:85:ASP:O	37:BQ:84:ALA:N	2.11	0.82
1:CA:546:G:OP1	4:CD:73:ARG:CB	2.27	0.82
1:CA:8:A:O4'	5:CE:103:GLY:CA	2.27	0.82
1:CA:918:A:C2	1:CA:1079:G:N2	2.46	0.82
1:CA:953:G:H1	13:CM:120:LYS:CB	1.92	0.82
22:DB:1401:G:C2	22:DB:1413:U:O2	2.32	0.82
22:DB:2470:U:O2	22:DB:2549:G:P	2.36	0.82
22:DB:2647:G:C8	28:DH:111:HIS:ND1	2.47	0.82
22:DB:25:U:H4'	40:DT:100:GLY:O	1.79	0.82
22:DB:506:G:H5''	40:DT:21:ARG:CB	2.09	0.82
34:DN:98:VAL:HG23	43:DW:73:LYS:CE	2.06	0.82
43:DW:84:TYR:CZ	43:DW:91:PRO:HG2	2.13	0.82
1:EA:1291:G:H5''	7:EG:41:ARG:HH11	1.42	0.82
1:EA:538:G:P	12:EL:113:ARG:HH11	2.02	0.82
15:EO:36:ILE:HA	15:EO:39:LEU:HB3	1.61	0.82
48:F2:15:LYS:HD3	48:F2:16:ARG:H	1.42	0.82
22:FB:2326:C:C1'	49:F3:40:TYR:HH	1.92	0.82
22:FB:3866:A:C6	53:F7:195:LYS:O	2.32	0.82
22:FB:177:U:H3	22:FB:225:G:H5''	1.45	0.82
22:FB:2239:C:C3'	44:FX:14:ARG:CD	2.51	0.82
22:FB:2240:C:O4'	44:FX:14:ARG:HG2	1.78	0.82
22:FB:2324:G:H5'	49:F3:40:TYR:HD1	1.44	0.82
22:FB:2558:C:O4'	25:FE:133:LYS:HE3	1.78	0.82
24:FD:93:ALA:HB2	24:FD:107:ALA:HB2	1.61	0.82
22:FB:2290:A:N1	27:FG:40:LEU:HD11	1.93	0.82
22:FB:2023:C:OP1	31:FK:132:PHE:CD2	2.32	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:FL:91:PHE:CE1	37:FQ:79:ARG:HG3	2.13	0.82
32:FL:90:ARG:NE	32:FL:91:PHE:H	1.76	0.82
1:GA:254:G:C4'	17:GQ:17:LYS:O	2.28	0.82
22:HB:1167:A:N3	38:HR:48:ARG:CD	2.42	0.82
22:HB:1261:G:H2'	38:HR:3:ARG:CA	2.10	0.82
22:HB:2063:A:H5'	47:H1:33:VAL:HG22	1.61	0.82
22:HB:2860:C:N1	48:H2:34:PRO:HG3	1.68	0.82
22:HB:680:U:O2	51:H5:2:PRO:HG2	1.79	0.82
29:HI:45:THR:H	29:HI:48:ALA:HB3	1.44	0.82
22:HB:2004:U:H6	38:HR:25:TRP:NE1	1.75	0.82
22:HB:1994:U:H4'	40:HT:119:LYS:CA	2.04	0.82
6:IF:2:ARG:NH1	15:IO:2:PRO:HB3	1.91	0.82
1:IA:588:G:C4'	8:IH:5:PRO:HG2	2.10	0.82
22:JB:3122:U:C5'	53:J7:133:LYS:HG3	2.08	0.82
22:JB:1004:A:H61	22:JB:1171:A:H62	1.27	0.82
22:JB:3093:C:N4	22:JB:2204:A:C5	2.24	0.82
22:JB:2262:C:OP1	49:J3:9:ILE:HD13	1.78	0.82
22:JB:642:A:H61	22:JB:2394:G:H21	1.22	0.82
22:JB:677:G:C2'	22:JB:678:G:H8	1.87	0.82
27:JG:72:LYS:HZ1	27:JG:73:SER:H	1.25	0.82
29:JI:45:THR:H	29:JI:48:ALA:HB3	1.44	0.82
38:JR:47:TYR:HD1	39:JS:75:LYS:H	1.25	0.82
22:JB:1008:G:P	38:JR:93:LYS:HD3	2.19	0.82
1:AA:1256:A:N6	3:AC:26:LYS:NZ	2.27	0.82
20:AT:13:LEU:HD22	20:AT:17:ARG:HG3	1.60	0.82
22:BB:1486:A:N1	22:BB:1537:U:C4	2.48	0.82
22:BB:2522:G:O2'	22:BB:2624:G:C8	2.33	0.82
22:BB:2766:U:H5''	25:BE:64:GLN:CA	2.07	0.82
22:BB:503:G:N2	40:BT:74:SER:CB	2.43	0.82
22:BB:2814:G:H5'	35:BO:46:PRO:HA	1.58	0.82
1:CA:599:C:H5'	8:CH:95:VAL:H	1.43	0.82
1:CA:1117:G:O3'	9:CI:9:ARG:CZ	2.26	0.82
23:DA:94:G:OP1	34:DN:23:LYS:NZ	2.13	0.82
22:DB:1040:A:H4'	34:DN:125:LYS:HZ3	1.02	0.82
22:DB:1460:G:H22	22:DB:1481:U:H3	1.26	0.82
22:DB:1483:G:C6	22:DB:1539:U:N3	2.46	0.82
22:DB:1834:G:C1'	24:DD:244:ARG:HD2	2.07	0.82
22:DB:1856:U:H5''	22:DB:2389:G:O2'	1.79	0.82
22:DB:2590:U:P	25:DE:132:LYS:NZ	2.51	0.82
22:DB:547:U:H4'	31:DK:30:LYS:CG	2.10	0.82
22:DB:888:G:N3	43:DW:165:GLU:HB2	1.92	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:DB:687:G:H8	26:DF:68:ARG:NH1	1.74	0.82
32:DL:91:PHE:CA	37:DQ:79:ARG:CZ	2.56	0.82
22:DB:2795:A:H4'	35:DO:5:LYS:HG2	1.62	0.82
22:DB:2856:U:C4'	35:DO:93:GLY:HA2	2.08	0.82
46:DZ:8:SER:HB2	46:DZ:50:LEU:HD21	1.61	0.82
1:EA:653:A:H62	8:EH:32:LYS:HZ1	1.28	0.82
13:EM:89:GLY:O	13:EM:92:HIS:CD2	2.32	0.82
22:FB:3866:A:C1'	53:F7:195:LYS:HB2	2.10	0.82
22:FB:871:U:H2'	22:FB:2247:A:H2'	1.60	0.82
22:FB:2540:A:O2'	32:FL:23:ARG:CB	2.27	0.82
43:FW:84:TYR:CG	43:FW:93:GLU:HB2	2.14	0.82
46:FZ:8:SER:HB2	46:FZ:50:LEU:HD21	1.61	0.82
5:GE:78:HIS:HB2	8:GH:138:TRP:HZ3	1.45	0.82
22:HB:418:C:H3'	53:H7:191:GLU:CG	2.06	0.82
22:HB:1401:G:O2'	22:HB:1541:G:H5'	1.79	0.82
22:HB:505:G:C1'	40:HT:78:ASN:HB3	2.09	0.82
22:HB:795:A:O2'	24:HD:226:MET:CE	2.28	0.82
45:HY:23:LYS:HD3	45:HY:24:GLU:HG3	1.59	0.82
1:IA:778:G:N3	11:IK:120:ARG:CB	2.42	0.82
1:IA:946:A:H5'	13:IM:114:ARG:HH21	1.43	0.82
13:IM:87:TYR:H	19:IS:74:PHE:HA	1.31	0.82
22:JB:2399:C:N1	51:J5:32:GLN:CB	2.41	0.82
22:JB:2708:U:OP1	32:JL:82:LYS:HB2	1.79	0.82
22:JB:3188:U:H5''	29:JI:20:VAL:C	1.65	0.82
22:JB:340:G:N2	42:JV:28:LYS:HZ1	1.77	0.82
22:JB:2491:C:N3	25:JE:140:SER:OG	2.11	0.82
27:JG:136:LEU:HG	27:JG:138:PHE:HD2	1.43	0.82
23:JA:92:G:N2	34:JN:22:ALA:O	2.12	0.82
1:AA:1250:A:O2'	9:AI:12:GLU:OE1	1.97	0.82
10:AJ:64:GLU:O	14:AN:56:VAL:HA	1.76	0.82
1:AA:742:G:C5'	15:AO:58:MET:CE	2.57	0.82
22:BB:1044:U:C6	52:B6:15:LYS:HA	2.11	0.82
22:BB:2474:G:C4'	34:BN:83:ARG:H	1.91	0.82
22:BB:2600:A:H4'	25:BE:158:GLY:CA	2.03	0.82
22:BB:611:C:H2'	22:BB:669:G:H22	1.43	0.82
1:CA:1023:G:H2'	1:CA:1024:G:H4'	1.61	0.82
1:CA:1148:U:H5'	9:CI:16:ARG:NE	1.93	0.82
1:CA:644:G:C5'	8:CH:89:PRO:HB3	2.10	0.82
1:CA:620:C:O2'	4:CD:138:TYR:CD1	2.31	0.82
22:DB:2063:A:OP1	47:D1:20:VAL:HG11	1.70	0.82
22:DB:2040:A:C2'	48:D2:3:LYS:HG2	2.10	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:DA:106:U:O3'	43:DW:88:TYR:CD1	2.23	0.82
22:DB:1992:G:H5''	40:DT:62:ARG:HB3	1.61	0.82
22:DB:3093:C:H4'	29:DI:21:LYS:N	1.94	0.82
22:DB:460:U:C2'	26:DF:78:VAL:CG2	2.54	0.82
27:DG:107:GLY:HA2	27:DG:137:ILE:HG13	1.60	0.82
23:DA:49:C:H4'	36:DP:95:LYS:HG3	1.62	0.82
22:DB:1162:A:O3'	38:DR:81:ASN:HB2	1.79	0.82
43:DW:67:LYS:CA	43:DW:128:ARG:HH12	1.82	0.82
1:EA:438:G:OP1	4:ED:125:HIS:NE2	2.11	0.82
1:EA:546:G:C5	4:ED:2:GLY:HA2	2.14	0.82
1:EA:589:C:O2'	8:EH:29:SER:HB2	1.78	0.82
1:EA:666:G:N2	15:EO:51:HIS:O	2.12	0.82
1:EA:958:A:N6	19:ES:56:GLN:CG	2.27	0.82
1:EA:6:G:C6	5:EE:95:ALA:HB3	2.11	0.82
1:EA:523:A:C2	12:EL:90:VAL:HG22	2.14	0.82
10:EJ:62:HIS:CB	14:EN:61:TRP:HZ3	1.92	0.82
22:FB:1139:A:N6	22:FB:2469:G:P	2.52	0.82
22:FB:1237:G:H5''	39:FS:87:ARG:HE	1.42	0.82
22:FB:1468:A:H62	35:FO:80:MET:HG2	1.44	0.82
22:FB:1669:A:H62	22:FB:1670:G:H21	1.27	0.82
22:FB:2687:G:H5'	35:FO:65:LEU:HD13	1.61	0.82
22:FB:88:G:N2	41:FU:67:ARG:HH22	1.66	0.82
24:FD:84:TYR:HA	24:FD:91:ARG:HA	1.62	0.82
22:FB:1069:G:OP1	30:FJ:9:LYS:HE2	1.53	0.82
1:GA:1023:G:H2'	1:GA:1024:G:H4'	1.61	0.82
1:GA:1392:G:C4'	1:GA:1531:A:H5''	2.09	0.82
1:GA:927:G:C4'	1:GA:1503:A:H8	1.92	0.82
7:GG:153:HIS:CD2	11:GK:93:GLN:HG2	2.14	0.82
1:GA:668:G:H1'	15:GO:45:VAL:HG11	0.83	0.82
22:HB:2487:G:C4'	22:HB:2534:U:H5'	2.10	0.82
22:HB:487:G:H21	22:HB:491:A:N6	1.78	0.82
22:HB:572:G:N2	38:HR:33:ARG:HH11	1.78	0.82
35:HO:95:THR:HG21	35:HO:113:ILE:HG23	1.60	0.82
6:IF:43:LEU:HD13	18:IR:35:ARG:HD2	1.59	0.82
1:IA:1320:C:O3'	19:IS:3:ARG:NH2	2.13	0.82
22:JB:114:C:O2	22:JB:124:A:H2	1.62	0.82
22:JB:2282:G:H1'	27:JG:129:ASN:CG	1.98	0.82
22:JB:3167:U:H3	53:J7:101:LYS:CE	1.91	0.82
22:JB:611:C:H2'	22:JB:669:G:H22	1.43	0.82
22:JB:71:A:H4'	45:JY:50:VAL:HG12	1.62	0.82
22:JB:2557:G:H21	25:JE:133:LYS:HE2	1.29	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:323:U:H2'	20:AT:15:ARG:CZ	2.09	0.82
1:AA:402:G:O2'	4:AD:135:LEU:HD11	1.78	0.82
1:AA:1398:A:C5	5:AE:21:ALA:HB1	2.11	0.82
1:AA:761:G:P	17:AQ:102:GLY:HA3	2.19	0.82
47:B1:48:ARG:NH2	47:B1:49:PHE:HB3	1.94	0.82
22:BB:1134:C:C1'	52:B6:21:GLY:HA3	2.09	0.82
22:BB:1460:G:H22	22:BB:1481:U:H3	1.26	0.82
22:BB:227:G:C4'	33:BM:55:ARG:CZ	2.57	0.82
22:BB:6:A:N6	22:BB:2871:U:C4	2.44	0.82
22:BB:742:G:P	24:BD:18:THR:OG1	2.32	0.82
1:CA:1298:C:N4	7:CG:114:ARG:HB3	1.95	0.82
15:CO:36:ILE:HA	15:CO:39:LEU:HB3	1.60	0.82
22:DB:465:C:C4	50:D4:39:ARG:CZ	2.59	0.82
22:DB:147:G:H2'	22:DB:147:G:N3	1.94	0.82
22:DB:1669:A:H62	22:DB:1670:G:H21	1.27	0.82
22:DB:456:C:H4'	38:DR:2:PRO:CB	2.09	0.82
22:DB:1796:A:OP1	24:DD:250:TRP:CZ3	2.32	0.82
22:DB:2661:G:C1'	25:DE:12:THR:H	1.92	0.82
25:DE:184:VAL:HG21	25:DE:188:ILE:HD13	1.60	0.82
27:DG:72:LYS:HZ1	27:DG:73:SER:H	1.24	0.82
1:EA:538:G:C5'	12:EL:114:LYS:H	1.93	0.82
1:EA:521:G:N7	12:EL:53:ARG:CZ	2.43	0.82
1:EA:258:G:H3'	20:ET:83:ARG:HH12	1.45	0.82
22:FB:1265:G:C5'	38:FR:32:TYR:CE1	2.54	0.82
22:FB:1411:C:H6	22:FB:1412:C:H5	1.23	0.82
22:FB:222:G:OP2	51:F5:7:HIS:CB	2.27	0.82
22:FB:2763:U:C2'	25:FE:41:THR:HG22	2.09	0.82
22:FB:717:G:H2'	22:FB:739:G:H22	1.45	0.82
22:FB:845:U:OP1	33:FM:41:SER:OG	1.96	0.82
23:FA:44:C:C3'	27:FG:64:LYS:HE3	2.08	0.82
22:FB:57:G:H5''	41:FU:73:ASN:CA	2.09	0.82
1:GA:1199:U:C4'	10:GJ:54:PHE:CD2	2.62	0.82
1:CA:1265:G:O3'	1:GA:1273:G:H5'	1.80	0.82
13:GM:85:GLY:O	19:GS:74:PHE:HB3	1.78	0.82
22:HB:699:G:C2	50:H4:5:TYR:HA	2.14	0.82
22:HB:2310:G:O2'	44:HX:70:ILE:CB	2.27	0.82
22:HB:2504:G:O2'	22:HB:2721:A:C2'	2.24	0.82
22:HB:2857:C:OP1	35:HO:98:LEU:CD2	2.26	0.82
22:HB:918:A:OP1	43:HW:118:HIS:CG	2.31	0.82
34:HN:66:TYR:HE1	43:HW:115:ILE:HG12	1.44	0.82
1:IA:1023:G:H2'	1:IA:1024:G:H4'	1.61	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:IA:129(A):G:H3'	17:IQ:63:ARG:HD3	1.60	0.82
1:IA:450:G:N2	16:IP:13:HIS:CE1	2.46	0.82
22:JB:2861:A:N3	48:J2:31:THR:HG23	1.95	0.82
22:JB:226:C:O2'	22:JB:2373:C:O4'	1.96	0.82
22:JB:3119:A:N6	53:J7:101:LYS:HZ3	1.77	0.82
22:JB:923:A:H1'	22:JB:2243:C:H1'	1.61	0.82
22:JB:64:C:H1'	41:JU:69:ILE:CG2	2.10	0.82
1:AA:1320:C:H4'	19:AS:3:ARG:NH1	1.95	0.82
1:AA:236:G:H4'	17:AQ:42:TYR:HH	1.45	0.82
1:AA:759:A:N6	17:AQ:98:LEU:HD11	1.92	0.82
1:AA:974:A:N3	14:AN:31:ARG:CG	2.42	0.82
1:AA:1344:C:O2'	9:AI:120:ARG:HD3	1.79	0.82
1:AA:275:G:O2'	17:AQ:18:THR:CG2	2.28	0.82
1:AA:1222:G:OP1	19:AS:77:THR:HB	1.80	0.82
22:BB:1887:G:C2	22:BB:1888:C:H1'	2.14	0.82
22:BB:2334:C:C6	44:BX:32:LYS:CE	2.60	0.82
22:BB:3196:G:H22	22:BB:2181:A:H62	1.28	0.82
22:BB:487:G:N2	22:BB:491:A:N6	2.20	0.82
22:BB:67:G:N2	22:BB:73:A:O4'	2.12	0.82
22:BB:57:G:C2'	22:BB:72:A:H62	1.92	0.82
25:BE:24:THR:HG23	25:BE:183:LEU:HG	1.61	0.82
27:BG:107:GLY:HA2	27:BG:137:ILE:HG13	1.60	0.82
25:BE:51:TYR:CE1	37:BQ:5:ILE:HG13	1.96	0.82
22:BB:1162:A:H4'	38:BR:81:ASN:HB2	1.62	0.82
1:CA:1049:U:H5'	1:CA:1201:A:H5'	1.61	0.82
1:CA:335:C:C5'	1:CA:1434:A:O2'	2.28	0.82
1:CA:985:C:H1'	19:CS:55:LYS:HD2	1.61	0.82
5:CE:11:ILE:HD11	5:CE:33:VAL:HG23	1.62	0.82
1:CA:932:C:C5'	7:CG:3:ARG:CG	2.35	0.82
10:CJ:30:SER:HB3	10:CJ:80:LYS:HE2	1.61	0.82
22:DB:2263:C:OP1	49:D3:8:ILE:CD1	2.28	0.82
22:DB:696:U:H5'	50:D4:16:HIS:CE1	1.91	0.82
22:DB:2040:A:HO2'	48:D2:3:LYS:HG2	0.90	0.82
22:DB:2542:U:P	32:DL:37:GLY:O	2.37	0.82
22:DB:613:A:H61	33:DM:97:ARG:CB	1.91	0.82
22:DB:869:C:O2'	44:DX:24:LYS:HE3	1.76	0.82
22:DB:2619:G:OP1	31:DK:122:HIS:CE1	2.33	0.82
32:DL:91:PHE:CE1	37:DQ:79:ARG:CG	2.62	0.82
34:DN:99:LYS:CG	43:DW:74:ARG:HB2	2.09	0.82
1:EA:129(A):G:N7	17:EQ:72:ARG:NH1	2.27	0.82
1:EA:598:U:HO2'	8:EH:95:VAL:HG23	1.41	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:EA:230:G:H5'	16:EP:26:ARG:HE	1.43	0.82
1:EA:583:A:H5'	17:EQ:90:ILE:CG2	2.07	0.82
1:EA:1313:U:OP2	19:ES:6:LYS:HG2	1.79	0.82
23:FA:117:G:C4'	36:FP:52:ALA:HA	2.10	0.82
22:FB:1041:G:H4'	34:FN:119:PHE:HE2	1.45	0.82
22:FB:1460:G:H22	22:FB:1481:U:H3	1.26	0.82
22:FB:2294:U:H5'	27:FG:33:LYS:HZ2	1.43	0.82
22:FB:2315:A:C5	44:FX:70:ILE:HG21	2.13	0.82
22:FB:1673:C:H5''	25:FE:136:ARG:HG2	0.83	0.82
22:FB:980:G:H5'	46:FZ:12:ARG:C	1.99	0.82
14:GN:15:LYS:HD3	14:GN:16:PHE:H	1.42	0.82
17:GQ:9:VAL:HB	17:GQ:22:LEU:HB3	1.61	0.82
1:GA:175:C:O2'	20:GT:25:ARG:CG	2.12	0.82
22:HB:490:A:H3'	42:HV:3:ARG:HD2	1.61	0.82
22:HB:611:C:H2'	22:HB:669:G:H22	1.43	0.82
22:HB:2717:G:N2	31:HK:118:ALA:HA	1.95	0.82
22:HB:1261:G:C2'	38:HR:3:ARG:H	1.92	0.82
22:HB:1996:A:O4'	40:HT:116:ILE:O	1.96	0.82
22:HB:1245:G:C3'	40:HT:8:PHE:HZ	1.84	0.82
43:HW:171:VAL:HG12	43:HW:173:PRO:HD3	1.59	0.82
22:HB:2236:U:OP1	44:HX:10:SER:N	2.10	0.82
46:HZ:8:SER:HB2	46:HZ:50:LEU:HD21	1.61	0.82
1:IA:1380:U:O4	7:IG:3:ARG:CG	2.27	0.82
4:ID:126:ILE:HG22	4:ID:127:THR:H	1.45	0.82
5:IE:11:ILE:HD11	5:IE:33:VAL:HG23	1.62	0.82
1:IA:1187:G:C1'	9:II:113:LYS:HG3	2.09	0.82
10:IJ:64:GLU:CG	14:IN:59:ALA:HA	2.08	0.82
22:JB:409:G:H4'	47:J1:39:VAL:HG11	1.62	0.82
22:JB:1238:A:H5''	39:JS:73:LYS:HG2	1.61	0.82
22:JB:1826:U:O2'	22:JB:1952:A:H2'	1.79	0.82
22:JB:1888:C:O3'	22:JB:1889:G:O5'	1.97	0.82
22:JB:2861:A:N3	48:J2:31:THR:CG2	2.43	0.82
22:JB:791:G:H4'	24:JD:49:ILE:HA	1.61	0.82
22:JB:845:U:OP1	33:JM:41:SER:HB2	1.80	0.82
33:JM:62:LYS:HD2	51:J5:30:ARG:HG3	1.60	0.82
22:JB:2847:G:HO2'	35:JO:8:ARG:HH21	1.26	0.82
22:JB:2823:G:C8	37:JQ:104:LEU:HB2	2.15	0.82
22:JB:1002:C:O2'	39:JS:86:HIS:HB2	1.80	0.82
1:AA:1049:U:H5'	1:AA:1201:A:H5'	1.62	0.82
1:AA:581:G:O2'	17:AQ:105:ALA:HB3	1.77	0.82
1:AA:761:G:H5'	17:AQ:102:GLY:H	1.45	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:974:A:OP2	14:AN:32:SER:OG	1.97	0.82
4:AD:120:LEU:HB3	4:AD:125:HIS:HB2	1.61	0.82
22:BB:219:G:C6	51:B5:2:PRO:HA	2.15	0.82
23:BA:106:U:O3'	43:BW:88:TYR:CB	2.27	0.82
22:BB:2795:A:C4'	35:BO:5:LYS:CG	2.56	0.82
22:BB:1142:G:C1'	31:BK:110:LEU:HB3	2.10	0.82
1:CA:1224:G:O3'	19:CS:78:ARG:NH2	2.13	0.82
1:CA:1265:G:H5''	1:GA:1273:G:C1'	2.09	0.82
48:D2:15:LYS:HD3	48:D2:16:ARG:H	1.42	0.82
22:DB:1018:C:O4'	31:DK:134:MET:CG	2.28	0.82
22:DB:2411:A:C6	47:D1:27:THR:C	2.53	0.82
22:DB:2768:C:O4'	22:DB:2785:A:C2	2.33	0.82
22:DB:2753:C:HO2'	25:DE:163:GLU:CD	1.83	0.82
22:DB:1238:A:C5'	39:DS:73:LYS:HA	2.08	0.82
23:DA:79:U:OP1	43:DW:10:PRO:HB3	1.79	0.82
1:EA:1021:G:H5''	27:JG:179:LYS:HB2	1.62	0.82
1:EA:44:G:OP1	16:EP:11:SER:CA	2.26	0.82
22:FB:1636:G:H1'	50:F4:1:MET:H2	1.34	0.82
49:F3:24:THR:C	51:F5:35:GLY:HA3	1.80	0.82
22:FB:2056:C:C5'	24:FD:229:VAL:HG23	2.09	0.82
27:FG:136:LEU:HG	27:FG:138:PHE:HD2	1.42	0.82
27:FG:179:LYS:HD3	1:IA:1021:G:C5'	2.08	0.82
22:FB:1111:C:H1'	28:FH:168:GLN:NE2	1.93	0.82
38:FR:44:THR:HA	39:FS:76:SER:HA	0.95	0.82
46:FZ:4:LYS:HD3	46:FZ:5:LEU:H	1.41	0.82
22:HB:2861:A:C5	48:H2:31:THR:CB	2.62	0.82
22:HB:2276:C:H42	22:HB:2299:A:H1'	1.45	0.82
22:HB:2365:U:C5'	44:HX:39:ARG:HH11	1.83	0.82
22:HB:2826:C:H4'	35:HO:64:ARG:HH12	1.03	0.82
22:HB:872:G:O2'	22:HB:2247:A:H2	1.57	0.82
22:HB:910:U:C2	22:HB:911:A:H5'	2.14	0.82
22:HB:625:A:H62	26:HF:172:VAL:CG2	1.93	0.82
32:HL:83:ARG:CD	37:HQ:83:PHE:HD2	1.91	0.82
1:IA:777:A:H2	11:IK:119:CYS:HA	1.44	0.82
1:IA:815:A:C3'	1:IA:1526:G:C2	2.57	0.82
1:IA:919:A:N9	1:IA:920:U:C5	2.47	0.82
9:II:48:GLU:HB2	9:II:78:LYS:HZ1	1.44	0.82
22:JB:1139:A:N1	22:JB:2470:U:O4	2.13	0.82
22:JB:2056:C:H4'	24:JD:229:VAL:HA	0.88	0.82
27:JG:107:GLY:HA2	27:JG:137:ILE:HG13	1.60	0.82
23:JA:15:A:OP1	44:JX:53:MET:HE3	1.78	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:JB:1000:G:C5	46:JZ:10:ILE:HG12	2.14	0.82
46:JZ:8:SER:HB2	46:JZ:50:LEU:HD21	1.61	0.82
1:AA:1455:G:H2'	1:AA:1455:G:N3	1.94	0.82
1:AA:265:G:C2	17:AQ:64:PRO:HB2	2.14	0.82
1:AA:953:G:C5	13:AM:123:ALA:O	2.32	0.82
17:AQ:9:VAL:HB	17:AQ:22:LEU:HB3	1.62	0.82
13:AM:90:LEU:HD11	19:AS:76:PRO:CD	2.10	0.82
1:AA:1221:G:HO2'	19:AS:77:THR:HG21	1.45	0.82
1:AA:332:G:C5'	20:AT:13:LEU:HD11	2.09	0.82
22:BB:1378:A:OP2	47:B1:40:HIS:ND1	2.12	0.82
22:BB:2029:G:C5'	48:B2:19:ARG:CD	2.47	0.82
23:BA:92:G:C6	34:BN:39:GLU:CG	2.63	0.82
22:BB:128:C:C5'	22:BB:1361:G:N2	2.42	0.82
22:BB:504:G:H4'	40:BT:25:PHE:CD2	2.15	0.82
22:BB:592:G:OP1	38:BR:10:ARG:HD3	1.80	0.82
22:BB:2218:G:P	24:BD:230:ASP:HA	2.20	0.82
27:BG:35:VAL:HG12	27:BG:36:VAL:H	1.45	0.82
27:BG:72:LYS:HZ1	27:BG:73:SER:H	1.24	0.82
46:BZ:8:SER:HB2	46:BZ:50:LEU:HD21	1.61	0.82
1:CA:17:U:O2'	1:CA:1079:G:H1'	1.78	0.82
1:CA:674:G:H5'	6:CF:50:TYR:HH	1.39	0.82
1:CA:932:C:OP1	7:CG:3:ARG:HB3	1.78	0.82
1:CA:1061:G:O2'	10:CJ:56:HIS:NE2	2.13	0.82
1:CA:265:G:C2'	17:CQ:65:ILE:O	2.28	0.82
22:DB:176:A:H2'	47:D1:31:ILE:CG2	2.02	0.82
22:DB:124:A:C8	50:D4:18:PHE:CE1	2.67	0.82
22:DB:1401:G:C2	22:DB:1413:U:N3	2.46	0.82
22:DB:1861:G:O6	53:D7:199:ASN:O	1.97	0.82
22:DB:2522:G:O2'	22:DB:2624:G:C8	2.32	0.82
22:DB:868:U:C1'	44:DX:25:LYS:HD3	1.85	0.82
22:DB:1834:G:C1'	24:DD:244:ARG:CD	2.41	0.82
22:DB:2628:C:C3'	32:DL:29:ILE:CD1	2.57	0.82
22:DB:1355:A:OP1	41:DU:56:MET:CA	2.28	0.82
23:DA:77:G:O2'	43:DW:30:VAL:CA	2.28	0.82
1:EA:1023:G:H2'	1:EA:1024:G:H4'	1.62	0.82
1:EA:1273:G:C5'	1:IA:1265:G:C4'	2.20	0.82
1:EA:1311:G:C8	19:ES:2:PRO:N	2.48	0.82
22:FB:1260:A:OP1	26:FF:89:ARG:NH1	2.13	0.82
22:FB:147:G:N3	22:FB:147:G:H2'	1.94	0.82
22:FB:2708:U:C4'	25:FE:21:ILE:HG13	2.08	0.82
22:FB:999:A:P	46:FZ:7:ARG:O	2.37	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:FB:1816:G:OP2	24:FD:54:ILE:HG13	1.80	0.82
22:FB:2558:C:O4'	25:FE:133:LYS:HE2	1.80	0.82
13:EM:9:ILE:HD13	27:FG:144:ASP:OD1	1.78	0.82
30:FJ:129:GLY:HA3	30:FJ:132:ARG:HH11	1.43	0.82
37:FQ:100:ARG:HH11	37:FQ:120:ASP:HB3	1.44	0.82
22:FB:590:C:H5''	38:FR:32:TYR:CD2	2.14	0.82
38:FR:45:TYR:HA	39:FS:76:SER:HG	1.43	0.82
22:FB:1007:A:C4'	38:FR:93:LYS:N	2.42	0.82
1:GA:1475:G:OP1	22:HB:1706:A:O2'	1.97	0.82
1:GA:968:A:OP2	9:GI:128:ARG:NE	2.13	0.82
10:GJ:64:GLU:O	14:GN:56:VAL:CA	2.27	0.82
22:HB:1636:G:H4'	50:H4:1:MET:HE3	1.61	0.82
23:HA:48:A:C2'	36:HP:4:ALA:N	2.42	0.82
22:HB:1994:U:C5'	40:HT:120:ARG:HB3	2.10	0.82
22:HB:2329:C:OP2	51:H5:42:ARG:CZ	2.18	0.82
22:HB:3175:C:O2'	53:H7:206:LYS:NZ	2.12	0.82
22:HB:888:G:OP1	43:HW:146:HIS:ND1	2.12	0.82
22:HB:1584:G:C5'	24:HD:59:LYS:HE2	2.00	0.82
45:HY:44:ARG:HA	45:HY:47:ARG:HB2	1.62	0.82
1:IA:1220:G:O2'	19:IS:36:ARG:HD3	1.80	0.82
1:IA:927:G:C4	1:IA:1531:A:O2'	2.23	0.82
8:IH:24:THR:HG23	8:IH:61:VAL:HB	1.61	0.82
1:IA:1348:U:P	9:II:118:LYS:HZ2	2.03	0.82
1:IA:676:A:H4'	11:IK:114:VAL:O	1.80	0.82
1:IA:675:A:N1	11:IK:116:HIS:CD2	2.30	0.82
1:IA:520:A:O3'	12:IL:73:GLU:CB	2.23	0.82
22:JB:394:U:C1'	47:J1:13:LYS:HE2	2.10	0.82
22:JB:47:G:N3	22:JB:155:G:O6	2.13	0.82
22:JB:1454:U:O4	22:JB:1567:A:N6	2.11	0.82
22:JB:2552:C:H5''	22:JB:2553:G:H5''	1.61	0.82
22:JB:66:U:C6	22:JB:87:G:N2	2.48	0.82
25:JE:5:LEU:HD22	25:JE:27:LEU:HA	1.60	0.82
22:JB:592:G:N2	26:JF:78:VAL:CB	2.29	0.82
31:JK:50:PRO:HD2	31:JK:54:LEU:HD23	1.62	0.82
5:AE:151:LEU:O	8:AH:42:GLU:O	1.96	0.81
1:AA:1375:A:H5'	7:AG:28:ASN:CB	2.10	0.81
22:BB:2276:C:H42	22:BB:2299:A:H1'	1.45	0.81
22:BB:2310:G:HO2'	44:BX:70:ILE:HG21	1.44	0.81
22:BB:2523:G:N3	22:BB:2625:U:H4'	1.95	0.81
24:BD:93:ALA:HB2	24:BD:107:ALA:HB2	1.61	0.81
22:BB:2725:C:C5'	28:BH:142:GLY:HA3	1.94	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:BB:683:A:OP1	33:BM:45:LYS:NZ	2.12	0.81
23:BA:92:G:H2'	34:BN:22:ALA:HB1	1.61	0.81
23:BA:93:G:C3'	34:BN:23:LYS:HZ1	1.92	0.81
1:CA:334:C:H1'	1:CA:1435:G:C5'	2.10	0.81
1:CA:1298:C:H41	7:CG:115:ARG:CD	1.93	0.81
1:CA:1350:A:N7	9:CI:118:LYS:HE3	1.94	0.81
13:CM:88:ARG:HH22	13:CM:99:ARG:CD	1.91	0.81
22:DB:1453:A:O3'	22:DB:1454:U:P	2.37	0.81
22:DB:464:G:C6	50:D4:39:ARG:NH2	2.47	0.81
22:DB:503:G:H1'	40:DT:28:ALA:CB	2.10	0.81
27:DG:35:VAL:HG12	27:DG:36:VAL:H	1.45	0.81
22:DB:2464:G:N3	34:DN:120:ARG:NH1	2.27	0.81
23:DA:93:G:OP1	34:DN:22:ALA:HB2	1.80	0.81
1:EA:1049:U:H5'	1:EA:1201:A:H5'	1.62	0.81
10:EJ:62:HIS:O	14:EN:59:ALA:O	1.98	0.81
22:FB:1163:C:O3'	38:FR:77:SER:HA	1.80	0.81
22:FB:1172:U:C2'	39:FS:22:VAL:HG11	2.10	0.81
22:FB:1398:G:N3	22:FB:1415:C:H2'	1.94	0.81
22:FB:2276:C:H42	22:FB:2299:A:H1'	1.45	0.81
22:FB:58:C:C1'	22:FB:72:A:C6	2.62	0.81
22:FB:2034:A:H4'	25:FE:141:ILE:CD1	2.09	0.81
22:FB:2708:U:C4'	25:FE:21:ILE:CG1	2.38	0.81
27:FG:72:LYS:HZ1	27:FG:73:SER:H	1.24	0.81
22:FB:2291:U:OP1	27:FG:85:VAL:CG2	2.28	0.81
1:GA:1199:U:H4'	10:GJ:54:PHE:HD2	1.42	0.81
1:GA:346:G:H4'	37:HQ:51:GLU:HG3	1.60	0.81
1:GA:720:C:C5'	18:GR:52:PRO:HG3	2.09	0.81
22:HB:1135:C:C2'	52:H6:4:ARG:O	2.27	0.81
22:HB:2064:U:H5'	47:H1:33:VAL:HG11	1.62	0.81
22:HB:221:A:H4'	33:HM:68:VAL:CB	2.09	0.81
22:HB:2249:U:O3'	44:HX:18:PRO:HD2	1.79	0.81
22:HB:2398:U:C4'	49:H3:21:TYR:CE2	2.63	0.81
22:HB:490:A:H3'	42:HV:3:ARG:CD	2.03	0.81
22:HB:57:G:H5'	41:HU:75:ARG:CZ	2.10	0.81
32:HL:90:ARG:NE	32:HL:91:PHE:H	1.76	0.81
22:HB:2463:G:C1'	34:HN:121:LEU:HD12	2.05	0.81
22:HB:763:A:N6	40:HT:111:ARG:NH1	2.28	0.81
7:IG:16:LEU:CD2	9:II:42:ARG:CD	2.57	0.81
12:IL:71:PRO:HG2	12:IL:102:ARG:HG3	1.62	0.81
13:IM:86:CYS:CA	19:IS:74:PHE:HD2	1.93	0.81
22:JB:1202:U:O4'	39:JS:80:TYR:CE1	2.33	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:JB:2487:G:C3'	22:JB:2534:U:H5'	2.09	0.81
22:JB:1406:A:H61	41:JU:15:LYS:CG	1.92	0.81
22:JB:348:U:H4'	42:JV:13:LYS:HD3	1.05	0.81
43:JW:51:LEU:CD2	43:JW:128:ARG:HD2	2.09	0.81
43:JW:65:LEU:HD22	43:JW:128:ARG:NE	1.94	0.81
43:JW:51:LEU:HD22	43:JW:128:ARG:CD	2.08	0.81
1:AA:877:C:H4'	8:AH:89:PRO:CG	2.09	0.81
10:AJ:65:LEU:HB2	14:AN:56:VAL:CA	2.10	0.81
22:BB:1379:A:H5'	47:B1:4:ASP:OD2	1.79	0.81
22:BB:1008:G:OP1	38:BR:93:LYS:HG2	1.80	0.81
22:BB:157:G:C5'	50:B4:36:ALA:CB	2.57	0.81
22:BB:1804:U:H1'	24:BD:46:ARG:CD	2.10	0.81
22:BB:226:C:P	47:B1:28:ARG:NH1	2.53	0.81
22:BB:2753:C:H4'	25:BE:163:GLU:HG2	1.61	0.81
22:BB:795:A:H61	24:BD:222:ARG:HE	1.29	0.81
22:BB:999:A:OP2	46:BZ:10:ILE:CD1	2.22	0.81
22:BB:1673:C:H3'	25:BE:136:ARG:HE	1.44	0.81
26:BF:16:GLU:HG3	26:BF:17:LEU:H	1.44	0.81
30:BJ:129:GLY:HA3	30:BJ:132:ARG:HH11	1.43	0.81
22:BB:2463:G:C2	34:BN:120:ARG:CD	2.55	0.81
25:BE:176:ARG:CD	37:BQ:19:ASP:OD1	2.17	0.81
22:BB:827:C:C5'	39:BS:83:ARG:C	2.47	0.81
1:CA:1257:U:P	3:CC:27:LYS:HZ2	1.92	0.81
1:CA:19:C:H5''	5:CE:86:ALA:HB1	1.62	0.81
12:CL:71:PRO:HG2	12:CL:102:ARG:HG3	1.62	0.81
22:DB:1234:C:H4'	39:DS:68:LYS:CD	2.10	0.81
22:DB:2394:G:O2'	33:DM:64:GLY:HA2	1.80	0.81
22:DB:2551:A:OP2	25:DE:144:ARG:HG2	1.78	0.81
22:DB:2717:G:O6	22:DB:2748:C:N4	2.11	0.81
22:DB:2733:A:H1'	52:D6:15:LYS:NZ	1.95	0.81
22:DB:699:G:N3	50:D4:5:TYR:CA	2.27	0.81
32:DL:91:PHE:CD1	37:DQ:79:ARG:CG	2.63	0.81
1:EA:1310:G:N7	19:ES:2:PRO:CD	2.43	0.81
1:EA:1349:A:P	9:EI:118:LYS:HD3	2.20	0.81
1:EA:537:G:OP1	12:EL:113:ARG:CZ	2.28	0.81
1:EA:1225:A:C5'	13:EM:101:GLN:C	2.32	0.81
1:EA:258:G:O3'	20:ET:80:ARG:NH1	2.10	0.81
49:F3:26:LYS:HZ2	51:F5:33:ASN:HD22	1.26	0.81
23:FA:53:G:OP1	36:FP:63:ASN:OD1	1.87	0.81
22:FB:1405:A:N6	41:FU:15:LYS:CB	2.43	0.81
22:FB:1630:A:H61	40:FT:108:PRO:C	1.81	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:FB:1636:G:O4'	50:F4:1:MET:N	2.11	0.81
22:FB:2623:A:C2'	22:FB:2624:G:C4	2.62	0.81
27:FG:35:VAL:HG12	27:FG:36:VAL:H	1.46	0.81
31:FK:50:PRO:HD2	31:FK:54:LEU:HD23	1.62	0.81
22:FB:227:G:C4'	33:FM:55:ARG:NE	2.37	0.81
22:FB:1240:G:OP2	38:FR:16:LYS:CG	2.22	0.81
1:GA:1192:C:P	3:GC:4:LYS:HZ2	2.03	0.81
4:GD:126:ILE:HG22	4:GD:127:THR:H	1.45	0.81
11:GK:61:ALA:HB1	11:GK:94:ALA:HB2	1.60	0.81
1:GA:274:A:H5'	17:GQ:14:LYS:HG3	1.61	0.81
22:HB:2462:C:C1'	34:HN:50:ALA:CB	2.57	0.81
22:HB:2541:U:C4'	32:HL:23:ARG:NH1	2.38	0.81
22:HB:2608:A:O3'	22:HB:2609:G:P	2.38	0.81
22:HB:795:A:O2'	24:HD:226:MET:SD	2.37	0.81
22:HB:1040:A:C1'	34:HN:123:GLY:O	2.28	0.81
1:IA:608:A:C2	16:IP:31:LYS:HD2	2.15	0.81
1:IA:835:U:H5''	18:IR:64:ARG:CZ	2.09	0.81
1:IA:1320:C:C5'	19:IS:3:ARG:HD3	2.10	0.81
22:JB:115:G:C3'	50:J4:22:MET:CE	2.29	0.81
22:JB:1018:C:O2'	31:JK:135:LEU:O	1.95	0.81
22:JB:1270:C:C1'	26:JF:77:PHE:CD1	2.62	0.81
1:IA:1408:A:H5''	22:JB:1900:U:O4	1.80	0.81
22:JB:594:G:OP1	26:JF:82:VAL:CG2	2.28	0.81
22:JB:597:U:C2'	26:JF:84:PHE:HE2	1.93	0.81
22:JB:1468:A:C6	35:JO:80:MET:CB	2.62	0.81
43:JW:51:LEU:HD13	43:JW:128:ARG:HD2	0.86	0.81
1:AA:265:G:H21	17:AQ:70:ARG:HH22	1.27	0.81
9:AI:49:PRO:HG3	9:AI:81:ILE:HD13	1.62	0.81
11:AK:61:ALA:HB1	11:AK:94:ALA:HB2	1.60	0.81
1:AA:668:G:N3	15:AO:45:VAL:CB	2.42	0.81
22:BB:2328:G:P	51:B5:41:ILE:HD12	2.20	0.81
22:BB:4:C:O2	22:BB:2874:A:N6	2.11	0.81
22:BB:419:G:H5''	53:B7:198:THR:HG23	1.61	0.81
1:CA:1375:A:H5'	7:CG:28:ASN:HB3	1.61	0.81
1:CA:17:U:O2	1:CA:1079:G:N3	2.13	0.81
1:CA:559:A:N6	5:CE:126:ARG:NH1	2.28	0.81
6:CF:48:LEU:HA	18:CR:78:LEU:HA	1.61	0.81
12:CL:102:ARG:HB2	12:CL:110:VAL:HG23	1.62	0.81
8:CH:91:ARG:NH2	17:CQ:32:TYR:CB	2.43	0.81
1:CA:236:G:C4'	17:CQ:42:TYR:OH	2.28	0.81
23:DA:92:G:C2	34:DN:22:ALA:C	2.34	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:DB:1674:C:H5''	25:DE:134:TRP:HB2	1.61	0.81
25:DE:5:LEU:HD22	25:DE:27:LEU:HA	1.60	0.81
26:DF:16:GLU:HG3	26:DF:17:LEU:H	1.44	0.81
22:DB:229:G:H5''	33:DM:48:PHE:CZ	2.14	0.81
34:DN:36:ILE:CG1	43:DW:74:ARG:CA	2.40	0.81
1:EA:927:G:H4'	1:EA:1531:A:H2	1.45	0.81
1:EA:589:C:O2'	8:EH:29:SER:CA	2.28	0.81
1:EA:753:A:H1'	8:EH:1:MET:HB2	1.63	0.81
10:EJ:62:HIS:CG	14:EN:61:TRP:CH2	2.69	0.81
22:FB:2325:A:H2'	49:F3:25:THR:CB	2.10	0.81
22:FB:3875:A:C4'	53:F7:43:LYS:CD	2.58	0.81
22:FB:1072:U:N3	30:FJ:11:GLN:CA	2.43	0.81
22:FB:2551:A:N6	25:FE:145:LYS:N	2.26	0.81
22:FB:2510:A:C4'	28:FH:157:TYR:HE2	1.93	0.81
32:FL:2:ILE:HG22	32:FL:45:ALA:H	1.43	0.81
22:FB:590:C:C5'	38:FR:32:TYR:CB	2.58	0.81
40:FT:52:ASP:OD1	48:F2:29:ASN:OD1	1.97	0.81
22:FB:981:C:H5'	46:FZ:10:ILE:HG23	1.62	0.81
1:GA:1190:G:OP1	3:GC:4:LYS:HA	1.79	0.81
3:GC:57:ILE:HG23	3:GC:66:VAL:HG22	1.63	0.81
9:GI:49:PRO:HG3	9:GI:81:ILE:HD13	1.62	0.81
15:GO:36:ILE:HA	15:GO:39:LEU:HB3	1.61	0.81
20:GT:13:LEU:HD22	20:GT:17:ARG:HG3	1.60	0.81
22:HB:759:C:O3'	48:H2:2:ALA:N	2.13	0.81
22:HB:1119:U:H3'	22:HB:1120:C:OP1	1.80	0.81
22:HB:1142:G:OP1	31:HK:107:GLN:CB	2.28	0.81
22:HB:1401:G:N1	22:HB:1413:U:N3	2.27	0.81
1:GA:1494:G:O2'	22:HB:1895:A:O2'	1.96	0.81
22:HB:2725:C:O2'	28:HH:141:VAL:HG22	1.80	0.81
22:HB:3123:G:H5''	53:H7:108:GLU:OE1	1.81	0.81
22:HB:3876:A:C6	53:H7:45:ASP:N	2.49	0.81
22:HB:596:C:H3'	33:HM:29:THR:OG1	1.79	0.81
22:HB:818:G:O3'	33:HM:41:SER:CB	2.29	0.81
22:HB:515:A:OP1	40:HT:15:LYS:NZ	2.12	0.81
22:HB:2343:C:HO2'	44:HX:66:LYS:HB3	1.41	0.81
1:IA:1057:G:C4'	3:IC:196:LEU:HD23	2.09	0.81
1:IA:1392:G:O4'	1:IA:1530:G:O3'	1.97	0.81
1:IA:637:G:C4'	17:IQ:2:PRO:CD	2.54	0.81
22:JB:2208:U:C4	47:J1:42:PHE:CE1	2.65	0.81
22:JB:1885:C:O3'	24:JD:244:ARG:NH2	2.09	0.81
22:JB:2638:G:H8	28:JH:179:THR:HA	1.44	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:JA:117:G:H5'	36:JP:51:LEU:N	1.93	0.81
22:JB:1335:A:O2'	40:JT:105:ARG:NH2	2.13	0.81
1:AA:895:G:H1'	17:AQ:100:LYS:HZ1	1.46	0.81
3:AC:113:ALA:HB3	3:AC:184:TYR:HA	1.62	0.81
13:AM:87:TYR:CE2	13:AM:91:ARG:CG	2.59	0.81
1:AA:43:C:C4'	16:AP:12:LYS:HE3	2.09	0.81
16:AP:4:ILE:HB	16:AP:66:PRO:HA	1.61	0.81
23:BA:106:U:C2'	43:BW:88:TYR:HB3	2.11	0.81
22:BB:1149:G:OP1	31:BK:130:ALA:HB1	1.79	0.81
22:BB:1175:A:C6	22:BB:1198:C:C2	2.68	0.81
22:BB:1374:G:OP1	47:B1:52:THR:HG23	1.79	0.81
22:BB:1670:G:P	22:BB:2797:G:H1	2.03	0.81
22:BB:886:A:N3	43:BW:167:THR:OG1	2.13	0.81
1:CA:1080:A:H4'	5:CE:17:ALA:O	1.80	0.81
1:CA:1108:G:H5''	3:CC:176:HIS:ND1	1.95	0.81
1:CA:1517:G:C8	22:DB:1902:A:O3'	2.33	0.81
1:CA:706:A:O2'	11:CK:29:ILE:HD13	1.81	0.81
1:CA:720:C:C5'	18:CR:52:PRO:CB	2.57	0.81
3:CC:113:ALA:HB3	3:CC:184:TYR:HA	1.62	0.81
1:CA:1080:A:O3'	5:CE:17:ALA:C	2.18	0.81
1:CA:970:C:H41	9:CI:128:ARG:HH12	1.25	0.81
1:CA:135:C:O2'	16:CP:1:MET:SD	2.38	0.81
22:DB:2276:C:H42	22:DB:2299:A:H1'	1.46	0.81
22:DB:2498:U:H5'	22:DB:2546:G:H21	1.38	0.81
1:EA:1312:G:N7	19:ES:4:SER:HB3	1.93	0.81
1:EA:927:G:H5''	1:EA:1503:A:OP1	1.81	0.81
1:EA:1073:U:O2	2:EB:107:THR:CG2	2.28	0.81
1:EA:1103:C:C2	2:EB:111:ARG:HG3	2.10	0.81
10:EJ:63:PHE:HD2	14:EN:57:ARG:O	1.62	0.81
22:FB:548:G:H1'	31:FK:33:ILE:HG23	1.58	0.81
1:GA:17:U:H5''	5:GE:14:ARG:CG	2.10	0.81
1:GA:236:G:H4'	17:GQ:25:ARG:HE	1.43	0.81
1:GA:192:U:C4'	20:GT:56:MET:SD	2.66	0.81
22:HB:2273:C:OP2	36:HP:11:LEU:CB	2.28	0.81
22:HB:2365:U:C1'	44:HX:37:LEU:CG	2.52	0.81
22:HB:1954:A:N7	24:HD:239:ARG:HA	1.95	0.81
27:HG:35:VAL:HG12	27:HG:36:VAL:H	1.45	0.81
22:HB:2619:G:OP1	31:HK:122:HIS:CG	2.33	0.81
22:HB:567:G:H5'	31:HK:73:ASN:OD1	1.81	0.81
22:HB:1994:U:H5''	40:HT:120:ARG:CB	2.10	0.81
34:HN:63:GLY:CA	43:HW:112:LEU:HD22	2.11	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:IA:1380:U:C4	7:IG:3:ARG:CG	2.63	0.81
1:IA:15:G:C2	5:IE:17:ALA:HB3	2.13	0.81
1:IA:260:G:O6	20:IT:83:ARG:NH2	2.13	0.81
3:IC:113:ALA:HB3	3:IC:184:TYR:HA	1.62	0.81
22:JB:469:G:P	50:J4:40:HIS:CA	2.60	0.81
22:JB:3178:C:O2'	53:J7:39:ILE:HG13	1.80	0.81
22:JB:46:C:H42	22:JB:156:G:H1	1.00	0.81
22:JB:2276:C:H42	22:JB:2299:A:H1'	1.45	0.81
22:JB:455:A:N7	26:JF:39:ARG:HD3	1.95	0.81
22:JB:2742:G:H1'	28:JH:150:LYS:HG2	1.61	0.81
22:JB:2850:U:N1	37:JQ:13:LEU:HD12	1.95	0.81
38:JR:88:ILE:CB	39:JS:51:ALA:HB1	2.00	0.81
43:JW:65:LEU:CA	43:JW:128:ARG:NH1	2.37	0.81
1:AA:1060:C:H5'	10:AJ:52:GLY:CA	2.11	0.81
1:AA:43:C:P	16:AP:12:LYS:NZ	2.53	0.81
8:AH:24:THR:HG23	8:AH:61:VAL:HB	1.60	0.81
1:AA:1231:G:N3	13:AM:126:LYS:CD	2.44	0.81
22:BB:1042:G:N7	52:B6:6:SER:HB2	1.93	0.81
22:BB:1416:A:H4'	22:BB:1485:U:C1'	2.07	0.81
22:BB:2343:C:HO2'	44:BX:66:LYS:HB3	1.41	0.81
22:BB:505:G:N9	40:BT:82:ASN:CB	2.43	0.81
27:BG:148:LYS:HD3	27:BG:149:THR:H	1.46	0.81
32:BL:86:GLY:O	37:BQ:83:PHE:C	2.18	0.81
22:BB:1325:U:C4	41:BU:61:LYS:HD2	2.15	0.81
22:BB:865:A:H1'	46:BZ:39:ALA:HB1	1.59	0.81
23:DA:117:G:C5'	36:DP:52:ALA:CA	2.53	0.81
22:DB:1232:U:H2'	22:DB:1243:G:H1	1.46	0.81
22:DB:2283:G:O2'	27:DG:153:ASP:CG	2.18	0.81
22:DB:2724:G:N3	28:DH:143:GLN:OE1	2.13	0.81
22:DB:1383:C:H5'	24:DD:48:ARG:HD3	1.62	0.81
24:DD:84:TYR:HA	24:DD:91:ARG:HA	1.62	0.81
24:DD:93:ALA:HB2	24:DD:107:ALA:HB2	1.61	0.81
1:EA:1057:G:O2'	3:EC:197:GLY:CA	2.29	0.81
1:EA:1139:G:H22	1:EA:1143:G:H1	1.28	0.81
1:EA:538:G:C5'	12:EL:114:LYS:HB2	2.10	0.81
1:EA:641:U:C6	8:EH:116:LYS:CG	2.63	0.81
3:EC:57:ILE:HG23	3:EC:66:VAL:HG22	1.63	0.81
1:EA:1350:A:O2'	7:EG:33:ASP:OD1	1.98	0.81
1:EA:966:G:N3	9:EI:128:ARG:O	2.13	0.81
1:EA:1151:A:OP1	10:EJ:44:VAL:HG23	1.80	0.81
22:FB:1261:G:OP1	26:FF:86:PRO:CG	2.24	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:FB:2006:G:H1'	25:FE:149:ARG:NH1	1.95	0.81
22:FB:2186:G:H1'	24:FD:150:GLY:N	1.96	0.81
22:FB:2612:G:C1'	25:FE:62:PRO:HG3	2.10	0.81
22:FB:742:G:C5	24:FD:208:LYS:HE2	2.15	0.81
38:FR:54:LYS:HE2	38:FR:93:LYS:HZ1	1.45	0.81
22:FB:312:G:C4'	42:FV:89:GLY:CA	2.54	0.81
34:FN:27:TYR:HB2	43:FW:73:LYS:HG3	0.82	0.81
45:FY:44:ARG:HA	45:FY:47:ARG:HB2	1.63	0.81
1:GA:718:G:C5	18:GR:81:PHE:HE2	1.95	0.81
22:HB:1374:G:C4'	47:H1:53:GLU:HG3	2.10	0.81
22:HB:3170:A:C2'	53:H7:130:PRO:HG3	2.10	0.81
22:HB:1889:G:OP1	22:HB:1913:G:H8	1.61	0.81
22:HB:48:A:N6	22:HB:153:A:H61	1.56	0.81
25:HE:54:LYS:HB2	37:HQ:6:LYS:HZ2	1.46	0.81
27:HG:136:LEU:HG	27:HG:138:PHE:HD2	1.43	0.81
22:HB:2541:U:C3'	32:HL:23:ARG:HH11	1.93	0.81
32:HL:85:ASP:CG	37:HQ:87:LEU:HD22	2.00	0.81
1:IA:537:G:H5''	12:IL:113:ARG:HH11	1.39	0.81
1:IA:675:A:N1	11:IK:116:HIS:CA	2.43	0.81
1:IA:973:G:H1'	10:IJ:54:PHE:CE2	2.15	0.81
22:JB:1781:C:P	24:JD:222:ARG:NH1	2.51	0.81
22:JB:2002:A:H4'	38:JR:31:GLN:OE1	1.79	0.81
22:JB:2258:G:H1'	22:JB:2306:A:H1'	0.85	0.81
22:JB:847:C:O2'	22:JB:2337:A:C1'	2.26	0.81
22:JB:2786:G:O4'	25:JE:61:LYS:CD	2.27	0.81
35:JO:95:THR:HG21	35:JO:113:ILE:HG23	1.60	0.81
1:AA:1350:A:N7	9:AI:118:LYS:CD	2.44	0.81
5:AE:11:ILE:HD11	5:AE:33:VAL:HG23	1.62	0.81
5:AE:80:ILE:CG2	8:AH:138:TRP:CE3	2.63	0.81
13:AM:88:ARG:CD	13:AM:92:HIS:HE1	1.93	0.81
1:AA:975:A:C8	14:AN:34:TYR:CE1	2.69	0.81
22:BB:2789:U:O2	48:B2:41:LEU:C	2.17	0.81
22:BB:1232:U:H2'	22:BB:1243:G:H1	1.46	0.81
22:BB:1398:G:C4	22:BB:1416:A:C6	2.69	0.81
22:BB:2861:A:C1'	48:B2:33:CYS:O	2.28	0.81
22:BB:676:G:C2'	22:BB:950:G:O2'	2.27	0.81
22:BB:1810:U:OP1	24:BD:157:ARG:HG3	1.81	0.81
29:BI:45:THR:H	29:BI:48:ALA:HB3	1.43	0.81
22:BB:511:A:N1	40:BT:12:LYS:HD2	1.96	0.81
1:CA:1139:G:H22	1:CA:1143:G:H1	1.28	0.81
1:CA:1350:A:O2'	7:CG:33:ASP:CA	2.21	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:CH:10:LEU:HD22	8:CH:83:ILE:HD11	1.62	0.81
1:CA:690:G:OP1	11:CK:27:ASN:CB	2.29	0.81
22:DB:2399:C:N4	51:D5:31:HIS:HD1	1.60	0.81
22:DB:2492:G:H2'	22:DB:2493:U:C6	2.15	0.81
22:DB:318:G:C4'	40:DT:12:LYS:CE	2.58	0.81
22:DB:967:G:P	34:DN:76:THR:O	2.38	0.81
22:DB:625:A:N1	26:DF:176:ASN:HB2	1.96	0.81
1:EA:518:C:H1'	12:EL:51:ALA:HA	0.83	0.81
1:EA:1102:A:C2	2:EB:108:ILE:CD1	2.53	0.81
4:ED:83:SER:HA	4:ED:89:THR:HG23	1.63	0.81
1:EA:265:G:N3	17:EQ:67:LYS:CE	2.43	0.81
1:EA:1318:A:C3'	19:ES:10:PHE:HB2	2.09	0.81
1:EA:186:C:C4'	20:ET:81:LYS:HD3	2.06	0.81
22:FB:2264:C:OP2	49:F3:28:ARG:CD	2.27	0.81
22:FB:1232:U:H2'	22:FB:1243:G:H1	1.46	0.81
22:FB:2330:G:O6	51:F5:39:ASP:OD1	1.97	0.81
22:FB:2393:G:O2'	33:FM:65:PHE:N	2.14	0.81
22:FB:2372:A:H2'	33:FM:59:ARG:HG3	1.60	0.81
22:FB:1237:G:H4'	39:FS:87:ARG:CB	2.09	0.81
22:FB:64:C:O5'	41:FU:70:GLY:O	1.98	0.81
1:GA:1225:A:P	13:GM:102:ARG:CB	2.67	0.81
1:GA:1398:A:C6	5:GE:22:GLY:HA3	2.15	0.81
10:GJ:50:ILE:C	14:GN:45:ARG:HD3	1.95	0.81
22:HB:1139:A:N1	22:HB:2470:U:O4	2.13	0.81
22:HB:2745:A:O3'	22:HB:2746:G:P	2.38	0.81
22:HB:2760:G:HO2'	31:HK:149:LYS:HD3	1.41	0.81
22:HB:2007:G:C1'	31:HK:103:TYR:OH	2.29	0.81
22:HB:2464:G:O3'	34:HN:123:GLY:HA3	1.80	0.81
22:HB:1022:A:OP1	38:HR:76:TYR:HD2	1.62	0.81
1:IA:675:A:C2	11:IK:116:HIS:N	2.49	0.81
4:ID:120:LEU:HB3	4:ID:125:HIS:HB2	1.61	0.81
1:IA:1186:G:C1'	9:II:113:LYS:NZ	2.44	0.81
3:IC:26:LYS:CE	10:IJ:95:GLU:HG3	2.08	0.81
12:IL:16:GLU:C	12:IL:17:LYS:N	2.34	0.81
12:IL:47:LYS:HG3	12:IL:48:PRO:HD3	1.63	0.81
33:JM:72:TYR:CD2	51:J5:64:ARG:HG2	2.14	0.81
22:JB:1041:G:H21	52:J6:6:SER:HB2	1.41	0.81
22:JB:1003:C:H4'	39:JS:74:TYR:HD2	1.36	0.81
22:JB:1270:C:H1'	26:JF:77:PHE:CG	2.16	0.81
22:JB:1289:A:OP1	22:JB:1662:G:C2'	2.28	0.81
22:JB:2239:C:O2	22:JB:2367:A:O2'	1.96	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:JB:2398:U:H3'	51:J5:34:THR:CB	2.10	0.81
22:JB:57:G:H3'	41:JU:75:ARG:NH1	1.93	0.81
22:JB:795:A:N1	24:JD:53:PHE:CE1	2.48	0.81
24:JD:84:TYR:HA	24:JD:91:ARG:HA	1.62	0.81
23:JA:117:G:O3'	36:JP:52:ALA:C	2.18	0.81
22:JB:2823:G:C5'	37:JQ:103:LYS:HG2	2.07	0.81
1:AA:1151:A:O4'	10:AJ:39:PRO:HG3	1.80	0.81
1:AA:254:G:N9	17:AQ:16:GLN:O	2.13	0.81
1:AA:668:G:N3	15:AO:45:VAL:CG1	2.43	0.81
2:AB:200:ILE:HG22	2:AB:202:PRO:HD3	1.63	0.81
1:AA:1382:C:C5'	7:AG:79:ARG:CG	2.58	0.81
22:BB:3124:G:H1'	53:B7:31:GLU:OE1	1.81	0.81
22:BB:2510:A:H1'	22:BB:2637:C:O2'	1.81	0.81
22:BB:686:C:H2'	26:BF:68:ARG:HH22	1.44	0.81
32:BL:86:GLY:O	37:BQ:84:ALA:N	2.13	0.81
32:BL:89:ILE:HA	37:BQ:81:PHE:CG	2.16	0.81
22:BB:828:C:H5'	39:BS:86:HIS:CD2	2.14	0.81
22:DB:2398:U:C4	51:D5:31:HIS:HA	2.16	0.81
22:DB:917:U:C4'	43:DW:121:GLN:O	2.29	0.81
27:DG:148:LYS:HD3	27:DG:149:THR:H	1.46	0.81
32:DL:47:VAL:HG13	32:DL:48:GLY:H	1.46	0.81
43:DW:84:TYR:CZ	43:DW:91:PRO:CG	2.64	0.81
1:EA:1367:C:C2'	10:EJ:60:ARG:HH22	1.93	0.81
1:EA:439:A:H4'	4:ED:122:ARG:NH2	1.95	0.81
1:EA:928:G:O3'	1:EA:1533:C:N4	2.14	0.81
5:EE:11:ILE:HD11	5:EE:33:VAL:HG23	1.62	0.81
23:FA:9:G:C4'	36:FP:32:TYR:CZ	2.59	0.81
22:FB:1029:C:O2'	22:FB:1131:G:N2	2.13	0.81
22:FB:1636:G:H5'	50:F4:1:MET:HE1	1.57	0.81
22:FB:2263:C:OP2	49:F3:9:ILE:HG13	1.80	0.81
22:FB:2311:U:H4'	22:FB:2315:A:H62	1.46	0.81
22:FB:2708:U:C2'	25:FE:21:ILE:HG13	2.10	0.81
22:FB:3177:C:H4'	53:F7:163:PRO:CG	2.06	0.81
22:FB:504:G:C4'	40:FT:25:PHE:CD2	2.63	0.81
22:FB:2007:G:C5'	25:FE:149:ARG:HD2	2.11	0.81
25:FE:24:THR:HG23	25:FE:183:LEU:HG	1.61	0.81
29:FI:45:THR:H	29:FI:48:ALA:HB3	1.44	0.81
22:FB:1073:G:H5'	30:FJ:11:GLN:HE22	1.44	0.81
34:FN:32:ASP:OD1	43:FW:117:VAL:HG22	1.81	0.81
22:FB:339:U:O4'	42:FV:77:HIS:CE1	2.34	0.81
43:FW:96:VAL:HB	43:FW:123:VAL:HG11	1.63	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:FN:27:TYR:CB	43:FW:73:LYS:CB	2.57	0.81
2:GB:200:ILE:HG22	2:GB:202:PRO:HD3	1.63	0.81
12:GL:71:PRO:HG2	12:GL:102:ARG:HG3	1.62	0.81
1:GA:252:U:O2'	17:GQ:68:ARG:NH2	2.13	0.81
22:HB:1385:C:H1'	22:HB:2193:C:C4	2.16	0.81
22:HB:2241:U:O4'	22:HB:2307:A:H1'	1.80	0.81
22:HB:2339:A:OP1	51:H5:49:VAL:CB	2.24	0.81
22:HB:2448:A:C3'	34:HN:57:ARG:NH1	2.43	0.81
22:HB:3093:C:C4'	22:HB:2181:A:C2	2.64	0.81
37:HQ:100:ARG:HH11	37:HQ:120:ASP:HB3	1.44	0.81
22:HB:935:C:H5'	44:HX:26:PHE:HE2	1.46	0.81
22:HB:2365:U:H4'	44:HX:37:LEU:HD11	1.49	0.81
1:IA:1117:G:O2'	9:II:104:ARG:HD2	1.79	0.81
1:IA:1187:G:C1'	9:II:113:LYS:CD	2.59	0.81
1:IA:247:G:O6	17:IQ:96:GLN:NE2	2.13	0.81
22:JB:3170:A:HO2'	53:J7:131:ARG:HH12	1.17	0.81
22:JB:113:C:H1'	22:JB:125:A:C1'	2.11	0.81
22:JB:2258:G:C2	22:JB:2306:A:C4	2.68	0.81
22:JB:2311:U:H4'	22:JB:2315:A:H62	1.46	0.81
22:JB:1040:A:H1'	22:JB:2465:G:C4'	2.10	0.81
22:JB:2637:C:H6	28:JH:179:THR:HG23	1.42	0.81
22:JB:2826:C:O4'	35:JO:61:HIS:CD2	2.33	0.81
24:JD:93:ALA:HB2	24:JD:107:ALA:HB2	1.61	0.81
25:JE:24:THR:HG23	25:JE:183:LEU:HG	1.62	0.81
27:JG:35:VAL:HG12	27:JG:36:VAL:H	1.45	0.81
22:JB:75:C:N3	45:JY:59:GLU:OE1	2.14	0.81
1:AA:1360:A:H5'	14:AN:35:ARG:NH2	1.94	0.81
1:AA:975:A:N7	14:AN:34:TYR:CE1	2.44	0.81
1:AA:1131:G:H5''	9:AI:2:GLU:HB3	1.61	0.81
15:AO:16:ALA:HB1	15:AO:21:ASP:HB3	1.63	0.81
1:AA:667:G:C4	15:AO:49:ASP:HB2	2.16	0.81
1:AA:43:C:P	16:AP:12:LYS:CD	2.68	0.81
22:BB:2370:G:C2'	22:BB:2371:A:P	2.69	0.81
22:BB:2463:G:H21	34:BN:120:ARG:HG2	0.65	0.81
22:BB:1325:U:C4	41:BU:61:LYS:HB2	2.14	0.81
1:CA:436:C:O2'	4:CD:157:LEU:CB	2.29	0.81
1:CA:1308:U:H5''	13:CM:97:PRO:HA	1.63	0.81
22:DB:1002:C:N3	22:DB:1174:G:N2	2.28	0.81
22:DB:1483:G:O6	22:DB:1539:U:C4	2.34	0.81
1:CA:702:A:C2	22:DB:1839:A:H4'	2.15	0.81
22:DB:318:G:H3'	40:DT:12:LYS:HE2	1.61	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:DB:687:G:H5'	26:DF:68:ARG:HH21	1.42	0.81
31:DK:50:PRO:HD2	31:DK:54:LEU:HD23	1.62	0.81
32:DL:119:ARG:HH21	37:DQ:43:ASN:ND2	1.74	0.81
22:DB:1670:G:N2	35:DO:11:ASN:OD1	2.13	0.81
22:DB:1274:C:P	40:DT:118:LYS:HE3	2.20	0.81
22:DB:999:A:OP1	46:DZ:9:VAL:CG2	2.28	0.81
8:EH:10:LEU:HD22	8:EH:83:ILE:HD11	1.63	0.81
1:EA:1114:C:C1'	14:EN:61:TRP:HB3	2.09	0.81
22:FB:113:C:H1'	22:FB:125:A:C1'	2.11	0.81
22:FB:1635:G:O3'	50:F4:1:MET:HE1	1.77	0.81
22:FB:2400:G:OP2	51:F5:32:GLN:CG	2.25	0.81
22:FB:2708:U:H4'	25:FE:21:ILE:HG13	1.62	0.81
22:FB:504:G:H4'	40:FT:25:PHE:HE2	1.44	0.81
23:FA:44:C:C4'	27:FG:64:LYS:HE3	2.11	0.81
22:FB:2313:G:HO2'	36:FP:15:ARG:NH1	1.68	0.81
22:FB:1234:C:H5''	39:FS:68:LYS:HZ3	1.42	0.81
1:GA:1393:U:P	1:GA:1530:G:OP2	2.39	0.81
1:GA:265:G:C2	17:GQ:64:PRO:CB	2.55	0.81
1:GA:1071:C:H4'	3:GC:167:TRP:HH2	1.45	0.81
5:GE:11:ILE:HD11	5:GE:33:VAL:HG23	1.62	0.81
9:GI:48:GLU:HB2	9:GI:78:LYS:HZ1	1.45	0.81
1:GA:107:G:H22	20:GT:12:ALA:HA	1.45	0.81
22:HB:759:C:C4'	48:H2:2:ALA:HB3	2.09	0.81
22:HB:124:A:N7	50:H4:45:SER:HB2	1.94	0.81
51:H5:35:GLY:H	51:H5:36:LYS:HZ3	1.29	0.81
22:HB:1236:G:N7	39:HS:71:ILE:HD12	1.96	0.81
22:HB:2591:C:C2'	48:H2:4:HIS:HB2	1.95	0.81
22:HB:8:A:N6	22:HB:2869:U:O4	2.14	0.81
22:HB:63:A:C2	22:HB:89:A:N6	2.49	0.81
22:HB:640:C:H4'	22:HB:660:G:H21	1.44	0.81
1:IA:1114:C:O2	14:IN:61:TRP:OXT	1.98	0.81
1:IA:186:C:C5'	20:IT:81:LYS:HE2	2.09	0.81
1:IA:653:A:N6	8:IH:29:SER:HB3	1.85	0.81
1:IA:1225:A:H61	13:IM:104:ARG:HH22	0.85	0.81
10:IJ:51:ARG:HA	14:IN:45:ARG:HD2	1.62	0.81
22:JB:2791:C:H5'	48:J2:43:HIS:ND1	1.95	0.81
22:JB:1335:A:H4'	40:JT:103:LEU:HD21	1.60	0.81
22:JB:226:C:H2'	22:JB:2373:C:C1'	2.06	0.81
22:JB:2528:G:C6	22:JB:2539:C:N4	2.48	0.81
22:JB:2721:A:H5''	52:J6:36:GLN:OXT	1.80	0.81
22:JB:687:G:H5'	26:JF:70:GLY:O	1.80	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:JB:672:C:O3'	26:JF:93:TYR:HA	1.81	0.81
23:JA:51:G:C5'	36:JP:97:HIS:O	2.28	0.81
43:JW:96:VAL:HB	43:JW:123:VAL:HG11	1.63	0.81
1:AA:1139:G:H22	1:AA:1143:G:H1	1.28	0.81
1:AA:1151:A:H4'	10:AJ:39:PRO:CB	2.07	0.81
1:AA:545:C:H4'	4:AD:72:GLU:OE2	1.80	0.81
1:AA:625:G:OP1	16:AP:9:PHE:O	1.97	0.81
1:AA:559:A:C6	5:AE:126:ARG:CZ	2.55	0.81
12:AL:102:ARG:HB2	12:AL:110:VAL:HG23	1.62	0.81
1:AA:1230:C:O2'	13:AM:125:ARG:NH1	2.14	0.81
1:AA:265:G:C2	17:AQ:64:PRO:CB	2.64	0.81
23:BA:93:G:C4'	34:BN:23:LYS:HZ1	1.92	0.81
22:BB:596:C:H2'	33:BM:29:THR:CB	2.04	0.81
22:BB:597:U:H4'	33:BM:28:LYS:NZ	1.94	0.81
1:CA:1101:A:OP2	2:CB:98:LEU:HA	1.80	0.81
1:CA:690:G:OP1	11:CK:27:ASN:HB2	1.81	0.81
1:CA:1060:C:C6	3:CC:2:GLY:N	2.48	0.81
4:CD:120:LEU:HB3	4:CD:125:HIS:HB2	1.61	0.81
1:CA:508:C:H4'	4:CD:54:TYR:CD1	2.16	0.81
1:CA:1374:A:C4'	7:CG:28:ASN:OD1	2.22	0.81
9:CI:49:PRO:HG3	9:CI:81:ILE:HD13	1.62	0.81
22:DB:2003:A:H62	48:D2:9:LYS:CE	1.92	0.81
22:DB:2745:A:C4	22:DB:2746:G:C1'	2.63	0.81
22:DB:4:C:N4	22:DB:2873:G:O6	2.13	0.81
32:DL:90:ARG:C	37:DQ:79:ARG:HD3	2.02	0.81
34:DN:36:ILE:O	43:DW:74:ARG:NH1	2.13	0.81
22:DB:967:G:H5''	34:DN:76:THR:C	2.01	0.81
1:CA:1433:A:H4'	37:DQ:116:ARG:NH1	1.93	0.81
22:DB:319:G:OP2	40:DT:12:LYS:HD2	1.80	0.81
1:EA:194:C:H1'	20:ET:68:LYS:HD2	1.62	0.81
4:ED:126:ILE:HG22	4:ED:127:THR:H	1.45	0.81
22:FB:1274:C:OP2	40:FT:118:LYS:HE3	1.81	0.81
22:FB:1829:C:C5'	22:FB:1911:A:C4'	2.32	0.81
22:FB:2282:G:O2'	27:FG:129:ASN:O	1.98	0.81
22:FB:2716:G:C2	22:FB:2749:A:H1'	2.16	0.81
22:FB:659:G:H21	51:F5:46:LYS:HZ3	1.29	0.81
1:GA:1367:C:P	9:GI:115:GLY:CA	2.69	0.81
12:GL:102:ARG:HB2	12:GL:110:VAL:HG23	1.62	0.81
22:HB:3121:G:H4'	53:H7:160:LYS:NZ	1.95	0.81
22:HB:567:G:C4'	31:HK:73:ASN:HA	2.09	0.81
22:HB:1249:G:N7	40:HT:11:LYS:O	2.14	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:IA:1139:G:H22	1:IA:1143:G:H1	1.28	0.81
1:IA:922:G:O2'	5:IE:20:GLN:O	1.99	0.81
1:IA:1117:G:O2'	9:II:104:ARG:CD	2.25	0.81
1:IA:967:C:C6	9:II:128:ARG:C	2.55	0.81
3:IC:23:TYR:CE2	10:IJ:94:VAL:N	2.48	0.81
22:JB:218:A:P	51:J5:63:PRO:HB2	2.21	0.81
22:JB:1172:U:O3'	39:JS:22:VAL:HG12	1.81	0.81
22:JB:2264:C:N4	49:J3:27:ASN:HA	1.95	0.81
22:JB:2374:C:H1'	47:J1:28:ARG:HH12	0.98	0.81
22:JB:1040:A:C1'	22:JB:2465:G:H5'	2.08	0.81
41:JU:88:ILE:HG23	41:JU:89:GLU:H	1.44	0.81
45:JY:44:ARG:HA	45:JY:47:ARG:HB2	1.62	0.81
1:AA:719:C:O2'	18:AR:49:LYS:HB3	1.81	0.81
22:BB:122:G:OP1	22:BB:1389:C:O3'	1.99	0.81
22:BB:128:C:H5'	22:BB:1361:G:N2	1.96	0.81
22:BB:2474:G:C1'	34:BN:83:ARG:HG2	1.84	0.81
22:BB:596:C:C5	33:BM:29:THR:HG22	2.14	0.81
22:BB:597:U:H5'	33:BM:28:LYS:HA	1.63	0.81
22:BB:923:A:C2	22:BB:2243:C:H1'	2.16	0.81
22:BB:1805:G:O3'	24:BD:44:ASN:CA	2.29	0.81
22:BB:1808:C:P	24:BD:87:ASN:HD21	1.96	0.81
22:BB:2739:G:H22	28:BH:139:GLN:HG3	1.43	0.81
32:BL:113:PRO:HG2	37:BQ:76:GLY:CA	2.10	0.81
22:BB:824:U:OP2	33:BM:31:GLY:O	1.99	0.81
1:CA:546:G:C2	4:CD:2:GLY:N	2.48	0.81
1:CA:953:G:C2	13:CM:123:ALA:O	2.24	0.81
16:CP:4:ILE:HB	16:CP:66:PRO:HA	1.61	0.81
22:DB:3093:C:H5'	29:DI:22:ASP:CA	2.09	0.81
22:DB:760:U:H3	22:DB:1997:A:H1'	1.45	0.81
22:DB:456:C:O2'	38:DR:3:ARG:HB2	1.79	0.81
22:DB:1239:A:OP2	39:DS:73:LYS:HE2	1.78	0.81
1:EA:589:C:O2'	8:EH:29:SER:CB	2.29	0.81
1:EA:673:G:C5'	6:EF:87:ARG:NE	2.43	0.81
12:EL:47:LYS:HG3	12:EL:48:PRO:HD3	1.63	0.81
12:EL:71:PRO:HG2	12:EL:102:ARG:HG3	1.62	0.81
1:EA:452:A:OP1	16:EP:43:LYS:HD2	1.81	0.81
22:FB:2074:U:O4	47:F1:42:PHE:CE1	2.33	0.81
22:FB:1288:A:C6	35:FO:19:ALA:CB	2.64	0.81
22:FB:3877:A:C3'	22:FB:1861:G:OP2	2.28	0.81
22:FB:2260:C:O2'	22:FB:2368:G:N3	2.13	0.81
22:FB:2393:G:C2'	33:FM:65:PHE:HB2	2.10	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:FB:29:U:H4'	38:FR:8:ILE:HG21	1.62	0.81
22:FB:673:G:H5''	26:FF:93:TYR:HD1	1.45	0.81
22:FB:682:G:N2	26:FF:49:ALA:HB2	1.94	0.81
22:FB:686:C:O3'	26:FF:73:SER:HB3	1.81	0.81
22:FB:2753:C:C4'	25:FE:164:ARG:H	1.80	0.81
22:FB:2284:U:N1	27:FG:152:MET:HE3	1.95	0.81
22:FB:456:C:OP2	38:FR:2:PRO:CG	2.29	0.81
22:FB:1008:G:OP1	38:FR:92:ARG:HD3	1.80	0.81
7:GG:16:LEU:HD23	9:GI:42:ARG:NH1	1.95	0.81
10:GJ:64:GLU:N	14:GN:57:ARG:O	2.13	0.81
1:GA:107:G:C6	20:GT:15:ARG:HB2	2.15	0.81
22:HB:1336:G:H5'	40:HT:103:LEU:HD23	1.62	0.81
22:HB:498:C:H1'	40:HT:74:SER:CA	2.11	0.81
25:HE:24:THR:HG23	25:HE:183:LEU:HG	1.61	0.81
27:HG:107:GLY:HA2	27:HG:137:ILE:HG13	1.60	0.81
22:HB:969:U:O4	34:HN:20:GLY:HA2	1.79	0.81
2:IB:186:ALA:HB3	2:IB:197:VAL:HG13	1.63	0.81
1:IA:1123:A:H1'	10:IJ:38:ILE:HA	1.63	0.81
22:JB:474:G:H22	50:J4:12:ARG:CZ	1.92	0.81
22:JB:1820:G:C6	24:JD:221:GLN:CB	2.63	0.81
22:JB:1856:U:H3	22:JB:3865:A:H62	1.29	0.81
22:JB:430:C:O2	22:JB:2386:G:N2	2.14	0.81
22:JB:2669:C:C5	35:JO:17:ARG:HB2	2.16	0.81
22:JB:2701:A:C6	22:JB:2848:A:N6	2.48	0.81
22:JB:640:C:H4'	22:JB:660:G:H21	1.44	0.81
22:JB:1743:C:C4	37:JQ:125:MET:HA	2.13	0.81
26:JF:44:SER:H	38:JR:2:PRO:CG	1.93	0.81
22:JB:320:A:H4'	42:JV:30:LYS:HB2	0.82	0.81
2:AB:186:ALA:HB3	2:AB:197:VAL:HG13	1.63	0.81
1:AA:737:A:O3'	6:AF:92:LYS:NZ	2.14	0.81
1:AA:376:G:H4'	16:AP:28:ARG:HH12	1.46	0.81
22:BB:2335:U:H5''	44:BX:19:LYS:CD	2.11	0.81
22:BB:2463:G:C4	34:BN:120:ARG:NH2	2.48	0.81
22:BB:2671:C:HO2'	22:BB:2822:U:C2'	1.93	0.81
22:BB:575:U:C4	39:BS:79:GLN:CD	2.53	0.81
25:BE:181:LEU:HD13	37:BQ:16:ILE:HG13	1.61	0.81
22:BB:1683:G:O4'	32:BL:3:MET:CG	2.28	0.81
23:BA:93:G:C3'	34:BN:23:LYS:NZ	2.42	0.81
1:CA:126:G:H22	17:CQ:4:LYS:CE	1.92	0.81
22:DB:1817:U:OP2	24:DD:222:ARG:C	2.05	0.81
22:DB:2040:A:C2'	48:D2:3:LYS:CG	2.58	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:DB:524:A:H4'	38:DR:30:LYS:O	1.81	0.81
22:DB:869:C:C2'	44:DX:24:LYS:CE	2.28	0.81
22:DB:574:C:C5	39:DS:79:GLN:CD	2.38	0.81
40:DT:52:ASP:OD1	48:D2:29:ASN:OD1	1.99	0.81
34:DN:66:TYR:CG	43:DW:118:HIS:N	2.48	0.81
22:DB:916:U:H1'	43:DW:163:ASP:O	1.80	0.81
1:EA:667:G:H21	15:EO:42:HIS:HE1	1.26	0.81
1:EA:130:A:C8	17:EQ:63:ARG:HG3	2.16	0.81
1:EA:130:A:H62	17:EQ:64:PRO:CD	1.63	0.81
22:FB:1266:G:H1	38:FR:37:GLN:HE22	1.27	0.81
22:FB:226:C:H2'	22:FB:2373:C:H1'	1.61	0.81
22:FB:475:U:H5'	50:F4:4:THR:O	1.81	0.81
1:GA:1225:A:H5''	13:GM:104:ARG:H	0.67	0.81
22:HB:1202:U:C4'	39:HS:81:ARG:HH12	1.93	0.81
22:HB:1446:U:H3	22:HB:1577:G:H1	1.28	0.81
22:HB:2372:A:C5'	33:HM:60:LEU:O	2.29	0.81
22:HB:2543:A:H61	22:HB:2625:U:H1'	1.46	0.81
22:HB:699:G:N9	50:H4:5:TYR:O	2.14	0.81
22:HB:1804:U:O2	24:HD:46:ARG:HB3	1.81	0.81
43:HW:96:VAL:HB	43:HW:123:VAL:HG11	1.63	0.81
1:IA:1351:U:O4'	7:IG:33:ASP:OD1	1.99	0.81
1:IA:1220:G:OP2	19:IS:37:ARG:NH1	2.06	0.81
22:JB:3124:G:O4'	53:J7:62:LYS:HD3	1.80	0.81
22:JB:1040:A:N9	22:JB:2465:G:O4'	2.14	0.81
22:JB:47:G:H1'	22:JB:155:G:N1	1.95	0.81
22:JB:861:G:H21	46:JZ:21:GLN:NE2	1.77	0.81
22:JB:2786:G:H4'	25:JE:61:LYS:HD2	1.59	0.81
23:JA:62:C:P	36:JP:6:THR:HG21	2.21	0.81
22:JB:1261:G:P	38:JR:2:PRO:HB3	2.21	0.81
22:JB:348:U:C5'	42:JV:13:LYS:NZ	2.37	0.81
1:AA:545:C:H5''	4:AD:72:GLU:HB2	1.56	0.80
1:AA:546:G:OP2	4:AD:71:SER:HB2	1.80	0.80
1:AA:1381:U:C6	7:AG:78:ARG:HA	2.17	0.80
10:AJ:51:ARG:HA	14:AN:45:ARG:HD2	1.62	0.80
22:BB:164:G:H2'	22:BB:165:G:H5'	1.63	0.80
22:BB:2334:C:C4'	44:BX:21:LEU:CG	2.23	0.80
22:BB:2558:C:C5'	25:BE:132:LYS:HD3	2.11	0.80
22:BB:760:U:H3	22:BB:1997:A:H1'	1.45	0.80
22:BB:1675:C:P	25:BE:134:TRP:CZ3	2.74	0.80
25:BE:5:LEU:HD22	25:BE:27:LEU:HA	1.60	0.80
22:BB:2815:C:OP1	35:BO:50:GLN:C	2.19	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:BR:24:PHE:HB3	38:BR:28:ARG:NE	1.97	0.80
22:BB:1163:C:H4'	38:BR:80:ILE:CB	2.11	0.80
1:CA:737:A:O3'	6:CF:92:LYS:NZ	2.13	0.80
11:CK:61:ALA:HB1	11:CK:94:ALA:HB2	1.60	0.80
22:DB:2602:G:N2	48:D2:22:HIS:NE2	2.28	0.80
23:DA:77:G:N2	43:DW:22:VAL:CG2	2.44	0.80
22:DB:2311:U:H4'	22:DB:2315:A:H62	1.46	0.80
22:DB:2550:C:O2'	25:DE:143:GLN:CD	2.18	0.80
13:CM:83:ASP:HB3	22:DB:900(A):A:OP1	1.81	0.80
22:DB:923:A:H1'	22:DB:2243:C:H4'	1.63	0.80
22:DB:2628:C:O2'	32:DL:29:ILE:HD13	1.79	0.80
1:EA:1114:C:HO2'	14:EN:61:TRP:CB	1.93	0.80
1:EA:194:C:H1'	20:ET:68:LYS:CD	2.11	0.80
1:EA:673:G:H5''	6:EF:87:ARG:NH2	1.95	0.80
7:EG:16:LEU:CD2	9:EI:41:VAL:CG1	2.02	0.80
12:EL:19:ARG:C	12:EL:20:LYS:N	2.34	0.80
1:EA:1014:A:C8	19:ES:34:TRP:CZ3	2.68	0.80
1:EA:194:C:O2	20:ET:68:LYS:HD2	1.81	0.80
22:FB:2370:G:O6	49:F3:2:ALA:CA	2.29	0.80
22:FB:2074:U:O4	47:F1:42:PHE:CD1	2.33	0.80
22:FB:2498:U:H5'	22:FB:2546:G:H22	1.45	0.80
22:FB:2628:C:C1'	32:FL:28:GLY:CA	2.55	0.80
22:FB:2786:G:H5'	25:FE:59:VAL:CA	2.11	0.80
1:GA:546:G:OP1	4:GD:73:ARG:N	2.11	0.80
1:GA:967:C:C4'	9:GI:128:ARG:CG	2.49	0.80
1:GA:1148:U:H4'	9:GI:14:VAL:HG11	1.60	0.80
1:GA:107:G:N2	20:GT:11:SER:C	2.34	0.80
22:HB:2330:G:O6	51:H5:39:ASP:OD1	1.99	0.80
22:HB:1043:A:P	52:H6:8:LYS:HG3	2.21	0.80
22:HB:1141:U:O4	25:HE:147:PRO:CG	2.28	0.80
22:HB:2365:U:O4'	44:HX:37:LEU:CD1	2.24	0.80
22:HB:1750:A:C4	22:HB:2675:U:O2	2.35	0.80
22:HB:4:C:C2	22:HB:2874:A:N1	2.48	0.80
22:HB:1803:G:C2	24:HD:47:GLY:HA3	2.16	0.80
22:HB:1507:A:OP1	24:HD:99:ASP:C	2.19	0.80
22:HB:2741:G:C1'	28:HH:143:GLN:HE22	1.84	0.80
22:HB:512:A:C5'	40:HT:17:GLN:CG	2.57	0.80
22:HB:868:U:O2	44:HX:25:LYS:HD3	1.81	0.80
10:IJ:30:SER:HB3	10:IJ:80:LYS:HE2	1.61	0.80
1:IA:637:G:H5'	17:IQ:2:PRO:HD2	1.63	0.80
40:JT:36:ARG:HH22	48:J2:16:ARG:HD3	0.96	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:JB:1175:A:C5'	39:JS:89:ASN:OD1	2.29	0.80
22:JB:1886:G:P	24:JD:242:ALA:HA	2.22	0.80
22:JB:220:U:H3'	51:J5:7:HIS:CE1	2.15	0.80
22:JB:2315:A:C6	44:JX:70:ILE:HD13	2.15	0.80
13:IM:93:ARG:NH2	22:JB:900:U:H3'	1.96	0.80
22:JB:940:G:H21	46:JZ:40:VAL:CG2	1.88	0.80
22:JB:637:G:N2	33:JM:74:VAL:CG1	2.26	0.80
1:AA:1382:C:C5'	7:AG:79:ARG:HG3	2.11	0.80
5:AE:148:VAL:HB	8:AH:107:LEU:CG	2.11	0.80
1:AA:667:G:O3'	15:AO:48:LYS:CB	2.29	0.80
22:BB:1453:A:C3'	22:BB:1454:U:H6	1.92	0.80
22:BB:2311:U:H4'	22:BB:2315:A:H62	1.46	0.80
22:BB:2465:G:H5'	34:BN:123:GLY:O	1.82	0.80
22:BB:2724:G:C2	28:BH:143:GLN:NE2	2.48	0.80
22:BB:742:G:C1'	24:BD:18:THR:HG21	2.11	0.80
22:BB:1807:A:H5'	24:BD:88:ARG:NH2	1.95	0.80
32:BL:47:VAL:HG13	32:BL:48:GLY:H	1.46	0.80
1:CA:227:G:N2	16:CP:62:VAL:HG12	1.95	0.80
3:CC:57:ILE:HG23	3:CC:66:VAL:HG22	1.63	0.80
3:CC:23:TYR:CE2	10:CJ:9:ARG:CB	2.63	0.80
1:CA:1309:G:H5''	13:CM:88:ARG:NH1	1.94	0.80
1:CA:277:C:P	17:CQ:43:LEU:CD2	2.62	0.80
1:CA:958:A:C2	19:CS:55:LYS:HB3	2.16	0.80
22:DB:166:G:C5'	47:D1:36:TRP:NE1	2.44	0.80
22:DB:1288:A:C6	35:DO:19:ALA:HB1	2.15	0.80
22:DB:1816:G:P	24:DD:54:ILE:HD11	2.22	0.80
25:DE:24:THR:HG23	25:DE:183:LEU:HG	1.62	0.80
22:DB:1072:U:C2	30:DJ:10:LEU:C	2.54	0.80
34:DN:38:MET:HB2	43:DW:74:ARG:NE	1.94	0.80
22:DB:529:U:C4'	40:DT:39:ARG:NH2	2.44	0.80
22:DB:1353:A:N6	41:DU:59:PRO:HG3	1.95	0.80
1:EA:865:A:OP1	1:EA:1078:U:C2	2.33	0.80
1:EA:583:A:H4'	17:EQ:90:ILE:CD1	2.10	0.80
1:EA:591:U:OP2	8:EH:30:ARG:CD	2.29	0.80
9:EI:49:PRO:HG3	9:EI:81:ILE:HD13	1.62	0.80
22:FB:1288:A:H62	22:FB:1309:G:H5'	1.47	0.80
22:FB:164:G:H2'	22:FB:165:G:H5'	1.62	0.80
1:EA:1407:C:O2	22:FB:1895:A:N1	2.14	0.80
22:FB:640:C:H4'	22:FB:660:G:H21	1.44	0.80
22:FB:760:U:H3	22:FB:1997:A:H1'	1.45	0.80
22:FB:1110:G:H21	28:FH:168:GLN:HE22	0.80	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:FB:1164:C:H5'	38:FR:77:SER:HA	1.61	0.80
1:GA:1139:G:H22	1:GA:1143:G:H1	1.28	0.80
1:GA:1319:A:H5''	19:GS:4:SER:O	1.81	0.80
4:GD:120:LEU:HB3	4:GD:125:HIS:HB2	1.61	0.80
1:GA:954:G:H5'	13:GM:122:LYS:O	1.81	0.80
10:GJ:65:LEU:HB3	14:GN:56:VAL:HG13	1.61	0.80
22:HB:3166:G:C6	53:H7:98:ARG:NH2	2.49	0.80
22:HB:221:A:OP1	33:HM:67:ASN:C	2.19	0.80
22:HB:2311:U:H4'	22:HB:2315:A:H62	1.46	0.80
22:HB:603:C:O2	22:HB:677:G:N2	2.13	0.80
22:HB:644:A:N3	22:HB:2382:C:H4'	1.96	0.80
27:HG:72:LYS:HZ1	27:HG:73:SER:H	1.25	0.80
34:HN:106:GLU:HG2	43:HW:113:VAL:C	2.02	0.80
23:HA:93:G:H5''	34:HN:23:LYS:HZ1	1.46	0.80
1:IA:1057:G:H5'	3:IC:196:LEU:HD23	1.63	0.80
1:IA:925:G:H1'	1:IA:1502:A:O3'	1.82	0.80
1:IA:1392:G:H4'	1:IA:1530:G:O3'	1.80	0.80
1:IA:673:G:O3'	6:IF:87:ARG:NH2	2.12	0.80
3:IC:23:TYR:OH	10:IJ:93:GLY:O	1.99	0.80
12:IL:11:VAL:C	17:IQ:36:ILE:HD13	2.02	0.80
22:JB:2210:C:C5'	47:J1:39:VAL:HG22	1.97	0.80
22:JB:1446:U:H3	22:JB:1577:G:H1	1.28	0.80
22:JB:1460:G:H22	22:JB:1481:U:H3	1.26	0.80
22:JB:63:A:OP2	41:JU:73:ASN:ND2	2.13	0.80
22:JB:1090:C:H1'	30:JJ:132:ARG:CD	2.11	0.80
22:JB:58:C:OP2	41:JU:75:ARG:NE	2.13	0.80
1:AA:420:U:O3'	3:AC:127:ARG:NH2	2.14	0.80
3:AC:57:ILE:HG23	3:AC:66:VAL:HG22	1.63	0.80
51:B5:35:GLY:H	51:B5:36:LYS:HZ3	1.28	0.80
22:BB:637:G:O6	51:B5:64:ARG:NH2	2.12	0.80
22:BB:1805:G:H1'	24:BD:45:ASN:HA	1.63	0.80
22:BB:2814:G:N2	35:BO:92:GLY:N	2.03	0.80
22:BB:613:A:N6	33:BM:97:ARG:CB	2.42	0.80
22:BB:625:A:N6	26:BF:176:ASN:HB2	1.97	0.80
25:BE:26:VAL:CG2	37:BQ:3:THR:HG21	2.10	0.80
22:BB:1078:A:H2	30:BJ:23:VAL:HG12	1.43	0.80
2:CB:200:ILE:HG22	2:CB:202:PRO:HD3	1.63	0.80
22:DB:176:A:C4	47:D1:30:GLU:CB	2.62	0.80
22:DB:1044:U:C5	52:D6:16:VAL:CG1	2.64	0.80
22:DB:1237:G:H5''	39:DS:87:ARG:CB	2.11	0.80
22:DB:1288:A:H62	22:DB:1309:G:H5'	1.47	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:DB:810:U:C4	26:DF:56:ARG:NH1	2.48	0.80
22:DB:865:A:O4'	46:DZ:39:ALA:C	2.18	0.80
22:DB:965:G:OP1	34:DN:18:MET:CB	2.25	0.80
1:EA:588:G:C3'	8:EH:5:PRO:HB3	1.78	0.80
1:EA:1318:A:H4'	19:ES:10:PHE:CB	2.11	0.80
22:FB:2265:A:C2'	49:F3:31:THR:HG21	2.10	0.80
22:FB:1835:C:H5'	24:FD:255:LYS:HZ2	1.42	0.80
22:FB:2463:G:C3'	34:FN:47:GLN:NE2	2.42	0.80
22:FB:863:C:H1'	46:FZ:43:MET:CG	2.12	0.80
22:FB:60:A:C6	22:FB:92:U:O4	2.34	0.80
25:FE:5:LEU:HD22	25:FE:27:LEU:HA	1.60	0.80
27:FG:148:LYS:HD3	27:FG:149:THR:H	1.46	0.80
22:FB:2023:C:P	31:FK:132:PHE:HB2	2.21	0.80
38:FR:44:THR:CB	39:FS:76:SER:HA	2.10	0.80
1:GA:555:C:OP2	12:GL:20:LYS:CD	2.21	0.80
1:GA:15:G:O2'	5:GE:17:ALA:CB	2.29	0.80
10:GJ:11:PHE:CG	14:GN:54:PRO:O	2.35	0.80
1:GA:324:G:H4'	20:GT:15:ARG:CZ	2.11	0.80
22:HB:699:G:HO2'	50:H4:6:GLN:HB2	1.42	0.80
22:HB:177:U:H3	22:HB:225:G:H5''	1.44	0.80
22:HB:2340:C:H6	51:H5:26:LYS:HZ3	0.82	0.80
22:HB:2814:G:P	35:HO:8:ARG:NH1	2.54	0.80
22:HB:2862:G:H21	48:H2:30:LEU:CD1	1.93	0.80
22:HB:857:U:N1	22:HB:946:U:O2	2.13	0.80
22:HB:742:G:OP1	24:HD:18:THR:O	1.99	0.80
27:HG:148:LYS:HD3	27:HG:149:THR:H	1.46	0.80
34:HN:66:TYR:HD1	43:HW:115:ILE:CB	1.48	0.80
32:HL:91:PHE:CD1	37:HQ:79:ARG:HG3	2.15	0.80
22:HB:1225:G:H22	40:HT:12:LYS:CE	1.94	0.80
43:HW:19:ILE:HG23	43:HW:20:ALA:H	1.46	0.80
1:IA:1130:A:C1'	9:II:18:PHE:CZ	2.65	0.80
1:IA:1349:A:C5'	9:II:121:ARG:NH1	2.44	0.80
1:IA:1463:C:H6	37:JQ:116:ARG:CZ	1.94	0.80
1:IA:538:G:H8	12:IL:115:LYS:HE2	0.81	0.80
3:IC:18:TRP:CZ2	14:IN:53:LEU:HG	2.17	0.80
12:IL:102:ARG:HB2	12:IL:110:VAL:HG23	1.62	0.80
12:IL:22:SER:C	12:IL:23:LYS:CA	2.49	0.80
47:J1:48:ARG:NH2	47:J1:49:PHE:HB3	1.94	0.80
22:JB:124:A:N6	50:J4:18:PHE:C	2.33	0.80
22:JB:1007:A:O3'	38:JR:93:LYS:CG	2.29	0.80
22:JB:2186:G:C8	24:JD:150:GLY:N	2.46	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:JB:2541:U:O2'	32:JL:23:ARG:NH2	1.99	0.80
38:JR:24:PHE:HB3	38:JR:28:ARG:NE	1.97	0.80
38:JR:87:ASN:HB3	39:JS:52:GLY:HA3	1.62	0.80
1:AA:1350:A:N7	9:AI:118:LYS:CE	2.45	0.80
1:AA:1251:A:C5'	9:AI:12:GLU:OE2	2.29	0.80
10:AJ:30:SER:HB3	10:AJ:80:LYS:HE2	1.61	0.80
10:AJ:64:GLU:O	14:AN:57:ARG:N	2.13	0.80
22:BB:2753:C:H5'	25:BE:164:ARG:H	1.47	0.80
22:BB:640:C:H4'	22:BB:660:G:H21	1.45	0.80
22:BB:760:U:O2'	40:BT:109:ARG:CG	2.29	0.80
25:BE:7:THR:N	37:BQ:3:THR:HG1	1.76	0.80
22:BB:820:U:H3	33:BM:40:ARG:NH2	1.78	0.80
4:CD:126:ILE:HG22	4:CD:127:THR:H	1.45	0.80
1:CA:760:G:N7	17:CQ:104:LYS:C	2.35	0.80
1:CA:254:G:C4	17:CQ:17:LYS:NZ	2.50	0.80
22:DB:2265:A:N6	49:D3:31:THR:OG1	2.13	0.80
22:DB:2708:U:H4'	25:DE:21:ILE:HG12	1.64	0.80
22:DB:2713:A:H61	25:DE:203:LYS:CE	1.93	0.80
22:DB:528:G:H5'	40:DT:35:PRO:O	1.81	0.80
22:DB:2753:C:H4'	25:DE:164:ARG:H	0.65	0.80
22:DB:2669:C:N4	35:DO:18:VAL:HG12	1.96	0.80
34:DN:131:LYS:NZ	43:DW:69:VAL:HG21	1.96	0.80
1:EA:1517:G:C1'	22:FB:1902:A:O3'	2.30	0.80
1:EA:234:C:O2'	17:EQ:70:ARG:HD3	1.81	0.80
1:EA:753:A:N6	8:EH:2:LEU:CD2	2.27	0.80
1:EA:740:U:OP2	15:EO:3:ILE:CD1	2.29	0.80
1:EA:666:G:N2	15:EO:52:SER:OG	2.13	0.80
29:FI:26:ARG:CG	47:F1:72:LYS:O	2.29	0.80
22:FB:1829:C:C4'	22:FB:1911:A:C4'	2.60	0.80
22:FB:2745:A:C2	22:FB:2746:G:H1'	2.17	0.80
34:FN:106:GLU:O	43:FW:113:VAL:HG13	1.81	0.80
22:FB:2463:G:HO2'	34:FN:121:LEU:HA	1.02	0.80
22:FB:944:A:H4'	46:FZ:21:GLN:NE2	1.97	0.80
1:GA:1369:C:OP2	9:GI:112:LYS:N	2.14	0.80
1:GA:580:U:C5'	15:GO:54:ARG:NE	2.19	0.80
22:HB:891:A:H2	22:HB:893:G:N1	1.61	0.80
22:HB:1788:C:H5'	24:HD:254:THR:CG2	2.10	0.80
23:HA:93:G:C5'	34:HN:23:LYS:NZ	2.43	0.80
22:HB:1468:A:H62	35:HO:76:VAL:HG22	0.98	0.80
22:HB:2002:A:H1'	38:HR:33:ARG:NH2	1.95	0.80
22:HB:512:A:OP1	40:HT:17:GLN:HG2	1.81	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:HN:65:ILE:CA	43:HW:115:ILE:CD1	2.52	0.80
22:HB:2236:U:C3'	44:HX:4:LYS:NZ	2.44	0.80
1:IA:278:G:H8	17:IQ:95:TYR:CD2	1.98	0.80
1:IA:543:C:OP1	4:ID:10:ARG:NE	2.14	0.80
22:JB:1138:A:H2	52:J6:4:ARG:NH2	1.80	0.80
22:JB:177:U:H3	22:JB:225:G:H5''	1.45	0.80
22:JB:1584:G:H5''	24:JD:62:TYR:OH	1.79	0.80
28:JH:16:THR:HG23	28:JH:45:GLN:HE22	1.47	0.80
22:JB:2463:G:C4'	34:JN:47:GLN:CG	2.57	0.80
1:AA:1131:G:H5''	9:AI:2:GLU:HG3	1.60	0.80
1:AA:1350:A:N7	9:AI:118:LYS:HD3	1.96	0.80
1:AA:1061:G:H5''	10:AJ:58:ASP:HB3	1.62	0.80
22:BB:700:C:C5'	50:B4:3:ARG:O	2.29	0.80
22:BB:1044:U:C5	52:B6:15:LYS:CB	2.60	0.80
23:BA:78:A:C4	43:BW:22:VAL:CG2	2.64	0.80
22:BB:1490:U:H2'	22:BB:1533:G:H21	1.46	0.80
22:BB:1805:G:H5'	24:BD:43:ARG:C	1.99	0.80
22:BB:1950:C:H4'	22:BB:2571:G:H5''	1.63	0.80
22:BB:4:C:O2	22:BB:2874:A:C6	2.34	0.80
22:BB:891:A:N1	22:BB:909:C:O2	2.13	0.80
34:BN:29:ALA:HB2	43:BW:119:ASN:OD1	1.81	0.80
32:BL:86:GLY:N	37:BQ:84:ALA:HB2	1.96	0.80
1:CA:1345:U:OP1	9:CI:120:ARG:CZ	2.30	0.80
1:CA:815:A:C2	1:CA:1528:U:C1'	2.64	0.80
1:CA:489:C:OP1	4:CD:132:ARG:CD	2.29	0.80
1:CA:765:G:H2'	1:CA:811:C:H42	1.47	0.80
2:CB:186:ALA:HB3	2:CB:197:VAL:HG13	1.63	0.80
1:CA:429:U:O3'	4:CD:8:VAL:HG21	1.81	0.80
1:CA:6:G:O6	5:CE:95:ALA:CA	2.29	0.80
22:DB:1167:A:O3'	22:DB:1168:G:P	2.39	0.80
22:DB:1176:U:O2	22:DB:1198:C:O2	1.98	0.80
22:DB:1615:C:H5'	41:DU:33:ALA:HB2	1.62	0.80
22:DB:164:G:H2'	22:DB:165:G:H5'	1.63	0.80
22:DB:2658:A:C2'	25:DE:187:ALA:HB3	2.09	0.80
22:DB:596:C:H5''	33:DM:28:LYS:NZ	1.95	0.80
22:DB:548:G:C4'	31:DK:32:TYR:CD2	2.59	0.80
22:DB:887:G:C8	43:DW:167:THR:HG22	2.17	0.80
1:EA:1186:G:O2'	9:EI:113:LYS:HD2	1.80	0.80
1:EA:765:G:H2'	1:EA:811:C:H42	1.47	0.80
2:EB:186:ALA:HB3	2:EB:197:VAL:HG13	1.63	0.80
1:EA:589:C:C4'	8:EH:29:SER:OG	2.30	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:FB:1829:C:C4'	22:FB:1911:A:H4'	2.12	0.80
22:FB:505:G:H5''	40:FT:25:PHE:CB	2.12	0.80
22:FB:674:U:P	26:FF:93:TYR:CE1	2.75	0.80
22:FB:2284:U:O2	27:FG:40:LEU:HD13	1.80	0.80
22:FB:864:C:H4'	46:FZ:42:GLY:HA3	1.63	0.80
1:GA:1225:A:P	13:GM:102:ARG:HB3	2.22	0.80
1:GA:125:U:H5''	1:GA:605:U:O2'	1.80	0.80
1:GA:186:C:C1'	20:GT:81:LYS:HB3	2.10	0.80
1:GA:1375:A:OP1	7:GG:28:ASN:ND2	2.13	0.80
1:AA:180:U:H6	20:GT:100:ILE:O	1.59	0.80
47:H1:48:ARG:HG2	47:H1:69:ARG:HG3	1.64	0.80
22:HB:10:A:O3'	22:HB:11:G:P	2.40	0.80
22:HB:1662:G:H5''	22:HB:1663:C:H5'	1.63	0.80
22:HB:1935:A:C2	22:HB:2539:C:H1'	2.16	0.80
22:HB:2815:C:HO2'	35:HO:91:PRO:CB	1.82	0.80
22:HB:476:G:H22	22:HB:808:C:H1'	1.46	0.80
22:HB:597:U:C2'	26:HF:84:PHE:CZ	2.64	0.80
22:HB:857:U:C2	22:HB:946:U:N3	2.49	0.80
24:HD:84:TYR:HA	24:HD:91:ARG:HA	1.62	0.80
22:HB:2553:G:O2'	25:HE:143:GLN:O	1.99	0.80
1:IA:449:C:H5'	16:IP:43:LYS:O	1.81	0.80
4:ID:83:SER:HA	4:ID:89:THR:HG23	1.63	0.80
7:IG:16:LEU:HD21	9:II:42:ARG:CD	2.11	0.80
22:JB:2374:C:C2	47:J1:28:ARG:NH1	2.49	0.80
22:JB:2325:A:H2	49:J3:26:LYS:O	1.65	0.80
22:JB:2263:C:P	49:J3:9:ILE:HA	2.21	0.80
22:JB:1750:A:H5'	22:JB:2695:C:O2'	1.82	0.80
22:JB:3167:U:N3	53:J7:98:ARG:HA	1.95	0.80
22:JB:846:A:H5''	33:JM:52:GLY:O	1.80	0.80
22:JB:1820:G:H1	24:JD:221:GLN:CB	1.93	0.80
22:JB:2823:G:C8	37:JQ:104:LEU:C	2.55	0.80
22:JB:1743:C:OP2	37:JQ:123:ARG:HB3	1.81	0.80
22:JB:2309:G:O2'	44:JX:36:ILE:CD1	2.29	0.80
22:JB:74:G:C2'	45:JY:55:THR:CG2	2.33	0.80
1:AA:1430:C:H5''	22:BB:1721:G:OP1	1.81	0.80
1:AA:765:G:H2'	1:AA:811:C:H42	1.47	0.80
1:AA:619:U:C6	4:AD:133:VAL:HG13	2.17	0.80
1:AA:402:G:O2'	4:AD:135:LEU:CD1	2.30	0.80
13:AM:88:ARG:HD3	13:AM:92:HIS:CE1	2.15	0.80
1:AA:836:G:P	18:AR:61:LYS:HZ2	2.05	0.80
22:BB:1042:G:C2	52:B6:23:VAL:HB	2.16	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:BB:3866:A:C8	53:B7:43:LYS:CD	2.56	0.80
22:BB:2505:G:O4'	22:BB:2722:C:OP1	1.99	0.80
22:BB:718:A:H61	22:BB:739:G:C2'	1.94	0.80
32:BL:86:GLY:C	37:BQ:84:ALA:N	2.35	0.80
34:BN:131:LYS:NZ	43:BW:43:PHE:CD2	2.50	0.80
22:BB:529:U:H5''	40:BT:39:ARG:HH21	1.38	0.80
22:BB:1325:U:H5	41:BU:61:LYS:HG3	0.89	0.80
41:BU:8:GLN:HG3	45:BY:26:MET:SD	2.21	0.80
1:CA:436:C:O3'	4:CD:155:LEU:HB3	1.80	0.80
1:CA:932:C:H5''	7:CG:3:ARG:HD3	0.99	0.80
12:CL:47:LYS:HG3	12:CL:48:PRO:HD3	1.63	0.80
1:CA:227:G:N2	16:CP:62:VAL:CB	2.45	0.80
47:D1:48:ARG:HG2	47:D1:69:ARG:HG3	1.64	0.80
22:DB:533:C:H4'	22:DB:550:C:H1'	1.64	0.80
22:DB:857:U:N1	22:DB:946:U:O2	2.13	0.80
32:DL:113:PRO:CD	37:DQ:75:GLU:HB3	2.07	0.80
22:DB:503:G:N3	40:DT:28:ALA:CB	2.44	0.80
43:DW:84:TYR:CZ	43:DW:128:ARG:HG3	2.17	0.80
1:EA:1180:A:OP1	9:EI:103:THR:CA	2.27	0.80
1:EA:1455:G:H2'	1:EA:1455:G:N3	1.94	0.80
1:EA:1187:G:N2	14:EN:60:SER:C	2.34	0.80
22:FB:1861:G:O3'	22:FB:1862:C:P	2.39	0.80
22:FB:88:G:C2	41:FU:65:VAL:HG21	2.16	0.80
22:FB:1072:U:C4	30:FJ:10:LEU:C	2.54	0.80
22:FB:1468:A:C6	35:FO:58:GLY:HA3	2.15	0.80
22:FB:457:C:C5'	38:FR:3:ARG:CG	2.60	0.80
1:GA:1455:G:H2'	1:GA:1455:G:N3	1.94	0.80
1:GA:426:G:H5'	4:GD:45:GLN:HE22	1.46	0.80
1:GA:1309:G:C5'	13:GM:81:LEU:CD1	2.33	0.80
15:GO:16:ALA:HB1	15:GO:21:ASP:HB3	1.63	0.80
1:GA:742:G:OP1	15:GO:55:GLY:HA3	1.81	0.80
22:HB:2591:C:C2'	48:H2:4:HIS:CB	2.53	0.80
22:HB:699:G:C2	50:H4:5:TYR:CA	2.59	0.80
22:HB:419:G:OP1	53:H7:1:MET:CG	2.30	0.80
22:HB:2806:G:P	25:HE:57:ARG:HG2	2.21	0.80
22:HB:1:G:N1	22:HB:2877:A:N6	2.29	0.80
22:HB:760:U:H3	22:HB:1997:A:H1'	1.45	0.80
24:HD:93:ALA:HB2	24:HD:107:ALA:HB2	1.61	0.80
22:HB:504:G:C2'	40:HT:25:PHE:HB3	2.11	0.80
41:HU:4:TYR:CE1	45:HY:18:ILE:CB	2.62	0.80
29:JI:26:ARG:CD	47:J1:68:ARG:NH1	2.44	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:JB:2398:U:H5''	51:J5:34:THR:O	1.81	0.80
22:JB:219:G:C2	51:J5:4:MET:CA	2.43	0.80
22:JB:147:G:H2'	22:JB:147:G:N3	1.94	0.80
22:JB:1760:G:H4'	22:JB:1941:C:H5''	1.61	0.80
22:JB:81:C:H5'	22:JB:306:G:O2'	1.81	0.80
22:JB:3094:A:C1'	29:JI:28:TRP:CH2	2.65	0.80
22:JB:71:A:N1	45:JY:58:ALA:CA	2.44	0.80
22:JB:1469:U:C2'	35:JO:63:ARG:HH12	1.93	0.80
22:JB:2823:G:C4	37:JQ:105:TYR:CD2	2.67	0.80
40:JT:40:LEU:HD11	48:J2:24:ALA:HA	1.63	0.80
43:JW:51:LEU:HD13	43:JW:128:ARG:CG	2.09	0.80
22:JB:2241:U:H6	44:JX:14:ARG:O	1.55	0.80
1:AA:940:C:H5'	7:AG:29:LYS:HD3	1.63	0.80
4:AD:126:ILE:HG22	4:AD:127:THR:H	1.45	0.80
12:AL:38:THR:HG22	12:AL:39:VAL:HG23	1.64	0.80
12:AL:71:PRO:HG2	12:AL:102:ARG:HG3	1.62	0.80
1:AA:1229:A:C4	13:AM:120:LYS:O	2.35	0.80
22:BB:1288:A:H62	22:BB:1309:G:H5'	1.47	0.80
22:BB:1887:G:N2	22:BB:1912:G:C4'	2.44	0.80
22:BB:1750:A:C2	22:BB:2676:G:C1'	2.65	0.80
22:BB:2861:A:H2'	48:B2:31:THR:HG22	1.62	0.80
24:BD:84:TYR:HA	24:BD:91:ARG:HA	1.62	0.80
22:BB:2463:G:H5''	34:BN:47:GLN:HA	1.62	0.80
22:BB:71:A:H4'	45:BY:51:ALA:HB1	1.63	0.80
10:CJ:62:HIS:O	14:CN:59:ALA:N	2.13	0.80
1:CA:280:C:C4	17:CQ:88:TYR:CE1	2.69	0.80
22:DB:2611:A:N3	25:DE:61:LYS:HE2	1.96	0.80
22:DB:677:G:C1'	22:DB:951:G:H5'	2.12	0.80
38:DR:24:PHE:HB3	38:DR:28:ARG:NE	1.97	0.80
22:DB:2249:U:H5'	44:DX:18:PRO:CD	2.12	0.80
1:EA:7:G:C8	5:EE:119:LEU:HD13	2.16	0.80
1:EA:487:A:N3	4:ED:131:ARG:CZ	2.44	0.80
17:EQ:9:VAL:HB	17:EQ:22:LEU:HB3	1.61	0.80
1:EA:234:C:C4'	17:EQ:70:ARG:HE	1.94	0.80
22:FB:1265:G:H5'	38:FR:14:HIS:NE2	1.95	0.80
22:FB:2240:C:O5'	44:FX:14:ARG:CD	2.27	0.80
22:FB:828:C:OP1	39:FS:86:HIS:CD2	2.34	0.80
22:FB:2393:G:HO2'	33:FM:65:PHE:HB2	1.43	0.80
22:FB:1291:G:OP1	35:FO:35:GLN:HB2	1.80	0.80
22:FB:338:G:O2'	42:FV:7:GLY:CA	2.29	0.80
1:GA:323:U:H1'	20:GT:19:SER:CB	2.12	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:GA:824:C:H1'	8:GH:2:LEU:HD23	1.53	0.80
1:GA:8:A:C1'	5:GE:107:ARG:HH22	1.91	0.80
1:GA:1350:A:N3	7:GG:33:ASP:O	2.14	0.80
1:GA:967:C:H4'	9:GI:128:ARG:HG3	1.50	0.80
22:HB:147:G:N3	22:HB:147:G:H2'	1.94	0.80
22:HB:1460:G:H22	22:HB:1481:U:H3	1.27	0.80
22:HB:699:G:O2'	50:H4:5:TYR:O	1.99	0.80
23:HA:93:G:H4'	34:HN:23:LYS:HZ3	1.47	0.80
38:HR:24:PHE:HB3	38:HR:28:ARG:NE	1.97	0.80
22:HB:508:G:O6	40:HT:21:ARG:NH1	2.15	0.80
1:IA:654:G:O4'	8:IH:2:LEU:CD2	2.29	0.80
1:IA:1057:G:OP2	3:IC:163:ALA:HB2	1.82	0.80
1:IA:19:C:P	5:IE:127:ASN:HD22	2.05	0.80
12:IL:85:ILE:HA	12:IL:100:ILE:HG23	1.63	0.80
22:JB:164:G:H2'	22:JB:165:G:H5'	1.63	0.80
22:JB:230:C:N4	51:J5:4:MET:HE1	1.96	0.80
22:JB:2350:G:O2'	49:J3:46:LYS:HA	1.82	0.80
22:JB:2815:C:O2'	35:JO:91:PRO:HB3	1.82	0.80
22:JB:610:G:H5'	26:JF:99:VAL:HG23	1.63	0.80
22:JB:760:U:H3	22:JB:1997:A:H1'	1.45	0.80
22:JB:1790:G:N1	24:JD:180:GLY:HA3	1.96	0.80
37:JQ:100:ARG:HH11	37:JQ:120:ASP:HB3	1.44	0.80
1:AA:254:G:C5	17:AQ:16:GLN:HB2	2.17	0.80
1:AA:761:G:O4'	17:AQ:103:GLY:N	2.14	0.80
1:AA:981:U:OP1	14:AN:6:LEU:HD21	1.80	0.80
22:BB:2769:C:C4	22:BB:2867:G:N2	2.49	0.80
22:BB:544:U:O2'	38:BR:49:ASP:CG	2.20	0.80
22:BB:675:C:H5'	33:BM:26:THR:HG23	1.63	0.80
1:AA:711:G:C2'	24:BD:184:ARG:HH12	1.95	0.80
22:BB:574:C:C5	39:BS:79:GLN:CD	2.55	0.80
22:BB:502:A:C2	40:BT:28:ALA:HB1	2.16	0.80
1:CA:1107:C:H5''	3:CC:174:PRO:HA	1.63	0.80
1:CA:15:G:H4'	5:CE:24:ARG:HH22	0.98	0.80
1:CA:1106:G:P	3:CC:172:ARG:NH1	2.55	0.80
4:CD:83:SER:HA	4:CD:89:THR:HG23	1.63	0.80
1:CA:558:G:C4'	5:CE:121:LYS:HZ1	1.94	0.80
1:CA:588:G:H8	8:CH:2:LEU:N	1.73	0.80
1:CA:1147:C:H1'	9:CI:16:ARG:NH1	1.96	0.80
17:CQ:9:VAL:HB	17:CQ:22:LEU:HB3	1.61	0.80
22:DB:1789:U:H5'	24:DD:257:LEU:HD13	1.63	0.80
22:DB:2007:G:C2'	31:DK:103:TYR:CE2	2.59	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:DB:2399:C:H41	51:D5:31:HIS:HD1	0.83	0.80
22:DB:2474:G:H4'	34:DN:83:ARG:CG	2.12	0.80
22:DB:455:A:H61	26:DF:32:THR:HG23	1.47	0.80
22:DB:777:A:C1'	24:DD:210:GLY:HA3	2.11	0.80
1:EA:1074:G:O2'	2:EB:104:ASN:HB2	1.81	0.80
3:EC:10:PHE:CE1	14:EN:58:LYS:NZ	2.50	0.80
1:EA:1060:C:OP2	3:EC:2:GLY:O	1.99	0.80
23:FA:85:G:O2'	46:FZ:49:HIS:HD2	1.64	0.80
22:FB:2760:G:N2	31:FK:125:ARG:NE	2.29	0.80
22:FB:504:G:H21	40:FT:78:ASN:CG	1.78	0.80
22:FB:891:A:N1	22:FB:909:C:O2	2.13	0.80
27:FG:8:TYR:HA	27:FG:12:VAL:HG23	1.63	0.80
22:FB:2662:C:H1'	32:FL:86:GLY:O	1.82	0.80
22:FB:1469:U:O4	35:FO:60:LEU:HD11	1.82	0.80
38:FR:24:PHE:HB3	38:FR:28:ARG:NE	1.97	0.80
1:CA:1263:C:HO2'	1:GA:1263:C:HO2'	1.03	0.80
1:GA:734:G:O2'	18:GR:71:LYS:CE	2.30	0.80
7:GG:50:ILE:HD13	7:GG:61:VAL:HG21	1.63	0.80
10:GJ:11:PHE:CD1	14:GN:54:PRO:C	2.54	0.80
22:HB:700:C:H5''	50:H4:4:THR:HA	0.83	0.80
22:HB:1261:G:OP1	26:HF:86:PRO:HG3	1.81	0.80
22:HB:164:G:H2'	22:HB:165:G:H5'	1.63	0.80
22:HB:1072:U:O4	30:HJ:54:PRO:CB	2.30	0.80
1:IA:1074:G:OP1	5:IE:60:TYR:CE2	2.33	0.80
1:IA:1194:U:H5''	5:IE:23:GLY:N	1.96	0.80
3:IC:57:ILE:HG23	3:IC:66:VAL:HG22	1.63	0.80
1:IA:520:A:C3'	12:IL:73:GLU:HB3	2.11	0.80
13:IM:86:CYS:HB2	19:IS:74:PHE:HD2	1.41	0.80
22:JB:2397:A:C4'	49:J3:21:TYR:HE2	1.91	0.80
22:JB:1662:G:H5''	22:JB:1663:C:H5'	1.64	0.80
22:JB:2003:A:O2'	38:JR:25:TRP:HZ2	1.59	0.80
22:JB:3178:C:C2'	53:J7:39:ILE:CG1	2.60	0.80
22:JB:648:A:P	33:JM:131:LYS:NZ	2.53	0.80
27:JG:8:TYR:HA	27:JG:12:VAL:HG23	1.63	0.80
1:AA:8:A:C4'	5:AE:103:GLY:HA2	2.11	0.80
1:AA:9:G:C5'	5:AE:104:ALA:CB	2.59	0.80
1:AA:273:A:O2'	17:AQ:14:LYS:O	1.98	0.80
1:AA:759:A:H62	17:AQ:98:LEU:CD1	1.75	0.80
1:AA:836:G:P	18:AR:61:LYS:NZ	2.55	0.80
23:BA:92:G:C6	34:BN:39:GLU:HG3	2.17	0.80
22:BB:1143:A:H2	31:BK:103:TYR:HB2	1.18	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:BB:1831:G:C8	22:BB:1910:A:O4'	2.35	0.80
22:BB:475:U:H4'	50:B4:5:TYR:CB	2.11	0.80
1:CA:1100:C:C5	2:CB:98:LEU:HD21	2.17	0.80
1:CA:1374:A:O2'	7:CG:28:ASN:CA	2.29	0.80
1:CA:665:A:N3	1:CA:732:C:H2'	1.97	0.80
1:CA:9:G:P	5:CE:122:GLU:CD	2.59	0.80
1:CA:597:G:C2'	8:CH:94:TYR:HE1	1.95	0.80
13:CM:88:ARG:HH21	13:CM:99:ARG:HG3	1.31	0.80
1:CA:1456:A:P	20:CT:28:ALA:HB1	2.22	0.80
22:DB:696:U:C4'	50:D4:16:HIS:CE1	2.64	0.80
22:DB:2487:G:H5''	22:DB:2534:U:H5'	1.62	0.80
22:DB:640:C:H4'	22:DB:660:G:H21	1.45	0.80
22:DB:776:G:H3'	24:DD:211:ARG:NH2	1.97	0.80
22:DB:7:G:H1'	31:DK:163:PRO:CG	2.11	0.80
22:DB:1293:A:OP1	35:DO:33:ARG:CZ	2.30	0.80
22:DB:1308:C:P	35:DO:71:HIS:CD2	2.75	0.80
1:EA:531:U:O2	1:EA:1208:C:H4'	1.82	0.80
1:EA:1206:G:O2'	3:EC:193:TYR:CB	2.30	0.80
1:EA:1185:G:O3'	9:EI:110:GLU:OE1	2.00	0.80
23:FA:36:A:H4'	23:FA:37:C:H5	1.47	0.80
22:FB:1150:C:OP1	31:FK:51:LEU:CA	2.28	0.80
22:FB:1673:C:H3'	25:FE:136:ARG:HE	1.40	0.80
22:FB:2692:A:O2'	35:FO:15:SER:CA	2.30	0.80
22:FB:1290:A:H1'	35:FO:24:GLN:HG2	1.64	0.80
43:FW:94:VAL:HG13	43:FW:130:ILE:HG12	1.64	0.80
1:GA:1049:U:H5'	1:GA:1201:A:H5'	1.61	0.80
1:GA:659:U:C5'	15:GO:5:LYS:HG3	2.03	0.80
22:HB:2399:C:O5'	51:H5:32:GLN:HG3	1.82	0.80
22:HB:1261:G:P	38:HR:2:PRO:CB	2.67	0.80
22:HB:1288:A:H62	22:HB:1309:G:H5'	1.46	0.80
22:HB:2064:U:P	47:H1:33:VAL:HG22	2.19	0.80
31:HK:50:PRO:HD2	31:HK:54:LEU:HD23	1.62	0.80
22:HB:60:A:OP2	45:HY:44:ARG:HG3	1.76	0.80
1:IA:1049:U:H5'	1:IA:1201:A:H5'	1.62	0.80
1:IA:1392:G:H4'	1:IA:1530:G:O5'	1.81	0.80
1:IA:646:U:H1'	17:IQ:81:ARG:NH1	1.96	0.80
11:IK:58:PRO:HB3	11:IK:90:GLY:HA3	1.64	0.80
3:IC:18:TRP:HE1	14:IN:52:GLN:N	1.80	0.80
51:J5:35:GLY:H	51:J5:36:LYS:HZ3	1.30	0.80
22:JB:3122:U:O2	53:J7:158:LYS:CE	2.30	0.80
22:JB:1486:A:N1	22:JB:1536:G:N3	2.29	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:JB:3168:G:P	53:J7:97:LYS:HE3	2.21	0.80
22:JB:455:A:N6	26:JF:91:TYR:CE2	2.50	0.80
22:JB:476:G:H22	22:JB:808:C:H1'	1.46	0.80
22:JB:2823:G:P	37:JQ:103:LYS:HD3	2.21	0.80
22:JB:338:G:H1'	42:JV:10:HIS:CB	2.11	0.80
43:JW:65:LEU:CA	43:JW:128:ARG:HH11	1.93	0.80
1:AA:667:G:C1'	15:AO:49:ASP:CA	2.12	0.80
1:AA:938:A:O3'	7:AG:102:ARG:NH2	2.14	0.80
16:AP:60:LEU:HD23	16:AP:65:GLN:HE21	1.47	0.80
22:BB:1041:G:N7	52:B6:6:SER:HB3	1.97	0.80
22:BB:1041:G:OP1	34:BN:125:LYS:HD3	1.82	0.80
22:BB:1166:A:N3	22:BB:1168:G:N7	2.30	0.80
22:BB:1398:G:C4'	22:BB:1416:A:N3	2.45	0.80
22:BB:3124:G:H1'	53:B7:31:GLU:CD	2.01	0.80
22:BB:504:G:H22	40:BT:77:ALA:CB	1.95	0.80
22:BB:677:G:C4'	22:BB:951:G:H4'	2.10	0.80
28:BH:28:GLY:HA3	28:BH:79:VAL:HG23	1.64	0.80
22:BB:1260:A:O2'	38:BR:2:PRO:HA	1.82	0.80
22:BB:1236:G:P	39:BS:87:ARG:NH1	2.55	0.80
1:CA:781:A:P	1:CA:1523:G:H5'	2.22	0.80
1:CA:689:C:H6	11:CK:51:LYS:HZ2	1.30	0.80
1:CA:940:C:H5'	7:CG:29:LYS:HD3	1.64	0.80
6:CF:99:ALA:CA	18:CR:62:GLU:OE2	2.30	0.80
1:CA:1227:A:O2'	13:CM:117:VAL:HG12	1.82	0.80
22:DB:1044:U:OP1	52:D6:9:LYS:HE2	1.82	0.80
22:DB:641:G:OP1	51:D5:46:LYS:CD	2.29	0.80
22:DB:25:U:C4'	40:DT:100:GLY:O	2.29	0.80
22:DB:916:U:O4'	43:DW:163:ASP:C	2.20	0.80
1:EA:1117:G:N2	9:EI:106:ALA:CB	2.41	0.80
7:EG:50:ILE:HD13	7:EG:61:VAL:HG21	1.64	0.80
1:EA:644:G:P	8:EH:92:ARG:NH2	2.48	0.80
1:EA:583:A:O4'	17:EQ:90:ILE:HG21	1.74	0.80
22:FB:124:A:C1'	50:F4:19:ARG:HB2	2.11	0.80
22:FB:1613:G:H4'	22:FB:1614:C:N1	1.89	0.80
22:FB:2326:C:C1'	49:F3:40:TYR:OH	2.29	0.80
22:FB:857:U:O3'	22:FB:858:G:P	2.40	0.80
22:FB:2541:U:O5'	32:FL:52:VAL:HG21	1.82	0.80
22:FB:490:A:H5'	42:FV:3:ARG:CZ	2.11	0.80
1:GA:1374:A:H4'	7:GG:28:ASN:OD1	1.82	0.80
1:GA:1393:U:O2'	1:GA:1394:A:C8	2.31	0.80
1:AA:190:A:C5'	1:GA:187:G:H22	1.87	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:GA:15:G:C2'	5:GE:17:ALA:CB	2.60	0.80
12:GL:58:VAL:HB	12:GL:66:VAL:HG23	1.64	0.80
1:GA:750:G:H4'	15:GO:22:THR:OG1	1.81	0.80
1:GA:668:G:H5'	15:GO:48:LYS:CE	2.12	0.80
22:HB:2789:U:C4'	48:H2:30:LEU:HD11	2.12	0.80
22:HB:1453:A:OP2	22:HB:1455:C:N4	2.14	0.80
22:HB:2760:G:OP1	31:HK:145:HIS:C	2.20	0.80
22:HB:51:A:C5	22:HB:116:A:N1	2.50	0.80
22:HB:825:C:H4'	38:HR:13:ARG:HH22	0.98	0.80
46:HZ:3:ILE:HB	46:HZ:33:GLU:HA	1.64	0.80
1:IA:1187:G:H1'	9:II:113:LYS:HG3	1.64	0.80
1:IA:1100:C:H41	2:IB:144:ARG:HH22	0.85	0.80
7:IG:50:ILE:HD13	7:IG:61:VAL:HG21	1.64	0.80
1:IA:589:C:H4'	8:IH:30:ARG:N	1.96	0.80
1:IA:778:G:N2	11:IK:120:ARG:HB2	1.97	0.80
22:JB:2265:A:C8	49:J3:31:THR:HG21	2.17	0.80
22:JB:1263:G:C5'	38:JR:6:THR:HG21	2.11	0.80
22:JB:1288:A:H62	22:JB:1309:G:H5'	1.47	0.80
22:JB:60:A:C5'	45:JY:29:ARG:HH21	1.95	0.80
37:JQ:37:THR:HB	37:JQ:93:ILE:HA	1.63	0.80
43:JW:51:LEU:CD1	43:JW:128:ARG:CD	2.13	0.80
1:AA:545:C:O5'	4:AD:72:GLU:HB2	1.82	0.79
1:AA:509:A:C5'	4:AD:54:TYR:HB3	2.12	0.79
22:BB:1135:C:C4'	52:B6:36:GLN:CG	2.56	0.79
22:BB:1147:G:H21	31:BK:133:GLY:CA	1.95	0.79
22:BB:1:G:N2	22:BB:2877:A:H61	1.77	0.79
22:BB:2464:G:C5'	34:BN:47:GLN:NE2	2.38	0.79
22:BB:1139:A:N6	22:BB:2469:G:OP1	2.16	0.79
22:BB:2767:C:C4'	25:BE:60:ASN:O	2.30	0.79
22:BB:1992:G:C5'	40:BT:62:ARG:HB2	2.12	0.79
22:BB:497:C:C2'	40:BT:80:LEU:HD12	2.12	0.79
1:CA:1344:C:H4'	9:CI:120:ARG:HB3	1.64	0.79
1:CA:1345:U:P	9:CI:120:ARG:NH2	2.55	0.79
1:CA:523:A:N6	12:CL:90:VAL:CA	2.45	0.79
1:CA:8:A:N6	4:CD:205:GLU:O	2.14	0.79
1:CA:1298:C:H2'	7:CG:114:ARG:HH22	1.47	0.79
12:CL:58:VAL:HB	12:CL:66:VAL:HG23	1.64	0.79
1:CA:1309:G:H5''	13:CM:88:ARG:HH11	1.44	0.79
23:DA:36:A:H4'	23:DA:37:C:H5	1.47	0.79
22:DB:1010:U:O2'	46:DZ:7:ARG:NH1	2.14	0.79
22:DB:1673:C:H6	25:DE:136:ARG:HH12	1.27	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:DB:504:G:O2'	40:DT:26:ALA:N	2.15	0.79
22:DB:1017:C:N1	31:DK:56:THR:HG21	1.97	0.79
32:DL:90:ARG:HE	32:DL:91:PHE:N	1.80	0.79
22:DB:596:C:O2	33:DM:29:THR:HG21	1.81	0.79
25:DE:176:ARG:HG2	37:DQ:16:ILE:HD12	1.62	0.79
22:DB:1163:C:H4'	38:DR:79:PHE:H	1.45	0.79
38:DR:94:VAL:CG2	39:DS:10:LYS:HB3	2.12	0.79
43:DW:19:ILE:HG23	43:DW:20:ALA:H	1.46	0.79
1:EA:1298:C:H5	7:EG:114:ARG:NH1	1.55	0.79
2:EB:200:ILE:HG22	2:EB:202:PRO:HD3	1.63	0.79
10:EJ:63:PHE:HZ	14:EN:58:LYS:HG2	1.43	0.79
22:FB:2637:C:H41	28:FH:181:GLY:HA2	1.45	0.79
22:FB:506:G:P	40:FT:22:LYS:H	2.05	0.79
22:FB:57:G:H4'	41:FU:75:ARG:NH2	1.97	0.79
37:FQ:37:THR:HB	37:FQ:93:ILE:HA	1.63	0.79
1:GA:876:G:N2	8:GH:4:ASP:H	1.80	0.79
1:GA:1398:A:C6	5:GE:22:GLY:CA	2.64	0.79
49:H3:11:LYS:HB2	49:H3:11:LYS:HZ3	1.46	0.79
22:HB:1669:A:H62	22:HB:1670:G:H21	1.27	0.79
22:HB:2503:G:O4'	22:HB:2744:A:N3	2.14	0.79
22:HB:498:C:O2	40:HT:74:SER:CA	2.29	0.79
22:HB:2577:A:O5'	24:HD:235:GLY:O	1.98	0.79
25:HE:52:ALA:O	37:HQ:5:ILE:CB	2.31	0.79
28:HH:16:THR:HG23	28:HH:45:GLN:HE22	1.47	0.79
22:HB:1335:A:O3'	40:HT:103:LEU:HB3	1.82	0.79
43:HW:94:VAL:HG13	43:HW:130:ILE:HG12	1.64	0.79
22:HB:71:A:N3	45:HY:55:THR:HA	1.97	0.79
1:IA:1308:U:C3'	13:IM:99:ARG:HD2	2.12	0.79
1:IA:927:G:C2'	1:IA:1532:U:H1'	2.11	0.79
7:IG:16:LEU:CG	9:II:42:ARG:HA	2.03	0.79
1:IA:1125:U:N3	10:IJ:5:ARG:NH2	2.30	0.79
1:IA:1226:C:C1'	19:IS:80:TYR:CE2	2.65	0.79
22:JB:469:G:N7	50:J4:34:ARG:HD3	1.97	0.79
22:JB:1148:G:H4'	31:JK:133:GLY:HA2	1.63	0.79
22:JB:2003:A:H8	48:J2:9:LYS:CE	1.93	0.79
22:JB:2464:G:H4'	34:JN:123:GLY:H	0.97	0.79
22:JB:529:U:H4'	40:JT:39:ARG:CZ	2.09	0.79
22:JB:1263:G:H5'	38:JR:6:THR:HG21	1.64	0.79
22:JB:488:A:H1'	42:JV:76:LEU:HD11	1.63	0.79
22:JB:74:G:H4'	45:JY:52:GLN:HB2	1.61	0.79
1:AA:1374:A:H2	7:AG:29:LYS:CE	1.84	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AD:83:SER:HA	4:AD:89:THR:HG23	1.62	0.79
1:AA:429:U:O3'	4:AD:8:VAL:CG2	2.30	0.79
11:AK:58:PRO:HB3	11:AK:90:GLY:HA3	1.64	0.79
22:BB:115:G:OP2	22:BB:118:U:OP1	2.00	0.79
22:BB:1002:C:N4	22:BB:1174:G:O6	2.14	0.79
22:BB:489:A:O3'	42:BV:5:SER:CB	2.11	0.79
22:BB:613:A:H2	22:BB:636:G:H22	1.30	0.79
1:CA:1379:G:OP2	7:CG:6:ARG:CZ	2.30	0.79
1:CA:622:A:OP2	4:CD:139:ARG:NH2	2.16	0.79
1:CA:706:A:H1'	11:CK:29:ILE:CD1	2.12	0.79
15:CO:16:ALA:HB1	15:CO:21:ASP:HB3	1.63	0.79
22:DB:2039:G:C4	48:D2:5:PRO:HD3	2.17	0.79
22:DB:2313:G:HO2'	36:DP:15:ARG:HD2	1.46	0.79
22:DB:2398:U:C6	51:D5:31:HIS:CA	2.61	0.79
22:DB:2492:G:C3'	22:DB:2493:U:C6	2.65	0.79
22:DB:699:G:C5	50:D4:5:TYR:CA	2.64	0.79
22:DB:476:G:H22	22:DB:808:C:H1'	1.46	0.79
24:DD:157:ARG:HB3	24:DD:202:LYS:HZ2	1.46	0.79
25:DE:19:ARG:HD3	37:DQ:65:SER:CA	1.91	0.79
22:DB:969:U:O4	34:DN:20:GLY:CA	2.30	0.79
22:DB:1234:C:C3'	39:DS:68:LYS:CD	2.44	0.79
22:DB:2236:U:H4'	44:DX:10:SER:HB2	1.63	0.79
45:DY:44:ARG:HA	45:DY:47:ARG:HB2	1.63	0.79
1:EA:1206:G:H5''	3:EC:192:THR:C	2.00	0.79
1:EA:1224:G:O3'	19:ES:78:ARG:NH2	2.16	0.79
1:EA:407:G:C2	4:ED:157:LEU:CD1	2.63	0.79
4:ED:205:GLU:HG2	5:EE:100:VAL:C	2.02	0.79
14:EN:47:LEU:HD23	14:EN:50:LYS:HD2	1.64	0.79
47:F1:48:ARG:HG2	47:F1:69:ARG:HG3	1.64	0.79
22:FB:2325:A:C2'	49:F3:25:THR:HG21	2.12	0.79
22:FB:114:C:O2'	50:F4:19:ARG:HG3	1.82	0.79
22:FB:475:U:OP1	50:F4:4:THR:HG23	1.80	0.79
22:FB:1167:A:C5'	22:FB:1168:G:N7	2.46	0.79
22:FB:312:G:H4'	42:FV:89:GLY:HA3	1.62	0.79
22:FB:346:C:H1'	42:FV:79:SER:HA	1.63	0.79
24:FD:82:ILE:HA	24:FD:94:LEU:HB2	1.64	0.79
23:FA:49:C:C5'	36:FP:95:LYS:HG3	2.11	0.79
41:FU:13:SER:HB3	41:FU:16:ALA:HB2	1.64	0.79
22:FB:74:G:O2'	45:FY:48:ARG:NH2	2.15	0.79
1:GA:1240:U:P	7:GG:115:ARG:HG2	2.14	0.79
1:GA:186:C:H5'	20:GT:78:ALA:HB1	0.87	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:GA:107:G:H22	20:GT:12:ALA:CA	1.94	0.79
22:HB:1020:A:H5'	38:HR:59:ARG:CD	2.12	0.79
22:HB:2859:U:N3	48:H2:34:PRO:CB	2.45	0.79
22:HB:603:C:H2'	22:HB:604:U:C6	2.17	0.79
22:HB:1090:C:O2	30:HJ:132:ARG:HD2	1.83	0.79
22:HB:2463:G:H5'	34:HN:46:ASN:O	1.83	0.79
22:HB:1265:G:C6	38:HR:36:PHE:CE1	2.70	0.79
22:HB:71:A:C5'	45:HY:54:ASN:CB	2.60	0.79
1:IA:1320:C:O4'	19:IS:73:GLU:CB	2.23	0.79
1:IA:16:A:HO2'	5:IE:16:THR:CA	1.83	0.79
1:IA:228:A:H2	16:IP:1:MET:N	1.80	0.79
22:JB:474:G:N2	50:J4:12:ARG:NE	2.15	0.79
22:JB:1351:G:O2'	41:JU:15:LYS:HB3	1.82	0.79
22:JB:2258:G:N3	22:JB:2306:A:N3	2.31	0.79
22:JB:2261:G:C2	22:JB:2404:A:C8	2.71	0.79
22:JB:3166:G:C2	53:J7:98:ARG:NE	2.49	0.79
22:JB:339:U:H2'	42:JV:80:LYS:CE	2.12	0.79
1:AA:943:U:O2	9:AI:124:GLN:CD	2.20	0.79
1:AA:255:G:H5'	17:AQ:45:HIS:CE1	2.18	0.79
22:BB:1583:A:C8	24:BD:84:TYR:HD1	1.99	0.79
22:BB:2790:C:HO2'	48:B2:42:SER:C	1.83	0.79
22:BB:1805:G:H4'	24:BD:44:ASN:C	2.01	0.79
43:BW:96:VAL:HB	43:BW:123:VAL:HG11	1.63	0.79
45:BY:44:ARG:HA	45:BY:47:ARG:HB2	1.62	0.79
1:CA:134:A:N1	16:CP:25:ARG:CZ	2.46	0.79
1:CA:588:G:O3'	8:CH:5:PRO:HG3	1.82	0.79
1:CA:407:G:H4'	4:CD:116:GLN:HB2	0.80	0.79
1:CA:1311:G:C8	19:CS:2:PRO:N	2.50	0.79
23:DA:78:A:C4'	43:DW:31:SER:OG	2.30	0.79
22:DB:2752:C:C4'	25:DE:166:THR:CB	2.60	0.79
22:DB:613:A:H2	22:DB:636:G:H22	1.31	0.79
22:DB:546:A:C5'	38:DR:57:PHE:HZ	1.84	0.79
1:EA:967:C:C6	9:EI:128:ARG:HG3	2.16	0.79
22:FB:1135:C:C2'	52:F6:4:ARG:HG2	2.12	0.79
22:FB:3126:A:OP1	53:F7:26:PHE:CE1	2.35	0.79
22:FB:2766:U:H5'	25:FE:65:GLY:C	1.90	0.79
22:FB:2:G:O6	22:FB:2875:C:N4	2.16	0.79
22:FB:544:U:P	38:FR:22:LYS:HE3	2.21	0.79
22:FB:613:A:H2	22:FB:636:G:H22	1.31	0.79
25:FE:176:ARG:HD3	37:FQ:20:HIS:CE1	2.17	0.79
43:FW:51:LEU:HD13	43:FW:128:ARG:NE	1.96	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:GA:273:A:O2'	17:GQ:15:MET:CA	2.31	0.79
1:GA:835:U:H5''	18:GR:64:ARG:NH1	1.96	0.79
7:GG:153:HIS:CD2	11:GK:93:GLN:HG3	2.17	0.79
22:HB:699:G:N1	50:H4:5:TYR:HB2	1.97	0.79
22:HB:1129:A:H4'	43:HW:76:ARG:HH12	0.96	0.79
22:HB:625:A:N6	26:HF:172:VAL:HG21	1.97	0.79
34:HN:63:GLY:H	43:HW:110:GLY:C	1.85	0.79
41:HU:92:ALA:C	45:HY:27:GLU:CD	2.41	0.79
1:IA:922:G:C2	1:IA:1396:A:N6	2.50	0.79
1:IA:16:A:O2'	5:IE:16:THR:N	2.14	0.79
1:IA:452:A:H1'	16:IP:72:ARG:HD2	1.63	0.79
8:IH:10:LEU:HD22	8:IH:83:ILE:HD11	1.63	0.79
1:IA:452:A:C2	16:IP:72:ARG:NH1	2.49	0.79
22:JB:2371:A:H5''	51:J5:29:LYS:CE	2.11	0.79
22:JB:3125:G:OP1	53:J7:60:LYS:O	2.00	0.79
22:JB:2186:G:C2	24:JD:70:ARG:NH2	2.51	0.79
22:JB:2811:G:C4'	37:JQ:4:HIS:CE1	2.60	0.79
22:JB:542:A:O2'	38:JR:24:PHE:CD2	2.34	0.79
1:AA:668:G:N3	15:AO:46:HIS:ND1	2.30	0.79
8:AH:10:LEU:HD22	8:AH:83:ILE:HD11	1.62	0.79
11:AK:83:ILE:HG23	11:AK:109:VAL:HB	1.65	0.79
1:AA:980:C:O4'	14:AN:19:ARG:CZ	2.29	0.79
14:AN:47:LEU:HD23	14:AN:50:LYS:HD2	1.64	0.79
23:BA:36:A:H4'	23:BA:37:C:H5	1.47	0.79
22:BB:1008:G:C5'	38:BR:92:ARG:HB2	2.13	0.79
22:BB:51:A:C6	22:BB:116:A:H2	1.98	0.79
22:BB:176:A:C5	47:B1:30:GLU:CB	2.66	0.79
22:BB:658:G:C4'	22:BB:2331:A:OP1	2.30	0.79
22:BB:2768:C:H2'	22:BB:2866:A:C2	2.17	0.79
22:BB:476:G:OP1	50:B4:5:TYR:CE2	2.36	0.79
22:BB:513:A:OP1	40:BT:18:VAL:HG11	1.82	0.79
22:BB:827:C:H5''	39:BS:83:ARG:C	2.03	0.79
23:BA:44:C:C2	27:BG:90:THR:CB	2.48	0.79
37:BQ:37:THR:HB	37:BQ:93:ILE:HA	1.63	0.79
1:CA:1367:C:O3'	10:CJ:62:HIS:HE1	1.64	0.79
5:CE:67:VAL:HG21	5:CE:140:ARG:HA	1.64	0.79
1:CA:1228:C:H1'	13:CM:118:ALA:O	1.81	0.79
22:DB:2411:A:C2	47:D1:27:THR:CB	2.65	0.79
22:DB:2000:U:C4'	48:D2:8:LYS:HA	2.12	0.79
22:DB:930:A:H8	23:DA:82:U:HO2'	1.28	0.79
22:DB:176:A:O3'	47:D1:31:ILE:HG21	1.81	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:DB:1797:C:O2'	24:DD:49:ILE:CG2	2.30	0.79
22:DB:624:A:N7	26:DF:170:LEU:HD23	1.98	0.79
28:DH:28:GLY:HA3	28:DH:79:VAL:HG23	1.64	0.79
22:DB:503:G:C5'	40:DT:30:TYR:CZ	2.61	0.79
22:DB:2236:U:C3'	44:DX:10:SER:HB3	2.12	0.79
1:EA:404:U:H5'	4:ED:122:ARG:CD	2.12	0.79
3:EC:113:ALA:HB3	3:EC:184:TYR:HA	1.62	0.79
1:EA:1320:C:O2'	19:ES:73:GLU:HA	1.81	0.79
22:FB:1401:G:H22	22:FB:1413:U:H1'	1.47	0.79
22:FB:1481:U:O4'	22:FB:1561:A:N1	2.15	0.79
22:FB:2701:A:N3	35:FO:5:LYS:NZ	2.28	0.79
22:FB:348:U:O4'	42:FV:11:ASN:O	2.00	0.79
22:FB:58:C:H1'	22:FB:72:A:C4	2.16	0.79
22:FB:476:G:H22	22:FB:808:C:H1'	1.46	0.79
22:FB:2056:C:C4'	24:FD:228:PRO:O	2.29	0.79
34:FN:36:ILE:CG1	43:FW:74:ARG:HA	2.13	0.79
2:GB:186:ALA:HB3	2:GB:197:VAL:HG13	1.63	0.79
4:GD:83:SER:HA	4:GD:89:THR:HG23	1.63	0.79
12:GL:85:ILE:HA	12:GL:100:ILE:HG23	1.63	0.79
22:HB:1789:U:H5'	24:HD:257:LEU:HD13	0.79	0.79
22:HB:1954:A:N7	24:HD:239:ARG:CA	2.45	0.79
22:HB:2671:C:O2'	22:HB:2822:U:O2'	2.00	0.79
22:HB:461:A:OP1	26:HF:79:GLY:HA2	1.83	0.79
22:HB:512:A:C8	40:HT:16:GLN:CB	2.58	0.79
22:HB:593:C:OP1	38:HR:5:LYS:CA	2.31	0.79
25:HE:54:LYS:HE2	37:HQ:6:LYS:NZ	1.98	0.79
32:HL:91:PHE:CB	37:HQ:79:ARG:HD2	2.11	0.79
22:HB:634:G:N7	33:HM:98:LEU:HD21	1.97	0.79
22:HB:2685:A:H4'	35:HO:64:ARG:HH21	1.44	0.79
23:HA:106:U:OP2	43:HW:91:PRO:CB	2.31	0.79
22:HB:2365:U:O2	44:HX:37:LEU:CD2	2.30	0.79
1:IA:1455:G:H2'	1:IA:1455:G:N3	1.94	0.79
1:IA:452:A:O3'	16:IP:73:LEU:CD1	2.27	0.79
1:IA:919:A:H2'	1:IA:920:U:C5	2.17	0.79
1:IA:922:G:C2'	5:IE:19:MET:SD	2.69	0.79
1:IA:1372:U:HO2'	7:IG:35:LYS:HA	1.42	0.79
15:IO:16:ALA:HB1	15:IO:21:ASP:HB3	1.63	0.79
22:JB:1629:G:O3'	50:J4:3:ARG:HD2	1.81	0.79
22:JB:1669:A:H62	22:JB:1670:G:H21	1.27	0.79
22:JB:923:A:C1'	22:JB:2243:C:O2'	2.31	0.79
22:JB:2847:G:O2'	35:JO:8:ARG:NH2	2.13	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:JB:217:U:H5''	22:JB:634:G:H5'	1.62	0.79
22:JB:2570:C:C4	24:JD:237:GLU:HB3	2.15	0.79
22:JB:2599:U:H1'	25:JE:156:MET:HB3	1.63	0.79
22:JB:595:A:H4'	26:JF:84:PHE:CE1	2.17	0.79
28:JH:28:GLY:HA3	28:JH:79:VAL:HG23	1.64	0.79
34:JN:105:PHE:O	43:JW:115:ILE:HG23	1.81	0.79
22:JB:2464:G:HO2'	34:JN:123:GLY:CA	1.89	0.79
22:JB:63:A:C4'	41:JU:62:ARG:HD3	2.12	0.79
1:AA:665:A:N3	1:AA:732:C:H2'	1.98	0.79
10:AJ:49:VAL:HG11	14:AN:45:ARG:HG3	1.19	0.79
22:BB:1566:G:O3'	22:BB:1567:A:P	2.40	0.79
22:BB:2015:G:N3	22:BB:2551:A:H2	1.80	0.79
22:BB:2398:U:OP2	51:B5:34:THR:HG21	1.82	0.79
22:BB:2856:U:O4'	35:BO:93:GLY:CA	2.30	0.79
22:BB:476:G:H22	22:BB:808:C:H1'	1.46	0.79
22:BB:2814:G:N3	35:BO:92:GLY:CA	2.45	0.79
43:BW:19:ILE:HG23	43:BW:20:ALA:H	1.47	0.79
1:CA:1254:C:N4	10:CJ:43:ARG:HH12	1.77	0.79
1:CA:552:U:C1'	12:CL:31:PRO:CB	2.59	0.79
11:CK:83:ILE:HG23	11:CK:109:VAL:HB	1.65	0.79
14:CN:47:LEU:HD23	14:CN:50:LYS:HD2	1.64	0.79
22:DB:416:U:OP2	53:D7:217:ARG:NH2	2.14	0.79
22:DB:1887:G:C6	22:DB:1888:C:C4	2.70	0.79
22:DB:2219:U:OP1	24:DD:229:VAL:CG1	2.27	0.79
22:DB:2393:G:H21	33:DM:66:ASN:ND2	1.81	0.79
22:DB:2653:A:O2'	32:DL:41:ASN:ND2	2.14	0.79
22:DB:2692:A:H2'	35:DO:14:SER:HB2	1.63	0.79
34:DN:66:TYR:CD1	43:DW:118:HIS:N	2.46	0.79
43:DW:96:VAL:HB	43:DW:123:VAL:HG11	1.63	0.79
1:EA:665:A:N3	1:EA:732:C:H2'	1.98	0.79
1:EA:878:G:H5'	8:EH:88:LYS:HG2	1.64	0.79
1:EA:1100:C:C2'	2:EB:98:LEU:HD22	1.84	0.79
1:EA:707:C:H5''	11:EK:85:ARG:HH22	1.47	0.79
1:EA:537:G:P	12:EL:113:ARG:NH1	2.54	0.79
15:EO:16:ALA:HB1	15:EO:21:ASP:HB3	1.63	0.79
22:FB:1762:C:C5'	22:FB:1921:A:N7	2.45	0.79
22:FB:2395:C:OP2	33:FM:62:LYS:HB3	1.83	0.79
22:FB:2653:A:H4'	32:FL:44:TYR:HE2	1.44	0.79
22:FB:2661:G:C5	25:FE:11:MET:HA	2.17	0.79
22:FB:8:A:OP1	31:FK:79:PHE:CE2	2.36	0.79
1:GA:1367:C:H5''	9:GI:114:TYR:HA	1.65	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:GH:10:LEU:HD22	8:GH:83:ILE:HD11	1.63	0.79
12:GL:47:LYS:HG3	12:GL:48:PRO:HD3	1.63	0.79
22:HB:156:G:O3'	50:H4:36:ALA:CB	2.30	0.79
22:HB:1789:U:H5''	24:HD:257:LEU:CD2	2.12	0.79
22:HB:1809:G:C5'	24:HD:63:ARG:NH1	2.45	0.79
22:HB:1849:G:H1'	22:HB:1868:A:H62	1.48	0.79
22:HB:2398:U:H5'	49:H3:21:TYR:OH	1.81	0.79
22:HB:2402:U:C5	49:H3:3:LYS:N	2.50	0.79
22:HB:2463:G:OP1	34:HN:46:ASN:ND2	2.14	0.79
22:HB:2551:A:P	25:HE:144:ARG:CB	2.69	0.79
22:HB:3177:C:C5'	53:H7:163:PRO:CG	2.60	0.79
22:HB:236:C:H1'	22:HB:632:A:O4'	1.83	0.79
22:HB:613:A:H2	22:HB:636:G:H22	1.30	0.79
22:HB:2825:A:N3	35:HO:61:HIS:HD2	1.81	0.79
1:IA:1117:G:C4'	9:II:104:ARG:HH22	1.94	0.79
1:IA:675:A:N3	11:IK:116:HIS:CD2	2.51	0.79
17:IQ:9:VAL:HB	17:IQ:22:LEU:HB3	1.62	0.79
1:IA:835:U:H5''	18:IR:64:ARG:NH1	1.97	0.79
22:JB:114:C:H4'	22:JB:124:A:O4'	1.83	0.79
22:JB:2315:A:C4	44:JX:70:ILE:HD12	2.16	0.79
22:JB:2716:G:H22	22:JB:2749:A:H1'	1.45	0.79
22:JB:539:A:C3'	22:JB:540:G:OP2	2.30	0.79
22:JB:2558:C:H5'	25:JE:132:LYS:HG2	1.61	0.79
22:JB:3094:A:H1'	29:JI:28:TRP:HH2	1.46	0.79
34:JN:103:VAL:H	34:JN:104:MET:HE1	1.47	0.79
1:AA:939:G:P	7:AG:102:ARG:NH2	2.55	0.79
10:AJ:49:VAL:HG12	14:AN:45:ARG:CD	2.12	0.79
22:BB:1225:G:N1	40:BT:12:LYS:NZ	2.30	0.79
1:AA:1428:A:C5'	22:BB:1704:G:H4'	2.12	0.79
22:BB:2039:G:C2'	48:B2:5:PRO:HG3	2.13	0.79
22:BB:1815:G:H5''	24:BD:54:ILE:HB	1.64	0.79
22:BB:2489:C:O2'	25:BE:126:PRO:HD3	1.82	0.79
1:AA:1433:A:C1'	37:BQ:116:ARG:HE	1.95	0.79
1:CA:523:A:C6	12:CL:90:VAL:C	2.52	0.79
3:CC:46:GLU:HB3	3:CC:47:LEU:HD12	1.65	0.79
22:DB:2615:U:C4'	25:DE:79:ARG:NE	2.44	0.79
22:DB:507:A:C2'	40:DT:21:ARG:NH1	2.33	0.79
46:DZ:3:ILE:HB	46:DZ:33:GLU:HA	1.65	0.79
12:EL:102:ARG:HB2	12:EL:110:VAL:HG23	1.62	0.79
16:EP:60:LEU:HD23	16:EP:65:GLN:HE21	1.47	0.79
22:FB:1453:A:O3'	22:FB:1454:U:P	2.41	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:FB:2209:G:H21	47:F1:58:LYS:HE2	1.45	0.79
22:FB:674:U:P	26:FF:93:TYR:HE1	2.04	0.79
27:FG:40:LEU:HD13	27:FG:152:MET:HE2	1.64	0.79
22:FB:2463:G:O2'	34:FN:47:GLN:NE2	2.14	0.79
41:FU:44:GLN:HG3	41:FU:45:ALA:H	1.48	0.79
43:FW:84:TYR:HB2	43:FW:93:GLU:OE1	1.82	0.79
3:GC:113:ALA:HB3	3:GC:184:TYR:HA	1.62	0.79
1:GA:437:U:HO2'	4:GD:119:GLN:HE22	1.31	0.79
5:GE:27:ARG:HB3	5:GE:47:LYS:HB2	1.65	0.79
12:GL:10:LEU:O	17:GQ:32:TYR:CD1	2.34	0.79
10:GJ:65:LEU:HA	14:GN:56:VAL:HA	0.86	0.79
23:HA:92:G:N1	34:HN:39:GLU:HG3	1.97	0.79
22:HB:1232:U:H2'	22:HB:1243:G:H1	1.45	0.79
22:HB:1336:G:C5'	40:HT:103:LEU:CD2	2.60	0.79
22:HB:1995:G:H4'	40:HT:117:ILE:HA	1.65	0.79
22:HB:3093:C:H4'	22:HB:2181:A:C2	2.16	0.79
22:HB:1039:A:C2	22:HB:2466:G:C1'	2.65	0.79
22:HB:2748:C:H5'	31:HK:119:LEU:HA	1.65	0.79
22:HB:2760:G:N3	31:HK:149:LYS:CE	2.46	0.79
22:HB:3876:A:C6	53:H7:44:GLY:CA	2.65	0.79
32:HL:47:VAL:HG13	32:HL:48:GLY:H	1.45	0.79
22:HB:1336:G:C5'	40:HT:103:LEU:CG	2.56	0.79
1:IA:278:G:C8	17:IQ:95:TYR:CB	2.65	0.79
1:IA:1074:G:P	5:IE:60:TYR:CE2	2.75	0.79
1:IA:588:G:C2'	8:IH:31:PHE:CB	2.60	0.79
1:IA:1146:A:C5	9:II:16:ARG:NH2	2.34	0.79
9:II:49:PRO:HG3	9:II:81:ILE:HD13	1.62	0.79
11:IK:83:ILE:HG23	11:IK:109:VAL:HB	1.65	0.79
1:IA:657:G:C2'	15:IO:23:GLY:HA2	2.12	0.79
47:J1:48:ARG:HG2	47:J1:69:ARG:HG3	1.64	0.79
22:JB:1828:C:C2	22:JB:1912:G:C5'	2.65	0.79
22:JB:3171:A:H4'	53:J7:105:ARG:CD	2.12	0.79
22:JB:613:A:H2	22:JB:636:G:H22	1.30	0.79
22:JB:63:A:H5''	41:JU:72:ARG:CB	2.11	0.79
22:JB:592:G:N2	26:JF:78:VAL:CG1	2.45	0.79
22:JB:2510:A:H5'	28:JH:174:GLY:CA	2.11	0.79
22:JB:846:A:C1'	33:JM:53:ARG:NH1	2.45	0.79
41:JU:13:SER:HB3	41:JU:16:ALA:HB2	1.65	0.79
1:AA:1346:A:H5'	9:AI:120:ARG:HH12	1.47	0.79
1:AA:815:A:N3	1:AA:1527:C:O2'	2.15	0.79
33:BM:58:ALA:CB	51:B5:9:MET:CG	2.55	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:BB:1041:G:C5'	34:BN:119:PHE:CE2	2.66	0.79
22:BB:124:A:C8	50:B4:18:PHE:CE1	2.70	0.79
22:BB:1376:C:H4'	22:BB:1801:C:H41	1.48	0.79
22:BB:195:A:H61	22:BB:444:U:H3	1.31	0.79
22:BB:827:C:C5'	39:BS:84:THR:HA	2.07	0.79
22:BB:2558:C:C4'	25:BE:132:LYS:HD3	2.12	0.79
22:BB:2723:C:O4'	28:BH:150:LYS:HD3	1.68	0.79
31:BK:50:PRO:HD2	31:BK:54:LEU:HD23	1.62	0.79
22:BB:596:C:P	33:BM:30:ALA:HB3	2.20	0.79
22:BB:1237:G:C4'	39:BS:87:ARG:N	2.32	0.79
1:CA:1225:A:C5'	13:CM:103:THR:OG1	2.31	0.79
1:CA:781:A:O2'	1:CA:1522:U:O2	1.99	0.79
1:CA:706:A:C1'	11:CK:29:ILE:HD13	2.13	0.79
1:CA:948:C:H5''	13:CM:106:ASN:CA	2.11	0.79
1:CA:623:C:N4	4:CD:139:ARG:NH2	2.31	0.79
8:CH:39:LEU:HD13	8:CH:44:PHE:HB3	1.65	0.79
23:DA:107:C:H5'	43:DW:88:TYR:HA	1.65	0.79
22:DB:1809:G:C5'	24:DD:63:ARG:CZ	2.60	0.79
22:DB:195:A:H61	22:DB:444:U:H3	1.31	0.79
22:DB:2288:A:N6	27:DG:77:PHE:HZ	1.78	0.79
22:DB:29:U:H5'	38:DR:7:GLY:CA	2.12	0.79
22:DB:2035:G:H5'	25:DE:142:GLY:HA3	0.79	0.79
1:EA:1344:C:C1'	9:EI:121:ARG:HH12	1.95	0.79
1:EA:922:G:H4'	5:EE:20:GLN:O	1.83	0.79
22:FB:1163:C:H1'	38:FR:78:THR:N	1.95	0.79
22:FB:1376:C:H4'	22:FB:1801:C:H41	1.48	0.79
22:FB:195:A:H61	22:FB:444:U:H3	1.31	0.79
22:FB:870:C:C4'	44:FX:24:LYS:HE2	2.12	0.79
22:FB:2035:G:C5'	25:FE:142:GLY:CA	1.89	0.79
1:GA:541:G:C2	4:GD:43:HIS:NE2	2.51	0.79
1:GA:132:C:H5''	20:GT:74:LYS:CE	2.13	0.79
22:HB:1148:G:H4'	31:HK:133:GLY:HA3	1.63	0.79
22:HB:1377:G:OP2	47:H1:3:LYS:O	2.01	0.79
22:HB:2235:G:H5''	44:HX:5:LYS:N	1.97	0.79
22:HB:2826:C:H4'	35:HO:64:ARG:HH11	1.41	0.79
22:HB:4:C:C2	22:HB:2874:A:N6	2.51	0.79
22:HB:3126:A:OP1	53:H7:26:PHE:CZ	2.36	0.79
22:HB:418:C:C5	53:H7:192:ASN:CA	2.54	0.79
22:HB:574:C:H5''	39:HS:82:ARG:HH22	1.45	0.79
22:HB:631:G:C3'	33:HM:101:ARG:HH22	1.96	0.79
22:HB:686:C:H5''	26:HF:73:SER:HB3	1.61	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:HB:795:A:HO2'	24:HD:226:MET:CE	1.96	0.79
22:HB:1805:G:C2'	24:HD:52:ARG:HE	1.95	0.79
22:HB:1815:G:P	24:HD:54:ILE:CB	2.69	0.79
24:HD:72:LYS:HZ3	24:HD:75:VAL:HG21	1.47	0.79
27:HG:40:LEU:HD13	27:HG:152:MET:HE2	1.64	0.79
22:HB:2815:C:HO2'	35:HO:91:PRO:HB3	0.87	0.79
22:HB:71:A:C4	45:HY:54:ASN:O	2.34	0.79
1:IA:1187:G:H1'	9:II:113:LYS:CD	2.11	0.79
1:IA:129(A):G:N7	17:IQ:63:ARG:CB	2.34	0.79
8:IH:39:LEU:HD13	8:IH:44:PHE:HB3	1.65	0.79
1:IA:597:G:N2	8:IH:94:TYR:HD2	1.81	0.79
22:JB:1232:U:H2'	22:JB:1243:G:H1	1.46	0.79
22:JB:1406:A:N6	41:JU:15:LYS:HG2	1.98	0.79
22:JB:1363:C:O2'	22:JB:1588:A:H4'	1.83	0.79
22:JB:1849:G:H1'	22:JB:1868:A:H62	1.48	0.79
22:JB:539:A:O3'	22:JB:540:G:OP2	2.01	0.79
25:JE:1:MET:H2	25:JE:199:ARG:HH12	1.30	0.79
22:JB:1270:C:OP1	26:JF:69:HIS:HE1	1.66	0.79
27:JG:148:LYS:HD3	27:JG:149:THR:H	1.46	0.79
27:JG:40:LEU:HD13	27:JG:152:MET:HE2	1.64	0.79
22:JB:576:A:H5'	33:JM:40:ARG:NH1	1.82	0.79
1:AA:1220:G:O3'	19:AS:36:ARG:HD3	1.83	0.79
1:AA:985:C:H4'	19:AS:55:LYS:HZ2	1.44	0.79
3:AC:46:GLU:HB3	3:AC:47:LEU:HD12	1.65	0.79
1:AA:559:A:N6	5:AE:126:ARG:CZ	2.46	0.79
3:AC:23:TYR:CD2	10:AJ:94:VAL:HA	2.17	0.79
13:AM:81:LEU:CD1	13:AM:92:HIS:NE2	2.45	0.79
1:AA:264:U:H5''	17:AQ:63:ARG:HH21	1.47	0.79
22:BB:2338:C:O3'	51:B5:49:VAL:CG1	2.29	0.79
22:BB:1044:U:O3'	52:B6:16:VAL:HG21	1.82	0.79
22:BB:1003:C:N3	22:BB:1173:G:C2	2.51	0.79
22:BB:1003:C:C2	22:BB:1173:G:N2	2.51	0.79
22:BB:127:C:H5'	22:BB:1360:G:H22	1.48	0.79
22:BB:18:U:C2'	22:BB:563:U:H5'	2.13	0.79
24:BD:72:LYS:HZ3	24:BD:75:VAL:HG21	1.48	0.79
22:BB:1246:G:OP1	40:BT:8:PHE:HE2	1.63	0.79
1:CA:939:G:O2'	7:CG:29:LYS:NZ	2.14	0.79
1:CA:659:U:H5''	15:CO:5:LYS:HG2	1.65	0.79
49:D3:11:LYS:HB2	49:D3:11:LYS:HZ3	1.45	0.79
22:DB:1135:C:H4'	52:D6:4:ARG:CD	2.12	0.79
22:DB:1673:C:C2'	25:DE:136:ARG:NH2	2.43	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:DB:2708:U:H4'	25:DE:21:ILE:CD1	2.12	0.79
22:DB:2753:C:HO2'	25:DE:163:GLU:CG	1.94	0.79
32:DL:119:ARG:NE	37:DQ:43:ASN:ND2	2.30	0.79
32:DL:91:PHE:HA	37:DQ:79:ARG:NH1	1.93	0.79
22:DB:1235:C:P	39:DS:68:LYS:HD2	2.23	0.79
3:EC:46:GLU:HB3	3:EC:47:LEU:HD12	1.65	0.79
5:EE:27:ARG:HB3	5:EE:47:LYS:HB2	1.65	0.79
1:EA:644:G:C5'	8:EH:132:GLU:OE2	2.26	0.79
1:EA:586:C:H5'	8:EH:91:ARG:HB2	1.64	0.79
7:EG:13:GLN:HB2	9:EI:42:ARG:HH12	1.41	0.79
22:FB:1049:C:C2	22:FB:1129:A:C2	2.70	0.79
22:FB:1266:G:C2	38:FR:37:GLN:CD	2.56	0.79
22:FB:63:A:H5'	41:FU:61:LYS:CA	2.13	0.79
22:FB:2284:U:O4'	27:FG:152:MET:N	2.13	0.79
34:FN:36:ILE:CG1	43:FW:74:ARG:O	2.31	0.79
43:FW:68:ALA:HB2	43:FW:120:LEU:HD23	1.64	0.79
1:GA:1395:C:H5'	1:GA:1401:G:H21	1.48	0.79
1:GA:816:A:OP1	1:GA:1526:G:H1'	1.83	0.79
1:GA:280:C:H1'	17:GQ:38:ARG:HA	1.64	0.79
1:GA:1319:A:O3'	19:GS:70:LYS:NZ	2.16	0.79
22:HB:1090:C:O2'	30:HJ:132:ARG:NH2	2.16	0.79
22:HB:2646:C:O2'	28:HH:111:HIS:CG	2.36	0.79
22:HB:2752:C:H4'	25:HE:164:ARG:HB2	1.64	0.79
28:HH:28:GLY:HA3	28:HH:79:VAL:HG23	1.64	0.79
22:HB:1081:A:N1	30:HJ:10:LEU:CD1	2.45	0.79
22:HB:221:A:C3'	33:HM:68:VAL:HG22	2.12	0.79
1:IA:120:A:H2'	1:IA:121:C:H4'	1.64	0.79
1:IA:925:G:N3	1:IA:1502:A:O3'	2.16	0.79
1:IA:665:A:N3	1:IA:732:C:H2'	1.97	0.79
1:IA:925:G:O4'	1:IA:1502:A:C1'	2.29	0.79
1:IA:644:G:C4'	8:IH:92:ARG:NE	2.46	0.79
1:IA:260:G:C8	20:IT:80:ARG:NH2	2.51	0.79
22:JB:2399:C:P	51:J5:34:THR:O	2.34	0.79
23:JA:36:A:H4'	23:JA:37:C:H5	1.47	0.79
22:JB:1375:C:H5'	22:JB:2194:A:C5'	2.13	0.79
22:JB:338:G:H2'	42:JV:77:HIS:HE1	1.02	0.79
22:JB:63:A:H1'	41:JU:62:ARG:HB3	1.61	0.79
22:JB:643:A:C2	22:JB:2382:C:C1'	2.47	0.79
22:JB:672:C:C1'	26:JF:95:LEU:N	2.46	0.79
33:JM:56:LEU:HD23	33:JM:57:ILE:H	1.47	0.79
22:JB:1041:G:P	34:JN:125:LYS:HE2	2.22	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:JB:1741:G:C6	37:JQ:125:MET:CE	2.66	0.79
40:JT:76:LYS:HA	40:JT:79:ALA:HB3	1.65	0.79
1:AA:1350:A:H1'	7:AG:33:ASP:HA	1.65	0.79
1:AA:254:G:H22	17:AQ:16:GLN:CD	1.87	0.79
5:AE:67:VAL:HG21	5:AE:140:ARG:HA	1.64	0.79
7:AG:50:ILE:HD13	7:AG:61:VAL:HG21	1.64	0.79
10:AJ:65:LEU:CD1	14:AN:56:VAL:HG21	2.02	0.79
1:AA:265:G:H1'	17:AQ:65:ILE:CA	2.08	0.79
22:BB:1042:G:N2	52:B6:23:VAL:HB	1.97	0.79
22:BB:1996:A:O3'	40:BT:116:ILE:O	2.01	0.79
22:BB:2599:U:H1'	25:BE:156:MET:C	2.03	0.79
22:BB:2790:C:C2'	48:B2:43:HIS:CG	2.66	0.79
22:BB:969:U:C4	34:BN:20:GLY:HA2	2.17	0.79
22:BB:332:C:C4'	26:BF:159:ARG:O	2.30	0.79
35:BO:112:LEU:HD13	35:BO:113:ILE:H	1.48	0.79
32:BL:90:ARG:O	37:BQ:79:ARG:NH1	2.16	0.79
1:CA:17:U:H5'	5:CE:16:THR:CB	2.13	0.79
1:CA:644:G:H1'	8:CH:90:GLY:H	1.48	0.79
7:CG:50:ILE:HD13	7:CG:61:VAL:HG21	1.64	0.79
1:CA:691:G:OP2	11:CK:26:ASN:ND2	2.16	0.79
12:CL:85:ILE:HA	12:CL:100:ILE:HG23	1.63	0.79
1:CA:227:G:N2	16:CP:62:VAL:HA	1.98	0.79
22:DB:1044:U:OP1	52:D6:16:VAL:HG12	1.83	0.79
22:DB:2738:A:C1'	28:DH:64:LEU:HD11	2.12	0.79
22:DB:1021:A:C5'	38:DR:66:ASN:OD1	2.30	0.79
22:DB:1237:G:C5'	39:DS:87:ARG:NE	2.45	0.79
1:EA:793:U:H3	1:EA:1516:G:C5'	1.95	0.79
1:EA:653:A:N6	8:EH:32:LYS:NZ	2.31	0.79
12:EL:13:LYS:NZ	17:EQ:98:LEU:HD12	1.97	0.79
22:FB:1047:G:C6	22:FB:1048:U:C2	2.71	0.79
22:FB:2074:U:O4	47:F1:42:PHE:CE2	2.24	0.79
22:FB:2786:G:H4'	25:FE:59:VAL:HG13	0.89	0.79
43:FW:65:LEU:HD11	43:FW:130:ILE:CD1	2.12	0.79
1:GA:194:C:O3'	20:GT:65:LYS:HG2	1.70	0.79
6:GF:46:ARG:NH2	18:GR:35:ARG:HH11	1.75	0.79
1:GA:658:G:C5'	15:GO:8:LYS:CE	2.60	0.79
22:HB:2861:A:N3	48:H2:31:THR:HB	1.98	0.79
22:HB:1022:A:OP1	38:HR:76:TYR:CD2	2.36	0.79
22:HB:1476:G:N3	22:HB:2681:A:C2	2.51	0.79
22:HB:1486:A:C2	22:HB:1537:U:N3	2.51	0.79
22:HB:2760:G:H2'	31:HK:149:LYS:CD	2.11	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:HI:30:ILE:H	29:HI:31:PRO:CD	1.96	0.79
1:IA:1057:G:C4'	3:IC:196:LEU:CD2	2.60	0.79
1:IA:1395:C:H5'	1:IA:1401:G:H21	1.48	0.79
1:IA:927:G:H4'	1:IA:1503:A:C8	2.16	0.79
1:IA:301:G:H21	1:IA:556:C:H4'	1.48	0.79
1:IA:827:U:C5'	8:IH:15:ASN:O	2.31	0.79
1:IA:928:G:C4'	1:IA:1532:U:O2'	2.31	0.79
22:JB:3175:C:H4'	53:J7:31:GLU:OE2	1.83	0.79
22:JB:530:G:OP1	40:JT:43:ASP:OD1	2.01	0.79
22:JB:825:C:O3'	38:JR:13:ARG:NH1	2.16	0.79
22:JB:1791:C:C5'	24:JD:147:LEU:HD13	2.08	0.79
22:JB:777:A:O2'	24:JD:214:TRP:CE3	2.36	0.79
27:JG:38:GLU:N	27:JG:87:ILE:HG12	1.97	0.79
1:AA:521:G:H5'	12:AL:69:TYR:CZ	2.17	0.79
22:BB:1238:A:OP1	39:BS:87:ARG:HG3	1.83	0.79
29:BI:30:ILE:H	29:BI:31:PRO:CD	1.96	0.79
22:BB:1143:A:C1'	31:BK:101:THR:OG1	2.30	0.79
22:BB:2465:G:C5'	34:BN:123:GLY:HA3	2.13	0.79
22:BB:1173:G:H1'	39:BS:90:PHE:HE1	1.48	0.79
40:BT:76:LYS:HA	40:BT:79:ALA:HB3	1.65	0.79
1:CA:7:G:O6	5:CE:92:LYS:HG3	1.83	0.79
5:CE:140:ARG:NH2	8:CH:72:PRO:CD	2.46	0.79
22:DB:1376:C:H4'	22:DB:1801:C:H41	1.48	0.79
22:DB:2292:C:H5'	27:DG:87:ILE:CD1	2.12	0.79
22:DB:487:G:N2	22:DB:491:A:H62	1.80	0.79
22:DB:2490:U:H5''	25:DE:122:PHE:HE1	0.63	0.79
22:DB:917:U:C1'	43:DW:166:LEU:CD1	2.60	0.79
23:DA:78:A:N3	43:DW:22:VAL:CG2	2.45	0.79
1:EA:1328:C:P	13:EM:28:ALA:HB2	2.23	0.79
1:EA:301:G:H21	1:EA:556:C:H4'	1.48	0.79
6:EF:50:TYR:CB	18:ER:80:PRO:HB3	2.12	0.79
1:EA:690:G:OP2	11:EK:27:ASN:HB2	1.81	0.79
10:EJ:62:HIS:CG	14:EN:61:TRP:CZ3	2.70	0.79
1:EA:668:G:N3	15:EO:46:HIS:CD2	2.50	0.79
22:FB:1998:A:H1'	48:F2:3:LYS:HZ1	1.45	0.79
22:FB:2264:C:C4	49:F3:27:ASN:O	2.35	0.79
22:FB:1203:A:OP1	33:FM:35:LYS:CA	2.30	0.79
22:FB:1849:G:H1'	22:FB:1868:A:H62	1.47	0.79
22:FB:2510:A:H4'	28:FH:157:TYR:CE2	2.18	0.79
22:FB:2599:U:H1'	25:FE:156:MET:C	2.04	0.79
22:FB:455:A:H2'	38:FR:2:PRO:CD	2.13	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:FB:2284:U:C2	27:FG:152:MET:HE2	2.15	0.79
28:FH:16:THR:HG23	28:FH:45:GLN:HE22	1.47	0.79
34:FN:112:GLU:HB2	34:FN:115:ALA:HB3	1.65	0.79
40:FT:76:LYS:HA	40:FT:79:ALA:HB3	1.65	0.79
43:FW:19:ILE:HG23	43:FW:20:ALA:H	1.46	0.79
22:FB:2236:U:P	44:FX:9:SER:O	2.40	0.79
1:GA:195:A:OP1	20:GT:65:LYS:CG	2.29	0.79
1:GA:301:G:H21	1:GA:556:C:H4'	1.48	0.79
1:GA:665:A:N3	1:GA:732:C:H2'	1.97	0.79
1:GA:720:C:C4'	18:GR:50:ILE:O	2.30	0.79
22:HB:602:C:C4'	51:H5:2:PRO:N	2.46	0.79
22:HB:3875:A:N3	53:H7:43:LYS:HA	1.97	0.79
22:HB:2241:U:H5''	22:HB:2307:A:C2	2.18	0.79
22:HB:2326:C:OP2	51:H5:35:GLY:O	2.00	0.79
22:HB:2268:G:H5''	22:HB:2363:G:H1'	1.65	0.79
22:HB:699:G:C2'	50:H4:5:TYR:C	2.35	0.79
22:HB:717:G:H2'	22:HB:739:G:H22	1.46	0.79
24:HD:82:ILE:HA	24:HD:94:LEU:HB2	1.64	0.79
34:HN:64:LYS:H	43:HW:112:LEU:H	1.29	0.79
35:HO:112:LEU:HD13	35:HO:113:ILE:H	1.48	0.79
22:HB:542:A:O3'	38:HR:24:PHE:CD1	2.17	0.79
43:HW:84:TYR:CE2	43:HW:128:ARG:NE	2.51	0.79
2:IB:200:ILE:HG22	2:IB:202:PRO:HD3	1.63	0.79
5:IE:67:VAL:HG21	5:IE:140:ARG:HA	1.65	0.79
22:JB:2241:U:H1'	22:JB:2307:A:O2'	1.83	0.79
22:JB:63:A:N3	41:JU:62:ARG:CZ	2.46	0.79
1:EA:1021:G:H4'	27:JG:179:LYS:CG	2.12	0.79
23:JA:10:U:C4'	36:JP:28:ARG:HH22	1.96	0.79
43:JW:19:ILE:HG23	43:JW:20:ALA:H	1.46	0.79
1:AA:932:C:H3'	7:AG:3:ARG:NE	1.96	0.78
3:AC:105:GLU:HG2	3:AC:106:VAL:H	1.48	0.78
1:AA:564:C:H2'	8:AH:91:ARG:HH21	1.47	0.78
1:AA:953:G:O4'	13:AM:124:PRO:CD	2.28	0.78
22:BB:1441:A:C8	22:BB:1587:A:N7	2.51	0.78
22:BB:2543:A:C6	22:BB:2625:U:O2'	2.36	0.78
22:BB:332:C:O3'	26:BF:160:ALA:HA	1.83	0.78
22:BB:47:G:H22	22:BB:154:U:P	2.01	0.78
22:BB:505:G:H2'	40:BT:82:ASN:HB3	1.65	0.78
27:BG:14:PRO:HB2	27:BG:18:GLN:HE22	1.47	0.78
28:BH:16:THR:HG23	28:BH:45:GLN:HE22	1.47	0.78
22:BB:494:A:C4	42:BV:56:LYS:HB2	2.17	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:BB:2310:G:H4'	44:BX:70:ILE:C	2.04	0.78
46:BZ:3:ILE:HB	46:BZ:33:GLU:HA	1.65	0.78
3:CC:105:GLU:HG2	3:CC:106:VAL:H	1.48	0.78
16:CP:60:LEU:HD23	16:CP:65:GLN:HE21	1.48	0.78
17:CQ:23:VAL:HG12	17:CQ:25:ARG:H	1.48	0.78
22:DB:2398:U:C6	51:D5:31:HIS:C	2.56	0.78
22:DB:1662:G:H5''	22:DB:1663:C:H5'	1.64	0.78
22:DB:2494:C:H4'	31:DK:108:GLY:HA2	1.00	0.78
22:DB:567:G:O4'	31:DK:73:ASN:CA	2.28	0.78
24:DD:82:ILE:HA	24:DD:94:LEU:HB2	1.64	0.78
22:DB:2661:G:N7	25:DE:10:GLY:C	2.37	0.78
22:DB:2708:U:H4'	25:DE:21:ILE:HG13	1.44	0.78
22:DB:2422:C:H5''	26:DF:62:LYS:HE3	1.65	0.78
32:DL:91:PHE:HA	37:DQ:79:ARG:HD2	1.62	0.78
22:FB:1662:G:H5''	22:FB:1663:C:H5'	1.64	0.78
22:FB:338:G:O2'	42:FV:7:GLY:HA2	1.83	0.78
22:FB:892:A:N6	22:FB:912:A:N3	2.31	0.78
22:FB:2692:A:HO2'	35:FO:15:SER:N	1.81	0.78
22:FB:1164:C:H5''	38:FR:76:TYR:CE2	2.17	0.78
22:FB:1338:G:N2	40:FT:107:ILE:HD13	1.98	0.78
1:GA:2003:G:H21	1:GA:1038:C:H42	1.31	0.78
1:GA:15:G:H1'	5:GE:17:ALA:CB	2.14	0.78
5:GE:67:VAL:HG21	5:GE:140:ARG:HA	1.65	0.78
1:GA:658:G:H4'	15:GO:5:LYS:HB3	1.65	0.78
22:HB:1260:A:O3'	38:HR:2:PRO:CG	2.30	0.78
22:HB:1437:A:N1	22:HB:1438:G:O6	2.16	0.78
22:HB:1681:A:C2	22:HB:2706:U:N1	2.51	0.78
22:HB:1804:U:HO2'	24:HD:46:ARG:HB2	0.99	0.78
22:HB:1829:C:H4'	22:HB:1911:A:C4'	2.13	0.78
22:HB:1750:A:H4'	22:HB:2695:C:O4'	1.82	0.78
22:HB:512:A:H8	40:HT:16:GLN:OE1	1.61	0.78
22:HB:741:G:H4'	24:HD:17:THR:O	1.83	0.78
22:HB:2489:C:H4'	25:HE:126:PRO:HD2	0.85	0.78
22:HB:863:C:O4'	46:HZ:18:LYS:HB3	1.83	0.78
1:IA:2003:G:H21	1:IA:1038:C:H42	1.31	0.78
22:JB:205:A:H5''	33:JM:144:GLU:HG3	0.81	0.78
22:JB:2558:C:H4'	25:JE:132:LYS:CB	2.12	0.78
22:JB:320:A:O2'	42:JV:25:LEU:HD22	1.82	0.78
24:JD:82:ILE:HA	24:JD:94:LEU:HB2	1.64	0.78
26:JF:111:ARG:NH2	33:JM:13:ARG:NH2	2.31	0.78
1:AA:1112:C:H2'	3:AC:178:LEU:HD23	1.66	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:120:A:H2'	1:AA:121:C:H4'	1.64	0.78
1:AA:767:A:C2	1:AA:1511:G:N2	2.50	0.78
1:AA:694:A:C4'	11:AK:53:SER:HB2	2.12	0.78
1:AA:980:C:C1'	14:AN:19:ARG:CZ	2.61	0.78
14:AN:25:VAL:HG13	14:AN:26:ARG:H	1.49	0.78
1:AA:1220:G:H21	19:AS:54:GLY:CA	1.95	0.78
22:BB:1356:G:H1'	22:BB:1613:G:C8	2.18	0.78
22:BB:1662:G:H5''	22:BB:1663:C:H5'	1.64	0.78
22:BB:2310:G:C5'	44:BX:71:ASN:CA	2.52	0.78
22:BB:348:U:C5'	42:BV:13:LYS:HE3	2.13	0.78
22:BB:1788:C:H5'	24:BD:254:THR:HA	1.65	0.78
22:BB:1071:U:O4	30:BJ:130:THR:CG2	2.30	0.78
1:CA:815:A:C2	1:CA:1529:G:C2	2.59	0.78
1:CA:932:C:H5'	7:CG:3:ARG:HB2	0.80	0.78
1:CA:1075:C:C5'	2:CB:103:THR:CG2	2.58	0.78
1:CA:407:G:O4'	4:CD:116:GLN:HB2	1.82	0.78
5:CE:72:GLN:NE2	5:CE:145:LYS:H	1.82	0.78
22:DB:874:A:N3	23:DA:81:C:C4'	2.47	0.78
22:DB:1017:C:O2	31:DK:56:THR:CG2	2.31	0.78
22:DB:1685:A:H61	22:DB:1693:A:N6	1.80	0.78
22:DB:1835:C:C5'	24:DD:255:LYS:HZ1	1.90	0.78
22:DB:1849:G:H1'	22:DB:1868:A:H62	1.47	0.78
22:DB:3197:U:N3	22:DB:2204:A:N6	2.30	0.78
22:DB:2237:C:P	44:DX:10:SER:O	2.40	0.78
22:DB:29:U:O3'	38:DR:8:ILE:HG21	1.38	0.78
24:DD:72:LYS:HZ3	24:DD:75:VAL:HG21	1.48	0.78
38:DR:94:VAL:HG21	39:DS:10:LYS:HB3	1.63	0.78
41:DU:44:GLN:HG3	41:DU:45:ALA:H	1.48	0.78
1:EA:1180:A:C5'	9:EI:103:THR:HG23	2.13	0.78
1:EA:242:C:OP1	12:EL:16:GLU:CD	2.21	0.78
1:EA:265:G:C2	17:EQ:67:LYS:CE	2.65	0.78
1:EA:968:A:C2'	9:EI:128:ARG:NE	2.39	0.78
1:EA:668:G:O2'	15:EO:46:HIS:ND1	2.16	0.78
22:FB:1377:G:OP2	47:F1:3:LYS:HG3	1.82	0.78
22:FB:1992:G:H5''	40:FT:63:SER:N	1.98	0.78
22:FB:2003:A:C5'	38:FR:25:TRP:CZ2	2.63	0.78
22:FB:2623:A:H3'	22:FB:2624:G:P	2.22	0.78
22:FB:590:C:H5''	38:FR:32:TYR:CB	2.13	0.78
22:FB:2283:G:O2'	27:FG:153:ASP:HB2	1.83	0.78
22:FB:1007:A:O3'	38:FR:92:ARG:HB2	1.81	0.78
40:FT:56:LEU:HA	48:F2:28:PRO:HD2	0.90	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:GA:18:C:C5'	5:GE:130:ASN:HD21	1.95	0.78
3:GC:39:ILE:HG22	3:GC:43:LEU:HD23	1.65	0.78
1:GA:16:A:H5''	5:GE:15:ARG:HB2	1.64	0.78
8:GH:39:LEU:HD13	8:GH:44:PHE:HB3	1.65	0.78
9:GI:27:THR:HA	9:GI:32:ASP:HA	1.65	0.78
1:GA:1146:A:N1	9:GI:5:TYR:OH	2.15	0.78
10:GJ:64:GLU:O	14:GN:56:VAL:CB	2.31	0.78
10:GJ:47:PHE:HE2	14:GN:37:PHE:CZ	2.00	0.78
22:HB:1376:C:H4'	22:HB:1801:C:H41	1.48	0.78
22:HB:2004:U:C5	38:HR:25:TRP:HD1	2.01	0.78
27:HG:8:TYR:HA	27:HG:12:VAL:HG23	1.63	0.78
1:IA:1114:C:C2	14:IN:61:TRP:HA	2.03	0.78
6:IF:2:ARG:NH2	15:IO:2:PRO:CG	2.43	0.78
22:JB:2397:A:OP1	51:J5:41:ILE:O	2.00	0.78
22:JB:2073:A:C2	47:J1:42:PHE:CD1	2.72	0.78
22:JB:871:U:H1'	22:JB:2248:A:H5'	1.62	0.78
22:JB:2823:G:C8	37:JQ:104:LEU:CB	2.65	0.78
22:JB:3166:G:C2	53:J7:98:ARG:CZ	2.45	0.78
22:JB:603:C:N4	22:JB:677:G:C6	2.51	0.78
22:JB:2186:G:C4	24:JD:70:ARG:NH2	2.51	0.78
43:JW:94:VAL:HG13	43:JW:130:ILE:HG12	1.65	0.78
5:AE:44:GLY:HA2	5:AE:61:TYR:HB3	1.65	0.78
1:AA:1249:C:O2'	9:AI:68:GLY:O	1.99	0.78
9:AI:111:ARG:NE	14:AN:61:TRP:CZ2	2.50	0.78
1:AA:136:C:O2	16:AP:62:VAL:O	2.01	0.78
1:AA:583:A:C1'	17:AQ:91:ARG:CZ	2.59	0.78
22:BB:1685:A:H61	22:BB:1693:A:N6	1.80	0.78
22:BB:1750:A:C2	22:BB:2676:G:H1'	2.18	0.78
22:BB:2861:A:H1'	48:B2:33:CYS:O	1.83	0.78
22:BB:332:C:H5''	26:BF:160:ALA:HB1	1.64	0.78
22:BB:1856:U:H3	22:BB:3865:A:N6	1.81	0.78
22:BB:873:U:C4	22:BB:2247:A:C4	2.70	0.78
22:BB:755:C:O2'	25:BE:129:HIS:CE1	2.35	0.78
32:BL:90:ARG:HE	32:BL:91:PHE:N	1.80	0.78
34:BN:106:GLU:N	43:BW:113:VAL:HG11	1.97	0.78
22:BB:2344:G:C5'	44:BX:42:GLY:N	2.46	0.78
1:CA:1205:U:H5''	3:CC:195:VAL:HG21	1.64	0.78
1:CA:794:A:H2	1:CA:1506:U:OP1	1.66	0.78
1:CA:815:A:N3	1:CA:1527:C:O2'	2.16	0.78
1:CA:559:A:C2	5:CE:125:SER:HA	2.17	0.78
1:CA:1231:G:C4	13:CM:126:LYS:CD	2.66	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:666:G:C2	15:CO:52:SER:OG	2.35	0.78
22:DB:1216:G:N2	33:DM:14:LYS:NZ	2.31	0.78
22:DB:1402:G:C2	22:DB:1412:C:C4	2.71	0.78
22:DB:4:C:N3	22:DB:2873:G:N1	2.30	0.78
22:DB:525:A:H5'	38:DR:31:GLN:HA	1.65	0.78
22:DB:1834:G:O2'	24:DD:244:ARG:HB2	1.83	0.78
32:DL:119:ARG:NE	37:DQ:43:ASN:HD21	1.81	0.78
34:DN:112:GLU:HB2	34:DN:115:ALA:HB3	1.65	0.78
38:DR:47:TYR:O	39:DS:74:TYR:HD1	1.65	0.78
1:EA:265:G:N3	17:EQ:67:LYS:HE2	1.98	0.78
1:EA:489:C:OP1	4:ED:132:ARG:CB	2.31	0.78
1:EA:1104:G:N9	2:EB:111:ARG:HD2	1.96	0.78
22:FB:2326:C:H4'	49:F3:40:TYR:OH	1.82	0.78
22:FB:1685:A:H61	22:FB:1693:A:N6	1.81	0.78
22:FB:2661:G:C8	25:FE:11:MET:HA	2.18	0.78
35:FO:112:LEU:HD13	35:FO:113:ILE:H	1.48	0.78
38:FR:47:TYR:HB2	39:FS:74:TYR:C	2.04	0.78
23:FA:79:U:OP1	43:FW:14:LEU:HD23	1.82	0.78
46:FZ:3:ILE:HB	46:FZ:33:GLU:HA	1.65	0.78
1:GA:120:A:H2'	1:GA:121:C:H4'	1.64	0.78
1:GA:922:G:C2	1:GA:1395:C:N3	2.50	0.78
1:GA:129:U:C6	17:GQ:3:LYS:HE3	2.18	0.78
1:GA:105:G:O6	20:GT:14:LYS:CE	2.32	0.78
1:GA:188:C:H41	20:GT:89:ARG:HH22	1.24	0.78
22:HB:2629:U:C4'	32:HL:29:ILE:HD13	1.98	0.78
22:HB:1471:G:H21	22:HB:2681:A:H62	1.29	0.78
22:HB:2503:G:H21	22:HB:2720:A:H2	1.30	0.78
22:HB:818:G:C3'	33:HM:41:SER:HB3	2.12	0.78
22:HB:1788:C:O2'	24:HD:257:LEU:HD12	1.83	0.78
22:HB:818:G:O3'	33:HM:41:SER:OG	2.01	0.78
34:HN:71:PRO:HB2	34:HN:73:LYS:HD3	1.65	0.78
22:HB:2357:A:C5'	36:HP:26:ARG:HE	1.92	0.78
1:IA:1186:G:C2'	9:II:113:LYS:HZ3	1.64	0.78
1:IA:125:U:C4'	1:IA:605:U:O2'	2.31	0.78
5:IE:72:GLN:NE2	5:IE:145:LYS:H	1.82	0.78
1:IA:1130:A:O2'	9:II:18:PHE:CE2	2.37	0.78
10:IJ:31:GLY:HA2	10:IJ:78:ASN:HD22	1.48	0.78
22:JB:2399:C:C5'	51:J5:33:ASN:CA	2.61	0.78
53:J7:11:ALA:HB1	53:J7:205:VAL:HG11	1.65	0.78
22:JB:1376:C:H4'	22:JB:1801:C:H41	1.48	0.78
22:JB:2268:G:H5''	22:JB:2363:G:H1'	1.66	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:JB:2338:C:N4	22:JB:2407:G:O6	2.14	0.78
22:JB:573:C:H5'	38:JR:40:LEU:HB2	1.64	0.78
22:JB:857:U:H2'	22:JB:860:U:C4	2.18	0.78
22:JB:1954:A:H62	24:JD:241:GLY:N	1.80	0.78
22:JB:986:A:H5'	39:JS:78:VAL:CG2	2.13	0.78
22:JB:508:G:N2	42:JV:56:LYS:CG	2.46	0.78
1:AA:1249:C:HO2'	9:AI:73:GLN:CD	1.85	0.78
1:AA:323:U:O3'	20:AT:22:ARG:CZ	2.31	0.78
5:AE:27:ARG:HB3	5:AE:47:LYS:HB2	1.65	0.78
5:AE:72:GLN:NE2	5:AE:145:LYS:H	1.82	0.78
1:AA:234:C:O2	17:AQ:61:GLU:OE1	2.00	0.78
22:BB:1378:A:O4'	47:B1:11:PRO:CB	2.30	0.78
22:BB:1446:U:H3	22:BB:1577:G:H1	1.28	0.78
22:BB:2370:G:C3'	22:BB:2371:A:P	2.71	0.78
22:BB:2724:G:H4'	28:BH:146:ALA:CB	2.13	0.78
22:BB:596:C:C1'	33:BM:29:THR:CG2	2.44	0.78
22:BB:757:U:OP1	25:BE:131:SER:HB3	1.83	0.78
22:BB:2601:C:P	25:BE:159:HIS:HB2	2.23	0.78
31:BK:139:ARG:HH22	31:BK:142:ARG:HH11	1.31	0.78
43:BW:51:LEU:HD11	43:BW:129:ARG:HH21	1.49	0.78
23:BA:106:U:O4'	43:BW:88:TYR:CD1	2.36	0.78
1:CA:242:C:OP2	12:CL:13:LYS:O	2.02	0.78
1:CA:301:G:H21	1:CA:556:C:H4'	1.48	0.78
23:DA:92:G:H1	34:DN:39:GLU:CG	1.89	0.78
22:DB:1674:C:OP2	25:DE:134:TRP:HD1	1.66	0.78
22:DB:1978:U:H3'	22:DB:1979:C:H5''	1.66	0.78
22:DB:596:C:C5'	33:DM:28:LYS:HZ3	1.97	0.78
22:DB:596:C:H5''	33:DM:28:LYS:HZ3	1.48	0.78
22:DB:643:A:C1'	33:DM:66:ASN:HB2	2.12	0.78
27:DG:14:PRO:HB2	27:DG:18:GLN:HE22	1.47	0.78
23:DA:44:C:C4'	27:DG:64:LYS:HG3	2.07	0.78
36:DP:9:ARG:HH12	36:DP:12:ARG:H	1.30	0.78
34:DN:62:GLY:CA	43:DW:112:LEU:HD23	2.14	0.78
1:EA:1186:G:O2'	9:EI:113:LYS:CD	2.30	0.78
3:EC:105:GLU:HG2	3:EC:106:VAL:H	1.48	0.78
4:ED:25:ARG:HH22	4:ED:30:LYS:HB2	1.48	0.78
1:EA:1221:G:C5'	19:ES:53:ASN:O	2.30	0.78
1:EA:258:G:P	20:ET:83:ARG:HB3	2.20	0.78
22:FB:114:C:C1'	22:FB:124:A:H1'	2.12	0.78
38:FR:91:ASN:HD21	39:FS:10:LYS:CD	1.95	0.78
22:FB:311:A:P	42:FV:91:ALA:HB2	2.15	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:FB:2363:G:P	44:FX:39:ARG:HE	2.04	0.78
1:GA:675:A:N3	11:GK:115:PRO:HA	1.98	0.78
9:GI:111:ARG:CZ	14:GN:61:TRP:CH2	2.66	0.78
22:HB:2062:U:O3'	47:H1:32:HIS:CE1	2.36	0.78
22:HB:1377:G:C5'	47:H1:40:HIS:CE1	2.64	0.78
22:HB:504:G:O2'	40:HT:25:PHE:CB	2.20	0.78
22:HB:2725:C:O2'	28:HH:141:VAL:CG2	2.32	0.78
33:HM:56:LEU:HD23	33:HM:57:ILE:H	1.48	0.78
41:HU:4:TYR:OH	45:HY:18:ILE:CG2	2.32	0.78
1:IA:1348:U:P	9:II:118:LYS:HZ1	2.06	0.78
1:IA:765:G:H2'	1:IA:811:C:H42	1.47	0.78
4:ID:204:ILE:HD13	5:IE:98:THR:O	1.84	0.78
12:IL:38:THR:HG22	12:IL:39:VAL:HG23	1.64	0.78
13:IM:86:CYS:CA	19:IS:74:PHE:CB	2.57	0.78
22:JB:2209:G:C5'	47:J1:39:VAL:HA	2.12	0.78
22:JB:475:U:H5''	50:J4:5:TYR:CD1	2.18	0.78
22:JB:2685:A:O2'	35:JO:64:ARG:HD2	1.83	0.78
22:JB:2814:G:H4'	35:JO:45:ARG:HG2	1.65	0.78
22:JB:320:A:H4'	42:JV:30:LYS:CG	2.14	0.78
29:JI:30:ILE:H	29:JI:31:PRO:CD	1.96	0.78
22:JB:58:C:OP2	41:JU:75:ARG:CD	2.30	0.78
1:AA:254:G:C5	17:AQ:16:GLN:CB	2.67	0.78
1:AA:668:G:C2	15:AO:46:HIS:ND1	2.52	0.78
1:AA:1230:C:C1'	13:AM:125:ARG:CZ	2.35	0.78
10:AJ:49:VAL:HG13	14:AN:45:ARG:HB2	1.64	0.78
1:AA:742:G:P	15:AO:55:GLY:HA3	2.24	0.78
22:BB:419:G:C5'	53:B7:198:THR:HG23	2.13	0.78
22:BB:2492:G:H2'	22:BB:2493:U:C4	2.17	0.78
22:BB:2498:U:H5'	22:BB:2546:G:N2	1.98	0.78
22:BB:2503:G:C2	22:BB:2720:A:H2	2.01	0.78
22:BB:1815:G:H5''	24:BD:54:ILE:CB	2.13	0.78
22:BB:2006:G:O2'	25:BE:149:ARG:CZ	2.31	0.78
22:BB:332:C:H5''	26:BF:160:ALA:HB2	1.63	0.78
22:BB:38:G:H4'	26:BF:88:PRO:HG3	1.64	0.78
27:BG:8:TYR:HA	27:BG:12:VAL:HG23	1.63	0.78
25:BE:26:VAL:HG21	37:BQ:3:THR:CG2	2.12	0.78
41:BU:13:SER:HB3	41:BU:16:ALA:HB2	1.65	0.78
34:BN:36:ILE:CG1	43:BW:74:ARG:HA	2.03	0.78
23:BA:105:G:H5''	43:BW:91:PRO:C	2.04	0.78
1:CA:120:A:H2'	1:CA:121:C:H4'	1.64	0.78
1:CA:135:C:C2	16:CP:1:MET:N	2.52	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:958:A:N1	19:CS:56:GLN:CG	2.47	0.78
22:DB:1166:A:C2	22:DB:1168:G:C8	2.71	0.78
22:DB:1508:G:OP2	24:DD:101:GLU:CD	2.22	0.78
22:DB:176:A:N7	47:D1:30:GLU:CB	2.26	0.78
22:DB:2661:G:N2	25:DE:22:PRO:O	2.17	0.78
27:DG:8:TYR:HA	27:DG:12:VAL:HG23	1.64	0.78
22:DB:2736:U:H3	28:DH:67:LEU:HD23	1.45	0.78
22:DB:886:A:H4'	34:DN:66:TYR:OH	1.83	0.78
1:EA:1273:G:C8	1:IA:1265:G:H5''	2.18	0.78
1:EA:966:G:H4'	9:EI:127:LYS:HG2	1.66	0.78
23:FA:77:G:H1	23:FA:105:G:H22	1.29	0.78
22:FB:1586:A:O2'	22:FB:1587:A:H5'	1.82	0.78
22:FB:1829:C:H4'	22:FB:1910:A:H2'	1.63	0.78
22:FB:2063:A:H4'	47:F1:33:VAL:HG22	1.66	0.78
22:FB:687:G:H4'	26:FF:70:GLY:HA3	1.64	0.78
22:FB:2463:G:O3'	34:FN:47:GLN:CG	2.31	0.78
1:GA:877:C:H1'	8:GH:3:THR:HA	1.65	0.78
5:GE:72:GLN:NE2	5:GE:145:LYS:H	1.81	0.78
1:GA:675:A:N1	11:GK:118:GLY:N	2.31	0.78
22:HB:1685:A:H61	22:HB:1693:A:N6	1.80	0.78
22:HB:1715:A:H4'	22:HB:1754:G:H22	1.49	0.78
22:HB:683:A:OP1	33:HM:46:GLY:HA2	1.84	0.78
42:HV:62:MET:HG2	42:HV:63:THR:HG22	1.65	0.78
1:IA:1194:U:O2'	1:IA:1398:A:N6	2.16	0.78
1:IA:589:C:H5'	8:IH:31:PHE:N	1.83	0.78
12:IL:58:VAL:HB	12:IL:66:VAL:HG23	1.64	0.78
1:IA:376:G:O4'	16:IP:28:ARG:CZ	2.32	0.78
22:JB:1498:G:H1'	22:JB:1526:U:H3	1.49	0.78
22:JB:2260:C:C4'	22:JB:2368:G:C2	2.63	0.78
22:JB:672:C:O3'	26:JF:93:TYR:C	2.21	0.78
22:JB:1781:C:O3'	24:JD:213:ARG:CZ	2.32	0.78
32:JL:47:VAL:HG13	32:JL:48:GLY:H	1.46	0.78
34:JN:71:PRO:HB2	34:JN:73:LYS:HD3	1.65	0.78
22:JB:1167:A:N3	38:JR:48:ARG:NE	2.31	0.78
22:JB:529:U:P	40:JT:39:ARG:HG2	2.24	0.78
34:JN:60:ARG:CG	43:JW:111:GLY:H	1.96	0.78
22:JB:75:C:H42	45:JY:59:GLU:CD	1.85	0.78
1:AA:1372:U:O4	9:AI:109:VAL:HG22	1.84	0.78
1:AA:16:A:C4'	5:AE:16:THR:N	2.42	0.78
1:AA:274:A:O4'	17:AQ:15:MET:HG3	1.79	0.78
1:AA:520:A:C4'	12:AL:52:LEU:O	2.20	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:740:U:H1'	15:AO:42:HIS:CG	2.19	0.78
1:AA:742:G:P	15:AO:55:GLY:CA	2.72	0.78
1:AA:1350:A:C2'	7:AG:33:ASP:HA	2.13	0.78
1:AA:265:G:H4'	17:AQ:65:ILE:CA	2.10	0.78
22:BB:1806:G:H1'	24:BD:52:ARG:HH21	1.44	0.78
22:BB:1849:G:H1'	22:BB:1868:A:H62	1.48	0.78
22:BB:1978:U:H3'	22:BB:1979:C:H5''	1.66	0.78
22:BB:2329:C:P	51:B5:42:ARG:CD	2.70	0.78
22:BB:2598:C:O2'	25:BE:154:LYS:CD	2.29	0.78
22:BB:319:G:OP1	40:BT:12:LYS:HD2	1.83	0.78
22:BB:965:G:OP1	34:BN:18:MET:CA	2.04	0.78
22:BB:2008:C:OP1	25:BE:147:PRO:CB	2.30	0.78
25:BE:195:LEU:HD23	37:BQ:2:GLN:O	1.82	0.78
22:BB:628:A:H8	26:BF:97:ARG:HH11	1.31	0.78
22:BB:6:A:H5'	31:BK:162:LYS:NZ	1.97	0.78
34:BN:106:GLU:CB	43:BW:113:VAL:CB	2.62	0.78
36:BP:9:ARG:HH12	36:BP:12:ARG:H	1.31	0.78
42:BV:62:MET:HG2	42:BV:63:THR:HG22	1.66	0.78
43:BW:84:TYR:OH	43:BW:91:PRO:HG2	1.82	0.78
1:CA:1382:C:C5'	7:CG:79:ARG:CD	2.60	0.78
1:CA:281:G:OP1	17:CQ:40:LYS:CE	2.19	0.78
4:CD:25:ARG:HH22	4:CD:30:LYS:HB2	1.48	0.78
5:CE:27:ARG:HB3	5:CE:47:LYS:HB2	1.65	0.78
1:CA:753:A:C2	8:CH:1:MET:C	2.57	0.78
1:CA:597:G:C2'	8:CH:94:TYR:CE1	2.65	0.78
10:CJ:31:GLY:HA2	10:CJ:78:ASN:HD22	1.48	0.78
11:CK:58:PRO:HB3	11:CK:90:GLY:HA3	1.64	0.78
23:DA:10:U:C3'	36:DP:28:ARG:HH12	1.95	0.78
22:DB:1887:G:C6	22:DB:1888:C:N3	2.51	0.78
22:DB:2470:U:N3	22:DB:2548:G:O3'	2.17	0.78
22:DB:308:C:C5'	42:DV:93:ARG:HH21	1.96	0.78
24:DD:142:VAL:HG23	24:DD:143:HIS:H	1.48	0.78
22:DB:1516:A:N3	24:DD:98:ALA:HB1	1.98	0.78
22:DB:1674:C:P	25:DE:134:TRP:HB3	2.24	0.78
22:DB:628:A:OP1	26:DF:100:ARG:HD2	1.84	0.78
22:DB:2856:U:C1'	35:DO:93:GLY:CA	2.62	0.78
37:DQ:37:THR:HB	37:DQ:93:ILE:HA	1.63	0.78
42:DV:62:MET:HG2	42:DV:63:THR:HG22	1.66	0.78
22:DB:917:U:H5'	43:DW:122:ILE:HA	0.81	0.78
1:EA:1100:C:C3'	2:EB:98:LEU:HD21	2.11	0.78
1:EA:1102:A:H2	2:EB:108:ILE:CG1	1.96	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:EA:1221:G:C4'	19:ES:53:ASN:O	2.32	0.78
1:EA:878:G:H5'	8:EH:88:LYS:CB	2.14	0.78
5:EE:67:VAL:HG21	5:EE:140:ARG:HA	1.64	0.78
5:EE:72:GLN:NE2	5:EE:145:LYS:H	1.81	0.78
8:EH:39:LEU:HD13	8:EH:44:PHE:HB3	1.64	0.78
9:EI:29:ASN:HD21	9:EI:64:THR:HG23	1.49	0.78
12:EL:58:VAL:HB	12:EL:66:VAL:HG23	1.64	0.78
22:FB:1978:U:H3'	22:FB:1979:C:H5''	1.66	0.78
22:FB:603:C:N4	22:FB:677:G:O6	2.17	0.78
29:FI:30:ILE:H	29:FI:31:PRO:CD	1.96	0.78
32:FL:47:VAL:HG13	32:FL:48:GLY:H	1.46	0.78
22:FB:2448:A:C4'	34:FN:58:HIS:CE1	2.63	0.78
1:GA:1349:A:N1	7:GG:33:ASP:O	2.17	0.78
22:HB:1746:A:OP1	37:HQ:124:VAL:CG1	2.30	0.78
22:HB:58:C:C2	22:HB:73:A:C2	2.71	0.78
22:HB:1816:G:H4'	24:HD:247:VAL:CG2	2.13	0.78
22:HB:2670:C:OP1	35:HO:17:ARG:NH2	2.16	0.78
25:HE:195:LEU:HD21	37:HQ:2:GLN:O	1.84	0.78
4:ID:25:ARG:HH22	4:ID:30:LYS:HB2	1.48	0.78
1:IA:1187:G:C4	9:II:113:LYS:HE3	2.19	0.78
22:JB:15:G:C1'	48:J2:18:MET:CB	2.57	0.78
22:JB:1036:G:H1'	22:JB:1145:C:H4'	1.63	0.78
22:JB:1685:A:H61	22:JB:1693:A:N6	1.81	0.78
22:JB:2259:G:C2	22:JB:2367:A:N3	2.50	0.78
22:JB:410:A:H5''	47:J1:58:LYS:CE	2.12	0.78
1:AA:1229:A:P	13:AM:119:GLY:N	2.57	0.78
1:AA:1350:A:OP2	9:AI:121:ARG:CG	2.22	0.78
1:AA:1360:A:OP1	14:AN:20:ALA:O	2.00	0.78
1:AA:412:A:H2	4:AD:32:ALA:H	1.29	0.78
1:AA:623:C:H41	4:AD:139:ARG:NH2	1.81	0.78
1:AA:1248:A:C1'	9:AI:36:TYR:OH	2.32	0.78
1:AA:1151:A:C4'	10:AJ:39:PRO:HB2	2.12	0.78
12:AL:47:LYS:HG3	12:AL:48:PRO:HD3	1.63	0.78
1:AA:1229:A:H62	13:AM:120:LYS:HB2	1.47	0.78
17:AQ:23:VAL:HG12	17:AQ:25:ARG:H	1.48	0.78
22:BB:1043:A:C8	52:B6:23:VAL:CG2	2.60	0.78
22:BB:2365:U:O2	44:BX:37:LEU:CD2	2.31	0.78
22:BB:2723:C:C2'	28:BH:150:LYS:HD3	2.13	0.78
22:BB:1148:G:H5''	31:BK:132:PHE:CE2	2.19	0.78
22:BB:2372:A:O4'	33:BM:60:LEU:HA	1.84	0.78
1:CA:236:G:H4'	17:CQ:42:TYR:CE2	2.18	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:644:G:O4'	8:CH:89:PRO:HA	1.81	0.78
1:CA:1230:C:O2	13:CM:126:LYS:CE	2.30	0.78
22:DB:677:G:H1'	22:DB:951:G:OP1	1.83	0.78
22:DB:66:U:C4	22:DB:87:G:N1	2.50	0.78
22:DB:934:G:C1'	44:DX:23:VAL:CB	2.59	0.78
22:DB:2578:G:C8	24:DD:237:GLU:N	2.51	0.78
22:DB:3093:C:H5''	29:DI:21:LYS:CA	2.04	0.78
1:EA:1222:G:OP1	19:ES:77:THR:HB	1.83	0.78
1:EA:1382:C:C5'	7:EG:79:ARG:HD2	2.14	0.78
1:EA:1395:C:H5'	1:EA:1401:G:H21	1.48	0.78
22:FB:231:G:H1	51:F5:4:MET:CA	1.97	0.78
22:FB:876:A:HO2'	23:FA:103:A:HO2'	1.18	0.78
22:FB:874:A:O2'	23:FA:81:C:H4'	1.84	0.78
22:FB:2399:C:OP2	51:F5:34:THR:HG23	1.82	0.78
22:FB:507:A:H5''	40:FT:19:LYS:HD2	1.66	0.78
22:FB:2767:C:O4'	25:FE:61:LYS:HA	1.83	0.78
22:FB:335:A:OP1	26:FF:162:ARG:O	2.02	0.78
27:FG:13:ARG:HB3	27:FG:14:PRO:HD3	1.66	0.78
1:GA:836:G:P	18:GR:61:LYS:CE	2.66	0.78
9:GI:29:ASN:HD21	9:GI:64:THR:HG23	1.49	0.78
7:GG:153:HIS:N	11:GK:59:TYR:HE1	1.80	0.78
11:GK:58:PRO:HB3	11:GK:90:GLY:HA3	1.64	0.78
12:GL:38:THR:HG22	12:GL:39:VAL:HG23	1.64	0.78
22:HB:1483:G:HO2'	22:HB:1484:G:C1'	1.87	0.78
22:HB:1498:G:H1'	22:HB:1526:U:H3	1.49	0.78
22:HB:1789:U:C5'	24:HD:257:LEU:HD22	2.14	0.78
22:HB:505:G:H1'	40:HT:78:ASN:C	2.03	0.78
24:HD:142:VAL:HG23	24:HD:143:HIS:H	1.48	0.78
27:HG:13:ARG:HB3	27:HG:14:PRO:HD3	1.66	0.78
34:HN:106:GLU:OE1	43:HW:113:VAL:HG12	1.80	0.78
22:HB:2364:C:C2'	44:HX:69:PHE:CZ	2.60	0.78
41:HU:91:LEU:CD1	45:HY:24:GLU:CG	2.62	0.78
1:IA:247:G:OP2	17:IQ:100:LYS:CA	2.11	0.78
3:IC:5:ILE:CG2	10:IJ:51:ARG:NH1	2.45	0.78
22:JB:3168:G:C5	53:J7:101:LYS:HE3	2.17	0.78
1:AA:1350:A:C5	9:AI:118:LYS:HE3	2.19	0.78
22:BB:137:A:O2'	41:BU:36:THR:HG23	1.82	0.78
22:BB:2268:G:H5''	22:BB:2363:G:H1'	1.66	0.78
22:BB:742:G:O4'	24:BD:18:THR:OG1	2.01	0.78
27:BG:13:ARG:HB3	27:BG:14:PRO:HD3	1.66	0.78
34:BN:112:GLU:HB2	34:BN:115:ALA:HB3	1.66	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:BB:2815:C:P	35:BO:50:GLN:HA	2.23	0.78
22:BB:2343:C:O2	44:BX:66:LYS:HE2	1.84	0.78
1:CA:954:G:C1'	13:CM:123:ALA:HB2	2.14	0.78
1:CA:753:A:N3	8:CH:1:MET:HA	1.99	0.78
10:CJ:65:LEU:HD12	14:CN:56:VAL:HG22	1.64	0.78
22:DB:1050:G:C5'	43:DW:37:LYS:CE	2.62	0.78
22:DB:1446:U:H3	22:DB:1577:G:H1	1.28	0.78
22:DB:910:U:C4	22:DB:911:A:C8	2.72	0.78
22:DB:2035:G:H4'	25:DE:142:GLY:CA	2.13	0.78
22:DB:2615:U:O2'	25:DE:79:ARG:CD	2.28	0.78
27:DG:119:PRO:HA	27:DG:178:ARG:HD3	1.66	0.78
33:DM:56:LEU:HD23	33:DM:57:ILE:H	1.48	0.78
35:DO:112:LEU:HD13	35:DO:113:ILE:H	1.48	0.78
22:DB:1291:G:OP1	35:DO:35:GLN:CB	2.32	0.78
22:DB:935:C:H4'	44:DX:26:PHE:HE2	0.68	0.78
1:EA:120:A:H2'	1:EA:121:C:H4'	1.64	0.78
1:EA:135:C:O2	16:EP:1:MET:CB	2.32	0.78
1:EA:621:A:H5''	4:ED:139:ARG:NE	1.62	0.78
1:EA:641:U:C5	8:EH:116:LYS:CG	2.61	0.78
1:EA:968:A:C2'	9:EI:128:ARG:HE	1.97	0.78
11:EK:83:ILE:HG23	11:EK:109:VAL:HB	1.65	0.78
12:EL:85:ILE:HA	12:EL:100:ILE:HG23	1.63	0.78
19:ES:45:VAL:HG13	19:ES:62:ILE:HG13	1.66	0.78
1:EA:958:A:C2'	19:ES:55:LYS:NZ	2.46	0.78
23:FA:117:G:N3	36:FP:41:GLN:HG2	1.99	0.78
22:FB:1446:U:H3	22:FB:1577:G:H1	1.28	0.78
22:FB:2003:A:N6	48:F2:9:LYS:CD	2.46	0.78
22:FB:2240:C:N4	44:FX:13:GLY:HA2	1.99	0.78
22:FB:1742:G:O4'	22:FB:2835:A:C4	2.37	0.78
22:FB:1237:G:C5'	39:FS:87:ARG:HD3	2.11	0.78
34:FN:36:ILE:HG13	43:FW:74:ARG:HA	1.64	0.78
1:GA:816:A:P	1:GA:1526:G:O2'	2.41	0.78
13:GM:88:ARG:CB	13:GM:98:VAL:CG1	2.34	0.78
1:GA:265:G:C5	17:GQ:64:PRO:HB2	2.19	0.78
22:HB:1978:U:H3'	22:HB:1979:C:H5''	1.66	0.78
22:HB:3866:A:N6	53:H7:45:ASP:N	2.31	0.78
1:IA:925:G:N3	1:IA:1503:A:P	2.57	0.78
1:IA:600:C:OP2	8:IH:97:VAL:CG1	2.29	0.78
12:IL:11:VAL:HG21	17:IQ:36:ILE:HG23	1.65	0.78
1:IA:1320:C:H4'	19:IS:73:GLU:CB	2.13	0.78
22:JB:1861:G:C1'	53:J7:199:ASN:ND2	2.28	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:JA:10:U:H5''	36:JP:28:ARG:NH1	1.96	0.78
22:JB:1978:U:H3'	22:JB:1979:C:H5''	1.66	0.78
22:JB:873:U:C6	22:JB:2247:A:OP1	2.37	0.78
24:JD:142:VAL:HG23	24:JD:143:HIS:H	1.48	0.78
27:JG:14:PRO:HB2	27:JG:18:GLN:HE22	1.47	0.78
22:JB:3094:A:H1'	29:JI:28:TRP:CH2	2.19	0.78
44:JX:47:ALA:HB3	44:JX:49:GLN:HE22	1.49	0.78
46:JZ:3:ILE:HB	46:JZ:33:GLU:HA	1.65	0.78
5:AE:143:ARG:HG3	8:AH:138:TRP:OXT	1.84	0.78
1:AA:1229:A:P	13:AM:119:GLY:CA	2.72	0.78
1:AA:1229:A:P	13:AM:119:GLY:HA3	2.23	0.78
1:AA:1187:G:C1'	14:AN:61:TRP:H	1.93	0.78
15:AO:89:GLY:CA	22:BB:729:A:P	2.72	0.78
1:AA:1220:G:C2	19:AS:54:GLY:CA	2.66	0.78
22:BB:51:A:C5	22:BB:116:A:C2	2.67	0.78
22:BB:1197:U:H3'	22:BB:1198:C:P	2.24	0.78
22:BB:1398:G:C2	22:BB:1416:A:N6	2.52	0.78
22:BB:1922:U:H1'	22:BB:2571:G:O4'	1.84	0.78
22:BB:2725:C:O4'	28:BH:143:GLN:N	2.17	0.78
22:BB:2753:C:H4'	25:BE:163:GLU:CG	2.14	0.78
27:BG:119:PRO:HA	27:BG:178:ARG:HD3	1.66	0.78
34:BN:36:ILE:CD1	43:BW:74:ARG:NH1	2.47	0.78
1:CA:621:A:H5''	4:CD:139:ARG:NE	1.97	0.78
4:CD:107:ARG:HH22	4:CD:114:ARG:HH21	1.31	0.78
1:CA:932:C:OP2	7:CG:3:ARG:HB3	1.84	0.78
14:CN:25:VAL:HG13	14:CN:26:ARG:H	1.49	0.78
1:CA:1320:C:H42	19:CS:36:ARG:CG	1.92	0.78
19:CS:45:VAL:HG13	19:CS:62:ILE:HG13	1.66	0.78
22:DB:164:G:H5''	47:D1:12:CYS:HB3	1.65	0.78
53:D7:11:ALA:HB1	53:D7:205:VAL:HG11	1.66	0.78
22:DB:1992:G:C5'	40:DT:62:ARG:CA	2.61	0.78
22:DB:2474:G:H4'	34:DN:83:ARG:N	1.98	0.78
22:DB:2725:C:H4'	28:DH:141:VAL:HG22	1.64	0.78
22:DB:2614:A:HO2'	25:DE:47:VAL:HG13	1.44	0.78
29:DI:30:ILE:H	29:DI:31:PRO:CD	1.97	0.78
34:DN:71:PRO:HB2	34:DN:73:LYS:HD3	1.65	0.78
22:DB:505:G:N2	40:DT:82:ASN:ND2	2.31	0.78
22:DB:308:C:C5'	42:DV:93:ARG:NH2	2.47	0.78
43:DW:95:SER:H	43:DW:130:ILE:HD13	1.49	0.78
1:EA:1189:C:O2'	3:EC:176:HIS:NE2	2.15	0.78
1:EA:1202:G:N3	1:EA:1202:G:H2'	1.98	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:EA:1308:U:H3'	13:EM:99:ARG:HH12	0.95	0.78
1:EA:293:G:OP1	1:EA:610:G:O6	2.02	0.78
1:EA:532:A:N6	3:EC:193:TYR:CD2	2.50	0.78
22:FB:2498:U:C5'	22:FB:2546:G:N2	2.43	0.78
22:FB:2715:C:O2	22:FB:2749:A:C2	2.36	0.78
22:FB:2284:U:C2	27:FG:40:LEU:HD13	2.19	0.78
1:GA:1309:G:H5''	13:GM:81:LEU:HD13	1.63	0.78
1:GA:759:A:H2'	1:GA:760:G:H5'	1.66	0.78
3:GC:46:GLU:HB3	3:GC:47:LEU:HD12	1.65	0.78
1:GA:932:C:C4'	7:GG:4:ARG:CD	2.50	0.78
22:HB:2591:C:N4	48:H2:4:HIS:HE1	1.82	0.78
22:HB:1249:G:O6	40:HT:11:LYS:HB2	1.83	0.78
22:HB:1325:U:O4	41:HU:59:PRO:CG	2.32	0.78
22:HB:840:U:H3'	22:HB:2409:A:H61	1.49	0.78
22:HB:95:G:C4'	45:HY:45:GLN:CG	2.52	0.78
27:HG:14:PRO:HB2	27:HG:18:GLN:HE22	1.47	0.78
27:HG:70:ALA:HB2	27:HG:85:VAL:HG21	1.66	0.78
34:HN:64:LYS:H	43:HW:111:GLY:HA2	1.46	0.78
1:IA:1188:A:C5'	9:II:114:TYR:CZ	2.67	0.78
1:EA:1263:C:C1'	1:IA:1263:C:O3'	2.24	0.78
13:IM:84:ILE:HD11	19:IS:74:PHE:CD2	2.13	0.78
20:IT:23:ARG:HA	20:IT:26:ASN:HD22	1.49	0.78
22:JB:218:A:OP2	51:J5:63:PRO:HB2	1.82	0.78
22:JB:223:C:N4	51:J5:8:LYS:HG2	1.99	0.78
22:JB:1129:A:H5'	43:JW:76:ARG:NH1	1.93	0.78
22:JB:2241:U:C1'	22:JB:2307:A:H1'	2.14	0.78
22:JB:2465:G:H5'	34:JN:123:GLY:O	1.83	0.78
22:JB:50:G:C2	22:JB:117:A:C4	2.72	0.78
22:JB:53:G:C5'	50:J4:36:ALA:HB2	2.13	0.78
22:JB:60:A:OP1	45:JY:44:ARG:HB3	1.84	0.78
22:JB:840:U:H3'	22:JB:2409:A:H61	1.49	0.78
22:JB:871:U:H2'	22:JB:2247:A:O2'	1.83	0.78
32:JL:90:ARG:HE	32:JL:91:PHE:N	1.80	0.78
34:JN:131:LYS:O	43:JW:117:VAL:HG12	1.83	0.78
35:JO:112:LEU:HD13	35:JO:113:ILE:H	1.49	0.78
1:AA:1350:A:OP1	9:AI:121:ARG:CD	2.32	0.78
1:AA:17:U:O2'	1:AA:1079:G:C1'	2.27	0.78
1:AA:301:G:H21	1:AA:556:C:H4'	1.49	0.78
1:AA:666:G:C1'	15:AO:51:HIS:ND1	2.01	0.78
1:AA:815:A:C2	1:AA:1528:U:C1'	2.65	0.78
1:AA:952:U:C4	13:AM:125:ARG:HA	1.94	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AC:58:GLU:C	10:AJ:92:THR:CG2	2.52	0.78
12:AL:58:VAL:HB	12:AL:66:VAL:HG23	1.64	0.78
22:BB:177:U:C4'	47:B1:31:ILE:HB	2.14	0.78
47:B1:48:ARG:HG2	47:B1:69:ARG:HG3	1.64	0.78
22:BB:1136:G:C8	52:B6:4:ARG:CG	2.66	0.78
22:BB:319:G:P	40:BT:12:LYS:CB	2.72	0.78
6:CF:48:LEU:CB	18:CR:77:GLY:O	2.26	0.78
22:DB:1816:G:N2	24:DD:252:LYS:CD	2.45	0.78
22:DB:2268:G:H5''	22:DB:2363:G:H1'	1.66	0.78
22:DB:2283:G:H1'	27:DG:153:ASP:OD1	1.82	0.78
22:DB:2463:G:O3'	34:DN:47:GLN:CD	2.22	0.78
22:DB:2558:C:C4'	25:DE:133:LYS:CE	2.62	0.78
22:DB:2654:A:C4'	32:DL:43:ARG:CZ	2.62	0.78
22:DB:524:A:H5''	38:DR:30:LYS:CB	2.11	0.78
22:DB:547:U:H1'	31:DK:31:THR:OG1	1.85	0.78
22:DB:922:A:H61	34:DN:16:GLY:HA3	1.14	0.78
22:DB:2658:A:HO2'	25:DE:188:ILE:N	1.80	0.78
27:DG:13:ARG:HB3	27:DG:14:PRO:HD3	1.66	0.78
22:DB:2654:A:H4'	32:DL:43:ARG:NH1	1.99	0.78
1:EA:229:U:HO2'	16:EP:23:ASP:CG	1.87	0.78
1:EA:391:G:C5'	16:EP:8:ARG:HH21	1.66	0.78
1:EA:958:A:C2	19:ES:56:GLN:NE2	2.51	0.78
17:EQ:23:VAL:HG12	17:EQ:25:ARG:H	1.48	0.78
22:FB:1364:C:C5'	22:FB:1588:A:H5'	2.13	0.78
22:FB:1887:G:C2	22:FB:1888:C:H1'	2.19	0.78
22:FB:505:G:H5'	40:FT:25:PHE:HB3	1.66	0.78
22:FB:63:A:N3	41:FU:62:ARG:CA	2.43	0.78
22:FB:1804:U:H1'	24:FD:46:ARG:HG2	1.66	0.78
27:FG:119:PRO:HA	27:FG:178:ARG:HD3	1.66	0.78
22:FB:2647:G:C4'	28:FH:111:HIS:ND1	2.47	0.78
34:FN:71:PRO:HB2	34:FN:73:LYS:HD3	1.65	0.78
42:FV:62:MET:HG2	42:FV:63:THR:HG22	1.66	0.78
1:GA:541:G:N3	4:GD:43:HIS:CD2	2.51	0.78
1:GA:765:G:H2'	1:GA:811:C:H42	1.47	0.78
4:GD:107:ARG:HH22	4:GD:114:ARG:HH21	1.31	0.78
4:GD:25:ARG:HH22	4:GD:30:LYS:HB2	1.48	0.78
1:GA:1060:C:H1'	10:GJ:56:HIS:CB	2.13	0.78
22:HB:2861:A:N7	48:H2:31:THR:CG2	2.19	0.78
23:HA:36:A:H4'	23:HA:37:C:H5	1.47	0.78
22:HB:1989:C:H1'	22:HB:2798:A:H1'	1.64	0.78
22:HB:3093:C:H1'	22:HB:2181:A:N1	1.88	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:HB:195:A:H61	22:HB:444:U:H3	1.31	0.78
22:HB:746:G:H1	22:HB:774:A:H2'	1.48	0.78
22:HB:2647:G:H4'	28:HH:111:HIS:ND1	1.97	0.78
22:HB:1743:C:H41	37:HQ:125:MET:HA	1.49	0.78
37:HQ:37:THR:HB	37:HQ:93:ILE:HA	1.63	0.78
22:HB:762:A:N7	40:HT:111:ARG:NH2	1.86	0.78
41:HU:13:SER:HB3	41:HU:16:ALA:HB2	1.65	0.78
44:HX:47:ALA:HB3	44:HX:49:GLN:HE22	1.49	0.78
1:IA:759:A:H2'	1:IA:760:G:H5'	1.66	0.78
1:IA:778:G:H1'	11:IK:119:CYS:HB3	1.65	0.78
1:IA:929:G:C5'	1:IA:1533:C:C4	2.67	0.78
1:IA:973:G:O2'	10:IJ:54:PHE:CE2	2.29	0.78
1:IA:718:G:C8	18:IR:81:PHE:HZ	2.02	0.78
23:JA:77:G:H1	23:JA:105:G:H22	1.29	0.78
22:JB:1261:G:C5'	26:JF:86:PRO:CD	2.24	0.78
1:IA:1409:C:O4'	22:JB:1896:A:O2'	2.02	0.78
22:JB:2273:C:OP2	36:JP:11:LEU:HG	1.83	0.78
22:JB:2489:C:HO2'	25:JE:126:PRO:HD3	1.49	0.78
22:JB:3177:C:OP1	53:J7:163:PRO:C	2.21	0.78
22:JB:592:G:H4'	38:JR:5:LYS:CE	2.14	0.78
22:JB:910:U:C3'	22:JB:911:A:P	2.56	0.78
22:JB:2283:G:H1'	27:JG:129:ASN:O	1.84	0.78
22:JB:760:U:C6	40:JT:111:ARG:HB3	2.18	0.78
1:AA:1202:G:N3	1:AA:1202:G:H2'	1.98	0.77
1:AA:1350:A:N7	9:AI:118:LYS:HE3	1.99	0.77
10:AJ:31:GLY:HA2	10:AJ:78:ASN:HD22	1.48	0.77
22:BB:177:U:O5'	47:B1:31:ILE:HG21	1.85	0.77
22:BB:1041:G:N3	52:B6:6:SER:C	2.35	0.77
22:BB:1453:A:C3'	22:BB:1454:U:C6	2.63	0.77
22:BB:1668:G:OP1	35:BO:11:ASN:HB3	1.81	0.77
22:BB:2463:G:OP1	34:BN:46:ASN:ND2	2.17	0.77
22:BB:6:A:N1	22:BB:2871:U:C2	2.52	0.77
43:BW:94:VAL:HG13	43:BW:130:ILE:HG12	1.65	0.77
22:BB:887:G:N7	43:BW:167:THR:HG22	1.91	0.77
22:BB:58:C:H2'	45:BY:44:ARG:HH12	1.49	0.77
1:CA:1147:C:H2'	9:CI:16:ARG:NH2	1.99	0.77
1:CA:407:G:O4'	4:CD:116:GLN:CG	2.32	0.77
1:CA:429:U:OP1	4:CD:9:CYS:CB	2.25	0.77
12:CL:38:THR:HG22	12:CL:39:VAL:HG23	1.64	0.77
1:CA:673:G:H5'	18:CR:75:ILE:HG23	1.66	0.77
22:DB:1815:G:OP2	24:DD:54:ILE:HG21	1.83	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:DB:2492:G:OP1	25:DE:120:TRP:CE3	2.37	0.77
22:DB:2715:C:C2	22:DB:2749:A:C2	2.71	0.77
22:DB:503:G:C1'	40:DT:28:ALA:C	2.52	0.77
22:DB:2025:A:N6	31:DK:142:ARG:CZ	2.16	0.77
23:DA:115:G:H22	36:DP:49:GLN:CD	1.87	0.77
22:DB:1237:G:C5'	39:DS:87:ARG:HE	1.97	0.77
1:EA:1061:G:C3'	10:EJ:56:HIS:NE2	2.45	0.77
1:EA:529:G:H1	12:EL:51:ALA:CB	1.98	0.77
1:EA:1190:G:H5'	3:EC:176:HIS:CE1	2.19	0.77
3:EC:59:ARG:HA	3:EC:64:VAL:HG13	1.66	0.77
1:EA:597:G:C6	8:EH:115:SER:HB3	2.19	0.77
7:EG:13:GLN:HB2	9:EI:42:ARG:NH1	1.98	0.77
10:EJ:31:GLY:HA2	10:EJ:78:ASN:HD22	1.48	0.77
22:FB:2262:C:C4'	49:F3:3:LYS:NZ	2.47	0.77
22:FB:1493:A:H2	22:FB:1573:G:C2	1.96	0.77
22:FB:1498:G:H1'	22:FB:1526:U:H3	1.48	0.77
22:FB:2268:G:H5''	22:FB:2363:G:H1'	1.66	0.77
22:FB:2540:A:N3	32:FL:23:ARG:CG	2.48	0.77
22:FB:2715:C:N3	22:FB:2749:A:H2	1.72	0.77
22:FB:827:C:N4	33:FM:32:ARG:NE	2.31	0.77
22:FB:2551:A:N6	25:FE:145:LYS:H	1.82	0.77
22:FB:593:C:O3'	26:FF:82:VAL:HG11	1.83	0.77
28:FH:28:GLY:HA3	28:FH:79:VAL:HG23	1.64	0.77
22:FB:940:G:C2	46:FZ:37:THR:HB	2.19	0.77
22:FB:864:C:O2'	46:FZ:38:PRO:O	2.03	0.77
6:GF:50:TYR:CE1	18:GR:77:GLY:CA	2.61	0.77
1:GA:932:C:O5'	7:GG:4:ARG:HG3	1.85	0.77
22:HB:1276:U:O4'	48:H2:10:LYS:CE	2.32	0.77
22:HB:3175:C:O2	53:H7:31:GLU:OE1	2.01	0.77
22:HB:1815:G:OP2	24:HD:54:ILE:HG21	1.84	0.77
22:HB:2249:U:H5''	44:HX:18:PRO:HB2	1.66	0.77
22:HB:2337:A:H2	51:H5:52:LYS:HG2	1.46	0.77
22:HB:596:C:C5	33:HM:29:THR:CG2	2.67	0.77
22:HB:613:A:N1	33:HM:97:ARG:HD2	1.99	0.77
22:HB:941:U:C4'	46:HZ:24:GLY:HA3	2.13	0.77
22:HB:2558:C:C3'	25:HE:132:LYS:HG2	2.14	0.77
32:HL:86:GLY:N	37:HQ:84:ALA:HB2	1.99	0.77
22:HB:2310:G:C5'	44:HX:71:ASN:O	2.30	0.77
1:IA:228:A:C2	16:IP:1:MET:N	2.52	0.77
1:IA:932:C:H4'	7:IG:4:ARG:HE	0.97	0.77
1:IA:1227:A:C2	19:IS:81:ARG:NE	2.37	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:JB:219:G:C5	51:J5:4:MET:N	2.50	0.77
22:JB:220:U:H5''	51:J5:60:LEU:HD13	1.66	0.77
22:JB:2490:U:C5'	25:JE:124:GLY:CA	2.63	0.77
22:JB:2533:U:C2'	22:JB:2534:U:H5	1.96	0.77
22:JB:195:A:H61	22:JB:444:U:H3	1.31	0.77
22:JB:528:G:H1'	40:JT:96:TYR:CD2	2.19	0.77
22:JB:573:C:H5'	38:JR:40:LEU:CB	2.14	0.77
44:JX:43:THR:HB	44:JX:66:LYS:H	1.49	0.77
1:AA:1457:A:H5''	20:AT:27:LYS:CB	2.14	0.77
1:AA:43:C:OP1	16:AP:12:LYS:CD	2.31	0.77
1:AA:759:A:H2'	1:AA:760:G:H5'	1.66	0.77
4:AD:107:ARG:HH22	4:AD:114:ARG:HH21	1.32	0.77
4:AD:25:ARG:HH22	4:AD:30:LYS:HB2	1.48	0.77
1:AA:426:G:C4'	4:AD:42:GLN:CB	2.62	0.77
5:AE:80:ILE:HG22	8:AH:138:TRP:CZ2	2.18	0.77
1:AA:969:A:OP2	10:AJ:56:HIS:HA	1.83	0.77
12:AL:85:ILE:HA	12:AL:100:ILE:HG23	1.63	0.77
22:BB:1401:G:N2	22:BB:1412:C:O2	2.17	0.77
22:BB:1675:C:OP2	25:BE:134:TRP:CE2	2.37	0.77
22:BB:1750:A:H2	22:BB:2676:G:H1'	1.49	0.77
22:BB:2463:G:O2'	34:BN:121:LEU:HB3	1.83	0.77
22:BB:2789:U:H2'	48:B2:42:SER:OG	1.82	0.77
22:BB:575:U:C4	39:BS:79:GLN:OE1	2.36	0.77
22:BB:6:A:H4'	31:BK:162:LYS:HZ3	1.48	0.77
22:BB:718:A:OP2	22:BB:738:G:O6	2.01	0.77
22:BB:759:C:O3'	40:BT:111:ARG:HG2	1.84	0.77
24:BD:142:VAL:HG23	24:BD:143:HIS:H	1.48	0.77
22:BB:334:G:OP2	26:BF:162:ARG:NH1	2.17	0.77
22:BB:2333:A:H1'	44:BX:31:VAL:O	1.84	0.77
1:CA:1202:G:N3	1:CA:1202:G:H2'	1.98	0.77
1:CA:753:A:H2	8:CH:1:MET:O	1.67	0.77
1:CA:673:G:H5''	6:CF:87:ARG:HE	1.46	0.77
1:CA:1308:U:P	13:CM:109:THR:CG2	2.66	0.77
22:DB:1292:A:H4'	35:DO:33:ARG:CD	2.02	0.77
22:DB:2351:G:P	49:D3:46:LYS:HD2	2.25	0.77
22:DB:2470:U:C1'	22:DB:2549:G:OP1	2.33	0.77
22:DB:2729:A:N1	52:D6:18:ARG:NH1	2.28	0.77
22:DB:596:C:C2	33:DM:29:THR:HG22	2.18	0.77
22:DB:910:U:N1	22:DB:911:A:H8	1.83	0.77
22:DB:999:A:OP2	46:DZ:9:VAL:HB	1.85	0.77
22:DB:2619:G:O5'	31:DK:122:HIS:HE1	1.66	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:DB:2464:G:H5'	34:DN:47:GLN:HE21	1.49	0.77
34:DN:106:GLU:OE1	43:DW:116:VAL:O	2.02	0.77
1:EA:520:A:O2'	12:EL:73:GLU:HA	1.83	0.77
1:EA:926:G:C6	1:EA:1502:A:C2	2.72	0.77
1:EA:1055:A:C2	3:EC:156:ARG:NH1	2.52	0.77
4:ED:107:ARG:HH22	4:ED:114:ARG:HH21	1.31	0.77
22:FB:1829:C:O2'	22:FB:1910:A:C1'	2.32	0.77
22:FB:2716:G:N1	22:FB:2749:A:C1'	2.46	0.77
22:FB:2714:A:N6	22:FB:2749:A:C2	2.53	0.77
22:FB:3093:C:H5'	29:FI:21:LYS:C	1.91	0.77
22:FB:347:C:H1'	42:FV:10:HIS:CE1	2.18	0.77
22:FB:686:C:H4'	26:FF:73:SER:C	2.05	0.77
23:FA:44:C:C4'	27:FG:66:ILE:HD11	2.15	0.77
29:FI:1:MET:HG2	47:F1:65:ASP:O	1.84	0.77
38:FR:44:THR:N	39:FS:75:LYS:C	2.34	0.77
1:GA:509:A:C5'	4:GD:52:SER:HG	1.89	0.77
14:GN:47:LEU:HD23	14:GN:50:LYS:HD2	1.64	0.77
53:H7:11:ALA:HB1	53:H7:205:VAL:HG11	1.66	0.77
53:H7:200:LEU:HD22	53:H7:201:ARG:H	1.49	0.77
22:HB:3876:A:N6	53:H7:45:ASP:CB	2.28	0.77
22:HB:1803:G:H1'	24:HD:47:GLY:HA2	1.64	0.77
22:HB:915:C:H4'	43:HW:163:ASP:OD2	1.85	0.77
22:HB:6:A:HO2'	31:HK:163:PRO:HG2	1.49	0.77
22:HB:822:G:N7	33:HM:40:ARG:NH2	2.32	0.77
34:HN:103:VAL:H	34:HN:104:MET:HE1	1.49	0.77
22:HB:505:G:O3'	40:HT:83:ASP:HA	1.83	0.77
13:IM:84:ILE:HD12	19:IS:74:PHE:CD2	2.19	0.77
22:JB:2328:G:H5''	51:J5:42:ARG:HH11	1.48	0.77
22:JB:631:G:O6	33:JM:96:TYR:CD2	2.25	0.77
22:JB:746:G:H1	22:JB:774:A:H2'	1.48	0.77
1:AA:1275:A:H2'	1:AA:1276:G:O4'	1.84	0.77
1:AA:919:A:H1'	1:AA:1079:G:H1	1.47	0.77
1:AA:943:U:N1	9:AI:124:GLN:OE1	2.08	0.77
23:BA:92:G:C6	34:BN:39:GLU:OE2	2.37	0.77
22:BB:1486:A:C2	22:BB:1537:U:N3	2.51	0.77
22:BB:2040:A:O2'	48:B2:6:VAL:HG22	1.82	0.77
22:BB:2598:C:C2'	25:BE:154:LYS:NZ	2.47	0.77
22:BB:676:G:N3	22:BB:950:G:H4'	1.98	0.77
22:BB:1809:G:H5''	24:BD:63:ARG:HH22	1.47	0.77
25:BE:181:LEU:CD1	37:BQ:16:ILE:HG13	2.15	0.77
22:BB:2767:C:C5'	25:BE:60:ASN:O	2.32	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:BM:56:LEU:HD23	33:BM:57:ILE:H	1.47	0.77
22:BB:1163:C:H4'	38:BR:80:ILE:CG1	2.14	0.77
1:CA:1230:C:C4	13:CM:125:ARG:HB2	2.19	0.77
1:CA:691:G:OP2	11:CK:26:ASN:CB	2.33	0.77
1:CA:408:A:C4'	4:CD:112:VAL:CG1	2.58	0.77
1:CA:9:G:H5''	5:CE:122:GLU:OE1	1.83	0.77
1:CA:559:A:P	5:CE:123:LEU:HA	2.24	0.77
22:DB:2261:G:N1	22:DB:2406:C:N3	2.33	0.77
22:DB:547:U:H5''	31:DK:30:LYS:CD	2.13	0.77
22:DB:573:C:OP1	39:DS:78:VAL:HG13	1.83	0.77
22:DB:506:G:C5'	40:DT:21:ARG:HB2	2.14	0.77
1:EA:129(A):G:H8	17:EQ:72:ARG:HH12	1.26	0.77
4:ED:205:GLU:CB	5:EE:101:ILE:CG2	2.62	0.77
22:FB:1008:G:H5'	38:FR:92:ARG:CB	2.13	0.77
22:FB:1047:G:C6	22:FB:1048:U:O2	2.38	0.77
22:FB:1835:C:C5'	24:FD:255:LYS:HZ2	1.96	0.77
22:FB:1997:A:O4'	40:FT:109:ARG:NH1	2.17	0.77
22:FB:2254:C:O2	34:FN:86:LYS:HE3	1.84	0.77
22:FB:659:G:N2	51:F5:46:LYS:HZ1	1.81	0.77
22:FB:95:G:H4'	45:FY:39:GLN:HA	0.78	0.77
22:FB:1288:A:N1	35:FO:19:ALA:CB	2.46	0.77
3:GC:105:GLU:HG2	3:GC:106:VAL:H	1.48	0.77
13:GM:85:GLY:O	19:GS:74:PHE:CG	2.37	0.77
1:GA:195:A:OP1	20:GT:65:LYS:HD3	1.84	0.77
22:HB:1119:U:H3'	22:HB:1120:C:P	2.25	0.77
22:HB:1667:A:H61	22:HB:1991:C:N4	1.81	0.77
22:HB:1989:C:O2'	22:HB:2798:A:HI1'	1.84	0.77
22:HB:609:U:H4'	26:HF:26:VAL:HG11	1.67	0.77
22:HB:1234:C:OP2	39:HS:68:LYS:NZ	2.18	0.77
1:IA:124:G:H5'	1:IA:310:G:H21	1.50	0.77
1:IA:1443:G:C6	37:JQ:98:LYS:HG2	2.18	0.77
1:IA:644:G:C5'	8:IH:92:ARG:HH21	1.97	0.77
13:IM:85:GLY:C	19:IS:74:PHE:HB3	2.04	0.77
16:IP:60:LEU:HD23	16:IP:65:GLN:HE21	1.47	0.77
17:IQ:23:VAL:HG12	17:IQ:25:ARG:H	1.48	0.77
22:JB:2182:A:H4'	47:J1:44:THR:CB	2.14	0.77
22:JB:17:G:OP2	48:J2:13:LYS:HE2	1.81	0.77
22:JB:15:G:H2'	48:J2:18:MET:HG3	1.61	0.77
53:J7:200:LEU:HD22	53:J7:201:ARG:H	1.50	0.77
22:JB:1781:C:C3'	24:JD:213:ARG:NH2	2.48	0.77
22:JB:2852:G:P	37:JQ:8:ASN:CB	2.60	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:JU:44:GLN:HG3	41:JU:45:ALA:H	1.48	0.77
1:AA:619:U:C2	4:AD:133:VAL:HA	2.20	0.77
1:AA:1249:C:O2'	9:AI:73:GLN:OE1	2.00	0.77
22:BB:1041:G:H21	52:B6:7:VAL:HG13	1.50	0.77
22:BB:1795:C:O2	24:BD:52:ARG:HG3	1.84	0.77
22:BB:2599:U:H2'	25:BE:157:ALA:O	1.83	0.77
22:BB:2814:G:H21	35:BO:91:PRO:CB	1.89	0.77
22:BB:2795:A:O5'	35:BO:5:LYS:HB2	1.85	0.77
43:BW:95:SER:H	43:BW:130:ILE:HD13	1.49	0.77
44:BX:43:THR:HB	44:BX:66:LYS:H	1.49	0.77
44:BX:47:ALA:HB3	44:BX:49:GLN:HE22	1.49	0.77
1:CA:1343:G:N3	9:CI:121:ARG:NH1	2.33	0.77
1:CA:277:C:OP1	17:CQ:43:LEU:HG	1.83	0.77
3:CC:39:ILE:HG22	3:CC:43:LEU:HD23	1.65	0.77
1:CA:1343:G:H5''	9:CI:122:ALA:HB3	1.62	0.77
1:CA:948:C:C3'	13:CM:106:ASN:OD1	2.31	0.77
22:DB:1437:A:N1	22:DB:1438:G:O6	2.17	0.77
22:DB:1498:G:H1'	22:DB:1526:U:H3	1.48	0.77
22:DB:746:G:H1	22:DB:774:A:H2'	1.48	0.77
22:DB:1805:G:H4'	24:DD:44:ASN:N	1.99	0.77
22:DB:1674:C:H3'	25:DE:134:TRP:CD1	2.19	0.77
22:DB:2658:A:O2'	25:DE:187:ALA:HB1	1.74	0.77
34:DN:99:LYS:CE	43:DW:73:LYS:HZ1	1.91	0.77
40:DT:56:LEU:HG	48:D2:28:PRO:CD	2.11	0.77
41:DU:13:SER:HB3	41:DU:16:ALA:HB2	1.65	0.77
9:EI:10:ARG:HE	9:EI:104:ARG:HG2	1.49	0.77
1:EA:972:C:O2'	10:EJ:54:PHE:HA	1.85	0.77
23:FA:116:C:O2'	36:FP:50:THR:CG2	2.31	0.77
22:FB:1399:C:H1'	22:FB:1484:G:N2	1.98	0.77
22:FB:231:G:N2	51:F5:4:MET:SD	2.56	0.77
22:FB:2716:G:C2	22:FB:2748:C:C2	2.73	0.77
22:FB:2736:U:O4	28:FH:67:LEU:HD23	1.82	0.77
22:FB:548:G:H1'	31:FK:33:ILE:HG22	0.77	0.77
22:FB:64:C:C3'	41:FU:70:GLY:H	1.89	0.77
22:FB:746:G:H1	22:FB:774:A:H2'	1.48	0.77
22:FB:2034:A:H4'	25:FE:141:ILE:CG1	2.15	0.77
22:FB:2006:G:H1'	25:FE:149:ARG:HH12	1.49	0.77
27:FG:14:PRO:HB2	27:FG:18:GLN:HE22	1.47	0.77
31:FK:139:ARG:HH22	31:FK:142:ARG:HH11	1.31	0.77
22:FB:2464:G:H1'	34:FN:120:ARG:O	1.84	0.77
22:FB:1468:A:N6	35:FO:80:MET:HG2	1.98	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:FP:22:ALA:HA	44:FX:44:LYS:HE3	1.65	0.77
1:GA:1392:G:C5'	1:GA:1531:A:P	2.72	0.77
1:GA:911:U:O4	12:GL:23:LYS:CE	2.32	0.77
5:GE:44:GLY:HA2	5:GE:61:TYR:HB3	1.65	0.77
9:GI:10:ARG:HE	9:GI:104:ARG:HG2	1.49	0.77
1:GA:555:C:H5	12:GL:20:LYS:HZ1	1.28	0.77
16:GP:60:LEU:HD23	16:GP:65:GLN:HE21	1.47	0.77
22:HB:1139:A:C6	22:HB:2470:U:O4	2.37	0.77
22:HB:1471:G:N2	22:HB:2681:A:N6	2.29	0.77
36:HP:9:ARG:HH12	36:HP:12:ARG:H	1.31	0.77
22:HB:2365:U:H5'	44:HX:39:ARG:NH1	1.97	0.77
22:JB:3178:C:H1'	53:J7:161:ASP:CA	2.13	0.77
22:JB:1667:A:H61	22:JB:1991:C:N4	1.81	0.77
22:JB:2406:C:OP1	22:JB:2408:G:H4'	1.84	0.77
22:JB:593:C:O2	26:JF:76:THR:HA	1.83	0.77
22:JB:1782:A:P	24:JD:213:ARG:HH22	2.07	0.77
22:JB:2284:U:H1'	27:JG:152:MET:H	1.49	0.77
27:JG:29:PRO:HA	27:JG:30:ARG:HH21	1.49	0.77
22:JB:1129:A:H5'	43:JW:76:ARG:NE	1.99	0.77
1:AA:1231:G:C4	13:AM:126:LYS:CG	2.67	0.77
1:AA:1306:A:H61	1:AA:1331:G:H1'	1.49	0.77
1:AA:1350:A:H1'	7:AG:33:ASP:C	2.04	0.77
1:AA:620:C:C3'	4:AD:138:TYR:CE1	2.67	0.77
12:AL:102:ARG:HB3	12:AL:109:GLY:HA2	1.66	0.77
1:AA:740:U:HO2'	15:AO:52:SER:HB3	1.46	0.77
20:AT:23:ARG:HA	20:AT:26:ASN:HD22	1.49	0.77
22:BB:1498:G:H1'	22:BB:1526:U:H3	1.49	0.77
22:BB:1513:U:O4	22:BB:1594:U:OP1	2.02	0.77
22:BB:1805:G:N3	24:BD:51:SER:HB2	2.00	0.77
22:BB:1750:A:H2	22:BB:2676:G:C1'	1.96	0.77
22:BB:746:G:H1	22:BB:774:A:H2'	1.48	0.77
22:BB:83:A:N6	42:BV:102:LYS:NZ	2.32	0.77
22:BB:1805:G:N1	24:BD:52:ARG:CD	2.46	0.77
24:BD:82:ILE:HA	24:BD:94:LEU:HB2	1.64	0.77
22:BB:596:C:H5	33:BM:30:ALA:HB2	1.48	0.77
1:CA:1231:G:H1'	13:CM:126:LYS:CD	2.05	0.77
1:CA:1275:A:H2'	1:CA:1276:G:O4'	1.85	0.77
1:CA:973:G:H4'	14:CN:41:ARG:NH2	2.00	0.77
3:CC:59:ARG:HA	3:CC:64:VAL:HG13	1.66	0.77
9:CI:10:ARG:HE	9:CI:104:ARG:HG2	1.49	0.77
1:CA:941:G:N3	9:CI:121:ARG:NH2	2.33	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:CJ:63:PHE:CG	14:CN:58:LYS:HA	2.19	0.77
23:DA:106:U:H4'	43:DW:88:TYR:CG	2.19	0.77
23:DA:107:C:H5'	43:DW:88:TYR:C	1.95	0.77
22:DB:3197:U:C2'	22:DB:2181:A:P	2.72	0.77
28:DH:16:THR:HG23	28:DH:45:GLN:HE22	1.47	0.77
11:EK:58:PRO:HB3	11:EK:90:GLY:HA3	1.64	0.77
22:FB:1488:G:C6	22:FB:1533:G:O6	2.38	0.77
22:FB:2241:U:H5''	22:FB:2307:A:C2	2.19	0.77
24:FD:142:VAL:HG23	24:FD:143:HIS:H	1.48	0.77
22:FB:597:U:H1'	26:FF:84:PHE:HE2	1.03	0.77
22:FB:590:C:OP1	38:FR:32:TYR:CD1	2.37	0.77
38:FR:94:VAL:HG11	39:FS:11:GLN:CA	2.14	0.77
22:FB:1235:C:OP1	39:FS:68:LYS:HA	1.84	0.77
1:GA:815:A:N3	1:GA:1527:C:O2	2.18	0.77
1:GA:755:G:OP1	15:GO:65:ARG:CZ	2.31	0.77
6:GF:49:ALA:CB	18:GR:78:LEU:O	2.28	0.77
22:HB:1043:A:OP1	52:H6:8:LYS:CA	2.32	0.77
22:HB:55:A:C1'	22:HB:125:A:C2	2.67	0.77
22:HB:3177:C:H4'	53:H7:163:PRO:HG2	1.66	0.77
22:HB:699:G:C2	50:H4:5:TYR:HB2	2.20	0.77
22:HB:811:G:C5	26:HF:56:ARG:NH1	2.53	0.77
9:II:27:THR:HA	9:II:32:ASP:HA	1.64	0.77
14:IN:47:LEU:HD23	14:IN:50:LYS:HD2	1.64	0.77
12:IL:11:VAL:HG23	17:IQ:36:ILE:HG23	1.62	0.77
22:JB:2558:C:H5'	25:JE:132:LYS:CB	2.13	0.77
22:JB:1790:G:H22	24:JD:177:LEU:HD13	1.48	0.77
22:JB:2557:G:H21	25:JE:133:LYS:NZ	1.83	0.77
22:JB:1236:G:OP2	39:JS:71:ILE:HD12	1.83	0.77
1:AA:1230:C:C2	13:AM:125:ARG:CD	2.60	0.77
1:AA:339:C:H5''	32:BL:109:ARG:NE	1.99	0.77
3:AC:59:ARG:HA	3:AC:64:VAL:HG13	1.67	0.77
1:AA:1298:C:H41	7:AG:115:ARG:HH11	1.31	0.77
8:AH:39:LEU:HD13	8:AH:44:PHE:HB3	1.65	0.77
10:AJ:64:GLU:O	14:AN:56:VAL:HG12	1.84	0.77
1:AA:36:C:C6	12:AL:118:SER:HA	2.08	0.77
22:BB:1042:G:O2'	52:B6:7:VAL:CG2	2.32	0.77
22:BB:121:G:OP1	22:BB:1388:C:O2'	2.00	0.77
34:BN:71:PRO:HB2	34:BN:73:LYS:HD3	1.65	0.77
1:CA:759:A:H2'	1:CA:760:G:H5'	1.66	0.77
1:CA:17:U:O3'	5:CE:14:ARG:NH1	2.16	0.77
5:CE:44:GLY:HA2	5:CE:61:TYR:HB3	1.65	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:1149:C:OP1	9:CI:14:VAL:HG21	1.85	0.77
1:CA:36:C:O4'	12:CL:118:SER:HA	1.84	0.77
1:CA:552:U:C1'	12:CL:31:PRO:HB2	2.15	0.77
1:CA:974:A:N3	14:CN:31:ARG:HB3	2.00	0.77
22:DB:225:G:O3'	47:D1:28:ARG:CG	2.32	0.77
29:DI:26:ARG:CG	47:D1:73:LYS:O	2.32	0.77
22:DB:1292:A:O3'	35:DO:33:ARG:CD	2.32	0.77
22:DB:2492:G:H2'	22:DB:2493:U:C5	2.19	0.77
22:DB:872:G:H1'	22:DB:2247:A:H2	1.49	0.77
22:DB:1290:A:C4'	35:DO:24:GLN:HG2	2.14	0.77
22:DB:2313:G:O2'	36:DP:15:ARG:HD2	1.84	0.77
22:DB:1746:A:OP1	37:DQ:126:LYS:OXT	2.02	0.77
34:DN:99:LYS:NZ	43:DW:73:LYS:NZ	2.32	0.77
1:EA:1021:G:C4'	27:JG:179:LYS:HB2	2.14	0.77
1:EA:1275:A:H2'	1:EA:1276:G:O4'	1.85	0.77
1:EA:1320:C:C2	19:ES:72:GLY:CA	2.65	0.77
1:EA:391:G:H5''	16:EP:8:ARG:NE	1.92	0.77
1:EA:586:C:C5'	8:EH:91:ARG:HB2	2.15	0.77
1:EA:759:A:H2'	1:EA:760:G:H5'	1.66	0.77
22:FB:2325:A:C2	49:F3:26:LYS:N	2.52	0.77
22:FB:114:C:H4'	50:F4:19:ARG:NH1	1.19	0.77
22:FB:922:A:H1'	22:FB:2244:C:H5'	1.67	0.77
22:FB:339:U:C4'	42:FV:76:LEU:HA	2.15	0.77
22:FB:597:U:C4'	33:FM:28:LYS:CE	2.62	0.77
23:FA:51:G:OP2	36:FP:97:HIS:CB	2.33	0.77
1:GA:1148:U:H4'	9:GI:14:VAL:CG1	2.15	0.77
1:GA:1202:G:N3	1:GA:1202:G:H2'	1.98	0.77
1:GA:124:G:H5'	1:GA:310:G:H21	1.50	0.77
1:GA:15:G:H1'	5:GE:17:ALA:HB3	1.67	0.77
3:GC:23:TYR:CE2	10:GJ:9:ARG:CG	2.67	0.77
12:GL:11:VAL:CG2	17:GQ:32:TYR:HB3	2.13	0.77
1:GA:668:G:H5'	15:GO:48:LYS:HZ1	1.49	0.77
12:GL:10:LEU:O	17:GQ:32:TYR:CE1	2.36	0.77
22:HB:1261:G:C4	38:HR:3:ARG:CB	2.61	0.77
22:HB:1806:G:P	24:HD:52:ARG:NH1	2.58	0.77
22:HB:847:C:O2'	22:HB:2337:A:C4	2.37	0.77
22:HB:2606:G:C4	22:HB:2757:G:C6	2.72	0.77
22:HB:504:G:N1	40:HT:78:ASN:ND2	2.31	0.77
22:HB:1803:G:N2	24:HD:46:ARG:O	2.17	0.77
34:HN:106:GLU:CG	43:HW:113:VAL:C	2.52	0.77
22:HB:2857:C:OP1	35:HO:98:LEU:HD21	1.84	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:IA:129(A):G:O5'	17:IQ:63:ARG:HG3	1.84	0.77
3:IC:18:TRP:NE1	14:IN:53:LEU:N	2.29	0.77
3:IC:59:ARG:HA	3:IC:64:VAL:HG13	1.66	0.77
4:ID:201:GLN:HE22	5:IE:99:GLY:HA2	1.46	0.77
1:IA:1380:U:C4	7:IG:3:ARG:HG3	2.19	0.77
1:IA:778:G:H1'	11:IK:120:ARG:H	1.47	0.77
22:JB:1727:C:O4'	22:JB:2833:C:O2	2.02	0.77
22:JB:1828:C:H1'	22:JB:1912:G:P	2.24	0.77
22:JB:2528:G:O6	22:JB:2538:C:N4	2.17	0.77
22:JB:2615:U:H4'	25:JE:79:ARG:HD2	1.67	0.77
22:JB:634:G:O3'	51:J5:63:PRO:CG	2.33	0.77
25:JE:72:VAL:HG22	25:JE:73:ALA:H	1.50	0.77
27:JG:70:ALA:HB2	27:JG:85:VAL:HG21	1.66	0.77
1:AA:1322:C:H5''	13:AM:101:GLN:O	1.85	0.77
1:AA:1395:C:H5'	1:AA:1401:G:H21	1.48	0.77
1:AA:562:C:H3'	12:AL:17:LYS:HZ1	1.48	0.77
2:AB:189:ASP:HB3	2:AB:204:ASN:HA	1.67	0.77
3:AC:39:ILE:HG22	3:AC:43:LEU:HD23	1.65	0.77
19:AS:45:VAL:HG13	19:AS:62:ILE:HG13	1.66	0.77
22:BB:1136:G:N7	52:B6:4:ARG:O	2.17	0.77
23:BA:77:G:H1	23:BA:105:G:H22	1.29	0.77
22:BB:1488:G:N7	22:BB:1533:G:O6	2.17	0.77
22:BB:840:U:H3'	22:BB:2409:A:H61	1.49	0.77
22:BB:2470:U:C2	22:BB:2549:G:P	2.78	0.77
22:BB:2599:U:C1'	25:BE:157:ALA:O	2.32	0.77
22:BB:1954:A:H62	24:BD:239:ARG:HB3	1.50	0.77
22:BB:1140:A:C5'	31:BK:107:GLN:CG	2.63	0.77
1:AA:339:C:C5'	32:BL:109:ARG:NE	2.48	0.77
22:BB:2372:A:C1'	33:BM:60:LEU:H	1.96	0.77
22:BB:2365:U:C2'	44:BX:37:LEU:CD1	2.46	0.77
1:CA:1059:C:C5'	14:CN:45:ARG:HH22	1.98	0.77
1:CA:323:U:H5''	20:CT:15:ARG:HH22	1.47	0.77
22:DB:1227:A:H61	22:DB:1249:G:H1'	1.49	0.77
22:DB:2291:U:C5'	27:DG:85:VAL:HB	2.15	0.77
22:DB:840:U:H3'	22:DB:2409:A:H61	1.49	0.77
15:CO:89:GLY:OXT	22:DB:729:A:OP2	2.03	0.77
22:DB:845:U:H5''	33:DM:39:SER:HG	1.50	0.77
26:DF:15:ILE:HG13	26:DF:16:GLU:O	1.85	0.77
22:DB:2229:G:C8	34:DN:84:MET:O	2.34	0.77
22:DB:1237:G:O2'	39:DS:86:HIS:HA	1.84	0.77
40:DT:76:LYS:HA	40:DT:79:ALA:HB3	1.65	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:DB:24:G:O4'	40:DT:98:ASP:CB	2.32	0.77
1:EA:586:C:H5''	8:EH:91:ARG:CA	2.14	0.77
1:EA:1186:G:O4'	9:EI:110:GLU:HG2	1.84	0.77
1:EA:452:A:P	16:EP:43:LYS:CD	2.72	0.77
22:FB:230:C:H42	51:F5:4:MET:CG	1.85	0.77
22:FB:840:U:H3'	22:FB:2409:A:H61	1.49	0.77
1:GA:1228:C:O3'	13:GM:117:VAL:N	1.97	0.77
2:GB:189:ASP:HB3	2:GB:204:ASN:HA	1.67	0.77
1:GA:1291:G:C5'	7:GG:41:ARG:HH11	1.71	0.77
1:GA:107:G:N2	20:GT:11:SER:O	2.16	0.77
20:GT:23:ARG:HA	20:GT:26:ASN:HD22	1.50	0.77
1:GA:186:C:C1'	20:GT:81:LYS:CB	2.63	0.77
22:HB:1042:G:O3'	52:H6:8:LYS:CG	2.32	0.77
23:HA:59:A:C4'	27:HG:23:SER:HB3	2.13	0.77
22:HB:2543:A:C6	22:HB:2625:U:O2'	2.29	0.77
22:HB:818:G:H21	22:HB:844:G:H1'	1.50	0.77
43:HW:95:SER:H	43:HW:130:ILE:HD13	1.49	0.77
1:IA:1115:C:OP1	10:IJ:46:ARG:NH2	2.17	0.77
1:IA:684:A:C4'	11:IK:38:ASN:CB	2.58	0.77
1:IA:767:A:N1	1:IA:1512:U:C1'	2.45	0.77
22:JB:411:C:P	47:J1:62:ARG:HH12	2.07	0.77
33:JM:67:ASN:CB	51:J5:11:LYS:CG	2.57	0.77
22:JB:2206:C:C4'	24:JD:262:LYS:NZ	2.47	0.77
22:JB:2553:G:H21	25:JE:142:GLY:H	1.32	0.77
22:JB:487:G:H21	22:JB:491:A:H62	1.33	0.77
27:JG:13:ARG:HB3	27:JG:14:PRO:HD3	1.66	0.77
22:JB:512:A:C5'	40:JT:16:GLN:CA	2.48	0.77
1:AA:2003:G:H21	1:AA:1038:C:H42	1.31	0.77
1:AA:236:G:O2'	17:AQ:25:ARG:CZ	2.33	0.77
1:AA:276:G:N2	17:AQ:68:ARG:NH1	1.98	0.77
22:BB:15:G:P	48:B2:20:ARG:HH12	2.06	0.77
22:BB:1667:A:H61	22:BB:1991:C:N4	1.81	0.77
22:BB:2342:U:O3'	44:BX:38:VAL:O	2.01	0.77
22:BB:699:G:C8	50:B4:6:GLN:O	2.37	0.77
22:BB:891:A:C4	22:BB:909:C:N3	2.52	0.77
26:BF:15:ILE:HG13	26:BF:16:GLU:O	1.85	0.77
22:BB:333:A:P	26:BF:160:ALA:HA	2.24	0.77
22:BB:2284:U:O2	27:BG:40:LEU:CD1	2.32	0.77
33:BM:70:THR:HG23	33:BM:71:THR:H	1.50	0.77
41:BU:44:GLN:HG3	41:BU:45:ALA:H	1.48	0.77
1:CA:1229:A:C6	13:CM:120:LYS:HB3	2.20	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:1306:A:H61	1:CA:1331:G:H1'	1.49	0.77
1:CA:2003:G:H21	1:CA:1038:C:H42	1.31	0.77
1:CA:332:G:O2'	20:CT:13:LEU:CD1	2.31	0.77
1:CA:932:C:H3'	7:CG:3:ARG:HD2	1.63	0.77
1:CA:932:C:O5'	7:CG:3:ARG:HB2	1.82	0.77
33:DM:50:GLU:OE2	51:D5:58:MET:SD	2.42	0.77
22:DB:2056:C:H5''	24:DD:228:PRO:O	1.83	0.77
22:DB:2786:G:C5'	25:DE:59:VAL:HA	2.15	0.77
22:DB:48:A:H61	22:DB:153:A:N6	1.81	0.77
28:DH:89:LEU:HA	28:DH:161:GLY:HA2	1.67	0.77
33:DM:70:THR:HG23	33:DM:71:THR:H	1.50	0.77
22:DB:1236:G:O6	39:DS:71:ILE:HG12	0.98	0.77
43:DW:84:TYR:CD2	43:DW:128:ARG:CD	2.66	0.77
1:EA:1306:A:H61	1:EA:1331:G:H1'	1.49	0.77
4:ED:25:ARG:NH2	4:ED:30:LYS:HB2	2.00	0.77
1:EA:377:G:H5''	16:EP:5:ARG:NH1	1.99	0.77
22:FB:1797:C:O2'	24:FD:49:ILE:HG13	1.85	0.77
1:GA:1374:A:O2'	7:GG:28:ASN:C	2.23	0.77
7:GG:53:LYS:HD2	7:GG:53:LYS:H	1.50	0.77
22:HB:1377:G:P	47:H1:40:HIS:CE1	2.78	0.77
22:HB:2241:U:C6	22:HB:2306:A:C2	2.73	0.77
22:HB:818:G:P	33:HM:42:GLY:HA2	2.24	0.77
22:HB:824:U:OP2	33:HM:31:GLY:C	2.22	0.77
25:HE:72:VAL:HG22	25:HE:73:ALA:H	1.50	0.77
27:HG:29:PRO:HA	27:HG:30:ARG:HH21	1.49	0.77
39:HS:93:ILE:HG22	39:HS:94:LYS:H	1.50	0.77
40:HT:76:LYS:HA	40:HT:79:ALA:HB3	1.65	0.77
22:HB:2310:G:C5'	44:HX:71:ASN:C	2.52	0.77
1:IA:1275:A:H2'	1:IA:1276:G:O4'	1.84	0.77
1:IA:636:U:O2	17:IQ:2:PRO:HB3	1.83	0.77
1:IA:925:G:C4'	1:IA:1502:A:H1'	2.14	0.77
6:IF:99:ALA:CB	18:IR:29:PHE:CE1	2.68	0.77
6:IF:99:ALA:HB1	18:IR:29:PHE:HE1	1.49	0.77
10:IJ:9:ARG:H	10:IJ:94:VAL:HG13	1.50	0.77
12:IL:102:ARG:HB3	12:IL:109:GLY:HA2	1.66	0.77
1:IA:647:C:H5''	17:IQ:83:ASP:CG	2.04	0.77
1:IA:835:U:C5'	18:IR:64:ARG:CZ	2.63	0.77
22:JB:16:G:C3'	48:J2:14:SER:O	2.33	0.77
22:JB:2503:G:H21	22:JB:2721:A:H1'	1.50	0.77
22:JB:470:U:O2'	41:JU:68:PHE:HB3	1.85	0.77
22:JB:760:U:C4'	40:JT:110:ALA:CB	2.63	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:JB:818:G:H21	22:JB:844:G:H1'	1.50	0.77
22:JB:1165:G:OP1	38:JR:58:ARG:HG3	1.83	0.77
22:JB:1175:A:C5'	39:JS:89:ASN:ND2	2.41	0.77
1:AA:1298:C:C4	7:AG:114:ARG:CD	2.62	0.77
1:AA:1298:C:N4	7:AG:115:ARG:HD2	2.00	0.77
1:AA:1392:G:C4'	1:AA:1531:A:C5'	2.57	0.77
1:AA:276:G:N3	17:AQ:68:ARG:CZ	2.47	0.77
1:AA:895:G:O2'	17:AQ:100:LYS:CD	2.33	0.77
9:AI:10:ARG:HE	9:AI:104:ARG:HG2	1.49	0.77
1:AA:943:U:C2	9:AI:124:GLN:CD	2.56	0.77
12:AL:11:VAL:HG13	17:AQ:29:HIS:HD2	1.50	0.77
22:BB:176:A:O2'	47:B1:31:ILE:HG23	1.85	0.77
53:B7:200:LEU:HD22	53:B7:201:ARG:H	1.50	0.77
22:BB:1176:U:O2	22:BB:1198:C:C1'	2.33	0.77
22:BB:122:G:OP1	22:BB:1389:C:O2'	2.03	0.77
22:BB:1805:G:N2	24:BD:52:ARG:N	2.30	0.77
22:BB:2474:G:H4'	34:BN:83:ARG:CA	2.14	0.77
22:BB:2601:C:OP1	25:BE:159:HIS:CD2	2.37	0.77
22:BB:1142:G:O2'	31:BK:111:LYS:HB2	1.84	0.77
40:BT:79:ALA:HA	40:BT:83:ASP:HB3	1.67	0.77
1:CA:1395:C:H5'	1:CA:1401:G:H21	1.47	0.77
1:CA:8:A:H5'	5:CE:120:THR:C	2.05	0.77
4:CD:25:ARG:NH2	4:CD:30:LYS:HB2	2.00	0.77
9:CI:27:THR:HA	9:CI:32:ASP:HA	1.65	0.77
22:DB:1261:G:O6	38:DR:3:ARG:NE	2.18	0.77
22:DB:2063:A:H5'	47:D1:20:VAL:CG2	2.14	0.77
22:DB:3197:U:O2'	22:DB:2181:A:O5'	2.02	0.77
22:DB:487:G:N2	22:DB:491:A:C5	2.53	0.77
22:DB:504:G:H4'	40:DT:25:PHE:HE2	1.49	0.77
27:DG:30:ARG:N	27:DG:30:ARG:HE	1.83	0.77
31:DK:96:ASP:HB3	31:DK:115:ALA:HB1	1.67	0.77
34:DN:66:TYR:CE2	43:DW:118:HIS:HE1	1.54	0.77
22:DB:504:G:HO2'	40:DT:25:PHE:HD2	0.78	0.77
1:EA:1136:U:C4	1:IA:1136:U:H1'	2.19	0.77
1:EA:44:G:P	16:EP:11:SER:HB2	2.25	0.77
1:EA:632:A:H1'	17:EQ:30:PRO:CB	2.15	0.77
2:EB:189:ASP:HB3	2:EB:204:ASN:HA	1.67	0.77
1:EA:1014:A:OP2	19:ES:18:LYS:CD	2.33	0.77
22:FB:1227:A:H61	22:FB:1249:G:H1'	1.49	0.77
22:FB:1684:G:H5''	32:FL:7:ARG:HD3	1.65	0.77
22:FB:2786:G:C4'	25:FE:59:VAL:HG11	2.13	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:FB:2798:A:P	25:FE:112:GLY:CA	2.69	0.77
1:GA:125:U:H1'	1:GA:633:G:N2	1.99	0.77
1:GA:376:G:O3'	16:GP:5:ARG:NH1	2.18	0.77
1:GA:429:U:OP1	4:GD:9:CYS:HB2	1.84	0.77
1:GA:1367:C:P	9:GI:115:GLY:HA2	2.25	0.77
13:GM:87:TYR:HB3	19:GS:73:GLU:O	1.82	0.77
22:HB:3167:U:C5	53:H7:98:ARG:HD2	2.18	0.77
23:HA:77:G:H1	23:HA:105:G:H22	1.29	0.77
22:HB:2646:C:O2'	28:HH:111:HIS:HB2	1.84	0.77
22:HB:3167:U:OP2	53:H7:98:ARG:HB2	1.85	0.77
22:HB:489:A:H5''	42:HV:4:PRO:C	2.06	0.77
22:HB:503:G:H4'	40:HT:29:LYS:CE	2.15	0.77
22:HB:543:G:H4'	38:HR:42:ALA:CB	2.08	0.77
22:HB:677:G:H2'	22:HB:678:G:C1'	2.14	0.77
24:HD:11:PRO:HB2	24:HD:22:SER:HB2	1.67	0.77
34:HN:112:GLU:HB2	34:HN:115:ALA:HB3	1.65	0.77
1:IA:1180:A:H5'	9:II:103:THR:CG2	2.15	0.77
1:EA:1265:G:C3'	1:IA:1272:G:O2'	2.32	0.77
3:IC:39:ILE:HG22	3:IC:43:LEU:HD23	1.65	0.77
12:IL:11:VAL:HB	17:IQ:36:ILE:CG1	2.10	0.77
1:IA:191:G:H21	20:IT:56:MET:CE	1.98	0.77
22:JB:1468:A:N1	35:JO:80:MET:HB3	1.99	0.77
22:JB:1363:C:O2	22:JB:1588:A:N3	2.18	0.77
22:JB:1954:A:N6	24:JD:241:GLY:O	2.17	0.77
22:JB:3175:C:O3'	53:J7:33:ILE:HD12	1.83	0.77
22:JB:3178:C:C1'	53:J7:161:ASP:HA	2.14	0.77
22:JB:682:G:H22	26:JF:49:ALA:HB2	1.50	0.77
32:JL:110:VAL:HG13	32:JL:131:PRO:HD3	1.67	0.77
34:JN:112:GLU:HB2	34:JN:115:ALA:HB3	1.65	0.77
1:AA:583:A:C1'	17:AQ:91:ARG:NH1	2.47	0.77
4:AD:25:ARG:NH2	4:AD:30:LYS:HB2	2.00	0.77
1:AA:1343:G:H5'	9:AI:122:ALA:HB3	1.65	0.77
13:AM:87:TYR:HB2	13:AM:90:LEU:HD12	1.66	0.77
22:BB:1142:G:C4	31:BK:110:LEU:HD22	2.19	0.77
22:BB:1166:A:C2	22:BB:1168:G:N9	2.53	0.77
25:BE:1:MET:H2	25:BE:199:ARG:HH12	1.33	0.77
22:BB:2767:C:C1'	25:BE:61:LYS:HZ1	1.79	0.77
22:BB:624:A:C8	26:BF:170:LEU:HD23	2.20	0.77
22:BB:1142:G:C4	31:BK:104:THR:OG1	2.37	0.77
22:BB:1151:U:OP1	31:BK:51:LEU:HD12	1.84	0.77
23:BA:105:G:H5''	43:BW:92:VAL:N	1.99	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:435:C:O2'	4:CD:156:GLU:HB3	1.85	0.77
22:DB:2411:A:C5	47:D1:27:THR:HB	2.01	0.77
51:D5:35:GLY:H	51:D5:36:LYS:HZ3	1.31	0.77
22:DB:2398:U:C5	51:D5:31:HIS:N	2.45	0.77
22:DB:2714:A:H61	22:DB:2750:G:H1'	1.49	0.77
22:DB:2765:C:C2	25:DE:65:GLY:HA3	2.21	0.77
22:DB:606:A:H2	33:DM:23:PRO:C	1.88	0.77
22:DB:23:G:C1'	40:DT:96:TYR:HE2	1.99	0.77
1:EA:125:U:H5''	1:EA:605:U:O2'	1.85	0.77
1:EA:899:C:C4	24:FD:4:LYS:NZ	2.53	0.77
3:EC:12:LEU:CD1	14:EN:51:GLY:CA	2.62	0.77
22:FB:1508:G:OP1	24:FD:100:GLY:CA	2.32	0.77
22:FB:1828:C:C1'	22:FB:1912:G:OP1	2.31	0.77
22:FB:2364:C:H1'	44:FX:69:PHE:CE1	2.20	0.77
22:FB:58:C:N1	22:FB:72:A:N1	2.32	0.77
22:FB:777:A:O4'	24:FD:210:GLY:HA3	1.83	0.77
22:FB:2711:G:OP1	25:FE:203:LYS:HE2	1.85	0.77
28:FH:89:LEU:HA	28:FH:161:GLY:HA2	1.67	0.77
1:GA:1105:A:P	3:GC:172:ARG:HH22	2.07	0.77
1:GA:1306:A:H61	1:GA:1331:G:H1'	1.49	0.77
7:GG:149:ARG:O	11:GK:59:TYR:CZ	2.38	0.77
1:GA:377:G:OP1	16:GP:5:ARG:HD3	1.84	0.77
1:GA:274:A:H4'	17:GQ:14:LYS:HG2	1.64	0.77
44:HX:43:THR:HB	44:HX:66:LYS:H	1.49	0.77
1:IA:1376:U:H5''	7:IG:95:ARG:HH22	1.50	0.77
1:IA:401:C:HO2'	1:IA:621:A:H2	1.27	0.77
4:ID:107:ARG:HH22	4:ID:114:ARG:HH21	1.31	0.77
22:JB:1307:U:H2'	35:JO:23:ALA:CB	2.14	0.77
22:JB:2262:C:H5'	49:J3:9:ILE:CG1	2.15	0.77
22:JB:2820:C:H5'	37:JQ:62:SER:CA	2.15	0.77
22:JB:2550:C:O3'	25:JE:144:ARG:CG	2.33	0.77
22:JB:2707:G:O3'	32:JL:82:LYS:CD	2.33	0.77
22:JB:633:G:H5''	33:JM:101:ARG:HG2	1.66	0.77
22:JB:2814:G:O2'	35:JO:92:GLY:HA3	1.85	0.77
22:JB:999:A:P	46:JZ:8:SER:HA	2.25	0.77
1:AA:1483:A:C2	22:BB:1942:G:C2	2.72	0.76
1:AA:720:C:C4'	18:AR:52:PRO:HG3	2.15	0.76
22:BB:2040:A:C4'	48:B2:8:LYS:HZ1	1.91	0.76
23:BA:92:G:C2	34:BN:23:LYS:HG3	2.17	0.76
22:BB:2032:G:N3	25:BE:156:MET:HE1	1.96	0.76
22:BB:686:C:O2	26:BF:68:ARG:NH1	2.18	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:BB:700:C:O4'	50:B4:3:ARG:O	2.03	0.76
22:BB:2463:G:C2	34:BN:120:ARG:CG	2.68	0.76
22:BB:497:C:H1'	40:BT:80:LEU:HD13	1.58	0.76
1:CA:407:G:O4'	4:CD:116:GLN:HG3	1.84	0.76
1:CA:588:G:O3'	8:CH:5:PRO:CG	2.33	0.76
1:CA:759:A:N3	17:CQ:98:LEU:HB2	1.40	0.76
1:CA:1257:U:OP2	3:CC:27:LYS:NZ	2.06	0.76
1:CA:932:C:OP1	7:CG:3:ARG:CB	2.33	0.76
12:CL:102:ARG:HB3	12:CL:109:GLY:HA2	1.66	0.76
1:CA:518:C:O4'	12:CL:49:ASN:HA	1.83	0.76
22:DB:14:A:H8	48:D2:21:SER:OG	1.69	0.76
22:DB:2040:A:H1'	48:D2:3:LYS:HB3	1.63	0.76
22:DB:922:A:N3	22:DB:2244:C:H5'	2.00	0.76
22:DB:872:G:C1'	22:DB:2247:A:C2	2.66	0.76
22:DB:10:A:N6	22:DB:2607:C:H5''	1.99	0.76
22:DB:2654:A:H4'	32:DL:43:ARG:CZ	2.15	0.76
22:DB:1797:C:C2'	24:DD:49:ILE:HG21	2.14	0.76
22:DB:2767:C:O5'	25:DE:64:GLN:OE1	1.89	0.76
22:DB:38:G:H4'	26:DF:88:PRO:HG3	1.68	0.76
35:DO:51:LEU:HD21	35:DO:66:VAL:HG22	1.67	0.76
32:DL:83:ARG:HD2	37:DQ:83:PHE:HD2	1.49	0.76
22:DB:313:U:OP1	42:DV:88:THR:HB	1.86	0.76
23:DA:78:A:O3'	43:DW:13:LYS:HD3	1.84	0.76
43:DW:84:TYR:CD2	43:DW:128:ARG:HG3	2.20	0.76
1:EA:591:U:OP2	8:EH:30:ARG:HD2	1.85	0.76
2:EB:181:PHE:CE1	5:EE:64:ARG:NH1	2.53	0.76
1:EA:375:U:O2'	16:EP:17:TYR:CE2	2.34	0.76
22:FB:1289:A:C2	35:FO:23:ALA:HB1	2.20	0.76
22:FB:1667:A:H61	22:FB:1991:C:N4	1.81	0.76
22:FB:2007:G:H1'	31:FK:103:TYR:HH	1.47	0.76
22:FB:2023:C:OP1	31:FK:132:PHE:CG	2.38	0.76
22:FB:2293:G:H22	27:FG:129:ASN:HD22	1.32	0.76
22:FB:2261:G:N1	22:FB:2404:A:O4'	2.17	0.76
22:FB:2716:G:N1	22:FB:2748:C:C2	2.53	0.76
22:FB:3178:C:O4'	53:F7:163:PRO:HB3	1.84	0.76
22:FB:686:C:H1'	26:FF:74:VAL:CG1	2.14	0.76
22:FB:872:G:H1'	22:FB:2247:A:N3	1.98	0.76
22:FB:2187:A:OP2	24:FD:70:ARG:NH2	2.19	0.76
27:FG:30:ARG:N	27:FG:30:ARG:HE	1.84	0.76
38:FR:47:TYR:H	39:FS:75:LYS:H	1.30	0.76
1:GA:1084:G:H21	1:GA:1102:A:H62	1.34	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:GA:18:C:H4'	5:GE:130:ASN:HD21	1.47	0.76
1:GA:876:G:N2	8:GH:3:THR:N	2.27	0.76
10:GJ:31:GLY:HA2	10:GJ:78:ASN:HD22	1.48	0.76
1:GA:276:G:C4'	17:GQ:43:LEU:CD1	2.11	0.76
1:GA:195:A:OP1	20:GT:65:LYS:HG2	1.84	0.76
22:HB:1453:A:N7	22:HB:1454:U:C4	2.54	0.76
22:HB:845:U:O2	33:HM:53:ARG:NH1	2.16	0.76
22:HB:1816:G:H4'	24:HD:247:VAL:HG21	1.67	0.76
27:HG:119:PRO:HA	27:HG:178:ARG:HD3	1.66	0.76
27:HG:30:ARG:HE	27:HG:30:ARG:N	1.83	0.76
32:HL:85:ASP:O	37:HQ:84:ALA:CB	2.32	0.76
22:HB:631:G:C3'	33:HM:101:ARG:NH2	2.47	0.76
22:HB:1746:A:C5'	37:HQ:126:LYS:OXT	2.30	0.76
1:IA:1225:A:P	13:IM:102:ARG:HB3	2.22	0.76
1:IA:265:G:C1'	17:IQ:67:LYS:NZ	2.47	0.76
4:ID:25:ARG:NH2	4:ID:30:LYS:HB2	2.00	0.76
4:ID:57:ARG:HD2	4:ID:57:ARG:H	1.49	0.76
5:IE:44:GLY:HA2	5:IE:61:TYR:HB3	1.65	0.76
1:IA:673:G:C4'	6:IF:87:ARG:CZ	2.62	0.76
22:JB:1335:A:H4'	40:JT:103:LEU:HD23	1.67	0.76
22:JB:491:A:O5'	42:JV:55:THR:HG21	1.56	0.76
27:JG:119:PRO:HA	27:JG:178:ARG:HD3	1.66	0.76
13:AM:81:LEU:CG	13:AM:92:HIS:NE2	2.48	0.76
16:AP:56:ALA:HA	16:AP:59:TRP:HE1	1.50	0.76
1:AA:895:G:O2'	17:AQ:100:LYS:CE	2.34	0.76
12:AL:11:VAL:CG2	17:AQ:29:HIS:CG	2.64	0.76
22:BB:1141:U:C6	31:BK:106:TYR:HD1	2.03	0.76
22:BB:1989:C:C1'	22:BB:2798:A:H1'	2.13	0.76
22:BB:686:C:H4'	26:BF:74:VAL:HG13	0.76	0.76
22:BB:94:C:O2'	45:BY:41:HIS:HB2	1.85	0.76
27:BG:30:ARG:HE	27:BG:30:ARG:N	1.84	0.76
27:BG:70:ALA:HB2	27:BG:85:VAL:HG21	1.66	0.76
22:BB:2465:G:P	34:BN:123:GLY:HA3	2.25	0.76
22:BB:1236:G:C8	39:BS:87:ARG:HD2	2.20	0.76
1:CA:16:A:C4'	5:CE:16:THR:HA	2.14	0.76
1:CA:659:U:C5'	15:CO:5:LYS:HG2	2.13	0.76
22:DB:1513:U:O4	22:DB:1594:U:OP1	2.02	0.76
22:DB:2558:C:O4'	25:DE:133:LYS:NZ	2.19	0.76
32:DL:110:VAL:HG13	32:DL:131:PRO:HD3	1.67	0.76
44:DX:47:ALA:HB3	44:DX:49:GLN:HE22	1.49	0.76
1:EA:2003:G:H21	1:EA:1038:C:H42	1.31	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:EA:1206:G:O3'	3:EC:192:THR:O	2.03	0.76
7:EG:53:LYS:H	7:EG:53:LYS:HD2	1.50	0.76
1:EA:586:C:H5''	8:EH:91:ARG:H	0.62	0.76
9:EI:27:THR:HA	9:EI:32:ASP:HA	1.65	0.76
12:EL:102:ARG:HB3	12:EL:109:GLY:HA2	1.67	0.76
12:EL:38:THR:HG22	12:EL:39:VAL:HG23	1.65	0.76
22:FB:2037:A:C5	48:F2:5:PRO:CG	2.56	0.76
22:FB:470:U:OP1	50:F4:41:GLN:NE2	2.18	0.76
26:FF:15:ILE:HG13	26:FF:16:GLU:O	1.85	0.76
27:FG:29:PRO:HA	27:FG:30:ARG:HH21	1.49	0.76
38:FR:88:ILE:HD12	39:FS:52:GLY:O	1.83	0.76
22:FB:2240:C:O5'	44:FX:14:ARG:HD2	1.85	0.76
44:FX:43:THR:HB	44:FX:66:LYS:H	1.49	0.76
1:GA:186:C:H1'	20:GT:81:LYS:CG	2.15	0.76
4:GD:57:ARG:H	4:GD:57:ARG:HD2	1.49	0.76
5:GE:72:GLN:HE22	5:GE:145:LYS:H	1.34	0.76
19:GS:45:VAL:HG13	19:GS:62:ILE:HG13	1.66	0.76
25:HE:144:ARG:H	25:HE:144:ARG:NE	1.83	0.76
25:HE:76:ARG:HH21	37:HQ:2:GLN:CD	1.80	0.76
32:HL:110:VAL:HG13	32:HL:131:PRO:HD3	1.67	0.76
1:IA:1084:G:H21	1:IA:1102:A:H62	1.34	0.76
1:IA:1151:A:H5''	10:IJ:42:THR:O	1.85	0.76
1:IA:1306:A:H61	1:IA:1331:G:H1'	1.49	0.76
1:IA:1056:U:OP1	3:IC:162:GLN:HA	1.85	0.76
1:IA:1290:G:H4'	7:IG:35:LYS:NZ	2.00	0.76
9:II:10:ARG:HE	9:II:104:ARG:HG2	1.49	0.76
1:IA:236:G:O2'	17:IQ:25:ARG:NH2	2.18	0.76
22:JB:697:G:C5'	50:J4:11:LYS:HD2	2.11	0.76
22:JB:3171:A:C4'	53:J7:105:ARG:CD	2.63	0.76
22:JB:3124:G:C5'	53:J7:61:ALA:C	2.49	0.76
23:JA:78:A:H5''	43:JW:10:PRO:HB3	1.66	0.76
22:JB:1812:U:OP1	24:JD:160:GLY:N	2.18	0.76
22:JB:1998:A:O2'	48:J2:3:LYS:N	2.18	0.76
22:JB:225:G:H1'	22:JB:2412:A:H61	1.50	0.76
27:JG:30:ARG:HE	27:JG:30:ARG:N	1.83	0.76
22:JB:2636:A:P	28:JH:181:GLY:HA3	2.23	0.76
34:JN:32:ASP:CG	43:JW:115:ILE:HG22	2.06	0.76
22:JB:1003:C:O4'	39:JS:74:TYR:CD2	2.25	0.76
22:JB:529:U:H5''	40:JT:39:ARG:HH21	1.50	0.76
22:JB:934:G:HO2'	44:JX:26:PHE:HD2	0.78	0.76
1:AA:254:G:H4'	17:AQ:45:HIS:ND1	2.00	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:13:U:O2	1:AA:914:A:H3'	1.86	0.76
1:AA:509:A:O5'	4:AD:54:TYR:CG	2.38	0.76
4:AD:57:ARG:H	4:AD:57:ARG:HD2	1.50	0.76
7:AG:53:LYS:H	7:AG:53:LYS:HD2	1.51	0.76
12:AL:67:THR:HB	12:AL:96:VAL:HG13	1.67	0.76
22:BB:1227:A:H61	22:BB:1249:G:H1'	1.49	0.76
1:AA:270:A:H5'	22:BB:1738:U:C1'	2.15	0.76
22:BB:2669:C:C5'	22:BB:2847:G:C6	2.68	0.76
22:BB:3123:G:N3	53:B7:33:ILE:CD1	2.48	0.76
22:BB:2767:C:OP1	25:BE:64:GLN:HG2	1.85	0.76
28:BH:89:LEU:HA	28:BH:161:GLY:HA2	1.67	0.76
4:CD:57:ARG:H	4:CD:57:ARG:HD2	1.49	0.76
1:CA:689:C:H3'	11:CK:51:LYS:NZ	1.99	0.76
15:CO:89:GLY:OXT	22:DB:730:C:C5	2.39	0.76
20:CT:23:ARG:HA	20:CT:26:ASN:HD22	1.49	0.76
22:DB:1288:A:N6	35:DO:19:ALA:HB1	1.99	0.76
22:DB:1667:A:H61	22:DB:1991:C:N4	1.81	0.76
22:DB:1992:G:C5'	40:DT:62:ARG:HB3	2.12	0.76
22:DB:547:U:C5'	31:DK:30:LYS:HD3	2.09	0.76
27:DG:29:PRO:HA	27:DG:30:ARG:HH21	1.49	0.76
31:DK:139:ARG:HH22	31:DK:142:ARG:HH11	1.31	0.76
43:DW:94:VAL:HG13	43:DW:130:ILE:HG12	1.65	0.76
1:EA:1190:G:C5'	3:EC:176:HIS:CE1	2.68	0.76
1:EA:626:U:OP1	16:EP:35:LYS:HE2	1.86	0.76
1:EA:632:A:C4	17:EQ:30:PRO:CB	2.62	0.76
1:EA:1057:G:C5'	3:EC:155:GLY:N	2.45	0.76
1:EA:430:A:OP1	4:ED:8:VAL:HG23	1.86	0.76
1:EA:559:A:OP2	5:EE:123:LEU:HA	1.86	0.76
1:EA:878:G:H5'	8:EH:88:LYS:CG	2.16	0.76
1:EA:529:G:C2	12:EL:51:ALA:CB	2.58	0.76
14:EN:25:VAL:HG13	14:EN:26:ARG:H	1.49	0.76
1:EA:1439:C:OP1	20:ET:34:LYS:CB	2.33	0.76
22:FB:1992:G:H5''	40:FT:62:ARG:CA	2.15	0.76
22:FB:2236:U:H3'	44:FX:10:SER:HG	1.50	0.76
22:FB:2786:G:H4'	25:FE:59:VAL:HG11	1.63	0.76
22:FB:756:C:H5'	25:FE:130:GLY:H	1.50	0.76
34:FN:27:TYR:HB3	43:FW:73:LYS:CB	2.15	0.76
22:FB:470:U:O2'	41:FU:68:PHE:HE2	1.24	0.76
22:FB:64:C:C6	41:FU:68:PHE:O	2.17	0.76
22:FB:2240:C:H41	44:FX:13:GLY:CA	1.98	0.76
1:GA:864:A:O2'	1:GA:1078:U:N3	2.18	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:GA:107:G:N2	20:GT:12:ALA:N	2.33	0.76
1:GA:108:G:O6	20:GT:15:ARG:CD	2.31	0.76
1:GA:1224:G:N3	13:GM:102:ARG:NH1	2.34	0.76
1:GA:1373:G:H5''	7:GG:36:LYS:CA	2.15	0.76
10:GJ:9:ARG:H	10:GJ:94:VAL:HG13	1.51	0.76
11:GK:81:ASP:HA	11:GK:106:LYS:HB2	1.68	0.76
22:HB:1532:A:O3'	22:HB:1533:G:P	2.44	0.76
22:HB:1535:C:N4	22:HB:1536:G:H21	1.83	0.76
22:HB:2265:A:N6	49:H3:38:LYS:HZ3	1.81	0.76
22:HB:2464:G:H4'	34:HN:123:GLY:H	1.50	0.76
40:HT:79:ALA:HA	40:HT:83:ASP:HB3	1.67	0.76
1:IA:1202:G:H2'	1:IA:1202:G:N3	1.98	0.76
1:IA:1443:G:O6	37:JQ:98:LYS:CG	2.26	0.76
1:IA:587:G:OP1	8:IH:89:PRO:HA	1.85	0.76
7:IG:53:LYS:H	7:IG:53:LYS:HD2	1.50	0.76
7:IG:16:LEU:CD2	9:II:42:ARG:HH11	1.97	0.76
22:JB:1356:G:N2	22:JB:1417:C:O2	2.18	0.76
22:JB:1535:C:N4	22:JB:1536:G:H21	1.83	0.76
22:JB:1363:C:C2'	22:JB:1588:A:H1'	2.15	0.76
22:JB:2323:U:C5'	49:J3:39:LYS:CD	2.57	0.76
22:JB:2338:C:O2'	33:JM:57:ILE:HD11	1.84	0.76
22:JB:2558:C:H5''	25:JE:132:LYS:CG	1.98	0.76
22:JB:491:A:C1'	42:JV:53:VAL:HG11	2.13	0.76
22:JB:2522:G:OP1	31:JK:108:GLY:O	2.03	0.76
22:JB:309:G:OP1	42:JV:93:ARG:CB	2.33	0.76
1:AA:234:C:O2'	17:AQ:61:GLU:HG2	1.80	0.76
1:AA:275:G:O2'	17:AQ:18:THR:HG21	1.84	0.76
1:AA:734:G:O2'	18:AR:71:LYS:CE	2.33	0.76
1:AA:742:G:OP1	15:AO:55:GLY:CA	2.33	0.76
22:BB:1042:G:O2'	52:B6:7:VAL:HG22	1.86	0.76
22:BB:2825:A:H2	35:BO:61:HIS:CG	2.03	0.76
22:BB:1805:G:H22	24:BD:51:SER:HB3	1.49	0.76
22:BB:330:C:OP2	26:BF:131:LYS:HE2	1.85	0.76
27:BG:29:PRO:HA	27:BG:30:ARG:HH21	1.49	0.76
22:BB:2760:G:O2'	31:BK:149:LYS:CG	2.19	0.76
32:BL:110:VAL:HG13	32:BL:131:PRO:HD3	1.67	0.76
22:BB:2793:G:OP1	35:BO:42:LYS:NZ	2.19	0.76
1:CA:1060:C:C4	3:CC:2:GLY:N	2.53	0.76
1:CA:1256:A:H3'	3:CC:27:LYS:HD2	1.67	0.76
1:CA:15:G:C5'	5:CE:24:ARG:NH2	2.48	0.76
1:CA:227:G:H21	16:CP:62:VAL:CB	1.97	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:741:G:H4'	15:CO:55:GLY:C	2.05	0.76
1:CA:1057:G:C4'	3:CC:154:SER:HB2	2.16	0.76
1:CA:546:G:N1	4:CD:2:GLY:HA2	2.00	0.76
13:CM:82:MET:O	13:CM:93:ARG:HA	1.85	0.76
13:CM:85:GLY:O	13:CM:90:LEU:N	2.19	0.76
22:DB:1005:U:H6	38:DR:51:ARG:HH12	1.33	0.76
22:DB:1402:G:N1	22:DB:1412:C:N3	2.29	0.76
22:DB:2338:C:C5'	51:D5:50:LEU:CD2	2.64	0.76
22:DB:225:G:H1'	22:DB:2412:A:H61	1.50	0.76
22:DB:2492:G:H2'	22:DB:2493:U:N1	2.00	0.76
22:DB:2766:U:O2	25:DE:61:LYS:CB	2.34	0.76
22:DB:548:G:H1'	31:DK:33:ILE:HG22	1.67	0.76
22:DB:2504:G:OP1	28:DH:150:LYS:NZ	2.19	0.76
22:DB:2856:U:C1'	35:DO:93:GLY:HA2	2.14	0.76
3:EC:9:GLY:HA2	14:EN:49:HIS:O	1.84	0.76
8:EH:91:ARG:HH22	17:EQ:34:LYS:NZ	1.83	0.76
22:FB:1145:C:C6	22:FB:1147:G:P	2.78	0.76
22:FB:1351:G:O2'	41:FU:15:LYS:CB	2.33	0.76
22:FB:2182:A:C6	22:FB:2204:A:N3	2.53	0.76
22:FB:2292:C:H5'	27:FG:87:ILE:HD11	0.78	0.76
22:FB:2652:G:H4'	32:FL:46:HIS:HE1	1.22	0.76
22:FB:2764:U:H5'	25:FE:36:ARG:HH22	1.48	0.76
22:FB:2773:G:O2'	22:FB:2780:A:C2'	2.34	0.76
22:FB:837:U:O2'	22:FB:2338:C:N4	2.17	0.76
25:FE:18:ASP:N	37:FQ:87:LEU:HD13	2.01	0.76
44:FX:47:ALA:HB3	44:FX:49:GLN:HE22	1.49	0.76
1:GA:1250:A:H1'	1:GA:1370:G:H4'	1.67	0.76
1:GA:1275:A:H2'	1:GA:1276:G:O4'	1.85	0.76
1:GA:927:G:C2	1:GA:1532:U:H4'	2.16	0.76
20:AT:102:GLY:O	1:GA:181:G:P	2.43	0.76
1:GA:550:G:N3	12:GL:118:SER:HB2	1.97	0.76
4:GD:25:ARG:NH2	4:GD:30:LYS:HB2	2.01	0.76
11:GK:83:ILE:HG23	11:GK:109:VAL:HB	1.65	0.76
1:AA:179:A:O3'	20:GT:100:ILE:HG22	1.68	0.76
22:HB:1381:G:N7	47:H1:1:MET:SD	2.58	0.76
22:HB:2338:C:H5'	51:H5:50:LEU:HB3	1.66	0.76
22:HB:1261:G:C8	38:HR:2:PRO:HG2	2.21	0.76
22:HB:3197:U:C2	22:HB:2203:G:O6	2.38	0.76
31:HK:96:ASP:HB3	31:HK:115:ALA:HB1	1.67	0.76
22:HB:1040:A:C2'	34:HN:123:GLY:O	2.33	0.76
35:HO:51:LEU:HD21	35:HO:66:VAL:HG22	1.67	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:HL:119:ARG:CZ	37:HQ:43:ASN:C	2.52	0.76
22:HB:544:U:OP2	38:HR:22:LYS:CE	2.32	0.76
22:HB:941:U:OP1	46:HZ:22:ALA:O	2.03	0.76
1:IA:261:U:C6	20:IT:79:ARG:NE	2.53	0.76
1:IA:1130:A:O2'	9:II:18:PHE:CZ	2.36	0.76
1:IA:686:U:P	11:IK:41:THR:HG22	2.25	0.76
22:JB:1627:C:O2'	50:J4:7:PRO:HG3	1.85	0.76
23:JA:119:G:H5'	36:JP:39:TYR:OH	1.86	0.76
22:JB:1204:G:OP2	33:JM:35:LYS:HB3	1.85	0.76
22:JB:1364:C:C1'	22:JB:1587:A:O2'	2.33	0.76
22:JB:1486:A:C2	22:JB:1536:G:N2	2.52	0.76
22:JB:2258:G:C2	22:JB:2306:A:N3	2.53	0.76
22:JB:2810:A:C3'	37:JQ:6:LYS:CG	2.01	0.76
22:JB:539:A:O2'	22:JB:540:G:H5'	1.85	0.76
22:JB:616:U:OP1	26:JF:97:ARG:CG	2.31	0.76
22:JB:802:A:C2	50:J4:3:ARG:NH1	2.52	0.76
22:JB:1781:C:C3'	24:JD:213:ARG:NH1	2.48	0.76
22:JB:647:G:H1	33:JM:109:LEU:HD13	1.50	0.76
35:JO:51:LEU:HD21	35:JO:66:VAL:HG22	1.67	0.76
38:JR:88:ILE:HB	39:JS:51:ALA:HB3	1.66	0.76
23:JA:14:C:H3'	44:JX:53:MET:CE	2.14	0.76
22:JB:1197:U:C5'	46:JZ:26:ARG:HG3	2.15	0.76
1:AA:1373:G:C5'	7:AG:36:LYS:CB	2.59	0.76
10:AJ:50:ILE:C	14:AN:45:ARG:HD2	2.04	0.76
10:AJ:65:LEU:HD12	14:AN:56:VAL:HG23	0.76	0.76
22:BB:225:G:H1'	22:BB:2412:A:H61	1.50	0.76
22:BB:648:A:C2	33:BM:109:LEU:CD1	2.68	0.76
25:BE:51:TYR:CE1	37:BQ:5:ILE:CD1	2.68	0.76
22:BB:1238:A:C5'	39:BS:73:LYS:CA	2.57	0.76
22:BB:760:U:H5'	40:BT:111:ARG:CG	2.15	0.76
43:BW:136:VAL:HG13	43:BW:147:ILE:HG12	1.67	0.76
1:CA:1101:A:O5'	2:CB:98:LEU:O	2.03	0.76
1:CA:124:G:H5'	1:CA:310:G:H21	1.50	0.76
2:CB:189:ASP:HB3	2:CB:204:ASN:HA	1.67	0.76
1:CA:545:C:OP2	4:CD:65:ARG:NH2	2.19	0.76
7:CG:53:LYS:H	7:CG:53:LYS:HD2	1.51	0.76
1:CA:597:G:N2	8:CH:132:GLU:HG3	2.00	0.76
9:CI:29:ASN:HD21	9:CI:64:THR:HG23	1.49	0.76
1:CA:958:A:C4	19:CS:56:GLN:NE2	2.54	0.76
22:DB:219:G:H5'	51:D5:62:LEU:HD13	1.66	0.76
23:DA:105:G:H4'	43:DW:91:PRO:HB3	1.46	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:DB:1256:C:O2	33:DM:14:LYS:NZ	2.18	0.76
22:DB:2291:U:H5''	27:DG:85:VAL:HB	1.67	0.76
22:DB:2662:C:N3	25:DE:21:ILE:CD1	2.48	0.76
22:DB:2745:A:N3	22:DB:2746:G:C1'	2.47	0.76
22:DB:625:A:H4'	26:DF:38:ARG:NE	2.00	0.76
22:DB:645:G:OP2	33:DM:70:THR:OG1	2.02	0.76
1:EA:15:G:H1'	5:EE:24:ARG:NH2	2.00	0.76
1:EA:124:G:H5'	1:EA:310:G:H21	1.50	0.76
1:EA:546:G:C6	4:ED:2:GLY:HA2	2.21	0.76
7:EG:16:LEU:HB2	9:EI:41:VAL:CG1	2.15	0.76
1:EA:1525:G:P	11:EK:127:LYS:NZ	2.58	0.76
22:FB:1072:U:N3	30:FJ:11:GLN:CG	2.48	0.76
22:FB:225:G:H1'	22:FB:2412:A:H61	1.50	0.76
22:FB:3875:A:C4'	53:F7:43:LYS:HD3	2.14	0.76
36:FP:9:ARG:HH12	36:FP:12:ARG:H	1.31	0.76
43:FW:84:TYR:HB3	43:FW:93:GLU:CB	2.15	0.76
43:FW:95:SER:H	43:FW:130:ILE:HD13	1.49	0.76
1:GA:264:U:HO2'	17:GQ:63:ARG:C	1.88	0.76
1:GA:559:A:C2	5:GE:126:ARG:CD	2.67	0.76
2:GB:53:ARG:NH2	8:GH:68:ARG:HH12	1.81	0.76
1:GA:1398:A:C5	5:GE:22:GLY:HA2	2.09	0.76
9:GI:111:ARG:NH1	14:GN:61:TRP:CH2	2.54	0.76
22:HB:1376:C:O4'	47:H1:55:ARG:NH1	2.11	0.76
22:HB:225:G:H1'	22:HB:2412:A:H61	1.50	0.76
22:HB:2733:A:C2	52:H6:15:LYS:NZ	2.51	0.76
22:HB:2747:C:H4'	31:HK:114:THR:CB	2.14	0.76
22:HB:3172:U:OP2	53:H7:105:ARG:NH2	2.19	0.76
22:HB:658:G:C4'	22:HB:2330:G:H5''	2.15	0.76
22:HB:2760:G:N3	31:HK:149:LYS:HA	2.01	0.76
43:HW:136:VAL:HG13	43:HW:147:ILE:HG12	1.68	0.76
22:HB:93:A:O2'	45:HY:40:PRO:CB	2.34	0.76
22:HB:941:U:C4'	46:HZ:24:GLY:N	2.42	0.76
9:II:29:ASN:HD21	9:II:64:THR:HG23	1.49	0.76
22:JB:1363:C:O2'	22:JB:1588:A:O4'	2.04	0.76
22:JB:1997:A:OP1	40:JT:116:ILE:CB	2.33	0.76
22:JB:2364:C:H1'	44:JX:37:LEU:CD2	2.11	0.76
22:JB:3170:A:C2'	53:J7:128:LEU:HD23	2.15	0.76
22:JB:610:G:H5'	26:JF:99:VAL:HG22	0.78	0.76
22:JB:953:G:OP1	33:JM:38:LYS:CG	2.34	0.76
22:JB:2811:G:OP2	37:JQ:6:LYS:N	2.19	0.76
22:JB:760:U:C4'	40:JT:110:ALA:HB1	2.13	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1084:G:H21	1:AA:1102:A:H62	1.33	0.76
1:AA:332:G:H5''	20:AT:13:LEU:CD1	2.14	0.76
1:AA:430:A:P	4:AD:7:PRO:HA	2.25	0.76
1:AA:564:C:O2'	8:AH:91:ARG:CZ	2.32	0.76
1:AA:60:A:H8	20:AT:11:SER:HG	1.30	0.76
1:AA:928:G:H4'	1:AA:1533:C:H42	1.45	0.76
3:AC:29:TYR:OH	10:AJ:11:PHE:CZ	2.38	0.76
1:AA:519:C:O3'	12:AL:50:SER:O	2.02	0.76
22:BB:1135:C:O2'	52:B6:36:GLN:HB2	1.85	0.76
53:B7:11:ALA:HB1	53:B7:205:VAL:HG11	1.66	0.76
22:BB:1142:G:N9	31:BK:110:LEU:CD2	2.46	0.76
22:BB:2039:G:C2	48:B2:5:PRO:CD	2.62	0.76
22:BB:742:G:N9	24:BD:18:THR:CB	2.41	0.76
25:BE:144:ARG:NE	25:BE:144:ARG:H	1.83	0.76
34:BN:106:GLU:CA	43:BW:113:VAL:CG1	2.57	0.76
25:BE:174:GLU:OE1	37:BQ:20:HIS:CD2	2.38	0.76
22:BB:2310:G:H4'	44:BX:70:ILE:O	1.86	0.76
1:CA:597:G:N2	8:CH:132:GLU:CG	2.49	0.76
1:CA:420:U:C3'	3:CC:127:ARG:HH22	1.98	0.76
1:CA:621:A:OP1	4:CD:139:ARG:NE	2.18	0.76
1:CA:430:A:P	4:CD:8:VAL:H	2.09	0.76
1:CA:1092:A:C4'	7:CG:4:ARG:CD	2.63	0.76
5:CE:140:ARG:CZ	8:CH:72:PRO:CD	2.64	0.76
12:CL:67:THR:HB	12:CL:96:VAL:HG13	1.68	0.76
29:DI:1:MET:CG	47:D1:65:ASP:O	2.34	0.76
22:DB:1401:G:C6	22:DB:1413:U:O4	2.38	0.76
22:DB:2372:A:O5'	33:DM:60:LEU:HD12	1.85	0.76
22:DB:2661:G:N9	25:DE:11:MET:CA	2.25	0.76
22:DB:742:G:N7	24:DD:208:LYS:HD2	1.99	0.76
22:DB:1684:G:H4'	32:DL:5:GLN:OE1	1.85	0.76
34:DN:61:ARG:HB2	43:DW:112:LEU:HD21	1.65	0.76
34:DN:66:TYR:CZ	43:DW:118:HIS:ND1	2.51	0.76
22:DB:917:U:N1	43:DW:166:LEU:HD13	2.00	0.76
34:DN:38:MET:HA	43:DW:74:ARG:HG3	0.77	0.76
1:EA:1187:G:P	9:EI:113:LYS:HD3	2.25	0.76
10:EJ:62:HIS:CB	14:EN:61:TRP:CZ3	2.69	0.76
1:EA:135:C:O2	16:EP:1:MET:HB2	1.85	0.76
22:FB:1167:A:H5'	22:FB:1168:G:N7	2.00	0.76
22:FB:222:G:O6	51:F5:4:MET:CE	2.33	0.76
22:FB:2285:U:C5	27:FG:40:LEU:HD11	2.20	0.76
22:FB:3093:C:H5'	29:FI:21:LYS:CA	1.95	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:FB:3175:C:O2	53:F7:31:GLU:OE2	2.04	0.76
22:FB:348:U:H5''	42:FV:13:LYS:CG	2.11	0.76
35:FO:51:LEU:HD21	35:FO:66:VAL:HG22	1.68	0.76
32:FL:113:PRO:N	37:FQ:75:GLU:HB3	1.98	0.76
1:GA:1079:G:HO2'	5:GE:14:ARG:NH2	1.80	0.76
1:GA:375:U:C4'	16:GP:17:TYR:HH	1.98	0.76
1:GA:222:U:C2'	20:GT:68:LYS:HG2	2.16	0.76
22:HB:2602:G:C1'	48:H2:22:HIS:HE1	1.97	0.76
22:HB:2004:U:H5	38:HR:25:TRP:CD1	1.99	0.76
22:HB:2422:C:H2'	22:HB:2423:G:H8	1.50	0.76
22:HB:2553:G:C2	25:HE:142:GLY:O	2.39	0.76
22:HB:215:G:H4'	22:HB:618:A:H5'	1.67	0.76
1:IA:1117:G:O3'	9:II:9:ARG:NH1	2.09	0.76
1:IA:1250:A:H1'	1:IA:1370:G:H4'	1.67	0.76
1:IA:966:G:C5'	9:II:127:LYS:HE2	2.15	0.76
3:IC:105:GLU:HG2	3:IC:106:VAL:H	1.48	0.76
22:JB:219:G:H2'	51:J5:4:MET:C	2.05	0.76
22:JB:3177:C:O2'	53:J7:161:ASP:CG	2.21	0.76
22:JB:1140:A:H2	22:JB:2548:G:HO2'	1.29	0.76
22:JB:2848:A:C8	35:JO:6:ALA:HB1	2.21	0.76
24:JD:40:THR:HB	24:JD:61:LEU:HD22	1.68	0.76
25:JE:119:ARG:HG2	25:JE:155:ARG:HB3	1.67	0.76
26:JF:15:ILE:HG13	26:JF:16:GLU:O	1.85	0.76
23:JA:9:G:H4'	36:JP:32:TYR:HH	1.50	0.76
36:JP:9:ARG:HH12	36:JP:12:ARG:H	1.31	0.76
22:JB:1003:C:C5'	39:JS:74:TYR:CB	2.63	0.76
22:JB:1996:A:O3'	40:JT:116:ILE:CA	2.34	0.76
22:JB:489:A:C4'	42:JV:74:LEU:C	2.51	0.76
1:AA:1306:A:N6	1:AA:1331:G:H1'	2.01	0.76
1:AA:124:G:H5'	1:AA:310:G:H21	1.50	0.76
1:AA:43:C:H3'	16:AP:12:LYS:NZ	2.01	0.76
9:AI:27:THR:HA	9:AI:32:ASP:HA	1.65	0.76
22:BB:3093:C:H1'	22:BB:2181:A:N1	2.00	0.76
22:BB:424:G:OP2	22:BB:2386:G:P	2.44	0.76
23:BA:59:A:O4'	27:BG:23:SER:HB2	1.85	0.76
1:CA:1310:G:N7	13:CM:99:ARG:CZ	2.48	0.76
1:CA:529:G:C6	12:CL:49:ASN:N	2.54	0.76
1:CA:436:C:O2'	4:CD:157:LEU:HD22	1.86	0.76
7:CG:29:LYS:HE2	7:CG:29:LYS:HA	1.68	0.76
1:CA:1347:G:H5''	9:CI:107:ARG:HA	1.67	0.76
1:CA:1318:A:C4'	19:CS:10:PHE:HB2	2.14	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:DB:2328:G:OP1	51:D5:42:ARG:NH2	2.18	0.76
22:DB:1043:A:H5''	52:D6:23:VAL:HG21	1.62	0.76
22:DB:1154:A:H61	31:DK:52:GLY:HA3	1.51	0.76
22:DB:1816:G:H21	24:DD:252:LYS:HE3	1.41	0.76
22:DB:2040:A:H2'	48:D2:3:LYS:CB	2.14	0.76
22:DB:922:A:C2	22:DB:2244:C:O4'	2.38	0.76
24:DD:11:PRO:HB2	24:DD:22:SER:HB2	1.67	0.76
25:DE:1:MET:H2	25:DE:199:ARG:HH12	1.34	0.76
22:DB:596:C:N4	33:DM:30:ALA:HB2	1.97	0.76
43:DW:136:VAL:HG13	43:DW:147:ILE:HG12	1.68	0.76
1:EA:1084:G:H21	1:EA:1102:A:H62	1.34	0.76
1:EA:1187:G:C2'	9:EI:111:ARG:HH22	1.98	0.76
1:EA:1187:G:N3	9:EI:111:ARG:NH2	2.22	0.76
1:EA:545:C:OP1	4:ED:72:GLU:HB2	1.85	0.76
1:EA:588:G:O2'	8:EH:5:PRO:HB3	1.86	0.76
1:EA:641:U:C4	8:EH:116:LYS:HG2	2.19	0.76
11:EK:81:ASP:HA	11:EK:106:LYS:HB2	1.68	0.76
1:EA:246:A:OP2	17:EQ:100:LYS:HE3	1.80	0.76
22:FB:231:G:C2	51:F5:4:MET:HG2	2.20	0.76
53:F7:11:ALA:HB1	53:F7:205:VAL:HG11	1.66	0.76
23:FA:14:C:C6	44:FX:53:MET:CA	2.66	0.76
22:FB:1741:G:C1'	22:FB:2835:A:C2	2.63	0.76
22:FB:981:C:H5'	46:FZ:10:ILE:CG2	2.15	0.76
32:FL:110:VAL:HG13	32:FL:131:PRO:HD3	1.67	0.76
22:FB:1992:G:H1'	35:FO:105:GLY:CA	2.16	0.76
39:FS:93:ILE:HG22	39:FS:94:LYS:H	1.50	0.76
1:GA:1240:U:OP2	7:GG:115:ARG:CG	2.30	0.76
1:GA:334:C:H1'	1:GA:1435:G:H5'	1.68	0.76
1:GA:719:C:HO2'	18:GR:49:LYS:HB3	1.49	0.76
12:GL:102:ARG:HB3	12:GL:109:GLY:HA2	1.66	0.76
1:GA:718:G:O6	18:GR:81:PHE:CE2	2.34	0.76
22:HB:1378:A:H5''	47:H1:11:PRO:HG2	1.68	0.76
22:HB:1348:C:OP1	41:HU:64:ARG:HG2	1.85	0.76
22:HB:2310:G:H5'	44:HX:71:ASN:CB	2.16	0.76
32:HL:90:ARG:HE	32:HL:91:PHE:N	1.80	0.76
22:HB:172:A:O3'	33:HM:55:ARG:NH1	2.19	0.76
22:HB:887:G:H4'	43:HW:170:SER:OG	1.86	0.76
1:IA:892:A:H4'	1:IA:1415:G:O2'	1.86	0.76
13:IM:97:PRO:HD3	13:IM:110:ARG:HD3	1.68	0.76
1:IA:1216:G:OP1	14:IN:3:ARG:NH2	2.17	0.76
22:JB:2265:A:C8	49:J3:31:THR:OG1	2.26	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:JB:1298:G:N7	22:JB:1342:U:O4	2.18	0.76
22:JB:1813:A:P	24:JD:202:LYS:NZ	2.59	0.76
22:JB:2692:A:O2'	35:JO:14:SER:CA	2.33	0.76
22:JB:75:C:C2'	45:JY:56:VAL:CG1	2.31	0.76
22:JB:455:A:H62	26:JF:39:ARG:HG2	1.49	0.76
28:JH:89:LEU:HA	28:JH:161:GLY:HA2	1.67	0.76
41:JU:11:VAL:HG11	41:JU:26:SER:HB2	1.68	0.76
42:JV:62:MET:HG2	42:JV:63:THR:HG22	1.66	0.76
1:AA:273:A:C8	17:AQ:16:GLN:HG3	2.20	0.76
1:AA:1103:C:P	2:AB:98:LEU:HD22	2.26	0.76
9:AI:29:ASN:HD21	9:AI:64:THR:HG23	1.49	0.76
1:AA:1231:G:N3	13:AM:126:LYS:HD3	1.99	0.76
22:BB:1378:A:H5'	47:B1:11:PRO:HG2	1.68	0.76
22:BB:2343:C:H1'	44:BX:66:LYS:HD2	1.67	0.76
22:BB:57:G:C2	22:BB:72:A:C2	2.74	0.76
22:BB:2752:C:O3'	25:BE:164:ARG:HB2	1.86	0.76
22:BB:6:A:O2'	31:BK:163:PRO:HD2	1.82	0.76
31:BK:48:GLY:HA2	31:BK:87:GLN:HG2	1.68	0.76
1:CA:1257:U:OP1	3:CC:27:LYS:HE3	1.82	0.76
1:CA:666:G:N1	15:CO:52:SER:OG	2.18	0.76
1:CA:407:G:C2'	4:CD:116:GLN:CD	2.54	0.76
1:CA:1374:A:O2'	7:CG:28:ASN:O	2.03	0.76
5:CE:143:ARG:NH2	8:CH:69:ARG:HH11	1.81	0.76
22:DB:2035:G:C4'	25:DE:142:GLY:HA2	2.16	0.76
22:DB:2662:C:N4	25:DE:21:ILE:CD1	2.40	0.76
22:DB:818:G:H21	22:DB:844:G:H1'	1.50	0.76
22:DB:548:G:C1'	31:DK:33:ILE:HG22	2.15	0.76
22:DB:596:C:H5	33:DM:30:ALA:CB	1.90	0.76
22:DB:2461:G:H22	34:DN:53:ILE:HD12	1.48	0.76
44:DX:43:THR:HB	44:DX:66:LYS:H	1.49	0.76
1:EA:880:C:P	12:EL:7:ILE:CG1	2.65	0.76
4:ED:50:ARG:NH2	5:EE:10:MET:SD	2.59	0.76
16:EP:56:ALA:HA	16:EP:59:TRP:HE1	1.50	0.76
22:FB:1149:G:O5'	31:FK:55:ALA:HB3	1.85	0.76
22:FB:231:G:N1	51:F5:4:MET:HA	1.99	0.76
22:FB:2628:C:H4'	32:FL:28:GLY:CA	2.12	0.76
22:FB:58:C:C2	22:FB:72:A:N3	2.53	0.76
22:FB:818:G:H21	22:FB:844:G:H1'	1.50	0.76
24:FD:72:LYS:HZ3	24:FD:75:VAL:HG21	1.51	0.76
22:FB:63:A:H5'	41:FU:61:LYS:N	2.01	0.76
1:GA:668:G:H5''	15:GO:48:LYS:HZ3	1.51	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:GA:1373:G:C5'	7:GG:36:LYS:HB2	2.16	0.76
22:HB:1374:G:C4'	47:H1:53:GLU:CG	2.48	0.76
22:HB:1450:G:H1'	22:HB:1493:A:H2	1.51	0.76
22:HB:1887:G:HO3'	22:HB:1888:C:P	2.08	0.76
1:GA:1483:A:H1'	22:HB:1942:G:N2	1.99	0.76
22:HB:567:G:H4'	31:HK:73:ASN:HA	1.67	0.76
22:HB:761:G:C2'	40:HT:110:ALA:HB1	2.02	0.76
32:HL:87:SER:OG	37:HQ:83:PHE:CA	2.31	0.76
27:FG:179:LYS:CD	1:IA:1021:G:C4'	1.79	0.76
1:IA:928:G:C4'	1:IA:1532:U:HO2'	1.98	0.76
1:IA:658:G:C4	15:IO:22:THR:OG1	2.32	0.76
3:IC:46:GLU:HB3	3:IC:47:LEU:HD12	1.65	0.76
3:IC:23:TYR:CD1	10:IJ:93:GLY:HA2	2.21	0.76
22:JB:113:C:C2'	22:JB:124:A:HO2'	1.97	0.76
22:JB:2372:A:H4'	33:JM:60:LEU:C	2.06	0.76
22:JB:2422:C:H2'	22:JB:2423:G:H8	1.51	0.76
22:JB:541:C:C4'	38:JR:25:TRP:CD1	2.68	0.76
22:JB:869:C:H4'	44:JX:56:ASP:OD2	1.85	0.76
22:JB:2282:G:O2'	27:JG:129:ASN:OD1	2.03	0.76
22:JB:512:A:C3'	40:JT:15:LYS:O	2.34	0.76
1:AA:1256:A:N6	3:AC:26:LYS:HZ3	1.83	0.76
1:AA:877:C:H5'	8:AH:4:ASP:OD2	1.86	0.76
1:AA:981:U:O2'	14:AN:31:ARG:NH2	2.18	0.76
1:AA:552:U:H1'	12:AL:31:PRO:CB	2.16	0.76
1:AA:1309:G:C5'	13:AM:81:LEU:HD11	2.15	0.76
1:AA:760:G:C3'	17:AQ:102:GLY:CA	2.51	0.76
23:BA:92:G:O6	34:BN:39:GLU:CD	2.24	0.76
22:BB:1041:G:OP1	34:BN:125:LYS:CD	2.27	0.76
22:BB:48:A:C2	22:BB:153:A:N7	2.53	0.76
22:BB:1795:C:O3'	24:BD:250:TRP:HH2	1.69	0.76
22:BB:2504:G:C1'	22:BB:2721:A:N3	2.48	0.76
22:BB:464:G:H1	50:B4:39:ARG:HH22	1.34	0.76
22:BB:677:G:H4'	22:BB:951:G:H4'	1.67	0.76
22:BB:887:G:H4'	43:BW:148:THR:HG21	1.66	0.76
22:BB:1092:U:H4'	30:BJ:117:ALA:HB2	1.67	0.76
1:AA:1433:A:O4'	37:BQ:116:ARG:NE	2.19	0.76
22:BB:319:G:P	40:BT:12:LYS:HG3	2.25	0.76
43:BW:67:LYS:CB	43:BW:128:ARG:HH12	1.98	0.76
1:CA:1084:G:H21	1:CA:1102:A:H62	1.34	0.76
1:CA:599:C:H5'	8:CH:95:VAL:N	1.97	0.76
1:CA:1298:C:C6	7:CG:114:ARG:CD	2.61	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:CM:97:PRO:HD3	13:CM:110:ARG:HD3	1.68	0.76
22:DB:164:G:C5'	47:D1:12:CYS:O	2.27	0.76
22:DB:1887:G:N1	22:DB:1888:C:C2	2.53	0.76
22:DB:2007:G:C4'	25:DE:149:ARG:CD	2.60	0.76
22:DB:2039:G:H21	48:D2:3:LYS:CA	1.99	0.76
22:DB:504:G:C5'	40:DT:29:LYS:HE3	2.16	0.76
22:DB:873:U:H3'	22:DB:874:A:H8	1.50	0.76
22:DB:1239:A:OP2	39:DS:73:LYS:CG	2.32	0.76
40:DT:79:ALA:HA	40:DT:83:ASP:HB3	1.67	0.76
1:EA:546:G:C2	4:ED:2:GLY:HA2	2.21	0.76
1:EA:598:U:C2'	8:EH:95:VAL:CG2	2.47	0.76
4:ED:204:ILE:HG22	5:EE:101:ILE:HD11	1.66	0.76
5:EE:44:GLY:HA2	5:EE:61:TYR:HB3	1.65	0.76
9:EI:48:GLU:HB2	9:EI:78:LYS:HZ1	1.48	0.76
20:ET:23:ARG:HA	20:ET:26:ASN:HD22	1.49	0.76
22:FB:219:G:H5'	51:F5:5:LYS:NZ	2.00	0.76
22:FB:419:G:H5''	53:F7:1:MET:HE1	1.65	0.76
53:F7:200:LEU:HD22	53:F7:201:ARG:H	1.50	0.76
22:FB:1804:U:H2'	22:FB:1805:G:H8	1.50	0.76
22:FB:2372:A:C5'	33:FM:60:LEU:HA	2.14	0.76
22:FB:575:U:O4	39:FS:80:TYR:CA	2.33	0.76
22:FB:872:G:H1'	22:FB:2247:A:H2	1.50	0.76
25:FE:1:MET:H2	25:FE:199:ARG:HH12	1.33	0.76
22:FB:2394:G:H5'	33:FM:64:GLY:HA2	1.67	0.76
33:FM:70:THR:HG23	33:FM:71:THR:H	1.50	0.76
22:FB:529:U:H5'	40:FT:39:ARG:HD3	1.65	0.76
22:FB:347:C:C2	42:FV:10:HIS:ND1	2.45	0.76
17:GQ:23:VAL:HG12	17:GQ:25:ARG:H	1.48	0.76
22:HB:2378:G:H1'	49:H3:20:PHE:CD1	2.21	0.76
22:HB:3177:C:H5''	53:H7:163:PRO:CG	2.16	0.76
53:H7:206:LYS:HA	53:H7:213:VAL:HG23	1.68	0.76
22:HB:1828:C:O2'	22:HB:1912:G:OP1	2.04	0.76
22:HB:2004:U:C6	38:HR:25:TRP:CD1	2.71	0.76
22:HB:2358:C:H5'	36:HP:19:THR:CB	2.16	0.76
22:HB:596:C:C5	33:HM:29:THR:HG22	2.21	0.76
22:HB:2448:A:H4'	34:HN:57:ARG:HH11	0.71	0.76
1:GA:346:G:C4'	37:HQ:51:GLU:HG3	2.16	0.76
1:IA:1228:C:C5	13:IM:104:ARG:HG3	2.21	0.76
1:IA:556:C:OP2	12:IL:20:LYS:HE3	1.85	0.76
1:IA:1103:C:O2'	2:IB:111:ARG:CB	2.33	0.76
5:IE:27:ARG:HB3	5:IE:47:LYS:HB2	1.65	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:JB:219:G:C2'	51:J5:4:MET:HA	2.15	0.76
22:JB:1087:C:H4'	30:JJ:90:THR:O	1.86	0.76
1:IA:1483:A:N1	22:JB:1943:A:H1'	1.96	0.76
22:JB:2629:U:C5'	32:JL:29:ILE:HD12	2.16	0.76
22:JB:2848:A:C4	35:JO:6:ALA:CB	2.68	0.76
22:JB:2848:A:H1'	35:JO:6:ALA:C	2.06	0.76
22:JB:1508:G:OP2	24:JD:100:GLY:CA	2.33	0.76
24:JD:11:PRO:HB2	24:JD:22:SER:HB2	1.68	0.76
22:JB:2661:G:H1'	25:JE:11:MET:SD	2.26	0.76
31:JK:139:ARG:HH22	31:JK:142:ARG:HH11	1.31	0.76
22:JB:2004:U:H6	38:JR:25:TRP:HE1	1.34	0.76
22:JB:528:G:N3	40:JT:96:TYR:CG	2.54	0.76
22:JB:528:G:C4'	40:JT:97:VAL:HG22	2.09	0.76
1:AA:663:A:C4'	18:AR:64:ARG:NH1	2.30	0.76
5:AE:80:ILE:HG22	8:AH:138:TRP:CE2	2.20	0.76
5:AE:150:ARG:HD2	8:AH:77:GLU:OE2	1.85	0.76
1:AA:1342:C:O2'	9:AI:123:PRO:O	2.04	0.76
10:AJ:11:PHE:CD1	14:AN:54:PRO:HB2	2.12	0.76
1:AA:1113:C:HO2'	14:AN:57:ARG:HH12	1.33	0.76
13:AM:99:ARG:CZ	19:AS:2:PRO:HB3	2.15	0.76
22:BB:2399:C:P	51:B5:33:ASN:N	2.56	0.76
22:BB:1044:U:C3'	52:B6:16:VAL:HG22	2.09	0.76
22:BB:1044:U:P	52:B6:9:LYS:HG2	2.26	0.76
22:BB:1804:U:H2'	22:BB:1805:G:H8	1.50	0.76
1:AA:1495:U:C4'	22:BB:1895:A:N3	2.49	0.76
22:BB:687:G:H5''	26:BF:69:HIS:O	1.86	0.76
22:BB:818:G:H21	22:BB:844:G:H1'	1.50	0.76
22:BB:1795:C:C4'	24:BD:250:TRP:CZ2	2.69	0.76
24:BD:40:THR:HB	24:BD:61:LEU:HD22	1.68	0.76
35:BO:51:LEU:HD21	35:BO:66:VAL:HG22	1.68	0.76
1:CA:1375:A:OP1	7:CG:12:LEU:HG	1.85	0.76
1:CA:1092:A:H5''	7:CG:4:ARG:HD3	0.76	0.76
1:CA:597:G:H21	8:CH:132:GLU:CG	1.99	0.76
1:CA:1344:C:C4'	9:CI:120:ARG:CB	2.61	0.76
1:CA:275:G:O4'	17:CQ:14:LYS:HB3	1.82	0.76
23:DA:107:C:OP2	43:DW:90:GLU:N	2.19	0.76
22:DB:1175:A:N6	22:DB:1198:C:N3	2.34	0.76
22:DB:503:G:O2'	40:DT:27:VAL:O	2.03	0.76
22:DB:6:A:HO2'	31:DK:161:GLN:CA	1.90	0.76
22:DB:810:U:C5	26:DF:56:ARG:CZ	2.68	0.76
27:DG:70:ALA:HB2	27:DG:85:VAL:HG21	1.66	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:DB:1173:G:H5'	39:DS:23:GLU:O	1.86	0.76
39:DS:93:ILE:HG22	39:DS:94:LYS:H	1.50	0.76
1:EA:242:C:OP1	12:EL:16:GLU:OE2	2.04	0.76
1:EA:641:U:C6	8:EH:116:LYS:HA	1.72	0.76
10:EJ:9:ARG:H	10:EJ:94:VAL:HG13	1.50	0.76
12:EL:67:THR:HB	12:EL:96:VAL:HG13	1.68	0.76
22:FB:2556:A:N1	48:F2:5:PRO:HD2	2.01	0.76
22:FB:2370:G:O6	49:F3:2:ALA:N	2.19	0.76
22:FB:910:U:C4	22:FB:911:A:O4'	2.39	0.76
25:FE:19:ARG:HH22	37:FQ:65:SER:CA	0.73	0.76
22:FB:687:G:H5''	26:FF:70:GLY:C	2.05	0.76
23:FA:8:C:O2'	36:FP:32:TYR:CG	2.23	0.76
1:GA:426:G:H5''	4:GD:45:GLN:OE1	1.85	0.76
3:GC:59:ARG:HA	3:GC:64:VAL:HG13	1.67	0.76
1:GA:35:G:C4	12:GL:117:ARG:O	2.38	0.76
22:HB:872:G:H1'	22:HB:2247:A:C2	2.21	0.76
22:HB:2463:G:C1'	34:HN:47:GLN:CD	2.46	0.76
22:HB:2577:A:OP1	24:HD:236:GLY:CA	2.34	0.76
22:HB:71:A:C1'	45:HY:54:ASN:C	2.54	0.76
28:HH:89:LEU:HA	28:HH:161:GLY:HA2	1.67	0.76
23:HA:93:G:C4'	34:HN:23:LYS:NZ	2.49	0.76
23:HA:52:G:OP2	36:HP:64:LYS:CB	2.31	0.76
22:HB:2334:C:H1'	44:HX:32:LYS:CE	2.12	0.76
2:IB:189:ASP:HB3	2:IB:204:ASN:HA	1.67	0.76
22:JB:2791:C:O4'	48:J2:43:HIS:ND1	2.19	0.76
22:JB:2371:A:OP1	51:J5:29:LYS:HD2	1.86	0.76
22:JB:1265:G:N3	38:JR:32:TYR:CD1	2.54	0.76
22:JB:1762:C:H4'	22:JB:1921:A:H62	1.49	0.76
22:JB:2258:G:C1'	22:JB:2306:A:C1'	2.43	0.76
22:JB:3178:C:O2'	53:J7:39:ILE:CG1	2.34	0.76
22:JB:76:C:H5''	45:JY:56:VAL:CG2	2.15	0.76
22:JB:2490:U:C4'	25:JE:124:GLY:CA	2.64	0.76
39:JS:93:ILE:HG22	39:JS:94:LYS:H	1.50	0.76
22:JB:529:U:C3'	40:JT:39:ARG:NH2	2.48	0.76
1:AA:1298:C:N4	7:AG:115:ARG:CD	2.48	0.75
48:B2:34:PRO:HG2	48:B2:52:TYR:HA	1.67	0.75
22:BB:1041:G:C8	52:B6:6:SER:HB3	2.21	0.75
22:BB:1437:A:C4	22:BB:1438:G:C5	2.74	0.75
22:BB:1148:G:O4'	31:BK:133:GLY:HA3	1.85	0.75
22:BB:2474:G:C5'	34:BN:82:THR:HA	2.16	0.75
1:CA:1306:A:N6	1:CA:1331:G:H1'	2.02	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:523:A:N1	12:CL:90:VAL:C	2.39	0.75
1:CA:588:G:C8	8:CH:2:LEU:N	2.53	0.75
1:CA:488:C:C4'	4:CD:131:ARG:HD3	2.14	0.75
13:CM:81:LEU:HB2	13:CM:92:HIS:CG	2.20	0.75
19:CS:46:GLY:H	19:CS:62:ILE:HG23	1.51	0.75
22:DB:2411:A:N1	47:D1:22:MET:CE	2.49	0.75
22:DB:1437:A:C2'	22:DB:1438:G:C8	2.63	0.75
22:DB:2313:G:O2'	36:DP:15:ARG:CD	2.34	0.75
22:DB:2432:A:H1'	22:DB:2551:A:H1'	1.69	0.75
22:DB:2551:A:N6	25:DE:144:ARG:C	2.39	0.75
22:DB:460:U:H2'	26:DF:78:VAL:HG22	1.64	0.75
22:DB:503:G:H5'	40:DT:30:TYR:OH	1.85	0.75
22:DB:81:C:H5'	22:DB:306:G:O2'	1.85	0.75
22:DB:864:C:C2'	46:DZ:39:ALA:O	2.34	0.75
22:DB:2659:C:O4'	25:DE:187:ALA:HA	1.84	0.75
22:DB:2751:C:H5'	25:DE:202:ALA:HB1	0.76	0.75
25:DE:151:TYR:CE2	31:DK:106:TYR:CD1	2.71	0.75
22:DB:590:C:C5'	38:DR:32:TYR:O	2.32	0.75
22:DB:1006:C:H4'	38:DR:93:LYS:NZ	1.99	0.75
34:DN:99:LYS:CD	43:DW:74:ARG:HB2	2.16	0.75
1:EA:229:U:O2'	16:EP:23:ASP:CB	2.33	0.75
1:EA:18:C:P	5:EE:14:ARG:HH12	2.08	0.75
1:EA:586:C:C2'	8:EH:89:PRO:HG2	2.17	0.75
22:FB:2579:A:H62	24:FD:237:GLU:HG3	1.50	0.75
22:FB:2716:G:O6	22:FB:2749:A:C5	2.39	0.75
22:FB:794:A:H2'	22:FB:1768:U:H1'	1.68	0.75
22:FB:863:C:O2'	46:FZ:43:MET:HG2	1.86	0.75
22:FB:873:U:H3'	22:FB:874:A:H8	1.50	0.75
24:FD:11:PRO:HB2	24:FD:22:SER:HB2	1.67	0.75
25:FE:19:ARG:HG3	37:FQ:84:ALA:HB1	1.66	0.75
22:FB:2542:U:P	32:FL:25:LEU:CD2	2.74	0.75
43:FW:136:VAL:HG13	43:FW:147:ILE:HG12	1.68	0.75
1:GA:1060:C:O2'	10:GJ:56:HIS:HB3	1.86	0.75
1:GA:1319:A:OP1	19:GS:5:LEU:CD2	2.22	0.75
1:GA:967:C:H4'	9:GI:128:ARG:HG2	1.68	0.75
22:HB:157:G:H4'	50:H4:36:ALA:O	1.86	0.75
51:H5:14:ILE:HG21	51:H5:60:LEU:HD23	1.69	0.75
22:HB:1227:A:H61	22:HB:1249:G:H1'	1.49	0.75
22:HB:1805:G:N3	24:HD:52:ARG:HD3	2.00	0.75
22:HB:5:A:C4	22:HB:2873:G:N1	2.52	0.75
25:HE:29:GLY:HA3	25:HE:89:ASP:HB2	1.68	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:IA:8:A:C2'	4:ID:209:ARG:NH1	2.49	0.75
1:IA:686:U:P	11:IK:40:ILE:O	2.44	0.75
19:IS:45:VAL:HG13	19:IS:62:ILE:HG13	1.66	0.75
22:JB:1486:A:H2	22:JB:1535:C:N4	1.83	0.75
22:JB:603:C:O3'	22:JB:604:U:H5'	1.84	0.75
22:JB:71:A:N6	45:JY:58:ALA:CA	2.48	0.75
40:JT:79:ALA:HA	40:JT:83:ASP:HB3	1.67	0.75
43:JW:136:VAL:HG13	43:JW:147:ILE:HG12	1.68	0.75
1:AA:1014:A:C8	19:AS:34:TRP:CZ3	2.74	0.75
1:AA:1229:A:C2	13:AM:125:ARG:HB2	2.20	0.75
1:AA:1320:C:C2	19:AS:72:GLY:CA	2.69	0.75
1:AA:1350:A:H1'	7:AG:33:ASP:CA	2.16	0.75
1:AA:761:G:N2	17:AQ:104:LYS:HA	2.01	0.75
3:AC:132:ARG:HH22	4:AD:47:ARG:HH22	1.34	0.75
22:BB:15:G:P	48:B2:20:ARG:NH1	2.58	0.75
22:BB:187:U:H5'	50:B4:26:SER:CB	2.15	0.75
22:BB:175:C:H4'	22:BB:2222:U:H4'	1.68	0.75
22:BB:2356:A:N3	36:BP:89:PHE:HE2	1.85	0.75
22:BB:332:C:H4'	26:BF:160:ALA:HB2	1.68	0.75
22:BB:418:C:H5'	53:B7:1:MET:HE1	0.82	0.75
22:BB:637:G:H1	33:BM:72:TYR:HE2	1.31	0.75
22:BB:873:U:H3'	22:BB:874:A:H8	1.50	0.75
22:BB:686:C:C2'	26:BF:68:ARG:HH12	2.00	0.75
34:BN:27:TYR:CE2	43:BW:74:ARG:N	2.53	0.75
39:BS:93:ILE:HG22	39:BS:94:LYS:H	1.50	0.75
1:CA:1374:A:HO2'	7:CG:28:ASN:HB3	1.48	0.75
47:D1:49:PHE:H	47:D1:69:ARG:HG3	1.51	0.75
29:DI:26:ARG:NE	47:D1:72:LYS:C	2.40	0.75
23:DA:106:U:H4'	43:DW:88:TYR:CE1	2.11	0.75
22:DB:1788:C:H5''	24:DD:254:THR:HG23	1.66	0.75
22:DB:1804:U:H2'	22:DB:1805:G:H8	1.50	0.75
22:DB:2661:G:N1	25:DE:22:PRO:O	2.19	0.75
38:DR:94:VAL:HG21	39:DS:10:LYS:C	2.05	0.75
22:DB:512:A:C3'	40:DT:15:LYS:NZ	2.47	0.75
1:EA:1306:A:N6	1:EA:1331:G:H1'	2.02	0.75
40:FT:60:ILE:HB	48:F2:25:LEU:HD21	0.76	0.75
22:FB:175:C:H4'	22:FB:2222:U:H4'	1.68	0.75
22:FB:402:A:C6	22:FB:2392:G:H4'	2.22	0.75
22:FB:603:C:N3	22:FB:677:G:C6	2.54	0.75
22:FB:979:A:O3'	46:FZ:13:PRO:C	2.24	0.75
22:FB:2760:G:H22	31:FK:125:ARG:CZ	1.99	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:FB:1266:G:N2	38:FR:37:GLN:CG	2.49	0.75
1:GA:694:A:C4'	11:GK:53:SER:HB2	2.15	0.75
15:GO:6:GLU:HA	15:GO:9:GLN:HE21	1.51	0.75
1:GA:266:G:H5'	17:GQ:66:SER:HB3	1.67	0.75
22:HB:1338:G:H1'	40:HT:117:ILE:HD11	1.66	0.75
22:HB:2486:C:H5''	22:HB:2552:C:N4	2.01	0.75
22:HB:677:G:O2'	22:HB:678:G:O4'	2.03	0.75
22:HB:57:G:C2	22:HB:72:A:C2	2.73	0.75
26:HF:15:ILE:HG13	26:HF:16:GLU:O	1.85	0.75
22:HB:818:G:O3'	33:HM:41:SER:HB3	1.84	0.75
1:IA:1117:G:O4'	9:II:104:ARG:NH2	2.14	0.75
1:IA:608:A:N1	16:IP:31:LYS:HD3	2.01	0.75
33:JM:62:LYS:HD2	51:J5:30:ARG:HD2	1.68	0.75
22:JB:1861:G:C6	53:J7:45:ASP:HB2	2.21	0.75
23:JA:10:U:C4'	36:JP:28:ARG:CZ	2.33	0.75
22:JB:1163:C:C1'	38:JR:77:SER:HG	1.98	0.75
22:JB:1175:A:N3	39:JS:86:HIS:ND1	2.34	0.75
22:JB:1200:G:H5'	39:JS:84:THR:HG21	1.68	0.75
22:JB:1227:A:H61	22:JB:1249:G:H1'	1.49	0.75
22:JB:1762:C:H5'	22:JB:1921:A:N7	2.01	0.75
22:JB:2741:G:C1'	28:JH:143:GLN:NE2	2.49	0.75
22:JB:2570:C:H5	24:JD:237:GLU:HA	1.51	0.75
43:JW:95:SER:H	43:JW:130:ILE:HD13	1.49	0.75
1:AA:1320:C:H42	19:AS:36:ARG:CG	1.99	0.75
1:AA:1392:G:H5'	1:AA:1531:A:C4'	2.16	0.75
1:AA:921:U:O2	5:AE:19:MET:O	2.03	0.75
7:AG:49:ILE:HG23	7:AG:53:LYS:HD3	1.69	0.75
1:AA:323:U:O2'	20:AT:15:ARG:NH1	2.18	0.75
22:BB:1136:G:H8	52:B6:4:ARG:HE	1.34	0.75
22:BB:1040:A:H4'	34:BN:125:LYS:HZ2	1.48	0.75
22:BB:1149:G:H5'	31:BK:55:ALA:HB3	1.66	0.75
22:BB:2600:A:C1'	25:BE:158:GLY:CA	2.55	0.75
22:BB:2726:U:H5''	28:BH:138:LYS:HZ1	1.49	0.75
22:BB:2814:G:C5'	35:BO:46:PRO:CA	2.62	0.75
22:BB:340:G:O5'	22:BB:488:A:H1'	1.85	0.75
22:BB:794:A:H2'	22:BB:1768:U:H1'	1.69	0.75
22:BB:2558:C:H5''	25:BE:132:LYS:CD	2.16	0.75
31:BK:96:ASP:HB3	31:BK:115:ALA:HB1	1.68	0.75
1:CA:1077:G:O6	5:CE:45:PHE:CE2	2.39	0.75
1:CA:1220:G:N3	19:CS:54:GLY:CA	2.49	0.75
1:CA:276:G:N2	17:CQ:68:ARG:NH2	2.14	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:44:G:P	16:CP:12:LYS:HB2	2.26	0.75
7:CG:49:ILE:HG23	7:CG:53:LYS:HD3	1.69	0.75
1:CA:667:G:C1'	15:CO:51:HIS:H	1.98	0.75
53:D7:8:LEU:HD12	53:D7:183:ALA:HB1	1.68	0.75
23:DA:92:G:N3	34:DN:22:ALA:HA	2.00	0.75
22:DB:1583:A:C1'	24:DD:84:TYR:CD1	2.55	0.75
22:DB:175:C:H4'	22:DB:2222:U:H4'	1.68	0.75
25:DE:29:GLY:HA3	25:DE:89:ASP:HB2	1.68	0.75
28:DH:146:ALA:HA	28:DH:149:ARG:HD3	1.69	0.75
32:DL:113:PRO:HG3	37:DQ:75:GLU:C	2.06	0.75
25:DE:18:ASP:OD2	32:DL:85:ASP:C	2.24	0.75
22:DB:827:C:C4	33:DM:32:ARG:NH1	2.53	0.75
33:DM:58:ALA:O	51:D5:12:ARG:CD	2.33	0.75
34:DN:106:GLU:HG2	43:DW:116:VAL:HG22	1.67	0.75
22:DB:546:A:H5''	38:DR:57:PHE:CZ	2.21	0.75
22:DB:917:U:C5'	43:DW:122:ILE:CA	2.48	0.75
1:EA:1206:G:O2'	3:EC:193:TYR:HB2	1.85	0.75
1:EA:521:G:O5'	12:EL:72:GLY:O	2.03	0.75
4:ED:57:ARG:HD2	4:ED:57:ARG:H	1.50	0.75
5:EE:72:GLN:HE22	5:EE:145:LYS:H	1.33	0.75
1:EA:599:C:C4'	8:EH:100:ILE:HD11	2.16	0.75
1:EA:392:G:H4'	16:EP:13:HIS:CD2	2.21	0.75
22:FB:1173:G:OP1	39:FS:24:SER:CA	2.26	0.75
22:FB:2764:U:H5''	25:FE:36:ARG:CZ	2.17	0.75
22:FB:547:U:N3	31:FK:71:THR:HG21	2.00	0.75
32:FL:90:ARG:HE	32:FL:91:PHE:N	1.80	0.75
38:FR:44:THR:HG23	39:FS:77:GLY:N	2.01	0.75
22:FB:1351:G:C4'	41:FU:13:SER:OG	2.35	0.75
43:FW:84:TYR:HB2	43:FW:93:GLU:OE2	1.86	0.75
22:FB:999:A:H3'	46:FZ:9:VAL:CG2	2.16	0.75
16:GP:56:ALA:HA	16:GP:59:TRP:HE1	1.51	0.75
22:HB:2591:C:C2	48:H2:4:HIS:ND1	2.54	0.75
22:HB:642:A:N6	22:HB:2394:G:H21	1.84	0.75
22:HB:2646:C:C6	28:HH:109:TYR:CD2	2.52	0.75
22:HB:1725:C:O2'	22:HB:2835:A:H1'	1.87	0.75
22:HB:873:U:H3'	22:HB:874:A:H8	1.50	0.75
22:HB:1072:U:O4	30:HJ:54:PRO:HB3	1.85	0.75
1:IA:925:G:H1'	1:IA:1502:A:H1'	1.68	0.75
1:IA:511:C:P	4:ID:43:HIS:HD1	2.08	0.75
3:IC:23:TYR:HE2	10:IJ:93:GLY:C	1.83	0.75
22:JB:3171:A:C8	53:J7:101:LYS:HB3	2.15	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:JA:30:C:P	36:JP:34:SER:HB2	2.26	0.75
22:JB:2365:U:H4'	44:JX:38:VAL:CB	2.13	0.75
22:JB:2503:G:N2	22:JB:2721:A:H1'	2.01	0.75
22:JB:73:A:OP1	45:JY:51:ALA:CB	2.34	0.75
22:JB:873:U:H3'	22:JB:874:A:H8	1.50	0.75
22:JB:2638:G:C8	28:JH:179:THR:CA	2.69	0.75
22:JB:1204:G:OP1	33:JM:37:GLN:CD	2.23	0.75
42:JV:35:LYS:HD3	42:JV:36:VAL:HG23	1.69	0.75
1:AA:663:A:H5''	18:AR:64:ARG:HH11	1.47	0.75
1:AA:509:A:N9	4:AD:54:TYR:CD2	2.55	0.75
5:AE:72:GLN:HE22	5:AE:145:LYS:H	1.34	0.75
7:AG:103:TRP:HE1	7:AG:137:LYS:HB2	1.51	0.75
1:AA:948:C:OP2	13:AM:108:ARG:HG3	1.85	0.75
22:BB:3093:C:H1'	22:BB:2181:A:H61	1.51	0.75
22:BB:2771:C:C2	22:BB:2781:G:N2	2.53	0.75
32:BL:83:ARG:CD	37:BQ:83:PHE:CD2	2.65	0.75
22:BB:1238:A:H5'	39:BS:73:LYS:O	1.86	0.75
23:BA:96:C:P	43:BW:14:LEU:CB	2.69	0.75
1:CA:815:A:C6	1:CA:1529:G:N9	2.54	0.75
1:CA:815:A:H1'	1:CA:1529:G:H1	1.49	0.75
1:CA:1073:U:O2'	2:CB:107:THR:OG1	1.65	0.75
22:DB:1416:A:C5'	22:DB:1485:U:H1'	2.16	0.75
22:DB:2615:U:O3'	25:DE:79:ARG:HD2	1.86	0.75
22:DB:506:G:P	40:DT:21:ARG:HB2	2.26	0.75
25:DE:144:ARG:H	25:DE:144:ARG:NE	1.83	0.75
22:DB:627:A:C5'	26:DF:100:ARG:NH1	2.48	0.75
27:DG:38:GLU:N	27:DG:87:ILE:HG12	1.97	0.75
22:DB:227:G:O5'	33:DM:55:ARG:NH2	2.00	0.75
34:DN:66:TYR:HE2	43:DW:118:HIS:HE1	0.92	0.75
22:DB:1050:G:H4'	43:DW:37:LYS:HZ3	0.63	0.75
22:DB:2343:C:C4'	44:DX:38:VAL:O	2.33	0.75
1:EA:1187:G:C2'	9:EI:111:ARG:NH2	2.50	0.75
14:EN:41:ARG:HA	14:EN:44:LEU:HD22	1.69	0.75
3:EC:6:HIS:HB3	14:EN:49:HIS:CD2	2.18	0.75
40:FT:40:LEU:HD12	48:F2:20:ARG:CD	2.15	0.75
22:FB:2351:G:H4'	49:F3:47:HIS:NE2	2.00	0.75
23:FA:65:A:H2'	23:FA:66:G:H8	1.52	0.75
22:FB:1008:G:P	38:FR:92:ARG:HB3	2.26	0.75
22:FB:1504:G:C2	24:FD:99:ASP:CA	2.69	0.75
22:FB:2810:A:H8	37:FQ:6:LYS:HG3	0.62	0.75
25:FE:144:ARG:H	25:FE:144:ARG:NE	1.83	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:GA:1195:C:H3'	1:GA:1196:U:H5'	1.68	0.75
1:GA:9:G:H5''	5:GE:104:ALA:HB3	1.60	0.75
1:GA:17:U:C5'	5:GE:14:ARG:CD	2.61	0.75
1:GA:1398:A:N7	5:GE:22:GLY:N	2.31	0.75
5:GE:154:GLY:OXT	8:GH:67:PRO:HD3	1.86	0.75
48:H2:34:PRO:HG2	48:H2:52:TYR:HA	1.67	0.75
22:HB:1005:U:O4	22:HB:1171:A:N6	2.19	0.75
22:HB:2577:A:H5''	24:HD:235:GLY:CA	2.15	0.75
22:HB:498:C:C2	40:HT:74:SER:HA	2.22	0.75
22:HB:74:G:H22	22:HB:110:U:H3	1.35	0.75
25:HE:1:MET:H2	25:HE:199:ARG:HH12	1.32	0.75
22:HB:673:G:H5'	26:HF:93:TYR:HD1	1.46	0.75
22:HB:638:A:N7	33:HM:109:LEU:HD21	2.00	0.75
33:HM:63:ARG:HD3	51:H5:8:LYS:HD3	1.69	0.75
32:HL:91:PHE:CG	37:HQ:79:ARG:HD2	2.20	0.75
22:HB:506:G:C5'	40:HT:82:ASN:O	2.34	0.75
1:IA:1187:G:H1'	9:II:113:LYS:CG	2.10	0.75
1:IA:237:C:H5'	17:IQ:27:PHE:CZ	2.22	0.75
22:JB:74:G:H22	22:JB:110:U:H3	1.35	0.75
22:JB:1379:A:OP1	47:J1:1:MET:HE1	1.75	0.75
22:JB:1629:G:H4'	50:J4:3:ARG:CB	2.16	0.75
22:JB:1804:U:H2'	22:JB:1805:G:H8	1.50	0.75
22:JB:2260:C:C3'	22:JB:2261:G:P	2.74	0.75
22:JB:3171:A:C8	53:J7:101:LYS:HB2	2.20	0.75
22:JB:857:U:OP1	22:JB:858:G:N7	2.20	0.75
22:JB:687:G:C5'	26:JF:70:GLY:O	2.35	0.75
22:JB:2850:U:N3	37:JQ:14:ARG:NH2	2.34	0.75
1:AA:1231:G:N3	13:AM:126:LYS:CG	2.49	0.75
1:AA:1391:U:O2'	1:AA:1531:A:O2'	1.95	0.75
1:AA:15:G:N2	1:AA:1080:A:O3'	2.19	0.75
1:AA:620:C:HO2'	4:AD:138:TYR:HD1	1.30	0.75
7:AG:29:LYS:HE2	7:AG:29:LYS:HA	1.68	0.75
1:AA:1092:A:H5'	7:AG:4:ARG:CD	2.11	0.75
1:AA:527:G:O6	12:AL:91:LYS:CB	2.33	0.75
22:BB:1007:A:O3'	38:BR:93:LYS:HG2	1.86	0.75
22:BB:1237:G:C4'	39:BS:87:ARG:CB	2.63	0.75
22:BB:1441:A:C6	22:BB:1587:A:OP2	2.39	0.75
22:BB:1831:G:O4'	22:BB:1910:A:H5'	1.87	0.75
22:BB:2725:C:O2	28:BH:139:GLN:O	2.05	0.75
22:BB:541:C:N4	22:BB:572:G:C8	2.54	0.75
22:BB:683:A:OP2	33:BM:46:GLY:CA	2.35	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BE:195:LEU:CB	37:BQ:2:GLN:N	2.48	0.75
1:CA:125:U:H5''	1:CA:605:U:O2'	1.86	0.75
1:CA:739:C:O2	15:CO:46:HIS:CD2	2.39	0.75
1:CA:1375:A:OP1	7:CG:28:ASN:ND2	2.19	0.75
1:CA:827:U:H4'	8:CH:21:LYS:HD3	1.67	0.75
51:D5:14:ILE:HG21	51:D5:60:LEU:HD23	1.69	0.75
22:DB:794:A:H2'	22:DB:1768:U:H1'	1.69	0.75
22:DB:872:G:O2'	22:DB:2247:A:H2	1.58	0.75
22:DB:2726:U:O2	28:DH:71:LEU:HD21	1.86	0.75
22:DB:864:C:O2'	46:DZ:39:ALA:O	2.05	0.75
22:DB:934:G:C1'	44:DX:23:VAL:CG2	2.45	0.75
27:DG:100:LEU:HA	27:DG:103:LEU:HB2	1.69	0.75
34:DN:61:ARG:N	43:DW:112:LEU:CD2	2.48	0.75
22:DB:1173:G:H1'	39:DS:22:VAL:HG13	1.67	0.75
22:DB:887:G:O5'	43:DW:167:THR:HB	1.86	0.75
1:EA:1021:G:H4'	27:JG:179:LYS:CB	2.16	0.75
1:EA:1240:U:O4	7:EG:119:ARG:CZ	2.35	0.75
1:EA:599:C:H5'	8:EH:100:ILE:HG13	1.69	0.75
22:FB:1627:C:O2'	50:F4:6:GLN:OE1	2.02	0.75
53:F7:206:LYS:HA	53:F7:213:VAL:HG23	1.68	0.75
23:FA:92:G:N2	34:FN:22:ALA:C	2.39	0.75
22:FB:677:G:H2'	22:FB:678:G:C8	2.22	0.75
25:FE:29:GLY:HA3	25:FE:89:ASP:HB2	1.68	0.75
22:FB:1300:A:C4	35:FO:103:ARG:HD3	2.21	0.75
22:FB:1630:A:H61	40:FT:109:ARG:CA	1.99	0.75
22:FB:347:C:C1'	42:FV:10:HIS:CE1	2.69	0.75
1:GA:255:G:P	17:GQ:65:ILE:CG2	2.75	0.75
12:GL:67:THR:HB	12:GL:96:VAL:HG13	1.68	0.75
13:GM:82:MET:SD	13:GM:92:HIS:CG	2.79	0.75
47:H1:49:PHE:H	47:H1:69:ARG:HG3	1.51	0.75
22:HB:1261:G:H8	38:HR:2:PRO:CA	2.00	0.75
22:HB:1437:A:H2'	22:HB:1438:G:H8	1.47	0.75
22:HB:1746:A:OP2	37:HQ:124:VAL:HG21	1.72	0.75
22:HB:3875:A:N3	53:H7:43:LYS:CA	2.50	0.75
22:HB:3876:A:C5	53:H7:44:GLY:CA	2.69	0.75
22:HB:71:A:H5'	45:HY:54:ASN:CB	2.16	0.75
22:HB:763:A:C5	40:HT:111:ARG:NH1	2.29	0.75
22:HB:1075:C:P	30:HJ:84:ILE:HD12	2.27	0.75
22:HB:2373:C:OP1	33:HM:62:LYS:O	2.04	0.75
22:HB:494:A:N9	42:HV:56:LYS:CB	2.46	0.75
1:IA:1195:C:H3'	1:IA:1196:U:H5'	1.68	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:IA:1392:G:O4'	1:IA:1531:A:H5''	1.86	0.75
1:IA:1517:G:H1'	22:JB:1902:A:O3'	1.85	0.75
1:IA:1074:G:P	5:IE:60:TYR:HE2	2.09	0.75
14:IN:25:VAL:HG13	14:IN:26:ARG:H	1.49	0.75
22:JB:2262:C:H5'	49:J3:9:ILE:HD12	1.67	0.75
53:J7:206:LYS:HA	53:J7:213:VAL:HG23	1.69	0.75
22:JB:3167:U:C4'	53:J7:97:LYS:NZ	2.48	0.75
22:JB:1166:A:O5'	38:JR:55:ARG:NH1	1.71	0.75
22:JB:2240:C:C5'	22:JB:2366:U:C2'	2.65	0.75
22:JB:423:G:N2	22:JB:2386:G:N3	2.35	0.75
22:JB:66:U:C4	22:JB:87:G:N1	2.55	0.75
22:JB:455:A:N7	26:JF:39:ARG:HG2	2.00	0.75
22:JB:1149:G:OP1	31:JK:130:ALA:HA	1.86	0.75
22:JB:1217:U:O2	33:JM:14:LYS:NZ	2.19	0.75
35:JO:21:ALA:HA	35:JO:24:GLN:HB3	1.69	0.75
22:JB:1263:G:H4'	38:JR:6:THR:HG21	1.67	0.75
1:AA:624:C:O3'	16:AP:10:GLY:CA	2.33	0.75
1:AA:254:G:C8	17:AQ:16:GLN:O	2.40	0.75
22:BB:1377:G:C8	47:B1:3:LYS:HG2	2.21	0.75
47:B1:49:PHE:H	47:B1:69:ARG:HG3	1.51	0.75
22:BB:2753:C:H4'	25:BE:163:GLU:HB3	1.68	0.75
22:BB:2760:G:O2'	31:BK:149:LYS:HG2	1.85	0.75
25:BE:119:ARG:HG2	25:BE:155:ARG:HB3	1.67	0.75
22:BB:2658:A:O2'	25:BE:187:ALA:HB1	1.86	0.75
27:BG:100:LEU:HA	27:BG:103:LEU:HB2	1.69	0.75
33:BM:58:ALA:HB1	51:B5:9:MET:HG2	1.67	0.75
22:BB:319:G:P	40:BT:12:LYS:HB3	2.27	0.75
22:BB:888:G:N9	43:BW:165:GLU:CG	2.49	0.75
22:BB:2365:U:C2	44:BX:37:LEU:HD21	2.21	0.75
1:CA:1279:A:OP1	10:CJ:99:LYS:NZ	2.19	0.75
5:CE:140:ARG:NH2	8:CH:72:PRO:HD2	2.01	0.75
15:CO:29:VAL:HG13	15:CO:32:LEU:HD12	1.69	0.75
22:DB:2040:A:H1'	48:D2:3:LYS:C	2.06	0.75
23:DA:59:A:O4'	27:DG:24:SER:OG	2.02	0.75
22:DB:1290:A:H1'	35:DO:24:GLN:C	2.06	0.75
22:DB:1453:A:HO3'	22:DB:1454:U:P	2.08	0.75
22:DB:1805:G:C2	24:DD:51:SER:HB3	2.22	0.75
22:DB:2510:A:N6	22:DB:2641:A:H61	1.83	0.75
22:DB:862:A:H1'	46:DZ:21:GLN:HE22	1.51	0.75
25:DE:119:ARG:HG2	25:DE:155:ARG:HB3	1.67	0.75
22:DB:2786:G:H5'	25:DE:59:VAL:HA	1.66	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:DA:78:A:H5'	43:DW:31:SER:OG	1.87	0.75
1:EA:407:G:H1'	4:ED:116:GLN:CD	2.05	0.75
1:EA:958:A:H2	19:ES:55:LYS:CB	1.77	0.75
1:EA:438:G:C5'	4:ED:125:HIS:NE2	2.48	0.75
1:EA:279:A:C2'	17:EQ:95:TYR:HA	2.16	0.75
47:F1:49:PHE:H	47:F1:69:ARG:HG3	1.51	0.75
53:F7:8:LEU:HD12	53:F7:183:ALA:HB1	1.68	0.75
22:FB:1234:C:O3'	39:FS:68:LYS:HD3	1.87	0.75
22:FB:1586:A:N6	22:FB:1587:A:H2	1.83	0.75
22:FB:2040:A:C2'	48:F2:3:LYS:HB2	2.15	0.75
22:FB:2411:A:C4	47:F1:28:ARG:O	2.39	0.75
22:FB:2669:C:H3'	35:FO:17:ARG:NH2	2.02	0.75
22:FB:3125:G:OP1	53:F7:26:PHE:CE2	2.40	0.75
22:FB:2661:G:O4'	25:FE:11:MET:SD	2.43	0.75
27:FG:38:GLU:N	27:FG:87:ILE:HG12	1.97	0.75
30:FJ:18:THR:HG23	30:FJ:19:PRO:HD3	1.68	0.75
31:FK:96:ASP:HB3	31:FK:115:ALA:HB1	1.67	0.75
22:FB:828:C:C5'	39:FS:86:HIS:HE1	1.94	0.75
22:FB:497:C:O2'	40:FT:80:LEU:CD1	2.34	0.75
22:FB:2364:C:C2'	44:FX:37:LEU:HD11	2.10	0.75
22:FB:980:G:H5'	46:FZ:12:ARG:O	1.85	0.75
1:GA:1249:C:H2'	9:GI:69:GLY:HA2	1.68	0.75
1:GA:1320:C:C1'	19:GS:73:GLU:HB3	2.17	0.75
1:GA:331:G:OP2	20:GT:10:LEU:HG	1.85	0.75
1:GA:438:G:H5'	4:GD:123:HIS:CE1	2.21	0.75
1:GA:621:A:OP1	4:GD:139:ARG:CZ	2.34	0.75
7:GG:153:HIS:ND1	11:GK:59:TYR:HE1	1.84	0.75
13:GM:97:PRO:HG3	13:GM:107:ALA:HB1	1.69	0.75
10:GJ:64:GLU:C	14:GN:56:VAL:HG13	1.95	0.75
22:HB:3172:U:OP2	53:H7:105:ARG:CZ	2.34	0.75
22:HB:3166:G:O6	53:H7:98:ARG:NH2	2.20	0.75
1:GA:1475:G:H5''	22:HB:1706:A:H4'	1.68	0.75
22:HB:2627:G:H21	32:HL:39:GLY:HA3	1.50	0.75
1:IA:1186:G:O4'	9:II:110:GLU:CD	2.24	0.75
1:IA:1190:G:OP1	3:IC:4:LYS:HB3	1.86	0.75
1:EA:1263:C:H4'	1:IA:1263:C:H4'	1.69	0.75
7:IG:22:LEU:HD12	7:IG:22:LEU:H	1.52	0.75
1:IA:1290:G:H4'	7:IG:35:LYS:HZ2	1.52	0.75
1:IA:1117:G:C4'	9:II:104:ARG:NH2	2.50	0.75
15:IO:89:GLY:C	22:JB:730:C:N4	2.39	0.75
17:IQ:53:LEU:HD12	17:IQ:85:VAL:HG21	1.69	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:IT:84:LEU:HD23	20:IT:87:LYS:HD2	1.69	0.75
49:J3:11:LYS:HB2	49:J3:11:LYS:HZ3	1.51	0.75
22:JB:839:U:H5''	22:JB:2407:G:C3'	2.17	0.75
22:JB:2490:U:O2	25:JE:138:PRO:O	2.05	0.75
22:JB:2517:C:H1'	52:J6:2:LYS:CB	2.06	0.75
22:JB:2552:C:OP1	22:JB:2554:C:P	2.44	0.75
22:JB:60:A:OP1	45:JY:44:ARG:CB	2.23	0.75
22:JB:76:C:H5''	45:JY:56:VAL:CB	2.16	0.75
22:JB:1001:A:H5''	46:JZ:27:LYS:CE	2.15	0.75
1:AA:1250:A:H1'	1:AA:1370:G:H4'	1.67	0.75
1:AA:639:G:H2'	1:AA:640:A:H8	1.52	0.75
3:AC:77:ILE:HD12	3:AC:84:ILE:HD12	1.69	0.75
10:AJ:63:PHE:HA	14:AN:58:LYS:HA	1.67	0.75
1:AA:761:G:H21	17:AQ:104:LYS:CA	1.99	0.75
1:AA:1320:C:N4	19:AS:36:ARG:HG3	2.01	0.75
22:BB:177:U:O4'	47:B1:31:ILE:HB	1.87	0.75
22:BB:1238:A:C5'	39:BS:73:LYS:O	2.35	0.75
22:BB:1675:C:OP2	25:BE:134:TRP:CZ3	2.39	0.75
22:BB:2814:G:H5'	35:BO:46:PRO:CA	2.15	0.75
22:BB:79:G:H1'	22:BB:356:A:H2	1.50	0.75
22:BB:7:G:H5'	31:BK:161:GLN:HE22	0.95	0.75
22:BB:857:U:O4	22:BB:943:U:C4	2.40	0.75
22:BB:8:A:O2'	31:BK:36:ASN:O	2.04	0.75
22:BB:2760:G:H22	31:BK:150:VAL:HG13	1.43	0.75
22:BB:2813:G:O2'	35:BO:45:ARG:HG2	1.86	0.75
3:CC:77:ILE:HD12	3:CC:84:ILE:HD12	1.69	0.75
13:CM:88:ARG:HH22	13:CM:99:ARG:HD2	1.49	0.75
22:DB:176:A:N9	47:D1:30:GLU:HB2	1.99	0.75
22:DB:1673:C:C1'	25:DE:136:ARG:NH2	2.49	0.75
25:DE:95:ILE:HD13	25:DE:95:ILE:H	1.52	0.75
1:EA:1349:A:N1	7:EG:33:ASP:O	2.20	0.75
1:EA:377:G:H5'	16:EP:5:ARG:HH12	1.48	0.75
1:EA:523:A:N1	12:EL:90:VAL:CG2	2.49	0.75
6:EF:99:ALA:HB2	18:ER:31:LEU:HG	1.69	0.75
7:EG:49:ILE:HG23	7:EG:53:LYS:HD3	1.69	0.75
22:FB:2040:A:C2	48:F2:2:ALA:HA	2.20	0.75
22:FB:2262:C:H5'	49:F3:3:LYS:HZ3	1.49	0.75
22:FB:1265:G:H4'	38:FR:32:TYR:CD1	2.18	0.75
22:FB:1411:C:H3'	22:FB:1412:C:C5	2.21	0.75
22:FB:680:U:P	33:FM:48:PHE:HA	2.27	0.75
25:FE:119:ARG:HG2	25:FE:155:ARG:HB3	1.67	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:FE:51:TYR:OH	37:FQ:3:THR:OG1	2.03	0.75
25:FE:95:ILE:HD13	25:FE:95:ILE:H	1.52	0.75
27:FG:70:ALA:HB2	27:FG:85:VAL:HG21	1.66	0.75
33:FM:56:LEU:HD23	33:FM:57:ILE:H	1.48	0.75
22:FB:2461:G:N1	34:FN:54:VAL:HG12	2.02	0.75
1:GA:1250:A:OP1	9:GI:67:GLY:HA2	1.87	0.75
3:GC:18:TRP:HE1	14:GN:53:LEU:H	1.31	0.75
7:GG:103:TRP:HE1	7:GG:137:LYS:HB2	1.51	0.75
1:AA:182:U:H5	20:GT:106:ALA:O	1.69	0.75
22:HB:1804:U:H2'	22:HB:1805:G:H8	1.50	0.75
22:HB:1809:G:H5''	24:HD:157:ARG:NH1	2.01	0.75
22:HB:2328:G:H3'	51:H5:42:ARG:CD	2.09	0.75
22:HB:510:G:H2'	40:HT:16:GLN:HE22	1.48	0.75
25:HE:119:ARG:HG2	25:HE:155:ARG:HB3	1.67	0.75
31:HK:139:ARG:HH22	31:HK:142:ARG:HH11	1.31	0.75
22:HB:1041:G:C5'	34:HN:119:PHE:CZ	2.68	0.75
22:HB:2463:G:C5'	34:HN:44:LYS:HZ2	1.95	0.75
22:HB:2357:A:H5'	36:HP:26:ARG:NE	1.99	0.75
34:HN:66:TYR:HB2	43:HW:115:ILE:CG2	2.17	0.75
5:IE:72:GLN:HE22	5:IE:145:LYS:H	1.34	0.75
1:IA:589:C:H4'	8:IH:30:ARG:H	1.52	0.75
11:IK:20:TYR:HB2	11:IK:31:THR:HB	1.69	0.75
1:IA:375:U:H5''	16:IP:6:LEU:HD22	1.67	0.75
22:JB:1004:A:H1'	22:JB:1173:G:N2	1.97	0.75
26:JF:17:LEU:HD22	26:JF:105:ALA:HB2	1.69	0.75
23:JA:9:G:C4'	36:JP:32:TYR:OH	2.34	0.75
22:JB:2309:G:O2'	44:JX:36:ILE:HD13	1.86	0.75
1:AA:274:A:C1'	17:AQ:15:MET:CG	2.63	0.75
1:AA:668:G:N2	15:AO:46:HIS:HE1	1.84	0.75
5:AE:80:ILE:HD13	8:AH:138:TRP:CZ3	2.22	0.75
13:AM:97:PRO:HG3	13:AM:107:ALA:HB1	1.69	0.75
51:B5:14:ILE:HG21	51:B5:60:LEU:HD23	1.68	0.75
22:BB:1109:A:O3'	30:BJ:7:ILE:HD13	1.81	0.75
22:BB:1136:G:C8	52:B6:4:ARG:HB3	2.22	0.75
22:BB:1535:C:N4	22:BB:1536:G:H21	1.83	0.75
22:BB:1:G:H22	22:BB:2877:A:N6	1.84	0.75
22:BB:2557:G:O2'	25:BE:133:LYS:HG3	1.87	0.75
22:BB:511:A:C2	40:BT:12:LYS:C	2.33	0.75
1:CA:639:G:H2'	1:CA:640:A:H8	1.52	0.75
1:CA:720:C:C5'	18:CR:52:PRO:CG	2.64	0.75
22:DB:419:G:OP2	53:D7:197:GLU:CG	2.34	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:DA:9:G:C5'	36:DP:32:TYR:CE1	2.70	0.75
22:DB:1681:A:C2	32:DL:79:HIS:NE2	2.51	0.75
22:DB:1888:C:C5'	22:DB:1889:G:O5'	2.30	0.75
22:DB:2796:A:OP2	25:DE:191:ALA:CB	2.34	0.75
22:DB:547:U:O2'	31:DK:32:TYR:CA	2.34	0.75
22:DB:625:A:C2	26:DF:176:ASN:CG	2.59	0.75
23:DA:10:U:H4'	36:DP:28:ARG:NH1	2.01	0.75
25:DE:19:ARG:CD	37:DQ:65:SER:N	2.39	0.75
23:DA:105:G:O2'	43:DW:91:PRO:CB	2.35	0.75
1:EA:1382:C:H5'	7:EG:79:ARG:HD2	1.67	0.75
1:EA:22:G:O2'	1:EA:913:A:N1	2.20	0.75
4:ED:102:ASP:HB2	4:ED:118:ARG:HD3	1.69	0.75
1:EA:827:U:C4'	8:EH:19:VAL:HG21	2.16	0.75
1:EA:667:G:H4'	15:EO:51:HIS:HD1	1.48	0.75
48:F2:34:PRO:HG2	48:F2:52:TYR:HA	1.67	0.75
22:FB:1637:U:O2	50:F4:2:LYS:NZ	2.19	0.75
22:FB:1948:C:H41	22:FB:2571:G:C1'	1.99	0.75
22:FB:2039:G:N3	48:F2:3:LYS:O	2.18	0.75
22:FB:2701:A:C5	22:FB:2848:A:C6	2.75	0.75
22:FB:64:C:H3'	41:FU:70:GLY:N	2.02	0.75
25:FE:72:VAL:HG22	25:FE:73:ALA:H	1.50	0.75
22:FB:2620:G:H5'	31:FK:102:ARG:NH1	2.02	0.75
22:FB:2542:U:P	32:FL:25:LEU:HD23	2.27	0.75
22:FB:573:C:HO2'	38:FR:37:GLN:NE2	1.76	0.75
22:FB:94:C:O2'	45:FY:35:GLY:O	2.00	0.75
1:GA:1126:U:H5'	1:GA:1280:A:H2'	1.68	0.75
1:GA:15:G:C1'	5:GE:17:ALA:CB	2.65	0.75
1:GA:409:G:OP2	4:GD:22:LYS:NZ	2.18	0.75
1:GA:918:A:H2	1:GA:1079:G:N2	1.85	0.75
1:GA:1378:C:H5''	7:GG:6:ARG:NH2	2.01	0.75
15:GO:29:VAL:HG13	15:GO:32:LEU:HD12	1.69	0.75
22:HB:317:U:O2'	22:HB:1224:A:OP2	2.01	0.75
22:HB:1668:G:OP1	35:HO:11:ASN:CB	2.35	0.75
22:HB:2063:A:P	47:H1:32:HIS:CD2	2.79	0.75
13:GM:93:ARG:HH12	22:HB:900:U:C5'	2.00	0.75
22:HB:2616:U:H1'	25:HE:42:ASP:OD1	1.87	0.75
27:HG:132:ILE:HG13	27:HG:153:ASP:HA	1.69	0.75
34:HN:68:ARG:CZ	43:HW:117:VAL:CG2	2.57	0.75
44:HX:44:LYS:HB3	44:HX:76:ALA:HA	1.69	0.75
1:IA:1409:C:P	22:JB:1899:A:N1	2.60	0.75
1:IA:752:G:P	15:IO:69:TYR:OH	2.45	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:IO:6:GLU:HA	15:IO:9:GLN:HE21	1.52	0.75
16:IP:56:ALA:HA	16:IP:59:TRP:HE1	1.51	0.75
6:IF:89:MET:HE2	18:IR:76:LEU:HD21	1.67	0.75
19:IS:46:GLY:H	19:IS:62:ILE:HG23	1.52	0.75
22:JB:218:A:P	51:J5:63:PRO:CB	2.75	0.75
22:JB:3167:U:C4	53:J7:101:LYS:HG3	2.21	0.75
22:JB:2003:A:H5''	48:J2:9:LYS:HZ1	1.52	0.75
22:JB:2371:A:C5'	51:J5:29:LYS:HD2	2.15	0.75
22:JB:3178:C:H1'	53:J7:161:ASP:HA	1.66	0.75
22:JB:58:C:P	41:JU:75:ARG:CZ	2.75	0.75
25:JE:144:ARG:NE	25:JE:144:ARG:H	1.83	0.75
22:JB:1197:U:C5'	46:JZ:26:ARG:HH21	1.86	0.75
1:AA:509:A:O5'	4:AD:54:TYR:CB	2.33	0.75
7:AG:22:LEU:HD12	7:AG:22:LEU:H	1.52	0.75
20:AT:100:ILE:HA	1:GA:179:A:C4	2.20	0.75
22:BB:115:G:P	22:BB:118:U:OP1	2.45	0.75
22:BB:2769:C:C2	22:BB:2867:G:N3	2.54	0.75
28:BH:146:ALA:HA	28:BH:149:ARG:HD3	1.69	0.75
22:BB:2446:C:O2'	34:BN:116:LYS:NZ	2.20	0.75
34:BN:36:ILE:O	43:BW:74:ARG:CZ	2.35	0.75
44:BX:44:LYS:HB3	44:BX:76:ALA:HA	1.69	0.75
1:CA:227:G:N2	16:CP:62:VAL:CA	2.50	0.75
1:CA:273:A:H2	17:CQ:16:GLN:N	1.81	0.75
1:CA:403:C:OP1	4:CD:137:SER:CB	2.34	0.75
1:CA:7:G:O6	5:CE:92:LYS:CG	2.35	0.75
6:CF:48:LEU:CD2	18:CR:78:LEU:N	2.49	0.75
1:CA:674:G:C5'	6:CF:50:TYR:OH	2.27	0.75
1:CA:1225:A:C5'	13:CM:104:ARG:H	2.00	0.75
13:CM:97:PRO:HG3	13:CM:107:ALA:HB1	1.69	0.75
13:CM:72:ALA:CB	27:DG:112:ARG:HG2	2.16	0.75
1:CA:332:G:OP1	20:CT:8:ARG:O	2.05	0.75
23:DA:65:A:H2'	23:DA:66:G:H8	1.52	0.75
22:DB:2022:C:O3'	31:DK:132:PHE:HD2	1.69	0.75
22:DB:2725:C:O2	28:DH:139:GLN:HG3	1.87	0.75
22:DB:697:G:H2'	22:DB:801:A:H61	1.51	0.75
22:DB:916:U:C1'	43:DW:163:ASP:C	2.54	0.75
22:DB:2661:G:N7	25:DE:11:MET:N	2.35	0.75
22:DB:548:G:C2'	31:DK:33:ILE:HG22	2.17	0.75
32:DL:91:PHE:CB	37:DQ:79:ARG:HD2	2.15	0.75
22:DB:1163:C:O3'	38:DR:80:ILE:HG12	1.86	0.75
44:DX:44:LYS:HB3	44:DX:76:ALA:HA	1.69	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:EC:18:TRP:HE1	14:EN:52:GLN:C	1.90	0.75
12:EL:16:GLU:CD	12:EL:19:ARG:NH2	2.39	0.75
1:EA:130:A:H61	17:EQ:64:PRO:HD3	1.47	0.75
17:EQ:53:LEU:HD12	17:EQ:85:VAL:HG21	1.69	0.75
49:F3:24:THR:HG23	51:F5:35:GLY:CA	2.16	0.75
24:FD:154:GLN:HE21	24:FD:155:LEU:N	1.85	0.75
24:FD:40:THR:HB	24:FD:61:LEU:HD22	1.68	0.75
22:FB:2598:C:H5''	25:FE:152:LYS:HE3	1.68	0.75
1:GA:1159:U:H1'	1:GA:1160:G:N7	2.02	0.75
1:GA:1131:G:H5''	9:GI:2:GLU:CB	2.17	0.75
14:GN:41:ARG:HA	14:GN:44:LEU:HD22	1.69	0.75
22:HB:1828:C:C1'	22:HB:1912:G:OP1	2.35	0.75
24:HD:40:THR:HB	24:HD:61:LEU:HD22	1.68	0.75
26:HF:17:LEU:HD22	26:HF:105:ALA:HB2	1.69	0.75
22:HB:3188:U:P	29:HI:20:VAL:HG12	2.23	0.75
22:HB:636:G:N2	33:HM:97:ARG:NH2	2.35	0.75
35:HO:21:ALA:HA	35:HO:24:GLN:HB3	1.69	0.75
43:HW:25:ASN:HB2	43:HW:28:ASN:HB3	1.69	0.75
1:IA:1306:A:N6	1:IA:1331:G:H1'	2.01	0.75
1:IA:1359:C:H5''	14:IN:31:ARG:CD	2.17	0.75
1:IA:1196:U:OP2	1:IA:1397:C:N3	2.20	0.75
1:IA:1463:C:C5'	37:JQ:117:ILE:HG12	2.17	0.75
1:IA:618:C:H2'	1:IA:620:C:H41	1.52	0.75
1:IA:1114:C:C2	14:IN:61:TRP:CA	2.70	0.75
47:J1:49:PHE:H	47:J1:69:ARG:HG3	1.51	0.75
22:JB:2073:A:N1	47:J1:42:PHE:CE1	2.54	0.75
22:JB:576:A:H5''	33:JM:40:ARG:HH11	1.44	0.75
22:JB:685:U:O2'	26:JF:73:SER:O	2.05	0.75
22:JB:73:A:OP1	45:JY:48:ARG:HD3	1.86	0.75
22:JB:592:G:C4'	38:JR:5:LYS:HE2	2.17	0.75
43:JW:43:PHE:HB2	43:JW:119:ASN:OD1	1.86	0.75
1:AA:1457:A:H5''	20:AT:27:LYS:HG3	1.66	0.74
1:AA:895:G:O2'	17:AQ:100:LYS:HE3	1.87	0.74
22:BB:1381:G:P	50:B4:25:LYS:HG3	2.26	0.74
22:BB:2364:C:C1'	44:BX:69:PHE:HZ	2.00	0.74
22:BB:51:A:C2	22:BB:155:G:H1'	2.21	0.74
22:BB:697:G:H2'	22:BB:801:A:H61	1.51	0.74
22:BB:6:A:H1'	31:BK:163:PRO:HD3	1.69	0.74
22:BB:2599:U:C2	25:BE:157:ALA:O	2.40	0.74
27:BG:38:GLU:N	27:BG:87:ILE:HG12	1.97	0.74
22:BB:1072:U:C4	30:BJ:54:PRO:HB3	2.21	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:BB:613:A:N1	33:BM:97:ARG:HD2	2.00	0.74
1:CA:1343:G:O2'	9:CI:121:ARG:HA	1.87	0.74
1:CA:644:G:N9	8:CH:92:ARG:HD3	2.02	0.74
1:CA:7:G:H3'	5:CE:119:LEU:HD22	1.69	0.74
1:CA:559:A:N1	5:CE:126:ARG:HG3	2.02	0.74
29:DI:26:ARG:CG	47:D1:73:LYS:C	2.50	0.74
22:DB:1044:U:C5	52:D6:16:VAL:HG22	2.22	0.74
53:D7:200:LEU:HD22	53:D7:201:ARG:H	1.50	0.74
22:DB:1017:C:C2	31:DK:56:THR:CG2	2.70	0.74
22:DB:2062:U:O2'	47:D1:32:HIS:CD2	2.40	0.74
22:DB:2760:G:H4'	31:DK:149:LYS:CE	1.96	0.74
22:DB:590:C:H5''	38:DR:32:TYR:CB	2.17	0.74
24:DD:254:THR:HG22	24:DD:256:GLY:H	1.52	0.74
41:DU:11:VAL:HG11	41:DU:26:SER:HB2	1.68	0.74
1:EA:186:C:C4'	20:ET:81:LYS:CD	2.64	0.74
3:EC:39:ILE:HG22	3:EC:43:LEU:HD23	1.65	0.74
7:EG:29:LYS:HE2	7:EG:29:LYS:HA	1.69	0.74
1:EA:111:G:OP1	16:EP:27:LYS:CE	2.34	0.74
19:ES:46:GLY:H	19:ES:62:ILE:HG23	1.52	0.74
22:FB:231:G:O6	51:F5:4:MET:CG	2.15	0.74
22:FB:1043:A:H5''	52:F6:23:VAL:CG2	2.16	0.74
22:FB:1235:C:OP1	39:FS:68:LYS:CA	2.35	0.74
22:FB:1236:G:O6	39:FS:71:ILE:HD13	1.86	0.74
22:FB:2576:G:OP1	24:FD:239:ARG:NH1	2.20	0.74
22:FB:2617:G:OP2	25:FE:81:PHE:HZ	1.70	0.74
22:FB:2738:A:C4	28:FH:64:LEU:HD13	2.22	0.74
22:FB:2:G:C2	22:FB:2875:C:O2	2.40	0.74
22:FB:409:G:C5'	47:F1:10:VAL:CG1	2.57	0.74
22:FB:487:G:N2	22:FB:491:A:H62	1.85	0.74
38:FR:88:ILE:C	39:FS:51:ALA:HB3	2.07	0.74
22:FB:863:C:N3	46:FZ:39:ALA:O	2.20	0.74
1:GA:132:C:C5'	20:GT:74:LYS:CE	2.65	0.74
2:GB:22:LYS:HB2	2:GB:39:ILE:HG12	1.69	0.74
9:GI:11:LYS:HA	9:GI:104:ARG:HH21	1.51	0.74
10:GJ:51:ARG:N	14:GN:45:ARG:HD2	2.00	0.74
22:HB:3172:U:OP1	53:H7:105:ARG:NH1	2.19	0.74
22:HB:1469:U:O2'	35:HO:76:VAL:HG21	1.87	0.74
22:HB:3875:A:C2	53:H7:43:LYS:CA	2.63	0.74
22:HB:51:A:C5	22:HB:116:A:C2	2.75	0.74
22:HB:697:G:H2'	22:HB:801:A:H61	1.51	0.74
22:HB:1806:G:C5'	24:HD:52:ARG:NH1	2.49	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:HM:70:THR:HG23	33:HM:71:THR:H	1.50	0.74
22:HB:1006:C:H5	39:HS:11:GLN:HE21	1.32	0.74
22:HB:574:C:C5'	39:HS:82:ARG:HH22	2.00	0.74
7:IG:103:TRP:HE1	7:IG:137:LYS:HB2	1.51	0.74
9:II:65:VAL:HG21	9:II:73:GLN:HB3	1.68	0.74
1:IA:636:U:C5'	17:IQ:5:VAL:HG23	2.17	0.74
1:IA:1320:C:O3'	19:IS:3:ARG:CZ	2.34	0.74
22:JB:2411:A:C2	47:J1:30:GLU:CB	2.66	0.74
48:J2:34:PRO:HG2	48:J2:52:TYR:HA	1.67	0.74
22:JB:475:U:C5'	50:J4:5:TYR:CD1	2.70	0.74
22:JB:1477:C:O2'	22:JB:2681:A:H1'	1.86	0.74
22:JB:950:G:H22	22:JB:1205:G:H4'	1.52	0.74
26:JF:115:GLY:H	26:JF:185:ARG:HG3	1.52	0.74
27:JG:132:ILE:HG13	27:JG:153:ASP:HA	1.69	0.74
43:JW:51:LEU:CD2	43:JW:128:ARG:CD	2.65	0.74
44:JX:43:THR:HB	44:JX:66:LYS:N	2.03	0.74
22:JB:979:A:C4'	46:JZ:13:PRO:HB3	2.14	0.74
1:AA:1382:C:H4'	7:AG:79:ARG:CD	2.16	0.74
1:AA:227:G:H21	16:AP:62:VAL:HG12	1.50	0.74
1:AA:720:C:H4'	18:AR:52:PRO:HG3	1.69	0.74
22:BB:2861:A:O4'	48:B2:34:PRO:HA	1.87	0.74
22:BB:1091:C:C4'	30:BJ:125:ASN:C	2.56	0.74
22:BB:2558:C:H5''	25:BE:132:LYS:HD3	1.67	0.74
22:BB:887:G:H1'	43:BW:166:LEU:C	2.07	0.74
22:BB:887:G:H4'	43:BW:148:THR:CG2	2.16	0.74
22:BB:677:G:C4'	22:BB:951:G:C5'	2.66	0.74
22:BB:1808:C:O3'	24:BD:63:ARG:HD3	1.83	0.74
25:BE:27:LEU:HG	25:BE:182:ILE:HD12	1.69	0.74
25:BE:29:GLY:HA3	25:BE:89:ASP:HB2	1.68	0.74
22:BB:648:A:OP2	33:BM:128:ALA:HA	1.87	0.74
22:BB:227:G:C1'	33:BM:55:ARG:HH21	1.96	0.74
22:BB:2463:G:H5'	34:BN:47:GLN:HA	1.65	0.74
1:CA:1195:C:H3'	1:CA:1196:U:H5'	1.68	0.74
1:CA:1225:A:C5'	13:CM:104:ARG:N	2.50	0.74
1:CA:349:A:O2'	20:CT:8:ARG:CZ	2.35	0.74
7:CG:103:TRP:HE1	7:CG:137:LYS:HB2	1.51	0.74
11:CK:81:ASP:HA	11:CK:106:LYS:HB2	1.68	0.74
1:CA:953:G:H22	13:CM:120:LYS:HG3	1.12	0.74
22:DB:469:G:C5	50:D4:40:HIS:HD2	2.05	0.74
22:DB:1261:G:C2	38:DR:3:ARG:NH2	2.55	0.74
22:DB:1290:A:H4'	35:DO:24:GLN:HG2	1.69	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:DB:1535:C:N4	22:DB:1536:G:H21	1.83	0.74
22:DB:1887:G:H22	22:DB:1912:G:H4'	1.49	0.74
24:DD:154:GLN:HE21	24:DD:155:LEU:N	1.85	0.74
25:DE:17:ASN:O	37:DQ:87:LEU:HD13	1.47	0.74
30:DJ:18:THR:HG23	30:DJ:19:PRO:HD3	1.69	0.74
22:DB:1293:A:P	35:DO:33:ARG:NE	2.60	0.74
22:DB:2249:U:H5'	44:DX:18:PRO:HD2	1.61	0.74
1:EA:1073:U:C1'	2:EB:107:THR:HG21	2.15	0.74
4:ED:31:CYS:HB3	4:ED:33:MET:HG2	1.69	0.74
13:EM:97:PRO:HD3	13:EM:110:ARG:HD3	1.68	0.74
51:F5:35:GLY:H	51:F5:36:LYS:HZ3	1.33	0.74
22:FB:113:C:O2'	22:FB:125:A:C5'	2.35	0.74
22:FB:1172:U:C4'	39:FS:8:GLY:HA2	2.16	0.74
22:FB:1203:A:H5''	33:FM:35:LYS:C	2.07	0.74
1:EA:1517:G:C8	22:FB:1903:C:O5'	2.40	0.74
22:FB:2240:C:C4'	22:FB:2366:U:H2'	2.07	0.74
22:FB:697:G:H2'	22:FB:801:A:H61	1.51	0.74
22:FB:1674:C:OP2	25:FE:134:TRP:HD1	1.69	0.74
23:FA:118:G:P	36:FP:53:ALA:H	2.09	0.74
1:GA:1202:G:C5	10:GJ:54:PHE:HE1	2.05	0.74
1:CA:1273:G:C5'	1:GA:1265:G:H5''	2.17	0.74
1:GA:1306:A:N6	1:GA:1331:G:H1'	2.01	0.74
1:GA:192:U:H5''	20:GT:56:MET:HE1	1.66	0.74
1:GA:618:C:H2'	1:GA:620:C:H41	1.53	0.74
1:GA:824:C:O2	8:GH:2:LEU:HB3	1.86	0.74
22:HB:847:C:H5'	51:H5:55:TRP:HH2	0.76	0.74
22:HB:950:G:H22	22:HB:1205:G:H4'	1.52	0.74
22:HB:1338:G:N1	40:HT:107:ILE:O	2.18	0.74
22:HB:156:G:O3'	22:HB:157:G:P	2.45	0.74
22:HB:922:A:N3	22:HB:2244:C:H5'	2.02	0.74
22:HB:603:C:C5	22:HB:604:U:C4	2.76	0.74
22:HB:644:A:O2'	22:HB:2383:C:P	2.45	0.74
22:HB:2558:C:C2'	25:HE:132:LYS:HD3	2.15	0.74
26:HF:115:GLY:H	26:HF:185:ARG:HG3	1.52	0.74
22:HB:2541:U:H4'	32:HL:23:ARG:HE	1.51	0.74
1:IA:1126:U:H5'	1:IA:1280:A:H2'	1.68	0.74
1:IA:1379:G:O6	7:IG:2:ALA:HB3	1.87	0.74
29:JI:46:LEU:HD12	53:J7:216:LYS:HZ3	1.46	0.74
22:JB:1828:C:C1'	22:JB:1912:G:OP1	2.34	0.74
22:JB:3197:U:O2'	22:JB:2181:A:OP1	2.05	0.74
22:JB:873:U:H6	22:JB:2247:A:OP1	1.69	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:JB:3170:A:O2'	53:J7:131:ARG:CZ	2.34	0.74
22:JB:3178:C:C6	53:J7:161:ASP:O	2.39	0.74
22:JB:697:G:H2'	22:JB:801:A:H61	1.51	0.74
22:JB:2557:G:H1'	25:JE:133:LYS:HD3	1.67	0.74
22:JB:2638:G:O6	28:JH:180:GLY:HA3	1.87	0.74
31:JK:96:ASP:HB3	31:JK:115:ALA:HB1	1.68	0.74
1:AA:1202:G:C2	14:AN:42:ILE:HG21	2.22	0.74
2:AB:22:LYS:HB2	2:AB:39:ILE:HG12	1.69	0.74
13:AM:82:MET:O	13:AM:89:GLY:HA3	1.86	0.74
1:AA:1360:A:H5'	14:AN:35:ARG:HH21	1.51	0.74
1:AA:1320:C:H1'	19:AS:72:GLY:C	2.06	0.74
22:BB:2029:G:H5'	48:B2:19:ARG:HD2	1.68	0.74
22:BB:2265:A:C6	49:B3:38:LYS:NZ	2.51	0.74
22:BB:1631:C:C2	40:BT:108:PRO:CD	2.63	0.74
22:BB:1861:G:C2	53:B7:199:ASN:CG	2.61	0.74
24:BD:157:ARG:HD2	24:BD:202:LYS:HZ1	1.52	0.74
22:BB:2786:G:C5'	25:BE:59:VAL:HG13	2.18	0.74
25:BE:95:ILE:H	25:BE:95:ILE:HD13	1.52	0.74
35:BO:10:LEU:HD21	35:BO:14:SER:HA	1.69	0.74
35:BO:21:ALA:HA	35:BO:24:GLN:HB3	1.69	0.74
22:BB:1996:A:H4'	40:BT:117:ILE:HA	1.68	0.74
22:BB:490:A:H2'	42:BV:3:ARG:NH1	2.00	0.74
42:BV:48:VAL:HG13	42:BV:50:GLY:H	1.52	0.74
4:CD:102:ASP:HB2	4:CD:118:ARG:HD3	1.69	0.74
6:CF:48:LEU:CD2	18:CR:76:LEU:O	2.35	0.74
22:DB:1401:G:N2	22:DB:1413:U:O2	2.20	0.74
22:DB:1681:A:H2	32:DL:79:HIS:HE2	1.34	0.74
22:DB:699:G:C8	50:D4:5:TYR:O	2.39	0.74
15:CO:89:GLY:N	22:DB:729:A:P	2.53	0.74
22:DB:1583:A:N9	24:DD:84:TYR:HD1	1.67	0.74
25:DE:17:ASN:O	37:DQ:87:LEU:CD1	2.13	0.74
25:DE:72:VAL:HG22	25:DE:73:ALA:H	1.50	0.74
26:DF:125:ILE:HG13	26:DF:126:ALA:H	1.52	0.74
22:DB:1150:C:H5''	31:DK:51:LEU:O	1.87	0.74
31:DK:48:GLY:HA2	31:DK:87:GLN:HG2	1.69	0.74
1:EA:1195:C:H3'	1:EA:1196:U:H5'	1.68	0.74
1:EA:1313:U:O5'	19:ES:6:LYS:CG	2.34	0.74
1:EA:1373:G:O3'	7:EG:31:MET:HE1	1.87	0.74
1:EA:1100:C:H41	2:EB:144:ARG:HH22	0.78	0.74
9:EI:111:ARG:HD2	14:EN:61:TRP:O	1.87	0.74
22:FB:1265:G:OP1	38:FR:36:PHE:HD1	1.67	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:FB:2238:G:C8	44:FX:12:ASN:OD1	2.41	0.74
22:FB:2239:C:O2	22:FB:2367:A:O2'	2.06	0.74
22:FB:2745:A:H5'	22:FB:2746:G:P	2.27	0.74
22:FB:2856:U:C4'	35:FO:93:GLY:HA3	2.17	0.74
22:FB:337:G:H21	42:FV:10:HIS:CA	1.96	0.74
22:FB:457:C:OP1	38:FR:3:ARG:HG2	1.87	0.74
22:FB:2540:A:O2'	32:FL:23:ARG:CD	2.35	0.74
33:FM:63:ARG:NH1	51:F5:12:ARG:HD3	2.02	0.74
25:FE:176:ARG:CD	37:FQ:20:HIS:NE2	2.50	0.74
22:FB:2811:G:H5''	37:FQ:4:HIS:NE2	2.02	0.74
22:FB:1264:C:HO2'	38:FR:36:PHE:HE1	0.79	0.74
1:GA:255:G:C5'	17:GQ:45:HIS:CE1	2.64	0.74
1:GA:255:G:N3	17:GQ:16:GLN:NE2	2.34	0.74
1:GA:1379:G:OP2	7:GG:6:ARG:CZ	2.35	0.74
1:GA:1202:G:C5	10:GJ:54:PHE:CE1	2.76	0.74
1:GA:36:C:C5'	12:GL:122:THR:OG1	2.35	0.74
22:HB:2310:G:H5''	44:HX:71:ASN:C	2.05	0.74
22:HB:2310:G:H5'	44:HX:71:ASN:CG	2.07	0.74
22:HB:2671:C:O2	22:HB:2822:U:C4'	2.35	0.74
22:HB:51:A:C1'	22:HB:155:G:N2	2.50	0.74
22:HB:648:A:OP1	33:HM:131:LYS:NZ	2.19	0.74
24:HD:154:GLN:HE21	24:HD:155:LEU:N	1.85	0.74
22:HB:1816:G:N3	24:HD:252:LYS:CD	2.50	0.74
25:HE:106:GLY:HA3	25:HE:189:PRO:HB2	1.70	0.74
30:HJ:18:THR:HG23	30:HJ:19:PRO:HD3	1.69	0.74
34:HN:63:GLY:HA3	43:HW:112:LEU:HD22	1.67	0.74
22:HB:514:G:C6	40:HT:14:ARG:HG2	2.22	0.74
22:HB:941:U:H4'	46:HZ:24:GLY:CA	2.16	0.74
1:IA:1393:U:H2'	1:IA:1394:A:P	2.16	0.74
4:ID:102:ASP:HB2	4:ID:118:ARG:HD3	1.69	0.74
22:JB:2073:A:H2	47:J1:58:LYS:HZ2	1.33	0.74
22:JB:2261:G:C5'	49:J3:3:LYS:NZ	2.50	0.74
28:JH:146:ALA:HA	28:JH:149:ARG:HD3	1.69	0.74
22:JB:235:C:H5'	33:JM:102:LYS:HB2	1.68	0.74
22:JB:647:G:C2	33:JM:109:LEU:HD11	2.22	0.74
37:JQ:33:VAL:HG13	37:JQ:96:ARG:HB3	1.70	0.74
43:JW:86:VAL:HG12	43:JW:91:PRO:C	2.08	0.74
44:JX:44:LYS:HB3	44:JX:76:ALA:HA	1.69	0.74
1:AA:1231:G:C2	13:AM:126:LYS:HG2	2.22	0.74
3:AC:61:ALA:HB2	10:AJ:95:GLU:CA	2.13	0.74
7:AG:24:THR:HA	7:AG:27:ILE:HD12	1.69	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:520:A:P	12:AL:50:SER:C	2.61	0.74
19:AS:46:GLY:H	19:AS:62:ILE:HG23	1.52	0.74
22:BB:3122:U:O4'	53:B7:162:GLN:HG2	1.86	0.74
22:BB:742:G:OP1	24:BD:18:THR:C	2.26	0.74
24:BD:11:PRO:HB2	24:BD:22:SER:HB2	1.67	0.74
25:BE:106:GLY:HA3	25:BE:189:PRO:HB2	1.70	0.74
25:BE:72:VAL:HG22	25:BE:73:ALA:H	1.51	0.74
41:BU:11:VAL:HG11	41:BU:26:SER:HB2	1.68	0.74
42:BV:35:LYS:HD3	42:BV:36:VAL:HG23	1.69	0.74
34:BN:106:GLU:HB3	43:BW:113:VAL:HG22	0.74	0.74
1:CA:1250:A:H1'	1:CA:1370:G:H4'	1.67	0.74
1:CA:958:A:N3	19:CS:56:GLN:NE2	2.35	0.74
1:CA:588:G:OP2	8:CH:1:MET:SD	2.45	0.74
1:CA:1148:U:C5'	9:CI:16:ARG:HE	1.95	0.74
9:CI:65:VAL:HG21	9:CI:73:GLN:HB3	1.68	0.74
10:CJ:9:ARG:H	10:CJ:94:VAL:HG13	1.50	0.74
16:CP:56:ALA:HA	16:CP:59:TRP:HE1	1.51	0.74
17:CQ:53:LEU:HD12	17:CQ:85:VAL:HG21	1.69	0.74
22:DB:124:A:C8	50:D4:18:PHE:CD1	2.76	0.74
22:DB:2494:C:O3'	31:DK:108:GLY:C	2.25	0.74
22:DB:476:G:N2	22:DB:808:C:H1'	2.01	0.74
22:DB:2599:U:H2'	25:DE:158:GLY:HA3	1.69	0.74
22:DB:1142:G:N2	31:DK:103:TYR:HD2	1.82	0.74
22:DB:1173:G:H4'	39:DS:23:GLU:CA	2.17	0.74
23:DA:78:A:H5'	43:DW:31:SER:CB	2.17	0.74
22:DB:868:U:N1	44:DX:25:LYS:HD3	2.01	0.74
1:EA:928:G:C3'	1:EA:1533:C:H41	1.99	0.74
1:EA:613:C:H5'	4:ED:86:LYS:HE3	0.77	0.74
1:EA:639:G:N2	8:EH:128:GLY:HA3	2.02	0.74
3:EC:14:ILE:CD1	14:EN:57:ARG:HH11	1.97	0.74
15:EO:6:GLU:HA	15:EO:9:GLN:HE21	1.52	0.74
22:FB:1044:U:OP1	52:F6:16:VAL:CG1	2.35	0.74
22:FB:1535:C:N4	22:FB:1536:G:H21	1.83	0.74
22:FB:2701:A:C5	22:FB:2848:A:C5	2.74	0.74
22:FB:3177:C:H5''	53:F7:35:THR:HG22	1.68	0.74
22:FB:718:A:OP2	22:FB:738:G:O6	2.04	0.74
25:FE:27:LEU:HG	25:FE:182:ILE:HD12	1.69	0.74
32:FL:91:PHE:CZ	37:FQ:79:ARG:HG3	2.22	0.74
38:FR:44:THR:HA	39:FS:76:SER:C	2.07	0.74
41:FU:11:VAL:HG11	41:FU:26:SER:HB2	1.68	0.74
42:FV:35:LYS:HD3	42:FV:36:VAL:HG23	1.69	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:FX:44:LYS:HB3	44:FX:76:ALA:HA	1.69	0.74
1:GA:1495:U:C1'	22:HB:1895:A:C2	2.70	0.74
1:GA:750:G:O2'	15:GO:23:GLY:HA3	1.87	0.74
7:GG:49:ILE:HG23	7:GG:53:LYS:HD3	1.69	0.74
13:GM:6:GLY:CA	27:HG:110:ARG:NH2	2.14	0.74
22:HB:1373:G:C3'	47:H1:52:THR:HG23	1.86	0.74
22:HB:1668:G:P	35:HO:11:ASN:HD21	2.10	0.74
22:HB:1996:A:O2'	40:HT:116:ILE:CB	2.34	0.74
22:HB:504:G:H4'	40:HT:25:PHE:CB	2.17	0.74
22:HB:637:G:N2	33:HM:74:VAL:HA	2.02	0.74
22:HB:741:G:O3'	24:HD:17:THR:O	2.06	0.74
24:HD:254:THR:HG22	24:HD:256:GLY:H	1.53	0.74
22:HB:1804:U:C2	24:HD:46:ARG:HB3	2.17	0.74
25:HE:19:ARG:HD2	37:HQ:87:LEU:CD1	2.17	0.74
22:HB:2760:G:O2'	31:HK:149:LYS:CG	2.35	0.74
32:HL:23:ARG:HH21	32:HL:24:VAL:H	1.36	0.74
34:HN:63:GLY:CA	43:HW:111:GLY:CA	2.65	0.74
32:HL:83:ARG:CD	37:HQ:83:PHE:CD2	2.67	0.74
1:IA:1100:C:N1	2:IB:98:LEU:HD21	2.02	0.74
1:IA:1517:G:C1'	22:JB:1902:A:O2'	2.34	0.74
12:IL:11:VAL:CA	17:IQ:34:LYS:HD2	2.16	0.74
1:IA:1115:C:O5'	14:IN:61:TRP:CB	2.23	0.74
22:JB:1378:A:OP2	47:J1:3:LYS:CE	2.35	0.74
22:JB:1455:C:O3'	22:JB:1644:G:H5'	1.86	0.74
22:JB:175:C:H4'	22:JB:2222:U:H4'	1.68	0.74
22:JB:2303:C:H1'	22:JB:2316:G:H4'	1.69	0.74
22:JB:2685:A:H4'	35:JO:64:ARG:HH22	0.94	0.74
22:JB:3167:U:O2	53:J7:101:LYS:CE	2.32	0.74
1:AA:1195:C:H3'	1:AA:1196:U:H5'	1.68	0.74
1:AA:265:G:H1'	17:AQ:65:ILE:N	2.01	0.74
1:AA:720:C:H5'	18:AR:52:PRO:HG3	1.69	0.74
13:AM:97:PRO:HD3	13:AM:110:ARG:HD3	1.67	0.74
17:AQ:53:LEU:HD12	17:AQ:85:VAL:HG21	1.69	0.74
1:AA:265:G:C1'	17:AQ:64:PRO:C	2.55	0.74
23:BA:44:C:N3	27:BG:90:THR:OG1	2.20	0.74
22:BB:1235:C:OP1	39:BS:69:ILE:N	2.21	0.74
22:BB:2597:G:O2'	25:BE:150:VAL:CG2	2.34	0.74
24:BD:254:THR:HG22	24:BD:256:GLY:H	1.53	0.74
22:BB:2856:U:H5'	35:BO:94:TYR:HA	1.70	0.74
1:CA:1344:C:C5'	9:CI:120:ARG:HG2	2.17	0.74
1:CA:940:C:C4'	7:CG:29:LYS:HZ3	1.99	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:403:C:O2'	4:CD:122:ARG:HD2	1.87	0.74
5:CE:72:GLN:HE22	5:CE:145:LYS:H	1.34	0.74
1:CA:710:G:OP1	6:CF:54:LYS:CD	2.36	0.74
1:CA:529:G:H22	12:CL:49:ASN:HB3	1.51	0.74
1:CA:1215:G:C5'	14:CN:3:ARG:HH22	1.96	0.74
14:CN:41:ARG:HA	14:CN:44:LEU:HD22	1.69	0.74
22:DB:1583:A:N6	24:DD:89:SER:CB	2.50	0.74
22:DB:1807:A:C5'	24:DD:88:ARG:NH2	2.51	0.74
22:DB:2615:U:C2'	25:DE:79:ARG:CD	2.64	0.74
22:DB:886:A:C4'	43:DW:118:HIS:CE1	2.70	0.74
22:DB:1508:G:OP1	24:DD:100:GLY:C	2.26	0.74
1:EA:864:A:O3'	1:EA:1078:U:C2	2.41	0.74
1:EA:1126:U:H5'	1:EA:1280:A:H2'	1.68	0.74
1:EA:243:A:HO2'	17:EQ:100:LYS:CG	1.90	0.74
1:EA:589:C:O3'	8:EH:31:PHE:N	2.16	0.74
16:EP:66:PRO:HB2	16:EP:70:ALA:HB3	1.69	0.74
1:EA:1318:A:C4'	19:ES:10:PHE:HD1	1.78	0.74
22:FB:2264:C:O5'	49:F3:28:ARG:HG2	1.88	0.74
22:FB:1007:A:C4'	38:FR:93:LYS:H	2.01	0.74
22:FB:1912:G:C3'	22:FB:1913:G:P	2.75	0.74
22:FB:2290:A:C2	27:FG:40:LEU:HD12	2.21	0.74
22:FB:2325:A:H2	49:F3:26:LYS:N	1.73	0.74
22:FB:476:G:N2	22:FB:808:C:H1'	2.01	0.74
22:FB:53:G:O2'	50:F4:35:ARG:HD2	1.88	0.74
22:FB:74:G:H22	22:FB:110:U:H3	1.34	0.74
22:FB:2599:U:H1'	25:FE:156:MET:O	1.87	0.74
25:FE:18:ASP:OD1	32:FL:85:ASP:HB2	1.87	0.74
22:FB:968:C:OP1	34:FN:75:VAL:HG11	1.88	0.74
32:FL:132:GLU:HG2	37:FQ:75:GLU:CB	2.18	0.74
37:FQ:33:VAL:HG13	37:FQ:96:ARG:HB3	1.70	0.74
22:FB:458:G:P	38:FR:5:LYS:HZ2	2.10	0.74
22:FB:980:G:O5'	46:FZ:13:PRO:HA	1.87	0.74
1:GA:107:G:H1	20:GT:14:LYS:CB	1.96	0.74
22:HB:2062:U:H4'	47:H1:32:HIS:HE1	0.93	0.74
22:HB:175:C:H4'	22:HB:2222:U:H4'	1.68	0.74
22:HB:2303:C:H1'	22:HB:2316:G:H4'	1.70	0.74
22:HB:2365:U:H4'	44:HX:37:LEU:HD12	1.69	0.74
22:HB:2398:U:H5''	51:H5:33:ASN:N	2.02	0.74
22:HB:2448:A:C1'	34:HN:57:ARG:HD2	1.81	0.74
22:HB:2859:U:C2	48:H2:34:PRO:HB2	2.23	0.74
22:HB:1805:G:H2'	24:HD:52:ARG:NH1	2.03	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:HE:27:LEU:HG	25:HE:182:ILE:HD12	1.69	0.74
22:HB:763:A:N6	40:HT:111:ARG:CZ	2.50	0.74
1:IA:1159:U:H1'	1:IA:1160:G:N7	2.02	0.74
22:JB:1020:A:H4'	38:JR:62:ILE:CD1	2.12	0.74
22:JB:1139:A:C6	22:JB:2470:U:O4	2.40	0.74
22:JB:1760:G:O2'	22:JB:1941:C:OP1	2.05	0.74
22:JB:1780:A:OP1	24:JD:222:ARG:CA	2.34	0.74
24:JD:254:THR:HG22	24:JD:256:GLY:H	1.52	0.74
22:JB:672:C:O3'	26:JF:93:TYR:CA	2.34	0.74
30:JJ:18:THR:HG23	30:JJ:19:PRO:HD3	1.69	0.74
1:AA:1221:G:C3'	19:AS:77:THR:OG1	2.36	0.74
1:AA:236:G:O2'	17:AQ:25:ARG:NH1	2.20	0.74
1:AA:666:G:H21	15:AO:49:ASP:C	1.90	0.74
1:AA:740:U:H1'	15:AO:42:HIS:CD2	2.22	0.74
2:AB:68:ILE:HD12	2:AB:90:MET:HG3	1.69	0.74
10:AJ:47:PHE:HE2	14:AN:37:PHE:CE2	2.05	0.74
22:BB:219:G:C5	51:B5:2:PRO:HA	2.22	0.74
23:BA:65:A:H2'	23:BA:66:G:H8	1.52	0.74
22:BB:1141:U:H2'	31:BK:107:GLN:HE21	1.49	0.74
22:BB:1395:A:H5'	22:BB:1588:A:H61	1.53	0.74
22:BB:1437:A:H61	22:BB:1439:G:N2	1.83	0.74
22:BB:1954:A:N7	24:BD:239:ARG:CA	2.46	0.74
22:BB:1040:A:H1'	22:BB:2465:G:H5'	1.68	0.74
22:BB:2617:G:H2'	22:BB:2617:G:N3	2.03	0.74
22:BB:476:G:N2	22:BB:808:C:H1'	2.01	0.74
22:BB:940:G:H2'	46:BZ:22:ALA:O	1.87	0.74
26:BF:125:ILE:HG13	26:BF:126:ALA:H	1.52	0.74
27:BG:132:ILE:HG13	27:BG:153:ASP:HA	1.69	0.74
1:CA:1126:U:H5'	1:CA:1280:A:H2'	1.68	0.74
1:CA:922:G:H1'	5:CE:20:GLN:O	1.88	0.74
7:CG:24:THR:HA	7:CG:27:ILE:HD12	1.69	0.74
13:CM:87:TYR:CG	13:CM:91:ARG:CG	2.71	0.74
13:CM:88:ARG:NH2	13:CM:99:ARG:CD	2.49	0.74
48:D2:34:PRO:HG2	48:D2:52:TYR:HA	1.67	0.74
22:DB:1017:C:C1'	31:DK:56:THR:HG22	1.93	0.74
22:DB:1241:G:OP2	38:DR:16:LYS:NZ	2.18	0.74
22:DB:1307:U:O3'	35:DO:71:HIS:HD2	1.69	0.74
22:DB:2003:A:N6	48:D2:9:LYS:CE	2.40	0.74
22:DB:2704:U:C3'	22:DB:2705:A:P	2.75	0.74
22:DB:644:A:C5'	33:DM:70:THR:HG21	2.16	0.74
22:DB:2491:C:H5''	25:DE:120:TRP:CD1	2.21	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:DB:2856:U:C4'	35:DO:93:GLY:C	2.36	0.74
22:DB:506:G:H5''	40:DT:21:ARG:HG3	1.68	0.74
22:DB:529:U:C4'	40:DT:39:ARG:HH21	2.01	0.74
42:DV:48:VAL:HG13	42:DV:50:GLY:H	1.52	0.74
1:EA:188:C:H42	20:ET:105:SER:CB	1.96	0.74
1:EA:278:G:N2	17:EQ:96:GLN:NE2	0.74	0.74
7:EG:103:TRP:HE1	7:EG:137:LYS:HB2	1.51	0.74
22:FB:2039:G:H22	48:F2:2:ALA:HA	1.52	0.74
22:FB:2240:C:H5'	22:FB:2367:A:O5'	1.87	0.74
22:FB:538:A:N7	31:FK:142:ARG:NH1	2.36	0.74
22:FB:1021:A:H5''	38:FR:66:ASN:OD1	1.85	0.74
22:FB:1996:A:C4'	40:FT:109:ARG:HH22	1.99	0.74
1:GA:264:U:O2'	17:GQ:63:ARG:C	2.24	0.74
2:GB:53:ARG:CZ	8:GH:68:ARG:NH1	2.51	0.74
19:GS:46:GLY:H	19:GS:62:ILE:HG23	1.52	0.74
22:HB:1636:G:H4'	50:H4:1:MET:CE	2.17	0.74
33:HM:67:ASN:CG	51:H5:11:LYS:HZ1	1.91	0.74
22:HB:2398:U:O4	51:H5:31:HIS:CG	2.40	0.74
22:HB:1261:G:C3'	38:HR:3:ARG:H	2.01	0.74
22:HB:1861:G:C8	53:H7:199:ASN:CB	2.70	0.74
22:HB:2525:U:O2'	22:HB:2545:A:N3	2.20	0.74
22:HB:2806:G:OP2	25:HE:57:ARG:HG2	1.86	0.74
22:HB:673:G:C5'	26:HF:93:TYR:CE1	2.57	0.74
27:HG:38:GLU:N	27:HG:87:ILE:HG12	1.97	0.74
31:HK:48:GLY:HA2	31:HK:87:GLN:HG2	1.68	0.74
44:HX:32:LYS:HA	44:HX:66:LYS:HZ1	1.52	0.74
1:IA:946:A:C5'	13:IM:114:ARG:HH21	1.99	0.74
1:IA:953:G:N3	13:IM:125:ARG:HA	2.02	0.74
11:IK:81:ASP:HA	11:IK:106:LYS:HB2	1.68	0.74
23:JA:65:A:H2'	23:JA:66:G:H8	1.52	0.74
22:JB:1363:C:O2'	22:JB:1588:A:C1'	2.34	0.74
22:JB:594:G:H5'	26:JF:75:PRO:HB3	1.67	0.74
22:JB:760:U:H4'	40:JT:110:ALA:CB	2.15	0.74
25:JE:95:ILE:H	25:JE:95:ILE:HD13	1.52	0.74
22:JB:592:G:C2	26:JF:78:VAL:HB	2.21	0.74
35:JO:10:LEU:HD21	35:JO:14:SER:HA	1.69	0.74
38:JR:87:ASN:ND2	39:JS:50:ASP:CB	2.44	0.74
1:AA:1126:U:H5'	1:AA:1280:A:H2'	1.68	0.74
10:AJ:9:ARG:H	10:AJ:94:VAL:HG13	1.50	0.74
15:AO:6:GLU:HA	15:AO:9:GLN:HE21	1.51	0.74
1:AA:375:U:O2'	16:AP:28:ARG:NH2	2.21	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:BB:51:A:N1	22:BB:116:A:C2	2.55	0.74
22:BB:1479:G:N2	22:BB:1543:G:N2	2.35	0.74
25:BE:23:VAL:HB	25:BE:184:VAL:HG23	1.68	0.74
22:BB:2613:A:O2'	25:BE:77:ILE:HD12	1.88	0.74
26:BF:17:LEU:HD22	26:BF:105:ALA:HB2	1.69	0.74
1:AA:1471:G:H5'	32:BL:17:ARG:NH1	2.03	0.74
43:BW:25:ASN:HB2	43:BW:28:ASN:HB3	1.69	0.74
1:CA:1230:C:C4	13:CM:125:ARG:O	2.40	0.74
13:CM:87:TYR:CA	13:CM:90:LEU:CA	2.55	0.74
15:CO:6:GLU:HA	15:CO:9:GLN:HE21	1.52	0.74
1:CA:275:G:N3	17:CQ:15:MET:HE1	2.01	0.74
23:DA:29:C:OP1	36:DP:36:LYS:CG	2.36	0.74
22:DB:1149:G:O5'	31:DK:55:ALA:HB3	1.85	0.74
22:DB:1888:C:H5'	22:DB:1889:G:O5'	1.88	0.74
22:DB:2404:A:HO2'	44:DX:2:ALA:N	1.85	0.74
22:DB:2490:U:H4'	25:DE:122:PHE:CD1	2.22	0.74
22:DB:2725:C:C1'	28:DH:139:GLN:O	2.33	0.74
22:DB:418:C:H2'	53:D7:197:GLU:OE2	1.88	0.74
22:DB:487:G:H22	22:DB:490:A:C1'	2.00	0.74
22:DB:886:A:O4'	43:DW:118:HIS:CE1	2.41	0.74
22:DB:1581:C:C4	24:DD:28:ARG:CZ	2.60	0.74
22:DB:2007:G:H4'	25:DE:149:ARG:CD	2.15	0.74
22:DB:2627:G:N2	32:DL:28:GLY:N	2.18	0.74
1:EA:1273:G:H8	1:IA:1265:G:H5''	1.45	0.74
1:EA:130:A:OP1	17:EQ:63:ARG:NE	2.20	0.74
9:EI:65:VAL:HG21	9:EI:73:GLN:HB3	1.68	0.74
10:EJ:62:HIS:O	14:EN:59:ALA:CB	2.24	0.74
1:EA:529:G:N1	12:EL:51:ALA:CB	2.50	0.74
22:FB:2293:G:N2	27:FG:129:ASN:HD22	1.84	0.74
22:FB:2323:U:OP1	49:F3:39:LYS:HD3	1.86	0.74
22:FB:347:C:C1'	42:FV:10:HIS:NE2	2.49	0.74
22:FB:2629:U:P	32:FL:29:ILE:HD12	2.21	0.74
32:FL:91:PHE:CD1	37:FQ:79:ARG:CD	2.70	0.74
22:FB:2372:A:C4	33:FM:59:ARG:HG2	2.22	0.74
40:FT:79:ALA:HA	40:FT:83:ASP:HB3	1.67	0.74
43:FW:51:LEU:CD2	43:FW:128:ARG:NH2	2.50	0.74
1:GA:808:C:H1'	24:HD:5:LYS:NZ	2.02	0.74
1:GA:835:U:OP1	18:GR:64:ARG:CD	2.27	0.74
2:GB:68:ILE:HD12	2:GB:90:MET:HG3	1.69	0.74
1:GA:430:A:P	4:GD:8:VAL:H	2.11	0.74
1:GA:668:G:C5'	15:GO:48:LYS:HZ1	1.98	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:GA:323:U:H1'	20:GT:19:SER:OG	1.88	0.74
53:H7:8:LEU:HD12	53:H7:183:ALA:HB1	1.68	0.74
22:HB:1256:C:H1'	33:HM:15:ASP:O	1.87	0.74
22:HB:174:A:H1'	22:HB:2051:U:H2'	1.70	0.74
22:HB:567:G:C5'	31:HK:73:ASN:OD1	2.35	0.74
22:HB:602:C:O2'	51:H5:2:PRO:C	2.26	0.74
22:HB:763:A:C6	40:HT:111:ARG:CZ	2.70	0.74
22:HB:596:C:P	33:HM:28:LYS:O	2.45	0.74
34:HN:64:LYS:H	43:HW:112:LEU:N	1.84	0.74
38:HR:101:ARG:HH22	39:HS:43:GLU:CG	2.00	0.74
22:HB:543:G:N2	38:HR:45:TYR:OH	2.19	0.74
1:IA:815:A:O2'	1:IA:1526:G:N3	2.19	0.74
1:IA:589:C:C4'	8:IH:30:ARG:HB2	2.15	0.74
22:JB:635:C:P	51:J5:63:PRO:CG	2.74	0.74
22:JB:1469:U:O2	35:JO:63:ARG:HB3	1.87	0.74
22:JB:174:A:H1'	22:JB:2051:U:H2'	1.70	0.74
22:JB:2734:U:H1'	52:J6:15:LYS:CD	2.03	0.74
22:JB:3094:A:O4'	29:JI:28:TRP:CH2	2.40	0.74
22:JB:760:U:H4'	40:JT:111:ARG:NH2	2.03	0.74
33:JM:70:THR:HG23	33:JM:71:THR:H	1.50	0.74
22:JB:1165:G:OP1	38:JR:58:ARG:CD	2.34	0.74
1:AA:718:G:O4'	11:AK:116:HIS:C	2.25	0.74
1:AA:824:C:O2'	8:AH:2:LEU:HD22	1.88	0.74
9:AI:65:VAL:HG21	9:AI:73:GLN:HB3	1.68	0.74
14:AN:41:ARG:HA	14:AN:44:LEU:HD22	1.69	0.74
15:AO:29:VAL:HG13	15:AO:32:LEU:HD12	1.69	0.74
1:AA:583:A:H1'	17:AQ:91:ARG:NH2	2.02	0.74
1:AA:846:C:P	18:AR:23:LYS:NZ	2.61	0.74
22:BB:2029:G:H5''	48:B2:19:ARG:NE	1.67	0.74
22:BB:1043:A:N3	52:B6:22:ARG:O	2.21	0.74
53:B7:206:LYS:HA	53:B7:213:VAL:HG23	1.68	0.74
22:BB:2328:G:P	51:B5:41:ILE:CD1	2.76	0.74
25:BE:176:ARG:HD3	37:BQ:20:HIS:CE1	2.22	0.74
34:BN:66:TYR:HB2	43:BW:117:VAL:HG23	1.69	0.74
37:BQ:33:VAL:HG13	37:BQ:96:ARG:HB3	1.70	0.74
4:CD:57:ARG:NH2	5:CE:111:GLU:OE2	2.20	0.74
22:DB:2040:A:H4'	48:D2:6:VAL:HG13	1.70	0.74
22:DB:115:G:P	50:D4:19:ARG:NH1	2.33	0.74
22:DB:74:G:H22	22:DB:110:U:H3	1.35	0.74
22:DB:1818:G:N2	22:DB:1883:A:H2	1.85	0.74
22:DB:2492:G:C3'	22:DB:2493:U:C5	2.70	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:DB:2708:U:O4'	25:DE:21:ILE:CG1	2.33	0.74
22:DB:659:G:O2'	51:D5:48:PHE:HE2	1.70	0.74
22:DB:704:G:C5'	24:DD:218:LYS:HZ2	1.98	0.74
24:DD:40:THR:HB	24:DD:61:LEU:HD22	1.68	0.74
33:DM:50:GLU:CD	51:D5:58:MET:CG	2.34	0.74
37:DQ:33:VAL:HG13	37:DQ:96:ARG:HB3	1.70	0.74
1:EA:926:G:C6	1:EA:1502:A:N1	2.56	0.74
1:EA:1226:C:OP2	13:EM:103:THR:HG21	1.63	0.74
22:FB:15:G:H1'	48:F2:18:MET:HG3	1.65	0.74
22:FB:1000:G:H5'	46:FZ:27:LYS:HE2	1.68	0.74
22:FB:174:A:H1'	22:FB:2051:U:H2'	1.70	0.74
22:FB:1203:A:OP1	33:FM:35:LYS:N	2.20	0.74
34:FN:103:VAL:H	34:FN:104:MET:HE1	1.50	0.74
22:FB:1264:C:O2'	38:FR:36:PHE:CE1	2.38	0.74
22:FB:1234:C:C5'	39:FS:68:LYS:NZ	2.49	0.74
22:FB:24:G:C1'	40:FT:98:ASP:HB3	2.17	0.74
43:FW:51:LEU:CG	43:FW:128:ARG:HH21	1.90	0.74
43:FW:25:ASN:HB2	43:FW:28:ASN:HB3	1.69	0.74
23:FA:14:C:C5	44:FX:53:MET:HA	2.23	0.74
22:FB:94:C:H6	45:FY:37:LEU:HD23	1.52	0.74
1:GA:675:A:C2	11:GK:115:PRO:C	2.61	0.74
7:GG:22:LEU:HD12	7:GG:22:LEU:H	1.52	0.74
22:HB:2859:U:C2	48:H2:34:PRO:HB3	2.22	0.74
22:HB:1043:A:C5'	52:H6:23:VAL:CG2	2.65	0.74
22:HB:1166:A:C2	22:HB:1168:G:C8	2.75	0.74
22:HB:1790:G:H1'	22:HB:1811:A:H62	1.52	0.74
22:HB:2859:U:C2	48:H2:51:TYR:HD1	2.05	0.74
22:HB:3121:G:H4'	53:H7:160:LYS:HZ1	1.52	0.74
22:HB:648:A:C2	33:HM:110:ALA:O	2.41	0.74
22:HB:2722:C:O2	28:HH:150:LYS:HE2	1.87	0.74
22:HB:683:A:P	33:HM:46:GLY:HA2	2.28	0.74
22:HB:221:A:C4'	33:HM:68:VAL:HA	2.16	0.74
1:IA:880:C:OP1	12:IL:9:GLN:NE2	2.21	0.74
7:IG:29:LYS:HE2	7:IG:29:LYS:HA	1.68	0.74
6:IF:2:ARG:HH12	15:IO:2:PRO:HG3	0.92	0.74
22:JB:16:G:C5'	48:J2:17:ASP:CB	0.74	0.74
22:JB:2074:U:N3	47:J1:43:TRP:N	2.14	0.74
22:JB:2578:G:OP1	24:JD:228:PRO:CB	2.35	0.74
22:JB:2628:C:O2'	32:JL:29:ILE:HD13	1.87	0.74
22:JB:2701:A:C6	22:JB:2848:A:C6	2.76	0.74
22:JB:2764:U:H4'	25:JE:36:ARG:NH2	2.03	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:JB:533:C:H5''	22:JB:550:C:H1'	1.67	0.74
22:JB:70:A:N6	41:JU:30:SER:CB	2.42	0.74
22:JB:2559:U:P	25:JE:132:LYS:HZ2	1.96	0.74
25:JE:29:GLY:HA3	25:JE:89:ASP:HB2	1.68	0.74
1:AA:1350:A:C1'	7:AG:33:ASP:HA	2.17	0.74
13:AM:84:ILE:O	13:AM:93:ARG:CD	2.35	0.74
22:BB:1000:G:O5'	22:BB:1168:G:H5''	1.86	0.74
22:BB:174:A:H1'	22:BB:2051:U:H2'	1.70	0.74
22:BB:2333:A:HO2'	44:BX:31:VAL:CG1	2.00	0.74
25:BE:176:ARG:NE	37:BQ:19:ASP:CG	2.41	0.74
25:BE:52:ALA:HB3	37:BQ:5:ILE:HG12	1.67	0.74
34:BN:28:VAL:CG1	43:BW:119:ASN:HB2	2.16	0.74
23:BA:97:C:C5'	43:BW:11:LYS:HD2	1.85	0.74
1:CA:1206:G:H4'	3:CC:193:TYR:HA	1.69	0.74
1:CA:413:G:O6	4:CD:32:ALA:HB2	1.88	0.74
1:CA:624:C:C2'	16:CP:11:SER:OG	2.34	0.74
1:CA:673:G:O4'	18:CR:75:ILE:CG1	2.34	0.74
7:CG:22:LEU:HD12	7:CG:22:LEU:H	1.52	0.74
22:DB:2617:G:N3	22:DB:2617:G:H2'	2.03	0.74
22:DB:864:C:H4'	46:DZ:43:MET:CB	2.17	0.74
22:DB:2218:G:H4'	24:DD:230:ASP:HB2	1.69	0.74
22:DB:756:C:H5''	25:DE:130:GLY:H	1.52	0.74
25:DE:52:ALA:CB	37:DQ:5:ILE:CG2	2.56	0.74
22:DB:2738:A:C6	28:DH:71:LEU:CD1	2.69	0.74
34:DN:38:MET:CG	43:DW:74:ARG:CD	2.59	0.74
35:DO:21:ALA:HA	35:DO:24:GLN:HB3	1.69	0.74
1:EA:864:A:O3'	1:EA:1078:U:O2	2.06	0.74
1:EA:1187:G:N2	14:EN:61:TRP:CA	2.51	0.74
1:EA:1250:A:H1'	1:EA:1370:G:H4'	1.67	0.74
1:EA:1517:G:H1'	22:FB:1902:A:O3'	1.87	0.74
1:EA:639:G:H2'	8:EH:116:LYS:HZ1	1.47	0.74
1:EA:1108:G:OP1	3:EC:176:HIS:HB2	1.88	0.74
1:EA:597:G:O6	8:EH:115:SER:HB3	1.88	0.74
22:FB:2617:G:H2'	22:FB:2617:G:N3	2.03	0.74
22:FB:2713:A:O3'	22:FB:2714:A:P	2.46	0.74
26:FF:17:LEU:HD22	26:FF:105:ALA:HB2	1.69	0.74
27:FG:100:LEU:HA	27:FG:103:LEU:HB2	1.69	0.74
22:FB:58:C:OP2	41:FU:73:ASN:O	2.05	0.74
43:FW:48:THR:CG2	43:FW:130:ILE:HD13	2.16	0.74
1:GA:281:G:P	17:GQ:38:ARG:HG3	2.28	0.74
1:GA:946:A:C3'	13:GM:114:ARG:NE	2.42	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:HB:1542:G:H2'	22:HB:1560:A:H61	1.53	0.74
22:HB:508:G:OP2	40:HT:19:LYS:CD	2.36	0.74
22:HB:794:A:H2'	22:HB:1768:U:H1'	1.69	0.74
26:HF:125:ILE:HG13	26:HF:126:ALA:H	1.52	0.74
27:HG:100:LEU:HA	27:HG:103:LEU:HB2	1.69	0.74
35:HO:10:LEU:HD21	35:HO:14:SER:HA	1.69	0.74
22:HB:1203:A:OP1	39:HS:81:ARG:NH2	2.21	0.74
1:IA:1393:U:HO3'	1:IA:1394:A:P	2.00	0.74
1:IA:589:C:O2'	8:IH:30:ARG:HG2	1.86	0.74
1:IA:639:G:H2'	1:IA:640:A:H8	1.51	0.74
3:IC:77:ILE:HD12	3:IC:84:ILE:HD12	1.69	0.74
4:ID:61:LYS:HZ3	4:ID:65:ARG:HD3	1.52	0.74
1:IA:1194:U:C4'	5:IE:22:GLY:CA	2.54	0.74
9:II:11:LYS:HA	9:II:104:ARG:HH21	1.52	0.74
12:IL:67:THR:HB	12:IL:96:VAL:HG13	1.68	0.74
1:IA:391:G:P	16:IP:8:ARG:HH11	2.11	0.74
13:IM:84:ILE:HD12	19:IS:74:PHE:CE2	2.22	0.74
22:JB:1629:G:C4'	50:J4:3:ARG:CD	2.63	0.74
23:JA:44:C:C5'	27:JG:66:ILE:HD11	2.17	0.74
22:JB:1467:U:H4'	35:JO:77:ARG:HH22	1.51	0.74
22:JB:1508:G:P	24:JD:100:GLY:HA2	2.28	0.74
22:JB:1781:C:OP1	24:JD:220:HIS:N	2.20	0.74
22:JB:1790:G:H1'	22:JB:1811:A:H62	1.52	0.74
22:JB:1809:G:O3'	24:JD:156:ALA:CB	2.36	0.74
22:JB:2240:C:C4'	22:JB:2366:U:C2'	2.57	0.74
22:JB:2494:C:N3	22:JB:2548:G:C6	2.55	0.74
22:JB:237:G:C4'	22:JB:618:A:C2	2.70	0.74
26:JF:125:ILE:HG13	26:JF:126:ALA:H	1.52	0.74
22:JB:2826:C:C4'	35:JO:61:HIS:CE1	2.68	0.74
22:JB:2310:G:C3'	44:JX:71:ASN:HA	2.16	0.74
22:JB:60:A:H5''	45:JY:29:ARG:NH2	2.03	0.74
1:AA:1307:U:O3'	13:AM:109:THR:CG2	2.27	0.74
1:AA:1307:U:OP1	13:AM:106:ASN:O	2.06	0.74
1:AA:15:G:O3'	5:AE:24:ARG:CZ	2.32	0.74
1:AA:939:G:OP1	7:AG:102:ARG:CZ	2.35	0.74
1:AA:1374:A:P	7:AG:36:LYS:NZ	2.61	0.74
5:AE:80:ILE:CG2	8:AH:138:TRP:CZ2	2.69	0.74
1:AA:689:C:C6	11:AK:51:LYS:NZ	2.55	0.74
1:AA:949:A:P	13:AM:102:ARG:NE	2.60	0.74
22:BB:2422:C:H2'	22:BB:2423:G:H8	1.50	0.74
22:BB:596:C:C5	33:BM:30:ALA:HB2	2.23	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:1320:C:N4	19:CS:36:ARG:HG2	2.01	0.74
1:CA:1344:C:C4'	9:CI:120:ARG:HB3	2.18	0.74
1:CA:335:C:H1'	1:CA:1434:A:H2	1.53	0.74
1:CA:273:A:C5	17:CQ:16:GLN:CD	2.57	0.74
1:CA:546:G:OP1	4:CD:73:ARG:HB3	1.88	0.74
1:CA:943:U:C1'	9:CI:124:GLN:OE1	2.36	0.74
2:CB:22:LYS:HB2	2:CB:39:ILE:HG12	1.70	0.74
1:CA:1256:A:H61	3:CC:26:LYS:CE	2.00	0.74
1:CA:1298:C:N4	7:CG:115:ARG:HD2	2.02	0.74
9:CI:86:VAL:HG21	9:CI:96:LEU:HD22	1.69	0.74
11:CK:20:TYR:HB2	11:CK:31:THR:HB	1.69	0.74
53:D7:206:LYS:HA	53:D7:213:VAL:HG23	1.69	0.74
23:DA:96:C:OP1	43:DW:14:LEU:CB	2.35	0.74
22:DB:1036:G:H1'	22:DB:1145:C:H4'	1.70	0.74
22:DB:1239:A:P	39:DS:73:LYS:HZ2	2.06	0.74
22:DB:174:A:H1'	22:DB:2051:U:H2'	1.70	0.74
22:DB:2728:A:H4'	28:DH:67:LEU:HD13	0.79	0.74
22:DB:917:U:C4'	43:DW:122:ILE:N	2.51	0.74
22:DB:950:G:H22	22:DB:1205:G:H4'	1.52	0.74
32:DL:85:ASP:O	37:DQ:83:PHE:CD2	2.40	0.74
22:DB:845:U:H5'	33:DM:41:SER:CB	2.18	0.74
22:DB:574:C:C5	39:DS:79:GLN:NE2	2.53	0.74
22:DB:868:U:O3'	44:DX:57:HIS:HB3	1.87	0.74
1:EA:1115:C:H1'	14:EN:61:TRP:CD1	2.19	0.74
1:EA:827:U:H4'	8:EH:19:VAL:CB	2.18	0.74
3:EC:77:ILE:HD12	3:EC:84:ILE:HD12	1.69	0.74
29:FI:1:MET:CE	47:F1:66:SER:HB3	2.17	0.74
22:FB:1585:A:N7	22:FB:1587:A:N6	2.35	0.74
22:FB:2623:A:C2'	22:FB:2624:G:N3	2.50	0.74
22:FB:2752:C:C4'	25:FE:166:THR:CG2	2.65	0.74
24:FD:254:THR:HG22	24:FD:256:GLY:H	1.52	0.74
22:FB:1992:G:O3'	40:FT:63:SER:CB	2.36	0.74
1:GA:267:C:H5'	17:GQ:67:LYS:NZ	2.02	0.74
1:GA:520:A:OP2	12:GL:51:ALA:HA	1.87	0.74
3:GC:77:ILE:HD12	3:GC:84:ILE:HD12	1.69	0.74
1:GA:939:G:OP1	7:GG:102:ARG:NH2	2.21	0.74
9:GI:65:VAL:HG21	9:GI:73:GLN:HB3	1.68	0.74
13:GM:97:PRO:HD3	13:GM:110:ARG:HD3	1.68	0.74
1:GA:1187:G:N3	14:GN:60:SER:OG	2.21	0.74
1:GA:129:U:C6	17:GQ:3:LYS:CE	2.71	0.74
1:GA:265:G:H1'	17:GQ:70:ARG:HH12	1.52	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:GA:735:C:C6	18:GR:75:ILE:HD13	2.15	0.74
23:HA:93:G:H4'	34:HN:23:LYS:NZ	2.03	0.74
22:HB:1041:G:N1	52:H6:6:SER:HB2	1.95	0.74
22:HB:236:C:C1'	22:HB:632:A:H1'	2.17	0.74
22:HB:821:A:N7	33:HM:40:ARG:NH2	2.35	0.74
22:HB:969:U:O4	34:HN:21:ASP:N	2.19	0.74
22:HB:811:G:H8	26:HF:56:ARG:HH22	1.32	0.74
22:HB:2025:A:N7	31:HK:142:ARG:CZ	2.50	0.74
22:HB:511:A:C2'	40:HT:16:GLN:CG	2.65	0.74
1:IA:927:G:H8	1:IA:1503:A:OP1	1.70	0.74
1:IA:967:C:H6	9:II:128:ARG:C	1.91	0.74
7:IG:49:ILE:HG23	7:IG:53:LYS:HD3	1.69	0.74
1:IA:1185:G:O2'	9:II:110:GLU:OE1	2.04	0.74
22:JB:1542:G:H2'	22:JB:1560:A:H61	1.53	0.74
22:JB:1583:A:C8	24:JD:84:TYR:CD1	2.75	0.74
22:JB:929:A:H5''	22:JB:2247:A:N6	2.03	0.74
22:JB:2637:C:N4	28:JH:181:GLY:N	2.35	0.74
22:JB:2745:A:H2'	22:JB:2746:G:O4'	1.88	0.74
22:JB:637:G:H21	33:JM:74:VAL:HG12	1.48	0.74
22:JB:794:A:H2'	22:JB:1768:U:H1'	1.69	0.74
24:JD:154:GLN:HE21	24:JD:155:LEU:N	1.85	0.74
25:JE:106:GLY:HA3	25:JE:189:PRO:HB2	1.70	0.74
22:JB:2742:G:C1'	28:JH:150:LYS:HG2	2.17	0.74
22:JB:2813:G:H4'	35:JO:42:LYS:NZ	2.02	0.74
43:JW:25:ASN:HB2	43:JW:28:ASN:HB3	1.69	0.74
1:AA:1251:A:H2'	1:AA:1252:A:O4'	1.88	0.73
11:AK:81:ASP:HA	11:AK:106:LYS:HB2	1.68	0.73
13:AM:88:ARG:HG2	13:AM:91:ARG:HB2	1.70	0.73
22:BB:801:A:C2	50:B4:4:THR:O	2.41	0.73
53:B7:8:LEU:HD12	53:B7:183:ALA:HB1	1.68	0.73
23:BA:106:U:O2'	43:BW:88:TYR:CA	2.36	0.73
22:BB:74:G:H22	22:BB:110:U:H3	1.35	0.73
22:BB:1542:G:H2'	22:BB:1560:A:H61	1.53	0.73
22:BB:1806:G:O4'	24:BD:52:ARG:CZ	2.37	0.73
22:BB:1807:A:H5'	24:BD:88:ARG:CZ	2.17	0.73
22:BB:2365:U:C4'	44:BX:37:LEU:CD1	2.66	0.73
22:BB:1109:A:C3'	30:BJ:7:ILE:HD11	2.08	0.73
23:BA:91:A:C8	34:BN:21:ASP:HB2	2.23	0.73
1:CA:1104:G:H1'	2:CB:111:ARG:CD	2.18	0.73
22:DB:15:G:O2'	48:D2:18:MET:HA	1.86	0.73
22:DB:1437:A:C2	22:DB:1438:G:C6	2.76	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:DB:1670:G:C2	35:DO:11:ASN:ND2	2.57	0.73
22:DB:1887:G:C5	22:DB:1888:C:C4	2.75	0.73
22:DB:2773:G:H1'	22:DB:2780:A:H2'	1.70	0.73
22:DB:720:A:N1	22:DB:738:G:H1'	2.02	0.73
26:DF:17:LEU:HD22	26:DF:105:ALA:HB2	1.69	0.73
22:DB:2293:G:H5'	27:DG:88:LYS:HE3	1.68	0.73
22:DB:2463:G:H21	34:DN:120:ARG:CG	2.00	0.73
22:DB:590:C:C5'	38:DR:32:TYR:CB	2.65	0.73
40:DT:31:VAL:HG12	40:DT:33:MET:HG2	1.70	0.73
42:DV:35:LYS:HD3	42:DV:36:VAL:HG23	1.69	0.73
1:EA:520:A:C4'	12:EL:73:GLU:HA	2.17	0.73
1:EA:538:G:H5''	12:EL:114:LYS:CB	2.17	0.73
1:EA:643:C:H42	8:EH:115:SER:HA	1.50	0.73
1:EA:793:U:H3	1:EA:1516:G:H5''	1.53	0.73
6:EF:48:LEU:HD23	18:ER:78:LEU:CA	2.17	0.73
7:EG:22:LEU:H	7:EG:22:LEU:HD12	1.52	0.73
51:F5:14:ILE:HG21	51:F5:60:LEU:HD23	1.69	0.73
22:FB:1992:G:O4'	35:FO:105:GLY:C	2.26	0.73
22:FB:2652:G:H4'	32:FL:46:HIS:ND1	1.99	0.73
22:FB:409:G:P	47:F1:10:VAL:HG13	2.28	0.73
22:FB:891:A:C3'	22:FB:893:G:OP2	2.36	0.73
26:FF:115:GLY:H	26:FF:185:ARG:HG3	1.52	0.73
22:FB:1469:U:N3	35:FO:60:LEU:HD12	1.99	0.73
1:GA:1226:C:H5	13:GM:104:ARG:CA	2.00	0.73
1:GA:190:A:H2	20:GT:104:LEU:O	1.71	0.73
1:GA:801:U:H2'	1:GA:802:A:H8	1.53	0.73
4:GD:102:ASP:HB2	4:GD:118:ARG:HD3	1.69	0.73
1:GA:967:C:H5''	9:GI:128:ARG:CG	2.11	0.73
1:GA:377:G:C5'	16:GP:5:ARG:HH12	1.90	0.73
1:GA:273:A:H1'	17:GQ:15:MET:CA	2.17	0.73
18:GR:47:THR:HA	18:GR:83:GLU:HB2	1.70	0.73
22:HB:1707:A:N1	22:HB:1758:C:OP1	2.20	0.73
22:HB:625:A:N6	26:HF:172:VAL:CG2	2.51	0.73
22:HB:968:C:OP1	34:HN:76:THR:O	2.05	0.73
25:HE:95:ILE:HD13	25:HE:95:ILE:H	1.51	0.73
32:HL:88:THR:O	37:HQ:81:PHE:CD2	2.40	0.73
1:IA:1107:C:H4'	3:IC:150:LYS:HZ1	1.49	0.73
1:IA:751:U:H4'	15:IO:77:ARG:HH11	1.49	0.73
1:IA:801:U:H2'	1:IA:802:A:H8	1.53	0.73
1:IA:968:A:C8	9:II:128:ARG:HG2	2.21	0.73
2:IB:102:LEU:HD12	2:IB:102:LEU:H	1.53	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:IA:1320:C:N3	19:IS:72:GLY:HA3	1.91	0.73
51:J5:14:ILE:HG21	51:J5:60:LEU:HD23	1.69	0.73
22:JB:1174:G:H4'	39:JS:87:ARG:NH1	2.02	0.73
22:JB:50:G:N1	22:JB:117:A:C2	2.56	0.73
22:JB:1792:C:P	24:JD:147:LEU:O	2.46	0.73
1:IA:1517:G:C8	22:JB:1903:C:P	2.81	0.73
22:JB:2734:U:O4'	52:J6:15:LYS:CE	2.34	0.73
22:JB:609:U:C4'	26:JF:26:VAL:HG11	2.18	0.73
22:JB:790:A:O2'	24:JD:49:ILE:CD1	2.36	0.73
22:JB:2510:A:C5'	28:JH:174:GLY:C	2.52	0.73
22:JB:2811:G:OP2	37:JQ:5:ILE:O	2.06	0.73
22:JB:2001:G:N2	38:JR:34:ASN:ND2	2.34	0.73
22:JB:470:U:O2'	41:JU:68:PHE:CB	2.35	0.73
22:JB:470:U:H1'	41:JU:68:PHE:HB2	1.70	0.73
1:AA:1383:C:H5'	7:AG:79:ARG:HH22	0.91	0.73
1:AA:265:G:H4'	17:AQ:65:ILE:HG23	1.70	0.73
1:AA:942:G:N2	9:AI:124:GLN:CB	2.41	0.73
1:AA:761:G:C5'	17:AQ:102:GLY:N	2.41	0.73
1:AA:986:A:O4'	19:AS:55:LYS:HG3	1.87	0.73
20:AT:84:LEU:HD23	20:AT:87:LYS:HD2	1.69	0.73
22:BB:1861:G:N1	53:B7:199:ASN:CG	2.42	0.73
22:BB:1141:U:C5'	31:BK:108:GLY:N	1.91	0.73
22:BB:1681:A:C6	22:BB:2706:U:C5	2.76	0.73
22:BB:2372:A:C1'	33:BM:60:LEU:N	2.51	0.73
22:BB:2522:G:H4'	22:BB:2624:G:C6	2.23	0.73
22:BB:2558:C:H5'	25:BE:132:LYS:HB2	1.69	0.73
22:BB:2790:C:O2'	48:B2:42:SER:O	2.05	0.73
22:BB:7:G:H5''	31:BK:79:PHE:CE2	2.23	0.73
22:BB:66:U:C6	22:BB:87:G:N2	2.57	0.73
22:BB:950:G:H22	22:BB:1205:G:H4'	1.53	0.73
22:BB:2277:A:OP1	27:BG:71:LYS:HD2	1.88	0.73
1:CA:1378:C:H5''	7:CG:6:ARG:NH2	2.03	0.73
1:CA:1396:A:N3	5:CE:19:MET:HE2	1.94	0.73
29:DI:26:ARG:HE	47:D1:72:LYS:C	1.90	0.73
22:DB:2323:U:C5'	49:D3:39:LYS:HD3	2.17	0.73
22:DB:2303:C:H1'	22:DB:2316:G:H4'	1.69	0.73
22:DB:2422:C:H2'	22:DB:2423:G:H8	1.50	0.73
22:DB:2661:G:C2	25:DE:11:MET:C	2.61	0.73
22:DB:2738:A:N1	28:DH:71:LEU:CD1	2.50	0.73
22:DB:704:G:H5''	24:DD:218:LYS:HZ2	1.53	0.73
22:DB:777:A:N3	24:DD:209:ALA:O	2.21	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:DL:100:ASN:HB2	32:DL:104:GLU:H	1.53	0.73
25:DE:19:ARG:HD2	37:DQ:65:SER:HA	1.35	0.73
38:DR:47:TYR:CB	39:DS:75:LYS:H	1.96	0.73
43:DW:84:TYR:CE2	43:DW:128:ARG:HG2	2.21	0.73
1:EA:1228:C:H2'	1:EA:1229:A:N7	2.03	0.73
1:EA:928:G:H4'	1:EA:1533:C:H41	1.52	0.73
1:EA:667:G:N2	15:EO:42:HIS:HE1	1.85	0.73
1:EA:1056:U:C5'	3:EC:162:GLN:C	2.56	0.73
4:ED:105:VAL:HB	4:ED:117:ALA:HB1	1.70	0.73
1:EA:645:C:P	8:EH:92:ARG:CZ	2.75	0.73
20:ET:84:LEU:HD23	20:ET:87:LYS:HD2	1.69	0.73
22:FB:1237:G:H4'	39:FS:87:ARG:HB3	1.70	0.73
22:FB:1584:G:H3'	24:FD:62:TYR:OH	1.87	0.73
25:FE:106:GLY:HA3	25:FE:189:PRO:HB2	1.70	0.73
22:FB:2736:U:C4	28:FH:67:LEU:CD2	2.71	0.73
31:FK:48:GLY:HA2	31:FK:87:GLN:HG2	1.68	0.73
37:FQ:110:LEU:HD12	37:FQ:113:LYS:HD2	1.70	0.73
22:FB:513:A:OP2	40:FT:15:LYS:HA	1.88	0.73
7:GG:24:THR:HA	7:GG:27:ILE:HD12	1.69	0.73
13:GM:88:ARG:O	13:GM:98:VAL:HG13	1.88	0.73
1:GA:129:U:H6	17:GQ:3:LYS:HE2	1.53	0.73
22:HB:2062:U:O3'	47:H1:32:HIS:NE2	2.20	0.73
22:HB:2861:A:C6	48:H2:31:THR:CB	2.71	0.73
23:HA:65:A:H2'	23:HA:66:G:H8	1.52	0.73
22:HB:2034:A:N6	22:HB:2593:A:H1'	2.04	0.73
22:HB:542:A:N7	22:HB:570:G:N1	2.36	0.73
22:HB:58:C:C4	22:HB:73:A:N1	2.55	0.73
22:HB:760:U:C5	48:H2:3:LYS:HD3	2.15	0.73
25:HE:52:ALA:HB1	37:HQ:7:ILE:CD1	2.12	0.73
28:HH:146:ALA:HA	28:HH:149:ARG:HD3	1.69	0.73
32:HL:87:SER:HB2	37:HQ:83:PHE:C	2.07	0.73
37:HQ:33:VAL:HG13	37:HQ:96:ARG:HB3	1.70	0.73
40:HT:31:VAL:HG12	40:HT:33:MET:HG2	1.70	0.73
1:IA:1432:G:OP1	37:JQ:115:ALA:CB	2.36	0.73
1:IA:814:A:H5'	1:IA:1511:G:C5'	2.16	0.73
2:IB:68:ILE:HD12	2:IB:90:MET:HG3	1.69	0.73
53:J7:8:LEU:HD12	53:J7:183:ALA:HB1	1.68	0.73
22:JB:414:A:C4'	53:J7:217:ARG:HH22	2.01	0.73
23:JA:50:U:OP1	36:JP:95:LYS:HB2	1.88	0.73
22:JB:113:C:C4'	22:JB:125:A:H4'	2.18	0.73
22:JB:1268:U:H5'	22:JB:1269:G:H5''	1.69	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:JB:1829:C:H1'	22:JB:1910:A:N3	2.02	0.73
22:JB:235:C:O5'	33:JM:103:ASN:ND2	2.20	0.73
22:JB:838:A:H5''	22:JB:2407:G:C5	2.23	0.73
22:JB:3103:A:C5'	53:J7:37:LYS:CD	2.66	0.73
32:JL:23:ARG:HH21	32:JL:24:VAL:H	1.36	0.73
22:JB:592:G:C2'	38:JR:5:LYS:CE	2.63	0.73
22:JB:495:C:P	42:JV:59:LYS:HD2	2.27	0.73
22:JB:72:A:OP1	45:JY:50:VAL:O	2.06	0.73
1:AA:1441:G:C6	20:AT:27:LYS:NZ	2.56	0.73
5:AE:87:SER:HA	5:AE:131:ILE:HD13	1.70	0.73
1:AA:823:G:N2	8:AH:3:THR:HB	2.02	0.73
1:AA:520:A:H2'	12:AL:53:ARG:CZ	2.18	0.73
1:AA:761:G:H1'	17:AQ:103:GLY:C	2.09	0.73
20:AT:100:ILE:HG23	1:GA:179:A:N3	2.03	0.73
22:BB:177:U:H5'	47:B1:31:ILE:CG2	2.18	0.73
22:BB:1790:G:H1'	22:BB:1811:A:H62	1.52	0.73
22:BB:2470:U:H3	22:BB:2548:G:C4'	2.00	0.73
22:BB:2723:C:C1'	28:BH:150:LYS:HE2	2.17	0.73
25:BE:8:LYS:HG3	25:BE:9:ILE:HG12	1.70	0.73
26:BF:115:GLY:H	26:BF:185:ARG:HG3	1.52	0.73
32:BL:88:THR:OG1	37:BQ:81:PHE:HA	1.87	0.73
38:BR:101:ARG:HH21	38:BR:102:GLU:HB2	1.53	0.73
22:BB:2366:U:H4'	44:BX:38:VAL:HG21	1.70	0.73
1:CA:620:C:H4'	4:CD:138:TYR:CE2	2.21	0.73
1:CA:439:A:C2'	4:CD:122:ARG:HH22	2.01	0.73
1:CA:558:G:C4'	5:CE:121:LYS:NZ	2.38	0.73
1:CA:15:G:C4'	5:CE:24:ARG:HH22	1.81	0.73
1:CA:875:C:O2'	8:CH:14:ARG:HG2	1.89	0.73
1:CA:1456:A:C5'	20:CT:28:ALA:HB3	1.91	0.73
22:DB:1236:G:OP2	39:DS:69:ILE:HG21	1.88	0.73
22:DB:1481:U:C4'	22:DB:1561:A:N1	2.51	0.73
22:DB:1790:G:H1'	22:DB:1811:A:H62	1.52	0.73
22:DB:2034:A:N6	22:DB:2593:A:H1'	2.04	0.73
22:DB:2039:G:C2'	48:D2:5:PRO:HG3	2.17	0.73
22:DB:545:C:H1'	38:DR:53:LYS:HE2	0.74	0.73
22:DB:565:A:N3	31:DK:74:MET:CG	2.50	0.73
22:DB:1583:A:N6	24:DD:89:SER:CA	2.51	0.73
27:DG:132:ILE:HG13	27:DG:153:ASP:HA	1.69	0.73
22:DB:2464:G:O2'	34:DN:123:GLY:HA2	1.88	0.73
22:DB:887:G:O5'	43:DW:167:THR:CB	2.24	0.73
41:DU:4:TYR:HE2	45:DY:27:GLU:OE2	1.71	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:EA:1273:G:C5	1:IA:1264:C:H4'	2.22	0.73
1:EA:1313:U:OP2	19:ES:6:LYS:CG	2.36	0.73
2:EB:22:LYS:HB2	2:EB:39:ILE:HG12	1.69	0.73
1:EA:518:C:C1'	12:EL:51:ALA:CA	2.47	0.73
22:FB:231:G:H1	51:F5:4:MET:CG	1.97	0.73
23:FA:14:C:N1	44:FX:53:MET:CA	2.51	0.73
22:FB:1411:C:C2	22:FB:1412:C:C4	2.76	0.73
22:FB:1542:G:H2'	22:FB:1560:A:H61	1.53	0.73
22:FB:1672:A:H1'	25:FE:114:GLN:HA	1.70	0.73
22:FB:950:G:H22	22:FB:1205:G:H4'	1.53	0.73
31:FK:136:PRO:HB2	31:FK:140:GLN:HG3	1.71	0.73
32:FL:23:ARG:HH21	32:FL:24:VAL:H	1.36	0.73
35:FO:21:ALA:HA	35:FO:24:GLN:HB3	1.69	0.73
42:FV:48:VAL:HG13	42:FV:50:GLY:H	1.52	0.73
1:GA:1392:G:H5'	1:GA:1531:A:O5'	1.87	0.73
1:GA:346:G:H4'	37:HQ:51:GLU:CG	2.18	0.73
1:GA:35:G:H1'	12:GL:118:SER:C	2.08	0.73
1:GA:639:G:H2'	1:GA:640:A:H8	1.51	0.73
9:GI:86:VAL:HG21	9:GI:96:LEU:HD22	1.70	0.73
14:GN:25:VAL:HG13	14:GN:26:ARG:H	1.49	0.73
22:HB:419:G:H5''	53:H7:197:GLU:O	1.89	0.73
22:HB:1861:G:N9	53:H7:199:ASN:CG	2.42	0.73
22:HB:1268:U:C6	26:HF:66:ASN:OD1	2.41	0.73
22:HB:1376:C:H5''	47:H1:55:ARG:HH21	1.41	0.73
22:HB:156:G:OP1	50:H4:28:ARG:NH2	2.20	0.73
22:HB:1954:A:C2	24:HD:240:THR:HB	2.23	0.73
22:HB:2335:U:H5''	44:HX:19:LYS:CD	2.17	0.73
22:HB:3126:A:H5'	53:H7:26:PHE:CE1	2.22	0.73
22:HB:476:G:N2	22:HB:808:C:H1'	2.01	0.73
22:HB:2647:G:C4'	28:HH:111:HIS:ND1	2.50	0.73
32:HL:119:ARG:NH2	37:HQ:44:ARG:CA	2.52	0.73
34:HN:68:ARG:NH2	43:HW:117:VAL:CG1	2.49	0.73
22:HB:2343:C:C5'	44:HX:40:GLN:CB	2.60	0.73
1:IA:1187:G:O4'	9:II:113:LYS:CD	2.35	0.73
1:IA:1228:C:H5'	13:IM:108:ARG:NH2	2.03	0.73
1:IA:718:G:O6	18:IR:81:PHE:CD1	2.42	0.73
22:JB:2265:A:N7	49:J3:31:THR:CB	2.51	0.73
22:JB:1003:C:H5''	39:JS:74:TYR:CB	2.18	0.73
22:JB:1309:G:C6	22:JB:1310:C:N4	2.57	0.73
22:JB:1813:A:C5'	24:JD:202:LYS:HZ3	2.00	0.73
22:JB:1912:G:O3'	22:JB:1913:G:P	2.46	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:JB:2034:A:N6	22:JB:2593:A:H1'	2.04	0.73
22:JB:2241:U:H5''	22:JB:2307:A:C2	2.21	0.73
22:JB:2698:G:O2'	37:JQ:106:TYR:OH	2.07	0.73
22:JB:476:G:N2	22:JB:808:C:H1'	2.01	0.73
22:JB:1810:U:C2'	24:JD:154:GLN:OE1	2.23	0.73
22:JB:797:A:N6	24:JD:229:VAL:CG2	2.48	0.73
25:JE:27:LEU:HG	25:JE:182:ILE:HD12	1.69	0.73
22:JB:1288:A:H1'	35:JO:13:ASN:OD1	1.87	0.73
22:JB:2850:U:O2'	37:JQ:10:GLY:CA	2.36	0.73
37:JQ:110:LEU:HD12	37:JQ:113:LYS:HD2	1.70	0.73
22:JB:2315:A:N3	44:JX:70:ILE:HD11	2.03	0.73
1:AA:876:G:C4	8:AH:3:THR:OG1	2.31	0.73
4:AD:31:CYS:HB3	4:AD:33:MET:HG2	1.69	0.73
5:AE:127:ASN:HB3	5:AE:131:ILE:HG12	1.71	0.73
1:AA:1382:C:H5'	7:AG:79:ARG:HB2	1.69	0.73
10:AJ:11:PHE:CE1	14:AN:54:PRO:CA	2.70	0.73
22:BB:176:A:C3'	47:B1:31:ILE:HG21	2.17	0.73
22:BB:1856:U:C5'	22:BB:2389:G:O2'	2.36	0.73
22:BB:2034:A:N6	22:BB:2593:A:H1'	2.04	0.73
22:BB:818:G:OP1	33:BM:40:ARG:O	2.07	0.73
22:BB:83:A:H62	42:BV:102:LYS:HE2	1.53	0.73
22:BB:795:A:N6	24:BD:222:ARG:HE	1.86	0.73
22:BB:2615:U:P	25:BE:78:LEU:HA	2.29	0.73
22:BB:1149:G:H5'	31:BK:55:ALA:CB	2.18	0.73
32:BL:85:ASP:CG	37:BQ:87:LEU:HD22	2.09	0.73
22:BB:24:G:C1'	40:BT:98:ASP:HB3	2.17	0.73
1:CA:1251:A:H2'	1:CA:1252:A:O4'	1.88	0.73
1:CA:618:C:H2'	1:CA:620:C:H41	1.52	0.73
1:CA:1103:C:O2'	2:CB:111:ARG:CB	2.37	0.73
2:CB:68:ILE:HD12	2:CB:90:MET:HG3	1.70	0.73
1:CA:1320:C:H1'	19:CS:73:GLU:CA	2.17	0.73
22:DB:699:G:N1	50:D4:5:TYR:HB2	2.02	0.73
22:DB:1542:G:H2'	22:DB:1560:A:H61	1.53	0.73
22:DB:966:A:C1'	34:DN:86:LYS:O	2.36	0.73
38:DR:101:ARG:HH21	38:DR:102:GLU:HB2	1.53	0.73
1:EA:1251:A:H2'	1:EA:1252:A:O4'	1.88	0.73
1:EA:128:G:O2'	17:EQ:61:GLU:CG	2.36	0.73
1:EA:403:C:O2'	4:ED:122:ARG:CD	2.36	0.73
1:EA:430:A:P	4:ED:8:VAL:HG23	2.28	0.73
1:EA:618:C:H2'	1:EA:620:C:H41	1.52	0.73
3:EC:23:TYR:CB	10:EJ:92:THR:CG2	2.59	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:EA:1114:C:H1'	14:EN:61:TRP:HB3	1.70	0.73
22:FB:124:A:O4'	50:F4:19:ARG:HB3	1.87	0.73
22:FB:1790:G:H1'	22:FB:1811:A:H62	1.52	0.73
22:FB:2422:C:H2'	22:FB:2423:G:H8	1.51	0.73
22:FB:2034:A:N6	22:FB:2593:A:H1'	2.04	0.73
25:FE:176:ARG:HD3	37:FQ:20:HIS:NE2	2.04	0.73
26:FF:125:ILE:HG13	26:FF:126:ALA:H	1.52	0.73
22:FB:1266:G:C2	38:FR:37:GLN:NE2	2.56	0.73
44:FX:43:THR:HB	44:FX:66:LYS:N	2.03	0.73
1:GA:1250:A:OP1	9:GI:68:GLY:N	2.22	0.73
1:GA:274:A:OP1	17:GQ:14:LYS:CE	2.31	0.73
4:GD:31:CYS:HB3	4:GD:33:MET:HG2	1.69	0.73
5:GE:87:SER:HA	5:GE:131:ILE:HD13	1.70	0.73
20:GT:84:LEU:HD23	20:GT:87:LYS:HD2	1.69	0.73
22:HB:1268:U:H5'	22:HB:1269:G:H5''	1.70	0.73
22:HB:1398:G:C4	22:HB:1416:A:C2	2.75	0.73
22:HB:226:C:N4	22:HB:2374:C:H4'	2.02	0.73
22:HB:2470:U:C4	22:HB:2548:G:O2'	2.42	0.73
22:HB:814:G:H2'	22:HB:816:U:OP2	1.88	0.73
22:HB:2343:C:O2'	44:HX:66:LYS:CD	2.35	0.73
1:IA:1147:C:H1'	9:II:16:ARG:NE	2.02	0.73
1:IA:17:U:H5''	5:IE:14:ARG:HD2	1.69	0.73
1:IA:707:C:O3'	11:IK:20:TYR:CD2	2.41	0.73
1:IA:827:U:H5'	8:IH:15:ASN:C	2.08	0.73
7:IG:16:LEU:CG	9:II:42:ARG:HD2	2.18	0.73
7:IG:24:THR:HA	7:IG:27:ILE:HD12	1.69	0.73
1:IA:1290:G:O3'	7:IG:35:LYS:NZ	2.22	0.73
1:IA:644:G:H5''	8:IH:92:ARG:NH2	2.02	0.73
22:JB:1455:C:H5'	22:JB:1643:A:H4'	1.71	0.73
22:JB:2685:A:O2'	35:JO:64:ARG:CG	2.36	0.73
22:JB:428:A:C2	22:JB:2388:G:C2	2.76	0.73
22:JB:542:A:OP1	38:JR:28:ARG:CZ	2.36	0.73
22:JB:71:A:C5	45:JY:57:LYS:CG	2.70	0.73
31:JK:48:GLY:HA2	31:JK:87:GLN:HG2	1.68	0.73
22:JB:1265:G:C1'	38:JR:32:TYR:HH	2.01	0.73
22:JB:1165:G:OP1	38:JR:58:ARG:HD3	1.88	0.73
22:JB:489:A:C2'	42:JV:74:LEU:HA	2.17	0.73
22:JB:110:U:O4'	45:JY:58:ALA:HB2	1.88	0.73
1:AA:1249:C:H2'	9:AI:68:GLY:O	1.89	0.73
1:AA:712:A:H5'	24:BD:184:ARG:HH11	1.54	0.73
2:AB:102:LEU:H	2:AB:102:LEU:HD12	1.54	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AC:95:THR:HB	3:AC:97:LYS:HG2	1.71	0.73
11:AK:20:TYR:HB2	11:AK:31:THR:HB	1.68	0.73
1:AA:958:A:C5	19:AS:56:GLN:HG3	2.21	0.73
22:BB:419:G:C5'	53:B7:198:THR:HG21	2.12	0.73
22:BB:1441:A:C1'	22:BB:1587:A:N6	2.43	0.73
1:AA:1428:A:H5'	22:BB:1704:G:H4'	1.69	0.73
24:BD:154:GLN:HE21	24:BD:155:LEU:N	1.85	0.73
22:BB:742:G:N7	24:BD:208:LYS:HD3	2.03	0.73
37:BQ:110:LEU:HD12	37:BQ:113:LYS:HD2	1.70	0.73
22:BB:497:C:H4'	40:BT:80:LEU:HD11	1.71	0.73
1:CA:1081:G:H8	5:CE:18:ARG:CZ	2.00	0.73
4:CD:31:CYS:HB3	4:CD:33:MET:HG2	1.69	0.73
1:CA:1320:C:C4	19:CS:36:ARG:HG3	2.22	0.73
22:DB:187:U:C5'	50:D4:26:SER:OG	2.32	0.73
22:DB:475:U:C5'	50:D4:5:TYR:HB3	2.18	0.73
22:DB:1002:C:N4	22:DB:1174:G:N1	2.36	0.73
22:DB:2350:G:HO2'	49:D3:45:LYS:C	1.90	0.73
22:DB:2474:G:O3'	34:DN:83:ARG:HG3	1.81	0.73
22:DB:2590:U:OP1	25:DE:132:LYS:NZ	2.21	0.73
22:DB:2602:G:N2	48:D2:22:HIS:HE2	1.86	0.73
22:DB:922:A:H2	22:DB:2244:C:O4'	1.71	0.73
22:DB:2542:U:P	32:DL:25:LEU:CD2	2.75	0.73
23:DA:11:G:OP1	36:DP:14:ARG:NH1	2.22	0.73
32:DL:119:ARG:HE	37:DQ:43:ASN:HD21	1.34	0.73
23:DA:79:U:P	43:DW:10:PRO:HG3	2.29	0.73
23:DA:78:A:N3	43:DW:22:VAL:CB	2.51	0.73
34:DN:98:VAL:HG21	43:DW:73:LYS:HE2	1.43	0.73
1:EA:1517:G:N3	22:FB:1902:A:O2'	2.19	0.73
1:EA:391:G:H5''	16:EP:8:ARG:HH21	0.91	0.73
1:EA:587:G:O4'	8:EH:89:PRO:HB2	1.85	0.73
13:EM:97:PRO:HG3	13:EM:107:ALA:HB1	1.69	0.73
13:EM:89:GLY:CA	13:EM:92:HIS:CD2	2.71	0.73
1:EA:238:G:H5''	17:EQ:38:ARG:HH22	0.92	0.73
22:FB:1072:U:C2	30:FJ:11:GLN:N	2.55	0.73
22:FB:1488:G:C6	22:FB:1533:G:C6	2.77	0.73
22:FB:1635:G:O3'	50:F4:1:MET:CE	2.35	0.73
22:FB:1827:G:O6	22:FB:1952:A:H5''	1.88	0.73
22:FB:2372:A:N3	33:FM:59:ARG:HG2	2.03	0.73
22:FB:3:U:O4	22:FB:2874:A:C6	2.41	0.73
22:FB:469:G:C8	50:F4:40:HIS:HD2	2.01	0.73
24:FD:157:ARG:HD2	24:FD:202:LYS:HZ1	1.53	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:FE:23:VAL:HB	25:FE:184:VAL:HG23	1.68	0.73
22:FB:2445:C:O2	34:FN:120:ARG:CD	2.37	0.73
38:FR:80:ILE:HG23	38:FR:83:LEU:HD12	1.70	0.73
22:FB:504:G:C2	40:FT:78:ASN:OD1	2.42	0.73
1:GA:673:G:H5'	6:GF:87:ARG:HH21	1.53	0.73
7:GG:29:LYS:HA	7:GG:29:LYS:HE2	1.69	0.73
1:GA:1059:C:C4'	10:GJ:51:ARG:O	2.36	0.73
22:HB:1043:A:H5'	52:H6:23:VAL:HG21	1.69	0.73
22:HB:2612:G:H5'	22:HB:2786:G:HO2'	1.52	0.73
22:HB:3197:U:O4	22:HB:2203:G:N7	2.21	0.73
22:HB:699:G:C4	50:H4:5:TYR:CB	2.69	0.73
22:HB:934:G:O2'	44:HX:26:PHE:HB2	1.88	0.73
22:HB:965:G:OP1	34:HN:18:MET:CG	2.37	0.73
22:HB:1789:U:C5'	24:HD:257:LEU:CD2	2.65	0.73
22:HB:597:U:C2'	26:HF:84:PHE:HZ	1.99	0.73
22:HB:575:U:C4	39:HS:79:GLN:OE1	2.41	0.73
43:HW:10:PRO:HA	43:HW:13:LYS:HD2	1.71	0.73
44:HX:43:THR:HB	44:HX:66:LYS:N	2.03	0.73
22:HB:941:U:O2	46:HZ:21:GLN:HA	1.89	0.73
1:IA:1057:G:C5'	3:IC:196:LEU:HD23	2.17	0.73
1:IA:537:G:C5'	12:IL:113:ARG:HH12	1.95	0.73
1:IA:641:U:H1'	8:IH:115:SER:O	1.87	0.73
1:IA:644:G:C4'	8:IH:92:ARG:HE	2.00	0.73
3:IC:23:TYR:CE2	10:IJ:93:GLY:HA2	2.05	0.73
14:IN:41:ARG:HA	14:IN:44:LEU:HD22	1.69	0.73
1:IA:483:C:C2'	16:IP:13:HIS:NE2	2.47	0.73
16:IP:66:PRO:HB2	16:IP:70:ALA:HB3	1.69	0.73
22:JB:2612:G:H5'	22:JB:2786:G:O2'	1.88	0.73
22:JB:626:A:C2	26:JF:172:VAL:HG13	2.17	0.73
22:JB:707:U:H1'	22:JB:1392:U:H3	1.53	0.73
25:JE:23:VAL:HB	25:JE:184:VAL:HG23	1.68	0.73
26:JF:25:GLY:O	33:JM:19:VAL:CG2	2.36	0.73
22:JB:2315:A:C5	44:JX:70:ILE:CD1	2.71	0.73
1:AA:254:G:C4	17:AQ:16:GLN:O	2.40	0.73
1:AA:618:C:H2'	1:AA:620:C:H41	1.53	0.73
5:AE:148:VAL:HB	8:AH:107:LEU:HD22	1.70	0.73
1:AA:1251:A:H4'	9:AI:12:GLU:OE2	1.86	0.73
13:AM:88:ARG:CB	13:AM:92:HIS:CE1	2.71	0.73
1:AA:958:A:H1'	19:AS:55:LYS:HD3	1.68	0.73
22:BB:1377:G:O6	47:B1:3:LYS:CB	2.22	0.73
22:BB:2716:G:H22	22:BB:2749:A:H1'	1.53	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:BB:215:G:H4'	22:BB:618:A:C5'	2.19	0.73
22:BB:686:C:C5'	26:BF:74:VAL:CG1	2.65	0.73
22:BB:1815:G:C5'	24:BD:54:ILE:HB	2.19	0.73
22:BB:8:A:P	31:BK:79:PHE:HE1	2.10	0.73
22:BB:869:C:C4'	44:BX:57:HIS:N	2.39	0.73
1:CA:1309:G:OP1	13:CM:88:ARG:NE	2.21	0.73
1:CA:136:C:H1'	16:CP:63:GLY:CA	2.05	0.73
5:CE:87:SER:HA	5:CE:131:ILE:HD13	1.70	0.73
9:CI:11:LYS:HA	9:CI:104:ARG:HH21	1.51	0.73
1:CA:1412:C:H5''	12:CL:65:GLU:OE1	1.89	0.73
1:CA:275:G:O2'	17:CQ:18:THR:CB	2.36	0.73
22:DB:1806:G:O4'	24:DD:52:ARG:NH2	2.20	0.73
22:DB:2658:A:C1'	25:DE:187:ALA:CB	2.66	0.73
22:DB:512:A:H4'	40:DT:15:LYS:NZ	2.04	0.73
22:DB:677:G:C4'	22:DB:951:G:H5'	2.18	0.73
25:DE:27:LEU:HG	25:DE:182:ILE:HD12	1.69	0.73
38:DR:43:ALA:CA	39:DS:75:LYS:CD	2.22	0.73
22:DB:1615:C:C5'	41:DU:33:ALA:CB	2.61	0.73
34:DN:99:LYS:CB	43:DW:73:LYS:HG3	2.12	0.73
1:EA:1061:G:H4'	10:EJ:56:HIS:HD2	0.91	0.73
1:EA:1240:U:OP1	7:EG:115:ARG:HG2	1.75	0.73
1:EA:1265:G:C1'	1:IA:1272:G:O2'	2.36	0.73
2:EB:102:LEU:HD12	2:EB:102:LEU:H	1.53	0.73
4:ED:74:GLN:HA	4:ED:77:ASN:HD22	1.54	0.73
4:ED:205:GLU:CB	5:EE:101:ILE:HA	2.18	0.73
11:EK:20:TYR:HB2	11:EK:31:THR:HB	1.68	0.73
1:EA:391:G:H5'	16:EP:8:ARG:NE	2.02	0.73
22:FB:2323:U:C5'	49:F3:39:LYS:HD3	2.18	0.73
22:FB:2303:C:H1'	22:FB:2316:G:H4'	1.69	0.73
22:FB:2540:A:C2'	32:FL:23:ARG:CG	2.67	0.73
22:FB:3866:A:O4'	53:F7:195:LYS:HD3	1.88	0.73
25:FE:181:LEU:CD2	37:FQ:12:LEU:CD2	2.66	0.73
22:FB:510:G:C6	40:FT:15:LYS:O	2.41	0.73
13:GM:46:LYS:HD2	13:GM:46:LYS:H	1.54	0.73
1:GA:579:G:O2'	15:GO:54:ARG:NE	2.22	0.73
22:HB:1378:A:H5'	47:H1:11:PRO:HB3	1.63	0.73
22:HB:707:U:H1'	22:HB:1392:U:H3	1.53	0.73
22:HB:865:A:H61	22:HB:937:C:N4	1.87	0.73
22:HB:543:G:C4'	38:HR:42:ALA:HB2	2.07	0.73
41:HU:11:VAL:HG11	41:HU:26:SER:HB2	1.68	0.73
22:HB:1325:U:C3'	41:HU:61:LYS:HE3	2.15	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:IA:1367:C:H4'	10:IJ:60:ARG:NH1	2.02	0.73
1:IA:1206:G:H5'	3:IC:192:THR:O	1.88	0.73
4:ID:31:CYS:HB3	4:ID:33:MET:HG2	1.69	0.73
10:IJ:51:ARG:HB2	10:IJ:59:SER:HB3	1.70	0.73
13:IM:87:TYR:HD1	19:IS:76:PRO:HG3	1.53	0.73
18:IR:47:THR:HA	18:IR:83:GLU:HB2	1.70	0.73
40:JT:60:ILE:CG2	48:J2:25:LEU:CD1	2.60	0.73
22:JB:1088:A:C5'	30:JJ:92:ASN:CB	2.65	0.73
22:JB:113:C:H1'	22:JB:125:A:O4'	1.87	0.73
22:JB:1912:G:HO3'	22:JB:1913:G:P	2.12	0.73
22:JB:2487:G:H5''	22:JB:2534:U:O4'	1.89	0.73
22:JB:2602:G:OP1	22:JB:2800:C:O2'	2.06	0.73
22:JB:339:U:O2'	42:JV:77:HIS:O	2.07	0.73
22:JB:814:G:H2'	22:JB:816:U:OP2	1.88	0.73
25:JE:8:LYS:HG3	25:JE:9:ILE:HG12	1.70	0.73
29:JI:39:THR:HG23	29:JI:41:THR:H	1.54	0.73
1:AA:1113:C:HO2'	14:AN:57:ARG:NH1	1.86	0.73
1:AA:1159:U:H1'	1:AA:1160:G:N7	2.02	0.73
1:AA:1199:U:O3'	10:AJ:54:PHE:CZ	2.41	0.73
4:AD:102:ASP:HB2	4:AD:118:ARG:HD3	1.69	0.73
6:AF:49:ALA:CB	18:AR:79:LEU:CA	2.65	0.73
10:AJ:51:ARG:HB2	10:AJ:59:SER:HB3	1.70	0.73
10:AJ:65:LEU:HB2	14:AN:56:VAL:HG13	1.68	0.73
13:AM:46:LYS:HD2	13:AM:46:LYS:H	1.54	0.73
10:AJ:64:GLU:C	14:AN:56:VAL:HG13	2.09	0.73
53:B7:47:LYS:HG2	53:B7:159:THR:HB	1.71	0.73
22:BB:1398:G:C5'	22:BB:1416:A:C2	2.70	0.73
22:BB:2490:U:H5''	25:BE:122:PHE:CZ	2.23	0.73
22:BB:742:G:H3'	24:BD:18:THR:CG2	2.18	0.73
22:BB:814:G:H2'	22:BB:816:U:OP2	1.88	0.73
22:BB:2289:A:H2	27:BG:77:PHE:CZ	2.05	0.73
22:BB:596:C:O2	33:BM:29:THR:HG21	1.87	0.73
1:CA:1092:A:H4'	7:CG:4:ARG:CD	2.18	0.73
1:CA:1347:G:C8	9:CI:107:ARG:O	2.41	0.73
13:CM:84:ILE:O	13:CM:93:ARG:CG	2.34	0.73
1:CA:1186:G:O2'	14:CN:61:TRP:O	2.06	0.73
22:DB:497:C:O2'	40:DT:77:ALA:CA	2.37	0.73
22:DB:505:G:H5''	40:DT:25:PHE:CG	2.23	0.73
22:DB:512:A:H4'	40:DT:15:LYS:HG2	1.64	0.73
25:DE:23:VAL:HB	25:DE:184:VAL:HG23	1.68	0.73
30:DJ:55:VAL:HG23	30:DJ:69:THR:HA	1.71	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:DA:52:G:P	36:DP:65:THR:OG1	2.46	0.73
22:DB:458:G:P	38:DR:3:ARG:HD3	2.29	0.73
43:DW:25:ASN:HB2	43:DW:28:ASN:HB3	1.69	0.73
22:DB:868:U:O4'	44:DX:25:LYS:HD2	1.87	0.73
41:DU:7:LEU:CD2	45:DY:27:GLU:OE2	2.27	0.73
1:EA:111:G:H5'	16:EP:27:LYS:HG2	1.70	0.73
1:EA:407:G:O2'	4:ED:116:GLN:NE2	2.21	0.73
1:EA:521:G:H5'	12:EL:71:PRO:CA	2.19	0.73
1:EA:589:C:C1'	8:EH:29:SER:CB	2.64	0.73
1:EA:927:G:C4'	1:EA:1531:A:C2	2.70	0.73
9:EI:86:VAL:HG21	9:EI:96:LEU:HD22	1.69	0.73
15:EO:29:VAL:HG13	15:EO:32:LEU:HD12	1.69	0.73
1:EA:230:G:C5'	16:EP:26:ARG:NE	2.51	0.73
23:FA:30:C:OP1	36:FP:34:SER:CB	2.23	0.73
22:FB:124:A:H4'	50:F4:19:ARG:HH11	1.51	0.73
22:FB:1:G:N1	22:FB:2876:C:C4	2.33	0.73
22:FB:3093:C:H5''	29:FI:21:LYS:N	2.02	0.73
22:FB:76:C:C5'	45:FY:52:GLN:OE1	2.36	0.73
22:FB:590:C:H5''	38:FR:32:TYR:HB2	1.70	0.73
1:GA:1061:G:H1'	10:GJ:56:HIS:HE1	1.02	0.73
1:GA:1517:G:C1'	22:HB:1902:A:O3'	2.37	0.73
1:GA:828:A:H2	2:GB:24:TRP:NE1	1.85	0.73
1:GA:658:G:H5''	15:GO:8:LYS:NZ	1.96	0.73
1:GA:254:G:C1'	17:GQ:17:LYS:C	2.57	0.73
22:HB:1455:C:N3	22:HB:1567:A:C6	2.57	0.73
22:HB:2653:A:C4'	32:HL:43:ARG:HH21	2.02	0.73
22:HB:1989:C:C1'	22:HB:2798:A:H1'	2.18	0.73
22:HB:759:C:C3'	48:H2:2:ALA:N	2.52	0.73
22:HB:941:U:O2	46:HZ:21:GLN:CA	2.37	0.73
22:HB:2550:C:O3'	25:HE:144:ARG:CG	2.37	0.73
22:HB:2357:A:H5''	36:HP:26:ARG:NH2	2.01	0.73
1:IA:1186:G:H2'	9:II:113:LYS:HE2	1.71	0.73
1:IA:1224:G:C3'	19:IS:78:ARG:HH22	2.02	0.73
1:IA:125:U:O2'	1:IA:605:U:O2	2.07	0.73
2:IB:58:ILE:O	2:IB:221:LEU:HB3	1.89	0.73
5:IE:87:SER:HA	5:IE:131:ILE:HD13	1.71	0.73
6:IF:99:ALA:HB3	18:IR:29:PHE:CE1	2.23	0.73
1:IA:1320:C:O4'	19:IS:73:GLU:OE1	2.05	0.73
22:JB:2182:A:H4'	47:J1:44:THR:OG1	1.87	0.73
22:JB:922:A:C1'	22:JB:2244:C:H5'	2.15	0.73
22:JB:2823:G:O6	37:JQ:60:SER:HB2	1.85	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:JB:339:U:O2'	42:JV:80:LYS:NZ	2.16	0.73
22:JB:511:A:C3'	22:JB:512:A:P	2.76	0.73
22:JB:63:A:C1'	41:JU:62:ARG:CG	2.67	0.73
22:JB:857:U:H3'	22:JB:858:G:O5'	1.88	0.73
24:JD:213:ARG:HE	24:JD:219:PRO:HA	1.54	0.73
1:AA:278:G:OP2	17:AQ:41:LYS:HE3	1.89	0.73
2:AB:195:ASP:O	8:AH:73:ASP:OD2	2.07	0.73
1:AA:439:A:C5'	4:AD:122:ARG:NH2	2.50	0.73
5:AE:148:VAL:HG21	8:AH:107:LEU:CB	2.16	0.73
22:BB:1003:C:N4	22:BB:1173:G:C6	2.51	0.73
22:BB:1829:C:O2'	22:BB:1910:A:O2'	2.03	0.73
22:BB:2272:A:OP1	36:BP:12:ARG:NH1	2.21	0.73
22:BB:2794:G:H3'	22:BB:2796:A:H62	1.54	0.73
22:BB:5:A:N1	22:BB:2872:U:O4	2.21	0.73
22:BB:718:A:H61	22:BB:739:G:H1'	1.52	0.73
24:BD:213:ARG:HE	24:BD:219:PRO:HA	1.54	0.73
22:BB:2035:G:C5'	25:BE:142:GLY:HA3	2.18	0.73
22:BB:2284:U:O2	27:BG:40:LEU:HD11	1.89	0.73
30:BJ:18:THR:HG23	30:BJ:19:PRO:HD3	1.69	0.73
31:BK:136:PRO:HB2	31:BK:140:GLN:HG3	1.71	0.73
1:AA:1470:G:HO2'	32:BL:17:ARG:HH12	1.33	0.73
34:BN:65:ILE:HG22	43:BW:115:ILE:HD12	1.69	0.73
40:BT:31:VAL:HG12	40:BT:33:MET:HG2	1.70	0.73
1:CA:1108:G:OP1	3:CC:176:HIS:CB	2.36	0.73
1:CA:1350:A:H1'	7:CG:33:ASP:O	1.88	0.73
1:CA:211:G:H2'	1:CA:211:G:N3	2.02	0.73
1:CA:436:C:H4'	4:CD:156:GLU:C	2.08	0.73
1:CA:436:C:H5'	4:CD:156:GLU:HB3	0.73	0.73
1:CA:718:G:C2'	11:CK:116:HIS:ND1	2.51	0.73
1:CA:1092:A:H5'	7:CG:4:ARG:HD3	1.58	0.73
10:CJ:63:PHE:CE1	14:CN:58:LYS:HG2	2.24	0.73
22:DB:2218:G:C4'	24:DD:230:ASP:HA	2.18	0.73
22:DB:38:G:H1'	26:DF:42:THR:CB	2.19	0.73
22:DB:2598:C:C1'	25:DE:154:LYS:NZ	2.49	0.73
22:DB:1018:C:C2'	31:DK:134:MET:HA	2.18	0.73
22:DB:1017:C:C2	31:DK:56:THR:HG21	2.23	0.73
37:DQ:110:LEU:HD12	37:DQ:113:LYS:HD2	1.70	0.73
32:DL:113:PRO:CG	37:DQ:76:GLY:N	2.48	0.73
34:DN:99:LYS:HB3	43:DW:74:ARG:N	2.04	0.73
44:DX:43:THR:HB	44:DX:66:LYS:N	2.03	0.73
1:EA:1266:G:OP2	1:IA:1274:G:P	2.45	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:EA:539:A:P	12:EL:114:LYS:HB3	2.27	0.73
2:EB:68:ILE:HD12	2:EB:90:MET:HG3	1.69	0.73
7:EG:24:THR:HA	7:EG:27:ILE:HD12	1.69	0.73
1:EA:243:A:C4	17:EQ:99:SER:HB2	2.24	0.73
22:FB:1488:G:C6	22:FB:1533:G:N1	2.57	0.73
22:FB:1673:C:H5''	25:FE:136:ARG:CB	2.18	0.73
22:FB:10:A:C6	22:FB:2608:A:C1'	2.72	0.73
22:FB:2794:G:H3'	22:FB:2796:A:H62	1.54	0.73
22:FB:490:A:H5'	42:FV:3:ARG:HH12	1.51	0.73
25:FE:8:LYS:HG3	25:FE:9:ILE:HG12	1.70	0.73
30:FJ:55:VAL:HG23	30:FJ:69:THR:HA	1.71	0.73
22:FB:63:A:C4'	41:FU:71:GLN:NE2	2.48	0.73
23:FA:77:G:H21	43:FW:22:VAL:CG2	2.01	0.73
1:GA:815:A:O2'	1:GA:1526:G:C2	2.40	0.73
1:GA:640:A:O2'	8:GH:116:LYS:HE2	1.88	0.73
1:GA:815:A:H3'	1:GA:1526:G:H21	1.53	0.73
22:HB:420:C:P	53:H7:197:GLU:CG	2.77	0.73
22:HB:1166:A:N3	22:HB:1168:G:C8	2.56	0.73
22:HB:1335:A:O3'	40:HT:103:LEU:CB	2.36	0.73
22:HB:1584:G:P	24:HD:59:LYS:HG2	2.28	0.73
22:HB:2463:G:H1'	34:HN:121:LEU:CD1	2.12	0.73
22:HB:2541:U:H4'	32:HL:23:ARG:CZ	2.18	0.73
25:HE:23:VAL:HB	25:HE:184:VAL:HG23	1.68	0.73
30:HJ:55:VAL:HG23	30:HJ:69:THR:HA	1.71	0.73
32:HL:86:GLY:HA3	37:HQ:84:ALA:HB2	0.75	0.73
1:IA:1098:C:OP1	2:IB:144:ARG:CB	2.31	0.73
1:IA:1117:G:H21	9:II:106:ALA:H	1.36	0.73
1:IA:186:C:O4'	20:IT:81:LYS:HE3	1.87	0.73
7:IG:64:GLN:HE21	7:IG:68:ASN:HD21	1.37	0.73
13:IM:97:PRO:HG3	13:IM:107:ALA:HB1	1.69	0.73
22:JB:2265:A:N9	49:J3:31:THR:HG21	2.04	0.73
22:JB:2283:G:O2'	27:JG:130:LEU:HA	1.88	0.73
22:JB:865:A:H61	22:JB:937:C:N4	1.87	0.73
22:JB:979:A:H4'	46:JZ:13:PRO:CB	2.14	0.73
22:JB:1812:U:H3	24:JD:200:GLU:HA	1.54	0.73
40:JT:31:VAL:HG12	40:JT:33:MET:HG2	1.70	0.73
22:JB:309:G:P	42:JV:93:ARG:HG2	2.28	0.73
22:JB:59:G:C4'	45:JY:44:ARG:NH1	2.32	0.73
1:AA:1190:G:OP2	3:AC:5:ILE:HG13	1.88	0.73
1:AA:1249:C:O2'	9:AI:73:GLN:CD	2.27	0.73
1:AA:1322:C:OP2	13:AM:91:ARG:NH2	2.22	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:211:G:H2'	1:AA:211:G:N3	2.03	0.73
1:AA:200:G:H22	1:AA:217:C:N4	1.87	0.73
1:AA:1248:A:O2'	9:AI:70:LYS:HE2	1.82	0.73
22:BB:1197:U:OP1	46:BZ:26:ARG:NH1	2.17	0.73
22:BB:1395:A:H5'	22:BB:1588:A:N6	2.03	0.73
22:BB:1829:C:O2'	22:BB:1910:A:N3	2.17	0.73
22:BB:1979:C:H2'	22:BB:1980:A:H4'	1.71	0.73
22:BB:2503:G:N9	22:BB:2744:A:C2	2.55	0.73
22:BB:2601:C:OP1	25:BE:159:HIS:CB	2.36	0.73
22:BB:57:G:C2'	22:BB:72:A:N6	2.51	0.73
1:CA:1159:U:H1'	1:CA:1160:G:N7	2.02	0.73
1:CA:200:G:H22	1:CA:217:C:N4	1.87	0.73
6:CF:99:ALA:HB2	18:CR:31:LEU:CG	2.19	0.73
1:CA:1359:C:OP1	14:CN:22:THR:OG1	2.06	0.73
22:DB:1818:G:H21	22:DB:1883:A:H2	1.37	0.73
22:DB:2328:G:P	51:D5:41:ILE:HD11	2.18	0.73
22:DB:2745:A:O3'	22:DB:2746:G:C5'	2.25	0.73
22:DB:542:A:N7	22:DB:570:G:N2	2.37	0.73
22:DB:814:G:H2'	22:DB:816:U:OP2	1.88	0.73
22:DB:60:A:N6	22:DB:92:U:C4	2.52	0.73
22:DB:1797:C:O2'	24:DD:49:ILE:CG1	2.36	0.73
29:DI:26:ARG:HG3	47:D1:73:LYS:O	1.87	0.73
35:DO:10:LEU:HD21	35:DO:14:SER:HA	1.69	0.73
22:DB:497:C:O2'	40:DT:77:ALA:CB	2.36	0.73
22:DB:887:G:N7	43:DW:167:THR:HG23	2.02	0.73
1:EA:1136:U:N3	1:EA:1136:U:C1'	2.51	0.73
1:EA:211:G:N3	1:EA:211:G:H2'	2.03	0.73
1:EA:827:U:C5'	8:EH:19:VAL:CG2	2.56	0.73
10:EJ:51:ARG:HB2	10:EJ:59:SER:HB3	1.70	0.73
1:EA:690:G:OP1	11:EK:27:ASN:HB3	1.88	0.73
1:EA:1311:G:N7	19:ES:2:PRO:HA	2.03	0.73
53:F7:47:LYS:HG2	53:F7:159:THR:HB	1.71	0.73
22:FB:113:C:HO2'	22:FB:125:A:C4'	1.99	0.73
22:FB:1453:A:OP2	22:FB:1454:U:O4	2.06	0.73
22:FB:2470:U:C2	22:FB:2548:G:O3'	2.42	0.73
22:FB:503:G:H4'	40:FT:29:LYS:HD2	1.71	0.73
22:FB:814:G:H2'	22:FB:816:U:OP2	1.88	0.73
22:FB:3093:C:H4'	29:FI:21:LYS:CG	2.18	0.73
1:GA:919:A:O2'	1:GA:1079:G:O6	2.06	0.73
1:GA:413:G:H21	1:GA:428:G:H21	1.37	0.73
4:GD:74:GLN:HA	4:GD:77:ASN:HD22	1.54	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:HB:3875:A:N3	53:H7:42:LYS:C	2.42	0.73
22:HB:1234:C:H5''	39:HS:68:LYS:HD2	0.74	0.73
22:HB:1816:G:O2'	24:HD:246:PRO:C	2.26	0.73
22:HB:423:G:H2'	22:HB:2386:G:C8	2.24	0.73
22:HB:511:A:N1	40:HT:12:LYS:HB3	2.03	0.73
25:HE:6:GLY:HA2	25:HE:195:LEU:HA	1.71	0.73
23:HA:44:C:H1'	27:HG:90:THR:O	1.88	0.73
22:HB:818:G:O5'	33:HM:42:GLY:CA	2.35	0.73
22:HB:173:A:P	33:HM:55:ARG:HH22	2.11	0.73
1:IA:1328:C:P	13:IM:28:ALA:HB2	2.28	0.73
1:IA:1309:G:H8	13:IM:99:ARG:HH12	1.36	0.73
1:IA:451:A:H5''	16:IP:72:ARG:HH22	1.49	0.73
1:IA:246:A:O3'	17:IQ:99:SER:OG	2.06	0.73
22:JB:1074:G:O2'	30:JJ:88:SER:N	2.21	0.73
22:JB:2261:G:N1	22:JB:2404:A:N9	2.37	0.73
22:JB:2372:A:O5'	33:JM:60:LEU:O	2.06	0.73
22:JB:226:C:O2'	22:JB:2373:C:H1'	1.78	0.73
22:JB:1087:C:C4'	30:JJ:90:THR:O	2.36	0.73
31:JK:136:PRO:HB2	31:JK:140:GLN:HG3	1.71	0.73
34:JN:107:VAL:CB	43:JW:112:LEU:HB3	1.87	0.73
22:JB:1265:G:C1'	38:JR:32:TYR:HE1	2.00	0.73
1:AA:1517:G:H8	22:BB:1902:A:O3'	1.69	0.73
7:AG:64:GLN:HE21	7:AG:68:ASN:HD21	1.37	0.73
1:AA:974:A:N3	14:AN:31:ARG:HG2	2.03	0.73
22:BB:1398:G:C4'	22:BB:1416:A:C2	2.71	0.73
22:BB:1804:U:H1'	24:BD:46:ARG:CG	1.77	0.73
22:BB:2303:C:H1'	22:BB:2316:G:H4'	1.69	0.73
22:BB:2422:C:O3'	26:BF:62:LYS:CE	2.33	0.73
22:BB:1675:C:OP1	25:BE:134:TRP:CE3	2.42	0.73
22:BB:2043:A:OP1	26:BF:66:ASN:ND2	2.21	0.73
32:BL:100:ASN:HB2	32:BL:104:GLU:H	1.53	0.73
1:CA:1367:C:O3'	10:CJ:62:HIS:CE1	2.41	0.73
1:CA:280:C:N4	17:CQ:88:TYR:CD1	2.57	0.73
2:CB:102:LEU:HD12	2:CB:102:LEU:H	1.53	0.73
1:CA:1074:G:C1'	2:CB:104:ASN:CB	2.63	0.73
1:CA:1104:G:HO2'	2:CB:111:ARG:HH11	1.34	0.73
3:CC:95:THR:HB	3:CC:97:LYS:HG2	1.71	0.73
4:CD:74:GLN:HA	4:CD:77:ASN:HD22	1.54	0.73
7:CG:64:GLN:HE21	7:CG:68:ASN:HD21	1.37	0.73
53:D7:47:LYS:HG2	53:D7:159:THR:HB	1.70	0.73
22:DB:930:A:C1'	23:DA:82:U:O2'	2.36	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:DB:1979:C:H2'	22:DB:1980:A:H4'	1.71	0.73
22:DB:2735:C:N4	52:D6:35:ARG:HH22	1.85	0.73
22:DB:2794:G:H3'	22:DB:2796:A:H62	1.54	0.73
22:DB:697:G:OP1	50:D4:16:HIS:CB	2.37	0.73
22:DB:868:U:H1'	44:DX:25:LYS:CG	2.14	0.73
22:DB:1834:G:O2'	24:DD:244:ARG:HG3	1.88	0.73
22:DB:756:C:C5'	25:DE:130:GLY:H	2.02	0.73
22:DB:2551:A:N6	25:DE:144:ARG:HB2	2.02	0.73
26:DF:115:GLY:H	26:DF:185:ARG:HG3	1.52	0.73
34:DN:103:VAL:O	43:DW:117:VAL:CG1	2.34	0.73
37:DQ:33:VAL:HG21	37:DQ:57:ILE:HD12	1.71	0.73
22:DB:1231:A:OP1	38:DR:30:LYS:NZ	2.22	0.73
43:DW:84:TYR:CD2	43:DW:128:ARG:CG	2.72	0.73
1:EA:200:G:H22	1:EA:217:C:N4	1.87	0.73
5:EE:87:SER:HA	5:EE:131:ILE:HD13	1.71	0.73
7:EG:64:GLN:HE21	7:EG:68:ASN:HD21	1.37	0.73
22:FB:2375:G:O6	51:F5:31:HIS:CE1	2.36	0.73
22:FB:597:U:OP1	33:FM:28:LYS:HD2	1.89	0.73
22:FB:63:A:C6	41:FU:64:ARG:HD2	2.24	0.73
22:FB:685:U:O2'	26:FF:73:SER:O	2.07	0.73
27:FG:132:ILE:HG13	27:FG:153:ASP:HA	1.69	0.73
33:FM:63:ARG:CZ	51:F5:12:ARG:HD3	2.18	0.73
35:FO:10:LEU:HD21	35:FO:14:SER:HA	1.69	0.73
22:FB:1289:A:C2	35:FO:23:ALA:CB	2.72	0.73
38:FR:101:ARG:HH21	38:FR:102:GLU:HB2	1.53	0.73
1:GA:1224:G:O2'	13:GM:102:ARG:CA	2.37	0.73
1:GA:1240:U:O4	7:GG:119:ARG:CZ	2.37	0.73
9:GI:24:GLY:HA3	9:GI:57:GLY:HA2	1.71	0.73
11:GK:116:HIS:CD2	18:GR:81:PHE:CE2	2.76	0.73
22:HB:2063:A:O3'	47:H1:33:VAL:CB	2.37	0.73
22:HB:1261:G:H3'	38:HR:3:ARG:H	1.53	0.73
22:HB:1487:C:C2	22:HB:1536:G:C2	2.77	0.73
22:HB:2029:G:OP1	48:H2:15:LYS:CE	2.37	0.73
22:HB:498:C:C6	40:HT:77:ALA:HB2	2.22	0.73
22:HB:5:A:N3	22:HB:2873:G:C2	2.56	0.73
22:HB:2620:G:C5'	31:HK:102:ARG:HH12	1.97	0.73
1:IA:1057:G:OP1	3:IC:155:GLY:CA	2.19	0.73
1:IA:278:G:C8	17:IQ:95:TYR:HD2	2.01	0.73
1:IA:413:G:H21	1:IA:428:G:H21	1.37	0.73
2:IB:22:LYS:HB2	2:IB:39:ILE:HG12	1.69	0.73
9:II:24:GLY:HA3	9:II:57:GLY:HA2	1.71	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:II:86:VAL:HG21	9:II:96:LEU:HD22	1.70	0.73
1:IA:1321:C:C4'	13:IM:87:TYR:CZ	2.72	0.73
22:JB:1040:A:C3'	34:JN:125:LYS:NZ	2.52	0.73
22:JB:1486:A:C2	22:JB:1535:C:N4	2.56	0.73
22:JB:15:G:O5'	48:J2:21:SER:HB2	1.89	0.73
22:JB:1743:C:OP2	37:JQ:123:ARG:CB	2.37	0.73
22:JB:2056:C:H5'	24:JD:229:VAL:HG22	1.70	0.73
22:JB:922:A:O2'	22:JB:2243:C:O3'	2.04	0.73
22:JB:3122:U:OP1	53:J7:128:LEU:HB3	1.88	0.73
22:JB:402:A:C5	22:JB:2392:G:H4'	2.23	0.73
22:JB:1261:G:C6	26:JF:44:SER:CB	2.71	0.73
22:JB:93:A:N1	45:JY:41:HIS:CE1	2.57	0.73
1:AA:619:U:H1'	4:AD:133:VAL:HG22	1.70	0.72
4:AD:74:GLN:HA	4:AD:77:ASN:HD22	1.54	0.72
22:BB:156:G:HO2'	50:B4:35:ARG:NH2	1.85	0.72
22:BB:1044:U:C5	52:B6:15:LYS:CG	2.67	0.72
22:BB:1162:A:H4'	38:BR:81:ASN:CB	2.18	0.72
22:BB:1398:G:N3	22:BB:1416:A:C4	2.56	0.72
22:BB:1831:G:C8	22:BB:1910:A:H1'	2.22	0.72
22:BB:2771:C:N3	22:BB:2781:G:N1	2.37	0.72
22:BB:3175:C:O2	53:B7:206:LYS:HE2	1.88	0.72
24:BD:159:ALA:HB2	24:BD:202:LYS:HG2	1.71	0.72
38:BR:80:ILE:HG23	38:BR:83:LEU:HD12	1.71	0.72
22:BB:2236:U:OP1	44:BX:10:SER:CA	2.36	0.72
44:BX:43:THR:HB	44:BX:66:LYS:N	2.03	0.72
1:CA:15:G:N2	5:CE:18:ARG:N	1.87	0.72
1:CA:545:C:C5'	4:CD:72:GLU:HB2	2.19	0.72
1:CA:546:G:OP2	4:CD:71:SER:CA	2.36	0.72
1:CA:794:A:C2	1:CA:1506:U:OP1	2.42	0.72
1:CA:598:U:O2'	8:CH:131:GLY:O	2.06	0.72
1:CA:644:G:H1'	8:CH:92:ARG:HD3	1.71	0.72
10:CJ:63:PHE:CA	14:CN:59:ALA:N	2.51	0.72
18:CR:47:THR:HA	18:CR:83:GLU:HB2	1.70	0.72
20:CT:84:LEU:HD23	20:CT:87:LYS:HD2	1.69	0.72
1:CA:349:A:C2'	20:CT:8:ARG:CZ	2.67	0.72
22:DB:1674:C:OP1	25:DE:134:TRP:CB	2.34	0.72
22:DB:2040:A:H1'	48:D2:3:LYS:CB	2.19	0.72
22:DB:2623:A:H3'	22:DB:2624:G:P	2.27	0.72
22:DB:2653:A:C2'	32:DL:41:ASN:OD1	2.36	0.72
22:DB:487:G:N2	22:DB:491:A:N6	2.35	0.72
22:DB:567:G:C1'	31:DK:73:ASN:HA	2.19	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:DB:590:C:H5'	38:DR:32:TYR:HB3	1.71	0.72
22:DB:2661:G:N7	25:DE:10:GLY:O	2.22	0.72
25:DE:106:GLY:H	25:DE:165:VAL:HG22	1.54	0.72
22:DB:2463:G:H21	34:DN:120:ARG:HD3	0.91	0.72
22:DB:337:G:HO2'	42:DV:9:HIS:HE2	1.34	0.72
1:EA:243:A:O2'	17:EQ:99:SER:OG	2.06	0.72
1:EA:262:A:H5'	20:ET:74:LYS:HD3	0.73	0.72
1:EA:279:A:C2'	17:EQ:94:ASN:O	2.36	0.72
1:EA:392:G:H5'	16:EP:13:HIS:CB	2.14	0.72
22:FB:1889:G:P	22:FB:1913:G:C8	2.81	0.72
22:FB:2714:A:O4'	25:FE:205:SER:CB	2.38	0.72
22:FB:469:G:H3'	50:F4:40:HIS:NE2	2.04	0.72
22:FB:600:G:OP1	26:FF:92:ASP:OD1	2.06	0.72
22:FB:844:G:O3'	33:FM:41:SER:OG	2.07	0.72
22:FB:2035:G:C5	25:FE:150:VAL:HG22	2.24	0.72
27:FG:104:ILE:HG22	27:FG:176:PRO:HD2	1.71	0.72
34:FN:34:GLY:HA2	34:FN:104:MET:HG3	1.71	0.72
40:FT:31:VAL:HG12	40:FT:33:MET:HG2	1.70	0.72
1:GA:970:C:H1'	13:GM:126:LYS:HD3	1.69	0.72
2:GB:102:LEU:H	2:GB:102:LEU:HD12	1.53	0.72
1:GA:718:G:C8	11:GK:116:HIS:HB3	2.23	0.72
1:GA:751:U:O2'	15:GO:28:GLN:NE2	2.21	0.72
1:GA:127:G:O2'	17:GQ:3:LYS:HA	1.89	0.72
17:GQ:9:VAL:HG22	17:GQ:56:VAL:HG13	1.71	0.72
1:GA:835:U:OP1	18:GR:61:LYS:HA	1.89	0.72
22:HB:1338:G:H21	40:HT:106:LEU:CB	2.01	0.72
22:HB:1453:A:C2	22:HB:1454:U:O4'	2.41	0.72
22:HB:1727:C:C4'	22:HB:2833:C:O2	2.36	0.72
22:HB:2064:U:C5'	47:H1:33:VAL:HG11	2.17	0.72
22:HB:2574:G:H22	22:HB:2576:G:H3'	1.54	0.72
22:HB:2617:G:N3	22:HB:2617:G:H2'	2.03	0.72
22:HB:658:G:H4'	22:HB:2330:G:H5''	1.69	0.72
22:HB:1805:G:H21	24:HD:51:SER:CB	1.99	0.72
31:HK:136:PRO:HB2	31:HK:140:GLN:HG3	1.71	0.72
32:HL:85:ASP:O	37:HQ:84:ALA:HB3	1.89	0.72
22:HB:1288:A:H1'	35:HO:13:ASN:OD1	1.88	0.72
23:HA:52:G:OP2	36:HP:64:LYS:HD3	1.89	0.72
22:HB:514:G:N2	40:HT:14:ARG:O	2.22	0.72
42:HV:48:VAL:HG13	42:HV:50:GLY:H	1.52	0.72
22:HB:2235:G:O2'	44:HX:9:SER:N	2.21	0.72
1:IA:644:G:C5'	8:IH:92:ARG:NH2	2.52	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:IA:735:C:H1'	6:IF:89:MET:HE1	1.70	0.72
13:IM:46:LYS:H	13:IM:46:LYS:HD2	1.54	0.72
1:IA:975:A:O2'	14:IN:31:ARG:HB3	1.89	0.72
15:IO:29:VAL:HG13	15:IO:32:LEU:HD12	1.69	0.72
17:IQ:9:VAL:HG22	17:IQ:56:VAL:HG13	1.71	0.72
22:JB:1261:G:H21	38:JR:3:ARG:HH11	1.37	0.72
22:JB:1979:C:H2'	22:JB:1980:A:H4'	1.71	0.72
22:JB:226:C:C4	22:JB:2374:C:C4'	2.71	0.72
22:JB:2315:A:C5	44:JX:70:ILE:HD12	2.23	0.72
22:JB:2574:G:H22	22:JB:2576:G:H3'	1.54	0.72
22:JB:2670:C:OP2	35:JO:17:ARG:NH2	2.12	0.72
22:JB:626:A:H2	26:JF:172:VAL:HG12	0.95	0.72
22:JB:1813:A:OP2	24:JD:202:LYS:HG2	1.88	0.72
27:JG:100:LEU:HA	27:JG:103:LEU:HB2	1.69	0.72
22:JB:2629:U:H5'	32:JL:29:ILE:CD1	2.19	0.72
22:JB:884:C:H4'	34:JN:70:PHE:CD2	2.23	0.72
22:JB:2823:G:N1	37:JQ:105:TYR:CE2	2.56	0.72
22:JB:1265:G:C1'	38:JR:32:TYR:CE1	2.69	0.72
38:JR:88:ILE:N	39:JS:51:ALA:HB3	2.03	0.72
1:AA:1224:G:C3'	19:AS:78:ARG:HH22	2.02	0.72
1:AA:1228:C:O2	13:AM:120:LYS:CA	2.36	0.72
1:AA:276:G:N3	17:AQ:68:ARG:NH2	2.37	0.72
1:AA:380:G:H1	1:AA:383:A:H62	1.37	0.72
1:AA:509:A:N7	4:AD:54:TYR:CE2	2.57	0.72
3:AC:132:ARG:CZ	4:AD:47:ARG:HH12	2.02	0.72
9:AI:11:LYS:HA	9:AI:104:ARG:HH21	1.52	0.72
18:AR:47:THR:HA	18:AR:83:GLU:HB2	1.70	0.72
22:BB:1379:A:C5'	47:B1:4:ASP:OD2	2.37	0.72
22:BB:1829:C:C1'	22:BB:1911:A:O2'	2.37	0.72
22:BB:2574:G:H22	22:BB:2576:G:H3'	1.54	0.72
22:BB:2724:G:H1'	28:BH:143:GLN:CG	2.14	0.72
22:BB:2786:G:H5'	25:BE:59:VAL:HG13	1.69	0.72
22:BB:460:U:H2'	26:BF:78:VAL:CG2	2.19	0.72
22:BB:699:G:O2'	50:B4:6:GLN:CB	2.36	0.72
22:BB:763:A:OP1	40:BT:109:ARG:O	2.05	0.72
22:BB:2753:C:H5''	25:BE:164:ARG:HG2	1.71	0.72
22:BB:2645:C:O2	28:BH:109:TYR:HE2	1.25	0.72
22:BB:1148:G:O2'	31:BK:134:MET:SD	2.47	0.72
32:BL:23:ARG:HH21	32:BL:24:VAL:H	1.36	0.72
1:CA:1102:A:C2	2:CB:104:ASN:ND2	2.57	0.72
1:CA:919:A:O3'	1:CA:920:U:P	2.47	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:922:G:O2'	5:CE:21:ALA:CB	2.32	0.72
1:CA:954:G:O4'	13:CM:122:LYS:O	2.07	0.72
1:CA:753:A:O2'	8:CH:1:MET:HA	1.89	0.72
33:DM:52:GLY:CA	51:D5:55:TRP:CZ3	2.71	0.72
23:DA:30:C:OP1	36:DP:34:SER:OG	2.07	0.72
22:DB:1508:G:OP1	24:DD:100:GLY:CA	2.37	0.72
22:DB:2206:C:H4'	24:DD:261:ARG:NH2	2.04	0.72
22:DB:2574:G:H22	22:DB:2576:G:H3'	1.54	0.72
22:DB:777:A:H1'	24:DD:210:GLY:HA3	1.71	0.72
25:DE:195:LEU:HD21	37:DQ:2:GLN:CD	2.10	0.72
42:DV:58:VAL:HG23	42:DV:60:PRO:HD3	1.71	0.72
34:DN:131:LYS:HZ2	43:DW:69:VAL:CB	2.00	0.72
1:EA:1159:U:H1'	1:EA:1160:G:N7	2.02	0.72
1:EA:518:C:C2	12:EL:50:SER:HB3	2.23	0.72
1:EA:793:U:C2	1:EA:1516:G:H4'	2.24	0.72
22:FB:124:A:C8	50:F4:19:ARG:HB2	2.23	0.72
23:FA:10:U:H1'	36:FP:28:ARG:HH22	1.53	0.72
23:FA:117:G:O3'	36:FP:52:ALA:C	2.26	0.72
22:FB:2276:C:O3'	27:FG:71:LYS:NZ	2.22	0.72
22:FB:497:C:H4'	40:FT:80:LEU:HD13	1.70	0.72
22:FB:891:A:C6	22:FB:909:C:C4	2.77	0.72
22:FB:2035:G:H5''	25:FE:142:GLY:HA3	1.54	0.72
25:FE:152:LYS:N	31:FK:106:TYR:CZ	2.49	0.72
28:FH:146:ALA:HA	28:FH:149:ARG:HD3	1.69	0.72
22:FB:572:G:H21	38:FR:33:ARG:HH22	1.33	0.72
43:FW:84:TYR:CB	43:FW:93:GLU:OE1	2.38	0.72
1:GA:1251:A:H2'	1:GA:1252:A:O4'	1.88	0.72
1:GA:1196:U:H5	1:GA:1397:C:C4	2.07	0.72
1:GA:309:G:H1'	1:GA:608:A:H61	1.54	0.72
1:GA:1103:C:C5'	2:GB:98:LEU:HD13	2.19	0.72
9:GI:111:ARG:HD2	14:GN:61:TRP:HZ2	1.52	0.72
22:HB:1043:A:O2'	52:H6:16:VAL:HB	1.89	0.72
22:HB:1817:U:OP1	24:HD:224:SER:CA	2.38	0.72
22:HB:2493:U:H4'	25:HE:151:TYR:CE1	2.23	0.72
22:HB:9:U:OP2	31:HK:36:ASN:ND2	2.13	0.72
22:HB:636:G:O6	33:HM:97:ARG:NE	2.21	0.72
22:HB:917:U:C3'	43:HW:118:HIS:CD2	2.72	0.72
1:IA:1228:C:H2'	1:IA:1229:A:N7	2.03	0.72
10:IJ:64:GLU:CG	14:IN:59:ALA:HB2	2.18	0.72
1:IA:332:G:C1'	20:IT:16:HIS:NE2	2.44	0.72
47:J1:30:GLU:HG3	47:J1:32:HIS:NE2	2.04	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:JB:2737:A:N7	52:J6:18:ARG:NH1	2.38	0.72
23:JA:30:C:OP2	36:JP:34:SER:CB	2.38	0.72
22:JB:1172:U:C2'	39:JS:22:VAL:HG13	2.19	0.72
22:JB:50:G:C2	22:JB:117:A:N3	2.57	0.72
22:JB:1201:G:OP1	39:JS:83:ARG:CG	2.33	0.72
22:JB:2362:G:C6	49:J3:26:LYS:O	2.41	0.72
22:JB:2617:G:N3	22:JB:2617:G:H2'	2.03	0.72
22:JB:634:G:C8	33:JM:98:LEU:HD21	2.24	0.72
25:JE:6:GLY:HA2	25:JE:195:LEU:HA	1.71	0.72
22:JB:647:G:O6	33:JM:128:ALA:HB2	1.89	0.72
22:JB:940:G:C2	46:JZ:40:VAL:HG22	2.23	0.72
1:AA:1059:C:H4'	14:AN:45:ARG:CZ	2.14	0.72
9:AI:86:VAL:HG21	9:AI:96:LEU:HD22	1.70	0.72
13:AM:73:GLU:HA	13:AM:76:ALA:HB3	1.71	0.72
23:BA:92:G:O6	34:BN:39:GLU:CG	2.38	0.72
22:BB:1140:A:C5'	31:BK:107:GLN:HG3	2.19	0.72
22:BB:2598:C:C2'	25:BE:154:LYS:HZ2	2.02	0.72
30:BJ:55:VAL:HG23	30:BJ:69:THR:HA	1.71	0.72
34:BN:106:GLU:C	43:BW:113:VAL:HG11	2.09	0.72
23:BA:93:G:O3'	34:BN:23:LYS:NZ	2.22	0.72
1:CA:380:G:H1	1:CA:383:A:H62	1.37	0.72
1:CA:597:G:H2'	8:CH:94:TYR:CD1	2.24	0.72
1:CA:8:A:H5'	5:CE:121:LYS:HA	1.71	0.72
1:CA:258:G:H5'	20:CT:83:ARG:NH2	2.04	0.72
22:DB:469:G:C8	50:D4:40:HIS:CD2	2.77	0.72
32:DL:15:GLY:HA3	32:DL:60:PRO:HD3	1.71	0.72
32:DL:23:ARG:HH21	32:DL:24:VAL:H	1.36	0.72
22:DB:1216:G:N2	33:DM:14:LYS:HZ1	1.87	0.72
33:DM:60:LEU:HB3	51:D5:27:SER:OG	1.88	0.72
34:DN:103:VAL:H	34:DN:104:MET:HE1	1.54	0.72
38:DR:80:ILE:HG23	38:DR:83:LEU:HD12	1.71	0.72
22:DB:1237:G:C5'	39:DS:87:ARG:CD	2.67	0.72
34:DN:37:ALA:CA	43:DW:74:ARG:NH2	2.51	0.72
1:EA:380:G:H1	1:EA:383:A:H62	1.37	0.72
1:EA:928:G:H5''	1:EA:1533:C:N4	2.04	0.72
6:EF:48:LEU:HD22	18:ER:77:GLY:O	1.88	0.72
8:EH:91:ARG:NH1	17:EQ:34:LYS:HZ1	1.87	0.72
18:ER:47:THR:HA	18:ER:83:GLU:HB2	1.70	0.72
22:FB:1979:C:H2'	22:FB:1980:A:H4'	1.71	0.72
22:FB:2056:C:H5''	24:FD:229:VAL:HG22	1.72	0.72
22:FB:2551:A:H61	25:FE:145:LYS:H	1.32	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:FB:2714:A:N7	22:FB:2750:G:C2	2.57	0.72
22:FB:3093:C:C2	22:FB:2181:A:N6	2.57	0.72
22:FB:58:C:C1'	22:FB:72:A:C4	2.72	0.72
22:FB:865:A:H61	22:FB:937:C:N4	1.86	0.72
32:FL:91:PHE:CE1	37:FQ:79:ARG:CD	2.72	0.72
22:FB:607:C:O2	33:FM:22:GLY:HA2	1.89	0.72
22:FB:2448:A:C4'	34:FN:58:HIS:HE1	2.00	0.72
1:GA:1111:A:C2	3:GC:177:THR:HB	2.25	0.72
1:GA:1228:C:H2'	1:GA:1229:A:N7	2.04	0.72
1:GA:922:G:N1	1:GA:1395:C:N4	2.20	0.72
1:GA:324:G:N2	1:GA:326:G:H3'	2.05	0.72
1:GA:668:G:O2'	15:GO:45:VAL:CG1	2.37	0.72
11:GK:20:TYR:HB2	11:GK:31:THR:HB	1.68	0.72
1:GA:947:G:P	13:GM:114:ARG:HG3	2.29	0.72
22:HB:3168:G:O6	53:H7:101:LYS:CE	2.38	0.72
22:HB:1141:U:OP2	31:HK:107:GLN:OE1	2.04	0.72
22:HB:2250:G:P	44:HX:18:PRO:CD	2.78	0.72
22:HB:625:A:H62	26:HF:172:VAL:HG21	1.54	0.72
29:HI:39:THR:HG23	29:HI:41:THR:H	1.54	0.72
22:HB:1148:G:H5'	31:HK:133:GLY:HA3	1.70	0.72
38:HR:17:VAL:HG23	39:HS:75:LYS:HZ2	1.41	0.72
42:HV:58:VAL:HG23	42:HV:60:PRO:HD3	1.71	0.72
1:IA:324:G:N2	1:IA:326:G:H3'	2.05	0.72
1:IA:43:C:H5''	16:IP:11:SER:HB2	1.71	0.72
4:ID:74:GLN:HA	4:ID:77:ASN:HD22	1.54	0.72
1:IA:247:G:H5'	17:IQ:100:LYS:HD2	0.78	0.72
22:JB:1217:U:C2	33:JM:14:LYS:NZ	2.57	0.72
22:JB:2659:C:OP2	25:JE:109:LYS:HD2	1.89	0.72
22:JB:455:A:N7	26:JF:39:ARG:CD	2.52	0.72
34:JN:34:GLY:HA2	34:JN:104:MET:HG3	1.72	0.72
22:JB:1744:G:C8	37:JQ:123:ARG:O	2.40	0.72
2:AB:58:ILE:O	2:AB:221:LEU:HB3	1.89	0.72
1:AA:1349:A:O3'	9:AI:121:ARG:NH1	2.22	0.72
11:AK:13:GLN:HE22	11:AK:75:TYR:HB3	1.54	0.72
1:AA:529:G:C2	12:AL:49:ASN:ND2	2.56	0.72
22:BB:2790:C:H2'	48:B2:43:HIS:CG	2.24	0.72
23:BA:44:C:C2	27:BG:90:THR:CA	2.70	0.72
23:BA:59:A:C5'	27:BG:23:SER:CB	2.65	0.72
22:BB:1045:G:H1'	22:BB:1133:G:H22	1.55	0.72
22:BB:1268:U:H5'	22:BB:1269:G:H5''	1.69	0.72
22:BB:1805:G:H5''	24:BD:43:ARG:CB	2.18	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:BB:2753:C:C1'	25:BE:163:GLU:OE1	2.36	0.72
22:BB:3093:C:C4	22:BB:2204:A:N6	2.57	0.72
22:BB:677:G:O4'	22:BB:951:G:C5'	2.32	0.72
22:BB:1108:U:O2	30:BJ:8:VAL:CG1	2.38	0.72
32:BL:76:ARG:HD2	32:BL:90:ARG:NH2	2.04	0.72
22:BB:2357:A:O3'	36:BP:19:THR:HG21	1.89	0.72
1:CA:1296:C:O3'	13:CM:13:LYS:NZ	2.22	0.72
1:CA:227:G:H21	16:CP:62:VAL:CA	2.02	0.72
2:CB:68:ILE:HG22	2:CB:69:LEU:H	1.54	0.72
1:CA:559:A:H2	5:CE:125:SER:HA	1.51	0.72
1:CA:1382:C:C4'	7:CG:79:ARG:CD	2.66	0.72
22:DB:176:A:C3'	47:D1:31:ILE:HG22	2.18	0.72
47:D1:30:GLU:HG3	47:D1:32:HIS:NE2	2.04	0.72
22:DB:121:G:H5"	22:DB:1388:C:O2'	1.88	0.72
22:DB:1795:C:H5"	24:DD:250:TRP:CE2	2.23	0.72
22:DB:2786:G:O4'	25:DE:59:VAL:CG1	2.30	0.72
22:DB:917:U:H1'	43:DW:166:LEU:HD22	1.71	0.72
22:DB:1834:G:O2'	24:DD:244:ARG:CG	2.36	0.72
25:DE:106:GLY:HA3	25:DE:189:PRO:HB2	1.70	0.72
1:EA:523:A:C6	12:EL:90:VAL:HG13	2.25	0.72
1:EA:1240:U:OP1	7:EG:115:ARG:CB	2.37	0.72
1:EA:1226:C:C3'	13:EM:111:LYS:HZ2	2.02	0.72
13:EM:46:LYS:H	13:EM:46:LYS:HD2	1.54	0.72
22:FB:1399:C:H1'	22:FB:1484:G:H21	1.51	0.72
22:FB:1581:C:N4	24:FD:84:TYR:OH	2.22	0.72
22:FB:1827:G:N2	22:FB:1913:G:N2	2.37	0.72
22:FB:2039:G:N2	48:F2:2:ALA:HA	2.04	0.72
22:FB:2292:C:C5'	27:FG:87:ILE:HD12	2.18	0.72
22:FB:2662:C:N4	22:FB:2708:U:O4'	2.21	0.72
22:FB:2716:G:O6	22:FB:2749:A:C4	2.42	0.72
22:FB:1504:G:C2	24:FD:99:ASP:HA	2.25	0.72
41:FU:7:LEU:HB2	41:FU:41:ALA:HB1	1.70	0.72
42:FV:58:VAL:HG23	42:FV:60:PRO:HD3	1.71	0.72
43:FW:10:PRO:HA	43:FW:13:LYS:HD2	1.71	0.72
1:GA:1103:C:H5"	2:GB:98:LEU:HD13	1.71	0.72
1:GA:274:A:H5"	17:GQ:14:LYS:CE	2.19	0.72
1:GA:668:G:H1'	15:GO:45:VAL:CB	2.19	0.72
1:GA:551:U:O2'	12:GL:119:LYS:HE2	1.89	0.72
17:GQ:53:LEU:HD12	17:GQ:85:VAL:HG21	1.69	0.72
1:GA:254:G:C5'	17:GQ:69:LYS:HD2	2.19	0.72
22:HB:1261:G:C8	38:HR:2:PRO:CA	2.72	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:HB:1338:G:H1'	40:HT:117:ILE:HD13	1.71	0.72
22:HB:51:A:H1'	22:HB:155:G:N2	2.04	0.72
22:HB:1979:C:H2'	22:HB:1980:A:H4'	1.71	0.72
22:HB:647:G:C5	33:HM:128:ALA:CB	2.65	0.72
24:HD:159:ALA:HB2	24:HD:202:LYS:HG2	1.71	0.72
1:IA:1187:G:C8	9:II:113:LYS:CE	2.71	0.72
1:IA:1205:U:H5'	3:IC:195:VAL:HG21	1.71	0.72
1:IA:1251:A:H2'	1:IA:1252:A:O4'	1.89	0.72
1:IA:575:G:H4'	1:IA:576:G:H5'	1.71	0.72
1:IA:735:C:O4'	18:IR:75:ILE:HD12	1.89	0.72
3:IC:9:GLY:HA2	3:IC:12:LEU:HD12	1.72	0.72
1:IA:238:G:P	17:IQ:38:ARG:NH2	2.48	0.72
22:JB:634:G:O3'	51:J5:63:PRO:HG3	1.88	0.72
23:JA:116:C:O3'	36:JP:50:THR:HB	1.87	0.72
22:JB:16:G:C5'	48:J2:17:ASP:CG	1.95	0.72
22:JB:2373:C:P	33:JM:62:LYS:HA	2.29	0.72
22:JB:2714:A:N6	22:JB:2749:A:H2	1.87	0.72
22:JB:2826:C:H1'	35:JO:61:HIS:CB	2.19	0.72
22:JB:3175:C:C4'	53:J7:31:GLU:CD	2.49	0.72
22:JB:3177:C:OP1	53:J7:163:PRO:O	2.07	0.72
22:JB:469:G:OP1	50:J4:40:HIS:C	2.27	0.72
22:JB:1812:U:C3'	24:JD:159:ALA:HB1	2.13	0.72
27:JG:104:ILE:HG22	27:JG:176:PRO:HD2	1.71	0.72
30:JJ:55:VAL:HG23	30:JJ:69:THR:HA	1.70	0.72
22:JB:1002:C:O2'	39:JS:86:HIS:CB	2.37	0.72
22:JB:491:A:C5'	42:JV:72:ARG:CG	2.64	0.72
22:JB:869:C:H1'	44:JX:24:LYS:HG2	1.71	0.72
23:JA:14:C:C3'	44:JX:53:MET:HE2	2.14	0.72
1:AA:1239:A:C3'	7:AG:115:ARG:HG3	2.13	0.72
1:AA:1496:C:H1'	22:BB:1902:A:H2	1.54	0.72
1:AA:255:G:P	17:AQ:45:HIS:CE1	2.81	0.72
13:AM:68:GLY:HA2	13:AM:71:ARG:CZ	2.19	0.72
10:AJ:65:LEU:CB	14:AN:56:VAL:HA	2.20	0.72
10:AJ:65:LEU:CB	14:AN:56:VAL:HG13	2.19	0.72
47:B1:30:GLU:HG3	47:B1:32:HIS:NE2	2.04	0.72
22:BB:2599:U:C2	25:BE:156:MET:HE1	2.25	0.72
22:BB:2769:C:N3	22:BB:2867:G:N2	2.36	0.72
22:BB:2813:G:H5''	35:BO:8:ARG:HH11	1.51	0.72
22:BB:1674:C:OP2	25:BE:136:ARG:NE	2.22	0.72
25:BE:61:LYS:H	25:BE:62:PRO:CD	2.02	0.72
29:BI:39:THR:HG23	29:BI:41:THR:H	1.54	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:1103:C:O2'	2:CB:111:ARG:HB2	1.89	0.72
1:CA:1297:C:OP1	13:CM:13:LYS:NZ	2.22	0.72
1:CA:438:G:H5''	4:CD:125:HIS:CD2	2.23	0.72
1:CA:439:A:H4'	4:CD:122:ARG:HH21	1.53	0.72
1:CA:644:G:H5'	8:CH:89:PRO:HB3	1.70	0.72
13:CM:68:GLY:HA2	13:CM:71:ARG:CZ	2.19	0.72
16:CP:66:PRO:HB2	16:CP:70:ALA:HB3	1.69	0.72
22:DB:123:A:H4'	50:D4:13:ALA:HB1	1.71	0.72
22:DB:1805:G:N2	24:DD:51:SER:HB3	2.05	0.72
22:DB:2738:A:H61	28:DH:71:LEU:HG	1.55	0.72
22:DB:588:G:C1'	48:D2:10:LYS:NZ	2.51	0.72
22:DB:922:A:H62	34:DN:17:ARG:N	1.74	0.72
29:DI:39:THR:HG23	29:DI:41:THR:H	1.54	0.72
22:DB:548:G:HO2'	31:DK:33:ILE:CG2	2.01	0.72
22:DB:2628:C:O4'	32:DL:29:ILE:HD11	1.86	0.72
23:DA:93:G:C5'	34:DN:22:ALA:CA	2.58	0.72
22:DB:827:C:H5'	39:DS:84:THR:C	2.10	0.72
1:EA:1103:C:H1'	2:EB:108:ILE:HG23	1.69	0.72
1:EA:1113:C:O2'	14:EN:57:ARG:NH2	2.22	0.72
1:EA:238:G:H5''	17:EQ:38:ARG:HH21	1.45	0.72
1:EA:324:G:N2	1:EA:326:G:H3'	2.05	0.72
1:EA:407:G:O2'	4:ED:116:GLN:OE1	2.07	0.72
4:ED:34:GLU:HG3	4:ED:35:ARG:HG3	1.72	0.72
1:EA:559:A:OP2	5:EE:123:LEU:HD23	1.90	0.72
8:EH:91:ARG:HH12	17:EQ:34:LYS:HZ1	1.34	0.72
10:EJ:62:HIS:O	14:EN:59:ALA:C	2.28	0.72
13:EM:68:GLY:HA2	13:EM:71:ARG:CZ	2.19	0.72
1:EA:234:C:O2'	17:EQ:70:ARG:CD	2.37	0.72
22:FB:1235:C:P	39:FS:68:LYS:HD2	2.29	0.72
22:FB:1268:U:H5'	22:FB:1269:G:H5''	1.69	0.72
22:FB:2463:G:HO2'	34:FN:121:LEU:CA	1.90	0.72
22:FB:2510:A:P	28:FH:175:LYS:HB2	2.30	0.72
22:FB:2574:G:H22	22:FB:2576:G:H3'	1.55	0.72
25:FE:106:GLY:H	25:FE:165:VAL:HG22	1.54	0.72
27:FG:179:LYS:NZ	1:IA:1021:G:C4'	2.36	0.72
38:FR:94:VAL:HG21	39:FS:10:LYS:C	2.08	0.72
1:GA:175:C:C3'	20:GT:25:ARG:HG2	1.99	0.72
1:GA:200:G:H22	1:GA:217:C:N4	1.87	0.72
1:GA:323:U:H5'	20:GT:23:ARG:HD3	1.71	0.72
1:GA:575:G:H4'	1:GA:576:G:H5'	1.71	0.72
1:GA:876:G:O2'	8:GH:4:ASP:CB	2.36	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:GA:1061:G:OP1	10:GJ:58:ASP:HB3	1.89	0.72
1:GA:555:C:H5	12:GL:20:LYS:NZ	1.84	0.72
1:AA:179:A:H4'	20:GT:100:ILE:HG22	1.51	0.72
1:GA:108:G:C1'	20:GT:12:ALA:O	2.37	0.72
22:HB:760:U:H6	48:H2:3:LYS:NZ	1.77	0.72
22:HB:1248:G:O6	40:HT:11:LYS:HG3	1.89	0.72
22:HB:1750:A:H2	22:HB:2676:G:N3	1.86	0.72
22:HB:1805:G:H4'	24:HD:45:ASN:N	2.05	0.72
22:HB:2002:A:H1'	38:HR:33:ARG:HH21	1.52	0.72
22:HB:2550:C:O2'	25:HE:143:GLN:HB3	1.89	0.72
22:HB:2716:G:H22	22:HB:2749:A:H1'	1.55	0.72
22:HB:2794:G:H3'	22:HB:2796:A:H62	1.54	0.72
25:HE:8:LYS:HG3	25:HE:9:ILE:HG12	1.70	0.72
32:HL:91:PHE:CE1	37:HQ:79:ARG:HG3	2.25	0.72
35:HO:86:LYS:HE3	35:HO:115:LEU:HD12	1.71	0.72
43:HW:48:THR:HG23	43:HW:65:LEU:HG	1.72	0.72
1:EA:1273:G:N3	1:IA:1264:C:C4'	2.52	0.72
1:IA:718:G:O6	18:IR:81:PHE:CE1	2.42	0.72
1:IA:922:G:O2'	5:IE:19:MET:CE	2.37	0.72
1:IA:932:C:H5'	7:IG:4:ARG:CG	2.10	0.72
22:JB:2723:C:P	52:J6:33:LYS:HZ2	2.09	0.72
22:JB:1172:U:O3'	39:JS:22:VAL:CG1	2.38	0.72
22:JB:2200:G:N2	24:JD:149:PRO:HB3	2.04	0.72
22:JB:2733:A:N3	52:J6:15:LYS:HE3	2.04	0.72
22:JB:468:A:P	41:JU:69:ILE:HG13	2.29	0.72
22:JB:797:A:OP2	24:JD:226:MET:CE	2.37	0.72
22:JB:2372:A:H5'	33:JM:62:LYS:HZ1	1.53	0.72
1:AA:1343:G:C4'	9:AI:122:ALA:CB	2.44	0.72
2:AB:194:PRO:O	8:AH:73:ASP:CG	2.27	0.72
22:BB:2328:G:H5''	51:B5:42:ARG:NH1	2.04	0.72
33:BM:63:ARG:CZ	51:B5:9:MET:HE3	2.19	0.72
22:BB:1042:G:H21	52:B6:23:VAL:HB	1.52	0.72
22:BB:2523:G:C4'	22:BB:2624:G:N7	2.52	0.72
22:BB:625:A:C1'	26:BF:38:ARG:HE	2.02	0.72
22:BB:865:A:H61	22:BB:937:C:N4	1.87	0.72
25:BE:176:ARG:CD	37:BQ:19:ASP:CB	2.68	0.72
37:BQ:33:VAL:HG21	37:BQ:57:ILE:HD12	1.71	0.72
22:BB:523:A:H2	38:BR:11:ARG:NH1	1.87	0.72
22:BB:83:A:H61	42:BV:102:LYS:HZ1	1.37	0.72
1:CA:436:C:H1'	4:CD:157:LEU:CB	2.18	0.72
13:CM:73:GLU:HA	13:CM:76:ALA:HB3	1.71	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:CQ:9:VAL:HG22	17:CQ:56:VAL:HG13	1.71	0.72
22:DB:477:A:C5'	50:D4:12:ARG:HH22	2.01	0.72
22:DB:1353:A:H61	41:DU:59:PRO:HG3	1.53	0.72
22:DB:865:A:H61	22:DB:937:C:N4	1.87	0.72
24:DD:213:ARG:HE	24:DD:219:PRO:HA	1.54	0.72
22:DB:548:G:O3'	31:DK:32:TYR:CE2	2.42	0.72
22:DB:2229:G:C4	34:DN:84:MET:CA	2.73	0.72
1:EA:1374:A:C2	7:EG:29:LYS:NZ	2.53	0.72
1:EA:691:G:O5'	11:EK:26:ASN:ND2	2.14	0.72
1:EA:801:U:H2'	1:EA:802:A:H8	1.53	0.72
1:EA:537:G:C5'	12:EL:113:ARG:NH1	2.52	0.72
47:F1:30:GLU:HG3	47:F1:32:HIS:NE2	2.04	0.72
22:FB:114:C:H5'	50:F4:19:ARG:NH1	1.96	0.72
22:FB:2399:C:P	51:F5:34:THR:H	2.12	0.72
23:FA:79:U:OP2	43:FW:10:PRO:HG3	1.88	0.72
22:FB:1045:G:H1'	22:FB:1133:G:H22	1.55	0.72
22:FB:1949:A:O2'	22:FB:2572:U:H5'	1.88	0.72
25:FE:61:LYS:H	25:FE:62:PRO:CD	2.03	0.72
22:FB:2629:U:P	32:FL:29:ILE:HD13	2.19	0.72
22:FB:1288:A:C2	35:FO:15:SER:O	2.43	0.72
35:FO:86:LYS:HE3	35:FO:115:LEU:HD12	1.71	0.72
22:FB:1003:C:OP1	38:FR:47:TYR:OH	2.07	0.72
22:FB:1162:A:O2'	38:FR:78:THR:CA	2.36	0.72
1:GA:17:U:H5''	5:GE:14:ARG:NE	2.05	0.72
1:GA:255:G:OP1	17:GQ:65:ILE:HG23	1.85	0.72
1:GA:692:U:O4	11:GK:52:GLY:HA2	1.90	0.72
22:HB:1885:C:O2'	24:HD:242:ALA:HA	1.89	0.72
22:HB:2788:C:O2	48:H2:30:LEU:HD23	1.86	0.72
22:HB:2861:A:C4	48:H2:31:THR:HB	2.22	0.72
22:HB:603:C:C5	22:HB:604:U:O4	2.42	0.72
27:HG:104:ILE:HG22	27:HG:176:PRO:HD2	1.71	0.72
34:HN:63:GLY:CA	43:HW:112:LEU:CD2	2.65	0.72
39:HS:5:ILE:HG22	39:HS:41:GLY:H	1.55	0.72
42:HV:35:LYS:HD3	42:HV:36:VAL:HG23	1.69	0.72
43:HW:17:SER:HA	43:HW:36:ARG:HH12	1.55	0.72
1:IA:926:G:C5	1:IA:1504:G:H5''	2.25	0.72
5:IE:127:ASN:HB3	5:IE:131:ILE:HG12	1.71	0.72
1:IA:1321:C:C5'	13:IM:87:TYR:CZ	2.52	0.72
53:J7:47:LYS:HG2	53:J7:159:THR:HB	1.71	0.72
22:JB:124:A:C4	50:J4:19:ARG:CG	2.50	0.72
22:JB:2261:G:C6	22:JB:2404:A:C4	2.77	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:JB:2794:G:H3'	22:JB:2796:A:H62	1.54	0.72
22:JB:566:U:H4'	31:JK:74:MET:SD	2.30	0.72
22:JB:603:C:O3'	22:JB:604:U:C5'	2.37	0.72
41:JU:7:LEU:HB2	41:JU:41:ALA:HB1	1.71	0.72
43:JW:64:ALA:O	43:JW:128:ARG:NH1	2.22	0.72
23:JA:14:C:C4'	44:JX:53:MET:HB3	2.14	0.72
1:AA:17:U:C2	1:AA:1079:G:N2	2.54	0.72
1:AA:324:G:N2	1:AA:326:G:H3'	2.04	0.72
1:AA:413:G:O6	4:AD:32:ALA:HB2	1.89	0.72
10:AJ:64:GLU:HG3	14:AN:57:ARG:O	1.89	0.72
3:AC:58:GLU:HA	10:AJ:92:THR:HG21	1.71	0.72
13:AM:88:ARG:HB3	13:AM:98:VAL:CG2	2.20	0.72
1:AA:668:G:P	15:AO:48:LYS:HB2	2.29	0.72
16:AP:66:PRO:HB2	16:AP:70:ALA:HB3	1.69	0.72
1:AA:1457:A:OP1	20:AT:27:LYS:CG	2.35	0.72
22:BB:2039:G:N2	48:B2:5:PRO:HD3	2.04	0.72
22:BB:2797:G:P	25:BE:110:GLY:HA2	2.30	0.72
27:BG:104:ILE:HG22	27:BG:176:PRO:HD2	1.71	0.72
27:BG:24:SER:HB2	27:BG:27:ALA:HB2	1.72	0.72
22:BB:1141:U:N3	31:BK:106:TYR:CE1	2.58	0.72
32:BL:89:ILE:HG12	37:BQ:81:PHE:CD2	2.25	0.72
1:CA:16:A:O2'	5:CE:16:THR:HB	1.90	0.72
1:CA:1190:G:C4'	3:CC:176:HIS:CE1	2.66	0.72
1:CA:407:G:O4'	4:CD:116:GLN:CB	2.34	0.72
1:CA:523:A:H61	12:CL:90:VAL:CG1	2.03	0.72
13:CM:87:TYR:CA	13:CM:90:LEU:CB	2.13	0.72
1:CA:981:U:H5''	14:CN:6:LEU:HD13	1.70	0.72
22:DB:2040:A:C8	48:D2:3:LYS:O	2.41	0.72
22:DB:157:G:C4'	50:D4:36:ALA:HB1	2.02	0.72
23:DA:117:G:H5'	36:DP:51:LEU:C	2.09	0.72
22:DB:1042:G:H5'	52:D6:8:LYS:HZ1	1.54	0.72
22:DB:1237:G:C3'	39:DS:87:ARG:CB	2.25	0.72
22:DB:1992:G:O4'	35:DO:105:GLY:C	2.28	0.72
22:DB:2661:G:C2'	25:DE:12:THR:CB	2.67	0.72
22:DB:742:G:H8	24:DD:208:LYS:HE2	0.92	0.72
25:DE:8:LYS:HG3	25:DE:9:ILE:HG12	1.70	0.72
22:DB:2726:U:H1'	28:DH:71:LEU:HD23	1.71	0.72
31:DK:136:PRO:HB2	31:DK:140:GLN:HG3	1.71	0.72
23:DA:92:G:N1	34:DN:22:ALA:O	2.21	0.72
23:DA:30:C:OP2	36:DP:34:SER:OG	2.08	0.72
1:EA:1056:U:H5'	3:EC:162:GLN:C	2.10	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:EJ:50:ILE:HA	10:EJ:60:ARG:HA	1.72	0.72
1:EA:523:A:N1	12:EL:90:VAL:CG1	2.51	0.72
22:FB:156:G:H3'	22:FB:157:G:OP2	1.87	0.72
22:FB:2063:A:O5'	47:F1:32:HIS:HB3	1.89	0.72
22:FB:2182:A:HO2'	47:F1:43:TRP:HE3	1.35	0.72
22:FB:1855:G:N1	22:FB:3877:A:N6	2.25	0.72
44:FX:30:VAL:HG12	44:FX:66:LYS:HE3	1.72	0.72
1:GA:1297:C:H1'	7:GG:114:ARG:NH2	2.04	0.72
1:GA:1350:A:O2'	7:GG:33:ASP:OD1	2.04	0.72
7:GG:64:GLN:HE21	7:GG:68:ASN:HD21	1.37	0.72
13:GM:68:GLY:HA2	13:GM:71:ARG:CZ	2.19	0.72
1:GA:255:G:P	17:GQ:65:ILE:HG21	2.28	0.72
1:GA:262:A:H5'	20:GT:74:LYS:NZ	2.04	0.72
22:HB:1797:C:H1'	24:HD:49:ILE:HG21	1.71	0.72
22:HB:2470:U:N3	22:HB:2548:G:O2'	2.22	0.72
22:HB:1751:A:OP1	22:HB:2695:C:H5'	1.90	0.72
22:HB:2606:G:N9	22:HB:2757:G:N1	2.37	0.72
22:HB:80:A:C1'	22:HB:305:A:N3	2.53	0.72
13:GM:6:GLY:HA2	27:HG:110:ARG:HH21	0.68	0.72
22:HB:1075:C:OP1	30:HJ:84:ILE:HD12	1.89	0.72
1:IA:13:U:O2	1:IA:914:A:C8	2.43	0.72
1:IA:1380:U:C4	7:IG:3:ARG:HG2	2.25	0.72
12:IL:11:VAL:HG12	17:IQ:36:ILE:HD13	1.68	0.72
12:IL:19:ARG:HB3	12:IL:20:LYS:N	2.03	0.72
13:IM:68:GLY:HA2	13:IM:71:ARG:CZ	2.19	0.72
1:IA:452:A:H1'	16:IP:72:ARG:CD	2.19	0.72
22:JB:2789:U:H1'	48:J2:30:LEU:HD13	1.70	0.72
22:JB:2400:G:OP2	51:J5:33:ASN:HB2	1.89	0.72
51:J5:23:MET:HB3	51:J5:46:LYS:HB2	1.72	0.72
22:JB:1804:U:H2'	22:JB:1805:G:C8	2.25	0.72
22:JB:836:G:N2	22:JB:2337:A:H8	1.86	0.72
22:JB:892:A:C5	22:JB:912:A:C2	2.78	0.72
22:JB:1217:U:C2	33:JM:14:LYS:HE3	2.13	0.72
37:JQ:33:VAL:HG21	37:JQ:57:ILE:HD12	1.71	0.72
43:JW:10:PRO:HA	43:JW:13:LYS:HD2	1.71	0.72
1:AA:275:G:H1'	17:AQ:15:MET:HE2	0.83	0.72
6:AF:48:LEU:HD22	18:AR:77:GLY:C	2.10	0.72
22:BB:1261:G:N7	38:BR:2:PRO:HB2	2.03	0.72
22:BB:1631:C:N3	40:BT:107:ILE:CG1	2.46	0.72
22:BB:797:A:N6	22:BB:2056:C:H5'	2.05	0.72
22:BB:2463:G:H4'	34:BN:47:GLN:HA	1.72	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:BB:543:G:C5'	38:BR:41:ASN:OD1	2.36	0.72
22:BB:596:C:H3'	33:BM:28:LYS:O	1.89	0.72
22:BB:90:G:H3'	22:BB:91:A:H5'	1.70	0.72
22:BB:2714:A:C1'	25:BE:205:SER:CB	2.37	0.72
22:BB:1236:G:OP2	39:BS:87:ARG:NH1	2.23	0.72
42:BV:58:VAL:HG23	42:BV:60:PRO:HD3	1.71	0.72
1:CA:324:G:N2	1:CA:326:G:H3'	2.04	0.72
1:CA:1102:A:N3	2:CB:108:ILE:HD11	2.05	0.72
4:CD:105:VAL:HB	4:CD:117:ALA:HB1	1.70	0.72
1:CA:489:C:OP1	4:CD:132:ARG:HB2	1.90	0.72
10:CJ:50:ILE:HA	10:CJ:60:ARG:HA	1.72	0.72
13:CM:46:LYS:HD2	13:CM:46:LYS:H	1.54	0.72
22:DB:176:A:O3'	47:D1:31:ILE:CG2	2.37	0.72
23:DA:78:A:C2	43:DW:22:VAL:CB	2.73	0.72
22:DB:1173:G:N3	39:DS:90:PHE:HE1	1.87	0.72
22:DB:797:A:N6	22:DB:2056:C:H5'	2.05	0.72
22:DB:923:A:N3	22:DB:2243:C:H1'	2.05	0.72
22:DB:63:A:C6	22:DB:89:A:N6	2.58	0.72
22:DB:1835:C:C5'	24:DD:255:LYS:HZ3	1.94	0.72
22:DB:1516:A:H1'	24:DD:98:ALA:CB	2.20	0.72
25:DE:61:LYS:H	25:DE:62:PRO:CD	2.02	0.72
27:DG:104:ILE:HG22	27:DG:176:PRO:HD2	1.71	0.72
34:DN:98:VAL:HG13	34:DN:99:LYS:N	2.05	0.72
32:DL:90:ARG:O	37:DQ:79:ARG:HD3	1.90	0.72
41:DU:65:VAL:HG21	41:DU:67:ARG:HH21	1.55	0.72
42:DV:64:ASN:N	42:DV:65:PRO:HD2	2.05	0.72
43:DW:10:PRO:HA	43:DW:13:LYS:HD2	1.70	0.72
1:EA:1392:G:C4'	1:EA:1531:A:OP1	2.38	0.72
1:EA:919:A:C6	1:EA:920:U:O4	2.42	0.72
1:EA:1179:A:O2'	9:EI:104:ARG:HD3	1.90	0.72
1:EA:265:G:N3	17:EQ:67:LYS:HE3	2.05	0.72
22:FB:1162:A:C1'	38:FR:78:THR:CG2	2.36	0.72
22:FB:1555:A:N3	22:FB:1555:A:H2'	2.04	0.72
22:FB:1586:A:C5	22:FB:1587:A:C4	2.78	0.72
22:FB:1613:G:O3'	22:FB:1614:C:P	2.47	0.72
22:FB:2708:U:H1'	25:FE:21:ILE:HG21	1.71	0.72
29:FI:39:THR:HG23	29:FI:41:THR:H	1.54	0.72
32:FL:100:ASN:HB2	32:FL:104:GLU:H	1.53	0.72
33:FM:34:HIS:HB2	33:FM:35:LYS:HD3	1.71	0.72
22:FB:456:C:P	38:FR:2:PRO:HD2	2.29	0.72
22:FB:1238:A:H5''	39:FS:73:LYS:HG3	1.71	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:GA:1496:C:O2	22:HB:1902:A:N1	2.22	0.72
1:GA:430:A:OP1	4:GD:8:VAL:N	2.23	0.72
1:GA:439:A:C5'	4:GD:122:ARG:HH22	2.01	0.72
7:GG:16:LEU:HD21	9:GI:42:ARG:NH1	1.94	0.72
16:GP:66:PRO:HB2	16:GP:70:ALA:HB3	1.69	0.72
22:HB:3123:G:O3'	53:H7:62:LYS:HE3	1.90	0.72
22:HB:1487:C:O2	22:HB:1533:G:O6	2.08	0.72
22:HB:1487:C:C4	22:HB:1536:G:C6	2.77	0.72
22:HB:1804:U:H2'	22:HB:1805:G:C8	2.25	0.72
22:HB:2183:C:O3'	47:H1:43:TRP:CZ3	2.43	0.72
22:HB:878:C:H42	22:HB:921:A:H62	1.38	0.72
22:HB:915:C:H4'	43:HW:163:ASP:CG	2.10	0.72
25:HE:61:LYS:H	25:HE:62:PRO:CD	2.03	0.72
27:HG:24:SER:HB2	27:HG:27:ALA:HB2	1.72	0.72
22:HB:2357:A:H4'	36:HP:26:ARG:CD	2.19	0.72
1:IA:865:A:H4'	1:IA:1078:U:O4	1.89	0.72
1:IA:125:U:H2'	1:IA:126:G:H8	1.54	0.72
1:IA:635:G:O2'	17:IQ:4:LYS:N	2.23	0.72
2:IB:68:ILE:HG22	2:IB:69:LEU:H	1.54	0.72
3:IC:95:THR:HB	3:IC:97:LYS:HG2	1.71	0.72
4:ID:105:VAL:HB	4:ID:117:ALA:HB1	1.71	0.72
4:ID:34:GLU:HG3	4:ID:35:ARG:HG3	1.72	0.72
22:JB:1363:C:C1'	22:JB:1588:A:H1'	2.19	0.72
1:IA:1418:A:H1'	22:JB:1942:G:C4'	2.20	0.72
22:JB:2820:C:H5''	37:JQ:62:SER:CB	1.84	0.72
22:JB:63:A:C5'	41:JU:72:ARG:HA	2.09	0.72
22:JB:2852:G:H5'	37:JQ:8:ASN:HB3	1.69	0.72
43:JW:48:THR:HG23	43:JW:65:LEU:HG	1.72	0.72
1:AA:421:U:H5	3:AC:127:ARG:NH1	1.86	0.72
10:AJ:63:PHE:HE2	14:AN:49:HIS:N	1.87	0.72
1:AA:1221:G:O3'	19:AS:77:THR:CG2	2.38	0.72
1:AA:332:G:C5'	20:AT:13:LEU:HD12	2.18	0.72
22:BB:123:A:P	50:B4:14:LYS:HE2	2.30	0.72
22:BB:2218:G:H4'	24:BD:230:ASP:HB2	1.71	0.72
22:BB:2393:G:H4'	33:BM:65:PHE:HD2	1.51	0.72
22:BB:2767:C:P	25:BE:64:GLN:HG2	2.30	0.72
22:BB:613:A:H61	33:BM:97:ARG:CG	2.03	0.72
22:BB:676:G:N3	22:BB:950:G:O2'	2.21	0.72
22:BB:742:G:C2'	24:BD:18:THR:HG21	2.19	0.72
22:BB:1806:G:C1'	24:BD:52:ARG:CZ	2.67	0.72
22:BB:1815:G:C5'	24:BD:54:ILE:CG1	2.67	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:BB:1140:A:C3'	31:BK:107:GLN:HG2	2.20	0.72
32:BL:15:GLY:HA3	32:BL:60:PRO:HD3	1.71	0.72
22:BB:648:A:H2	33:BM:109:LEU:HG	1.46	0.72
39:BS:5:ILE:HG22	39:BS:41:GLY:H	1.55	0.72
22:BB:138:G:P	41:BU:36:THR:HG21	2.29	0.72
41:BU:7:LEU:HB2	41:BU:41:ALA:HB1	1.71	0.72
43:BW:10:PRO:HA	43:BW:13:LYS:HD2	1.71	0.72
1:CA:1060:C:H5''	10:CJ:52:GLY:HA3	1.71	0.72
1:CA:125:U:H2'	1:CA:126:G:H8	1.54	0.72
1:CA:408:A:H5'	4:CD:112:VAL:HB	1.72	0.72
4:CD:34:GLU:HG3	4:CD:35:ARG:HG3	1.72	0.72
3:CC:132:ARG:CZ	4:CD:47:ARG:HH12	1.97	0.72
1:CA:597:G:N3	8:CH:92:ARG:HG2	2.05	0.72
1:CA:376:G:H4'	16:CP:28:ARG:HH12	0.67	0.72
16:CP:71:ARG:HE	16:CP:74:LEU:HB2	1.55	0.72
1:CA:234:C:C3'	17:CQ:70:ARG:HG2	2.18	0.72
22:DB:2324:G:C4'	49:D3:40:TYR:HE1	2.02	0.72
22:DB:2735:C:N3	52:D6:35:ARG:NH2	2.36	0.72
22:DB:1072:U:H3	30:DJ:10:LEU:C	1.91	0.72
22:DB:123:A:C1'	50:D4:13:ALA:HB1	2.20	0.72
22:DB:1240:G:H5''	38:DR:16:LYS:CD	2.20	0.72
22:DB:1268:U:H5'	22:DB:1269:G:H5''	1.70	0.72
22:DB:2328:G:C3'	51:D5:42:ARG:CD	2.58	0.72
22:DB:476:G:OP1	50:D4:5:TYR:CE2	2.41	0.72
22:DB:625:A:C2	26:DF:176:ASN:ND2	2.57	0.72
22:DB:1007:A:C4'	38:DR:93:LYS:O	2.37	0.72
44:DX:30:VAL:HG12	44:DX:66:LYS:HE3	1.72	0.72
1:EA:1318:A:H4'	19:ES:10:PHE:HB2	1.70	0.72
1:EA:1320:C:H5'	19:ES:70:LYS:HD2	1.71	0.72
1:EA:968:A:C1'	9:EI:128:ARG:HE	2.01	0.72
2:EB:58:ILE:O	2:EB:221:LEU:HB3	1.89	0.72
1:EA:546:G:C2	4:ED:2:GLY:CA	2.73	0.72
1:EA:922:G:C1'	5:EE:19:MET:CE	1.89	0.72
1:EA:658:G:O4'	15:EO:22:THR:O	2.07	0.72
1:EA:740:U:OP1	15:EO:3:ILE:HG12	1.90	0.72
16:EP:71:ARG:HE	16:EP:74:LEU:HB2	1.55	0.72
22:FB:2315:A:N9	44:FX:70:ILE:HD11	1.94	0.72
22:FB:613:A:H61	33:FM:97:ARG:HD2	1.53	0.72
22:FB:332:C:OP2	26:FF:129:LYS:CA	2.38	0.72
36:FP:47:ARG:HD2	44:FX:78:PHE:HB3	1.72	0.72
39:FS:5:ILE:HG22	39:FS:41:GLY:H	1.55	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:FW:51:LEU:HD22	43:FW:128:ARG:NH2	2.05	0.72
1:GA:125:U:H2'	1:GA:126:G:H8	1.54	0.72
1:GA:736:C:O4'	6:GF:89:MET:SD	2.48	0.72
10:GJ:51:ARG:CG	14:GN:45:ARG:HH12	1.77	0.72
1:GA:229:U:O2'	16:GP:23:ASP:OD2	2.08	0.72
23:HA:92:G:H1'	34:HN:21:ASP:O	1.89	0.72
22:HB:1311:C:H2'	22:HB:1312:G:O4'	1.90	0.72
22:HB:1487:C:N3	22:HB:1536:G:C6	2.58	0.72
22:HB:2365:U:C5'	44:HX:39:ARG:HH12	2.00	0.72
22:HB:2670:C:P	35:HO:17:ARG:HH22	2.13	0.72
22:HB:1725:C:O2'	22:HB:2835:A:O2'	1.94	0.72
22:HB:917:U:O3'	43:HW:118:HIS:CD2	2.42	0.72
22:HB:95:G:C8	45:HY:41:HIS:CE1	2.78	0.72
32:HL:15:GLY:HA3	32:HL:60:PRO:HD3	1.71	0.72
37:HQ:110:LEU:HD12	37:HQ:113:LYS:HD2	1.70	0.72
22:HB:917:U:O3'	43:HW:118:HIS:HD2	1.73	0.72
1:IA:200:G:H22	1:IA:217:C:N4	1.87	0.72
6:IF:97:PHE:HE2	18:IR:31:LEU:HD12	1.55	0.72
23:JA:49:C:O2'	36:JP:95:LYS:HD2	1.89	0.72
22:JB:113:C:H1'	22:JB:125:A:H1'	1.70	0.72
22:JB:1311:C:H2'	22:JB:1312:G:O4'	1.90	0.72
22:JB:2239:C:HO2'	22:JB:2367:A:H4'	1.54	0.72
22:JB:2628:C:C1'	32:JL:28:GLY:HA3	2.19	0.72
22:JB:72:A:OP1	45:JY:51:ALA:HA	1.90	0.72
24:JD:72:LYS:HZ3	24:JD:75:VAL:HG21	1.55	0.72
25:JE:61:LYS:H	25:JE:62:PRO:CD	2.03	0.72
22:JB:2820:C:H4'	37:JQ:62:SER:OG	1.88	0.72
22:JB:986:A:C5'	39:JS:78:VAL:HG21	2.19	0.72
22:JB:530:G:C1'	40:JT:94:GLU:OE1	2.33	0.72
41:JU:65:VAL:HG21	41:JU:67:ARG:HH21	1.55	0.72
22:JB:93:A:C2	45:JY:41:HIS:NE2	2.58	0.72
1:AA:750:G:C1'	15:AO:22:THR:HG1	2.00	0.72
3:AC:61:ALA:HA	10:AJ:95:GLU:HG2	1.72	0.72
1:AA:439:A:C1'	4:AD:122:ARG:HH12	2.02	0.72
1:AA:1239:A:H2'	7:AG:115:ARG:CG	2.19	0.72
1:AA:1349:A:OP2	9:AI:118:LYS:O	2.07	0.72
1:AA:1292:U:C5'	9:AI:38:GLN:OE1	2.38	0.72
1:AA:953:G:C4	13:AM:123:ALA:O	2.32	0.72
1:AA:668:G:H1'	15:AO:45:VAL:HG12	1.68	0.72
22:BB:1555:A:N3	22:BB:1555:A:H2'	2.04	0.72
22:BB:1831:G:H5''	22:BB:1910:A:H4'	1.71	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:BB:2411:A:N7	47:B1:28:ARG:HB2	2.04	0.72
22:BB:2470:U:N3	22:BB:2548:G:O3'	2.22	0.72
22:BB:68:C:H2'	22:BB:72:A:H1'	1.72	0.72
22:BB:6:A:C2'	31:BK:163:PRO:CG	2.68	0.72
40:BT:106:LEU:HA	40:BT:117:ILE:HD11	1.72	0.72
22:BB:1995:G:OP1	40:BT:118:LYS:O	2.08	0.72
44:BX:66:LYS:HB2	44:BX:66:LYS:HZ2	1.54	0.72
1:CA:1456:A:H3'	20:CT:28:ALA:HB2	1.69	0.72
1:CA:420:U:C5'	3:CC:127:ARG:HH12	2.01	0.72
1:CA:718:G:O2'	11:CK:116:HIS:HA	1.90	0.72
1:CA:801:U:H2'	1:CA:802:A:H8	1.53	0.72
1:CA:958:A:C2	19:CS:56:GLN:HG2	2.24	0.72
1:CA:407:G:C1'	4:CD:116:GLN:HG3	2.17	0.72
12:CL:19:ARG:C	12:CL:20:LYS:N	2.43	0.72
1:CA:255:G:O5'	17:CQ:17:LYS:HE2	1.73	0.72
22:DB:1045:G:H1'	22:DB:1133:G:H22	1.55	0.72
22:DB:1884:A:H2	24:DD:244:ARG:HD2	1.54	0.72
22:DB:456:C:H4'	38:DR:2:PRO:CA	2.20	0.72
24:DD:159:ALA:HB2	24:DD:202:LYS:HG2	1.72	0.72
27:DG:24:SER:HB2	27:DG:27:ALA:HB2	1.72	0.72
33:DM:50:GLU:OE1	51:D5:58:MET:CE	2.38	0.72
35:DO:86:LYS:HE3	35:DO:115:LEU:HD12	1.71	0.72
39:DS:5:ILE:HG22	39:DS:41:GLY:H	1.55	0.72
34:DN:30:PHE:N	43:DW:119:ASN:OD1	2.23	0.72
1:EA:1180:A:C5'	9:EI:103:THR:CG2	2.67	0.72
1:EA:413:G:H21	1:EA:428:G:H21	1.37	0.72
2:EB:68:ILE:HG22	2:EB:69:LEU:H	1.54	0.72
4:ED:205:GLU:CB	5:EE:101:ILE:CA	2.67	0.72
9:EI:11:LYS:HA	9:EI:104:ARG:HH21	1.52	0.72
11:EK:13:GLN:HE22	11:EK:75:TYR:HB3	1.55	0.72
22:FB:1581:C:OP1	24:FD:25:THR:HG21	1.90	0.72
22:FB:797:A:N6	22:FB:2056:C:H5'	2.05	0.72
22:FB:468:A:P	41:FU:67:ARG:CB	2.78	0.72
22:FB:468:A:P	41:FU:67:ARG:CD	2.77	0.72
22:FB:90:G:H3'	22:FB:91:A:H5'	1.71	0.72
24:FD:155:LEU:H	24:FD:155:LEU:HD23	1.55	0.72
22:FB:1261:G:P	26:FF:86:PRO:HG3	2.30	0.72
22:FB:2007:G:C1'	31:FK:103:TYR:OH	2.29	0.72
22:FB:2254:C:C4'	34:FN:86:LYS:HG2	2.16	0.72
1:GA:966:G:O2'	9:GI:128:ARG:OXT	2.06	0.72
2:GB:121:LEU:HG	2:GB:126:GLU:HB3	1.72	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:GH:35:ILE:HG23	8:GH:38:ILE:HD12	1.72	0.72
1:GA:449:C:C1'	16:GP:42:ARG:NH2	2.40	0.72
1:GA:235:C:C2	17:GQ:4:LYS:HE3	2.24	0.72
22:HB:156:G:O2'	50:H4:35:ARG:NH1	2.22	0.72
22:HB:1861:G:C8	53:H7:199:ASN:HB2	2.25	0.72
22:HB:1045:G:H1'	22:HB:1133:G:H22	1.55	0.72
22:HB:1746:A:H3'	37:HQ:126:LYS:O	1.90	0.72
22:HB:1:G:N2	22:HB:2877:A:C6	2.57	0.72
22:HB:917:U:H1'	43:HW:167:THR:OG1	1.90	0.72
22:HB:941:U:C4'	46:HZ:24:GLY:CA	2.68	0.72
34:HN:35:LEU:O	34:HN:101:GLY:HA2	1.89	0.72
34:HN:8:THR:HA	34:HN:11:ARG:HH22	1.55	0.72
38:HR:80:ILE:HG23	38:HR:83:LEU:HD12	1.71	0.72
41:HU:7:LEU:HB2	41:HU:41:ALA:HB1	1.71	0.72
1:IA:532:A:N1	1:IA:1207:G:H5'	2.05	0.72
1:IA:126:G:OP1	1:IA:605:U:C4'	2.38	0.72
1:IA:330:C:H2'	1:IA:331:G:H8	1.55	0.72
2:IB:121:LEU:HG	2:IB:126:GLU:HB3	1.72	0.72
22:JB:2324:G:C4'	49:J3:40:TYR:CE1	2.63	0.72
23:JA:49:C:H5''	36:JP:94:TYR:CD1	2.24	0.72
22:JB:1045:G:H1'	22:JB:1133:G:H22	1.55	0.72
22:JB:1149:G:P	31:JK:132:PHE:CE1	2.82	0.72
22:JB:1747:G:O6	37:JQ:125:MET:O	0.72	0.72
22:JB:1810:U:H2'	24:JD:154:GLN:OE1	1.79	0.72
22:JB:1813:A:P	24:JD:202:LYS:HZ3	2.13	0.72
22:JB:1385:C:C5'	22:JB:2192:U:C4	2.71	0.72
24:JD:144:ALA:HB3	24:JD:192:THR:H	1.55	0.72
27:JG:74:ILE:HG13	27:JG:79:LEU:HD13	1.72	0.72
32:JL:100:ASN:HB2	32:JL:104:GLU:H	1.53	0.72
22:JB:868:U:O2	44:JX:25:LYS:CD	2.38	0.72
1:AA:1224:G:C3'	19:AS:78:ARG:NH2	2.53	0.71
12:AL:10:LEU:HD12	17:AQ:32:TYR:CD2	2.25	0.71
1:AA:973:G:C4'	14:AN:41:ARG:NH2	2.41	0.71
22:BB:157:G:C5'	50:B4:36:ALA:HB1	2.15	0.71
22:BB:1109:A:H4'	30:BJ:7:ILE:CD1	2.20	0.71
22:BB:1790:G:OP2	24:BD:258:LYS:HG3	1.89	0.71
22:BB:1804:U:H2'	22:BB:1805:G:C8	2.25	0.71
22:BB:181:A:H4'	22:BB:182:G:H4'	1.71	0.71
22:BB:2860:C:N3	48:B2:40:LYS:HE2	2.05	0.71
43:BW:68:ALA:HA	43:BW:95:SER:HB2	1.70	0.71
1:CA:8:A:C2	4:CD:209:ARG:NH1	2.52	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:CJ:63:PHE:HA	14:CN:59:ALA:H	1.53	0.71
1:CA:689:C:C5'	11:CK:51:LYS:HZ2	2.02	0.71
1:CA:948:C:C5'	13:CM:106:ASN:HA	2.15	0.71
22:DB:1234:C:H5''	39:DS:68:LYS:CD	2.20	0.71
22:DB:1808:C:OP1	24:DD:87:ASN:ND2	2.23	0.71
22:DB:2716:G:C2	22:DB:2749:A:H1'	2.25	0.71
22:DB:44:G:H1'	22:DB:448:C:N4	2.05	0.71
22:DB:90:G:H3'	22:DB:91:A:H5'	1.70	0.71
22:DB:1788:C:C5'	24:DD:254:THR:HG23	2.19	0.71
22:DB:2654:A:C5'	32:DL:43:ARG:CZ	2.67	0.71
22:DB:229:G:C5'	33:DM:48:PHE:CZ	2.72	0.71
22:DB:888:G:C6	43:DW:165:GLU:HB3	2.20	0.71
1:EA:188:C:H41	20:ET:104:LEU:C	1.92	0.71
1:EA:281:G:O6	17:EQ:98:LEU:HD11	1.89	0.71
9:EI:8:GLY:HA2	9:EI:79:LEU:HB2	1.72	0.71
1:EA:537:G:P	12:EL:113:ARG:NH2	2.52	0.71
1:EA:658:G:C1'	15:EO:22:THR:HB	2.19	0.71
17:EQ:9:VAL:HG22	17:EQ:56:VAL:HG13	1.71	0.71
22:FB:1028:G:O2'	22:FB:1047:G:H1'	1.90	0.71
22:FB:1673:C:OP2	25:FE:136:ARG:NH1	2.24	0.71
22:FB:1743:C:C5'	22:FB:2836:U:O3'	2.38	0.71
22:FB:503:G:H1'	40:FT:28:ALA:CA	2.18	0.71
22:FB:625:A:N7	26:FF:172:VAL:HG23	2.05	0.71
22:FB:878:C:H42	22:FB:921:A:H62	1.38	0.71
22:FB:756:C:OP1	25:FE:130:GLY:N	2.22	0.71
1:GA:18:C:H5''	5:GE:130:ASN:ND2	2.05	0.71
1:GA:380:G:H1	1:GA:383:A:H62	1.37	0.71
1:GA:450:G:O2'	16:GP:15:PRO:CG	2.34	0.71
2:GB:195:ASP:O	8:GH:73:ASP:OD2	2.08	0.71
1:GA:829:G:O2'	2:GB:24:TRP:CH2	2.42	0.71
3:GC:9:GLY:HA2	3:GC:12:LEU:HD12	1.71	0.71
4:GD:24:GLU:HG3	4:GD:27:TYR:HB3	1.71	0.71
13:GM:85:GLY:O	19:GS:74:PHE:CA	2.38	0.71
22:HB:2591:C:C4	48:H2:4:HIS:HE1	2.05	0.71
22:HB:2448:A:C4'	34:HN:57:ARG:CG	2.68	0.71
22:HB:494:A:N3	42:HV:56:LYS:CG	2.36	0.71
37:HQ:33:VAL:HG21	37:HQ:57:ILE:HD12	1.71	0.71
44:HX:30:VAL:HG12	44:HX:66:LYS:HE3	1.72	0.71
1:IA:211:G:H2'	1:IA:211:G:N3	2.03	0.71
1:IA:277:C:H42	17:IQ:96:GLN:NE2	1.87	0.71
1:IA:673:G:C3'	6:IF:87:ARG:HH21	2.02	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:IA:825:G:C4'	8:IH:8:ASP:OD2	2.37	0.71
1:IA:675:A:C6	11:IK:116:HIS:HD2	1.60	0.71
22:JB:1008:G:P	38:JR:93:LYS:CD	2.77	0.71
22:JB:846:A:H2	22:JB:2337:A:C5	2.07	0.71
22:JB:8:A:H2'	22:JB:9:U:O4'	1.90	0.71
22:JB:1075:C:O4'	30:JJ:88:SER:O	2.06	0.71
22:JB:845:U:OP1	33:JM:41:SER:HB3	1.87	0.71
23:JA:51:G:H5'	36:JP:97:HIS:O	1.90	0.71
38:JR:101:ARG:HH21	38:JR:102:GLU:HB2	1.53	0.71
22:JB:572:G:N2	38:JR:33:ARG:HD2	2.04	0.71
22:JB:1007:A:C5'	38:JR:93:LYS:HE2	2.20	0.71
1:AA:781:A:O5'	1:AA:1522:U:O2'	2.08	0.71
1:AA:43:C:H5''	16:AP:12:LYS:HD2	1.66	0.71
1:AA:801:U:H2'	1:AA:802:A:H8	1.53	0.71
16:AP:71:ARG:HE	16:AP:74:LEU:HB2	1.55	0.71
22:BB:1041:G:N3	52:B6:7:VAL:HG13	2.05	0.71
22:BB:1398:G:N9	22:BB:1416:A:C2	2.57	0.71
22:BB:44:G:H1'	22:BB:448:C:N4	2.05	0.71
25:BE:106:GLY:H	25:BE:165:VAL:HG22	1.54	0.71
25:BE:181:LEU:HD11	37:BQ:16:ILE:CD1	2.20	0.71
1:CA:413:G:H21	1:CA:428:G:H21	1.37	0.71
1:CA:439:A:O2'	4:CD:122:ARG:NH2	2.22	0.71
1:CA:706:A:H1'	11:CK:29:ILE:HD13	1.72	0.71
3:CC:9:GLY:HA2	3:CC:12:LEU:HD12	1.71	0.71
1:CA:435:C:C2'	4:CD:156:GLU:HG2	2.18	0.71
22:DB:2039:G:C2'	48:D2:5:PRO:CG	2.59	0.71
53:D7:185:ALA:HA	53:D7:189:ALA:HB2	1.73	0.71
23:DA:10:U:H1'	36:DP:49:GLN:HB2	1.71	0.71
22:DB:1007:A:O2'	38:DR:92:ARG:CB	2.37	0.71
22:DB:1292:A:C3'	35:DO:33:ARG:CD	2.63	0.71
22:DB:1804:U:H2'	22:DB:1805:G:C8	2.25	0.71
22:DB:2661:G:N3	25:DE:12:THR:CA	2.53	0.71
22:DB:497:C:N3	40:DT:78:ASN:ND2	2.25	0.71
22:DB:2753:C:O2'	25:DE:163:GLU:CB	2.37	0.71
22:DB:227:G:OP2	33:DM:59:ARG:NH2	2.23	0.71
34:DN:35:LEU:O	34:DN:101:GLY:HA2	1.89	0.71
22:DB:863:C:H1'	46:DZ:22:ALA:HB2	1.72	0.71
1:EA:1265:G:H5''	1:IA:1273:G:O5'	1.89	0.71
1:EA:793:U:N3	1:EA:1516:G:C4'	2.51	0.71
3:EC:12:LEU:HD11	14:EN:50:LYS:O	1.90	0.71
8:EH:36:LEU:HA	8:EH:39:LEU:HD23	1.73	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:EA:599:C:H4'	8:EH:97:VAL:O	1.89	0.71
22:FB:1240:G:H5''	38:FR:16:LYS:CG	2.18	0.71
22:FB:1804:U:H2'	22:FB:1805:G:C8	2.25	0.71
22:FB:2710:C:O2'	25:FE:169:ASN:HB3	1.90	0.71
34:FN:35:LEU:O	34:FN:101:GLY:HA2	1.89	0.71
34:FN:76:THR:H	34:FN:90:ALA:HA	1.55	0.71
34:FN:98:VAL:HG13	34:FN:99:LYS:N	2.05	0.71
25:FE:181:LEU:HD21	37:FQ:12:LEU:CD2	2.20	0.71
1:GA:919:A:N3	1:GA:1080:A:C2	2.57	0.71
1:GA:211:G:N3	1:GA:211:G:H2'	2.03	0.71
1:GA:932:C:O5'	7:GG:4:ARG:CG	2.37	0.71
10:GJ:51:ARG:HB2	10:GJ:59:SER:HB3	1.70	0.71
1:GA:253:U:O2'	17:GQ:18:THR:HG23	1.90	0.71
47:H1:30:GLU:HG3	47:H1:32:HIS:NE2	2.04	0.71
53:H7:179:LEU:HD22	53:H7:183:ALA:HB2	1.73	0.71
22:HB:3166:G:H8	53:H7:98:ARG:NE	1.82	0.71
22:HB:2541:U:H4'	32:HL:23:ARG:NE	2.05	0.71
22:HB:542:A:C5	22:HB:570:G:N2	2.57	0.71
22:HB:644:A:HO2'	22:HB:2383:C:P	2.13	0.71
24:HD:157:ARG:HD2	24:HD:202:LYS:HZ1	1.53	0.71
32:HL:100:ASN:HB2	32:HL:104:GLU:H	1.53	0.71
32:HL:76:ARG:HD2	32:HL:90:ARG:NH2	2.04	0.71
34:HN:34:GLY:HA2	34:HN:104:MET:HG3	1.72	0.71
40:HT:106:LEU:HA	40:HT:117:ILE:HD11	1.72	0.71
22:HB:504:G:O3'	40:HT:25:PHE:HB3	1.89	0.71
1:IA:532:A:N3	1:IA:1207:G:C5'	2.53	0.71
1:IA:1463:C:OP1	37:JQ:116:ARG:HD3	1.90	0.71
1:IA:187:G:H4'	20:IT:104:LEU:HA	1.71	0.71
1:IA:926:G:C8	1:IA:1504:G:H5''	2.25	0.71
1:IA:975:A:N6	10:IJ:50:ILE:HD11	2.05	0.71
3:IC:23:TYR:HD2	10:IJ:93:GLY:N	1.79	0.71
1:IA:43:C:H5''	16:IP:11:SER:CB	2.20	0.71
1:IA:237:C:H5'	17:IQ:27:PHE:HZ	1.51	0.71
22:JB:3171:A:OP2	53:J7:101:LYS:HG2	1.89	0.71
22:JB:684:C:C5	33:JM:45:LYS:HB2	2.24	0.71
22:JB:71:A:N3	45:JY:57:LYS:HB3	2.04	0.71
24:JD:159:ALA:HB2	24:JD:202:LYS:HG2	1.72	0.71
25:JE:106:GLY:H	25:JE:165:VAL:HG22	1.54	0.71
23:JA:29:C:OP1	36:JP:36:LYS:HB2	1.88	0.71
1:AA:1015:A:P	19:AS:14:HIS:HB2	2.29	0.71
1:AA:15:G:C1'	5:AE:17:ALA:HB3	2.18	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:BB:128:C:H5''	22:BB:1361:G:N2	2.04	0.71
22:BB:1888:C:C3'	22:BB:1889:G:OP1	1.70	0.71
22:BB:2412:A:H2	47:B1:30:GLU:CA	2.03	0.71
22:BB:2462:C:C2'	34:BN:50:ALA:HB2	1.87	0.71
22:BB:5:A:C6	22:BB:2872:U:O4	2.43	0.71
22:BB:878:C:H42	22:BB:921:A:H62	1.38	0.71
22:BB:742:G:OP1	24:BD:17:THR:O	2.08	0.71
1:CA:1110:A:H5''	1:CA:1111:A:N7	2.05	0.71
2:CB:58:ILE:O	2:CB:221:LEU:HB3	1.89	0.71
1:CA:412:A:N3	4:CD:30:LYS:C	2.42	0.71
6:CF:49:ALA:CB	18:CR:80:PRO:CD	2.63	0.71
1:CA:1148:U:O2'	9:CI:66:ARG:CZ	2.38	0.71
10:CJ:65:LEU:HD12	14:CN:55:GLY:O	1.88	0.71
6:CF:46:ARG:HH22	18:CR:35:ARG:NH1	1.88	0.71
22:DB:1311:C:H2'	22:DB:1312:G:O4'	1.90	0.71
22:DB:2039:G:N3	48:D2:3:LYS:O	2.22	0.71
22:DB:2370:G:HO3'	22:DB:2371:A:P	2.12	0.71
22:DB:2713:A:O3'	22:DB:2714:A:H5'	1.90	0.71
22:DB:589:C:H5''	38:DR:33:ARG:HD3	1.70	0.71
22:DB:590:C:C5'	38:DR:32:TYR:CG	2.73	0.71
22:DB:644:A:OP1	33:DM:70:THR:HG23	1.90	0.71
22:DB:680:U:H5''	33:DM:48:PHE:HD1	1.51	0.71
22:DB:1807:A:H4'	24:DD:63:ARG:HH12	1.53	0.71
22:DB:2736:U:C4	28:DH:67:LEU:CD2	2.72	0.71
22:DB:2654:A:C5'	32:DL:43:ARG:NH2	2.51	0.71
22:DB:1972:G:H5''	32:DL:7:ARG:HH12	1.54	0.71
22:DB:2692:A:O2'	35:DO:15:SER:CB	2.37	0.71
41:DU:7:LEU:HB2	41:DU:41:ALA:HB1	1.71	0.71
1:EA:1308:U:C5'	13:EM:99:ARG:HD2	2.19	0.71
2:EB:121:LEU:HG	2:EB:126:GLU:HB3	1.72	0.71
1:EA:619:U:C4	4:ED:133:VAL:HG13	2.25	0.71
1:EA:1291:G:H5''	7:EG:41:ARG:NH1	2.05	0.71
49:F3:24:THR:O	51:F5:35:GLY:HA2	0.94	0.71
22:FB:2262:C:C2'	49:F3:8:ILE:CD1	2.66	0.71
22:FB:2728:A:C2	28:FH:63:ALA:HA	2.23	0.71
22:FB:2714:A:C6	22:FB:2750:G:H1'	2.24	0.71
22:FB:2752:C:H1'	25:FE:166:THR:CG2	2.18	0.71
22:FB:2760:G:H22	31:FK:125:ARG:CD	2.04	0.71
22:FB:707:U:H1'	22:FB:1392:U:H3	1.53	0.71
22:FB:999:A:OP1	46:FZ:7:ARG:CB	2.38	0.71
43:FW:65:LEU:HD21	43:FW:128:ARG:CZ	2.18	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:GA:1198:G:O2'	10:GJ:55:LYS:HD3	1.89	0.71
13:GM:73:GLU:HA	13:GM:76:ALA:HB3	1.71	0.71
23:HA:77:G:H22	23:HA:105:G:H22	1.38	0.71
22:HB:1338:G:OP1	40:HT:107:ILE:HB	1.90	0.71
22:HB:181:A:H4'	22:HB:182:G:H4'	1.71	0.71
22:HB:637:G:C2	33:HM:74:VAL:HG13	2.25	0.71
22:HB:2311:U:OP2	44:HX:51:VAL:HG21	1.84	0.71
12:IL:10:LEU:CB	17:IQ:34:LYS:HE3	2.18	0.71
22:JB:1377:G:C5	47:J1:1:MET:HB2	2.21	0.71
22:JB:1041:G:H21	52:J6:6:SER:HB3	1.53	0.71
53:J7:185:ALA:HA	53:J7:189:ALA:HB2	1.72	0.71
23:JA:89:G:H2'	23:JA:90:C:H5''	1.73	0.71
22:JB:2074:U:H5''	29:J1:24:TYR:CE1	2.25	0.71
22:JB:402:A:N1	22:JB:2392:G:C4'	2.48	0.71
22:JB:2491:C:N3	25:JE:140:SER:CB	2.52	0.71
22:JB:3168:G:OP2	53:J7:97:LYS:HE3	1.90	0.71
22:JB:603:C:C2'	22:JB:604:U:O4'	2.38	0.71
32:JL:76:ARG:HD2	32:JL:90:ARG:NH2	2.05	0.71
22:JB:634:G:C8	33:JM:98:LEU:CD2	2.74	0.71
34:JN:32:ASP:OD2	43:JW:115:ILE:CG2	2.36	0.71
38:JR:80:ILE:HG23	38:JR:83:LEU:HD12	1.71	0.71
22:JB:71:A:N6	45:JY:58:ALA:CB	2.52	0.71
1:AA:1320:C:O2	19:AS:72:GLY:C	2.28	0.71
1:AA:1441:G:H1	20:AT:27:LYS:HZ2	1.37	0.71
1:AA:234:C:O2	17:AQ:61:GLU:CD	2.29	0.71
1:AA:438:G:C5'	4:AD:123:HIS:CD2	2.62	0.71
1:AA:876:G:N2	8:AH:4:ASP:N	2.38	0.71
11:AK:107:SER:HB2	11:AK:109:VAL:HG23	1.73	0.71
1:AA:659:U:H5'	15:AO:5:LYS:HG3	1.71	0.71
1:AA:1220:G:C2	19:AS:54:GLY:HA3	2.25	0.71
22:BB:1074:G:H21	30:BJ:88:SER:HB2	1.56	0.71
22:BB:1134:C:H1'	52:B6:21:GLY:HA3	1.70	0.71
22:BB:1488:G:C6	22:BB:1535:C:N4	2.58	0.71
22:BB:157:G:C5'	50:B4:36:ALA:HB3	2.19	0.71
22:BB:1819:U:H5'	22:BB:1954:A:H4'	1.73	0.71
22:BB:2704:U:H2'	22:BB:2705:A:C8	2.26	0.71
22:BB:988:G:H21	22:BB:1012:A:H1'	1.55	0.71
1:AA:340:U:P	32:BL:109:ARG:NH1	2.63	0.71
22:BB:497:C:C4'	40:BT:80:LEU:HD11	2.20	0.71
1:CA:1230:C:H2'	13:CM:126:LYS:HE3	1.70	0.71
1:CA:1230:C:O2	13:CM:126:LYS:CG	2.38	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:437:U:P	4:CD:155:LEU:HD22	2.28	0.71
1:CA:1080:A:C3'	5:CE:17:ALA:O	2.38	0.71
8:CH:35:ILE:HG23	8:CH:38:ILE:HD12	1.73	0.71
10:CJ:63:PHE:HA	14:CN:58:LYS:HA	1.71	0.71
1:CA:690:G:N7	11:CK:51:LYS:HE2	2.06	0.71
1:CA:949:A:H5''	13:CM:102:ARG:NH2	2.04	0.71
1:CA:265:G:H1'	17:CQ:65:ILE:C	2.10	0.71
22:DB:707:U:H1'	22:DB:1392:U:H3	1.53	0.71
33:DM:58:ALA:HB1	51:D5:9:MET:CG	2.18	0.71
22:DB:2856:U:C5'	35:DO:93:GLY:HA3	2.18	0.71
38:DR:47:TYR:CD1	39:DS:74:TYR:CD1	2.77	0.71
22:DB:504:G:H5'	40:DT:29:LYS:CE	2.17	0.71
1:EA:125:U:H2'	1:EA:126:G:H8	1.55	0.71
1:EA:588:G:O3'	8:EH:5:PRO:HB2	1.89	0.71
1:EA:1382:C:C4'	7:EG:79:ARG:CD	2.60	0.71
9:EI:28:VAL:HA	9:EI:63:ILE:HB	1.73	0.71
1:EA:689:C:H6	11:EK:51:LYS:NZ	1.88	0.71
13:EM:73:GLU:HA	13:EM:76:ALA:HB3	1.71	0.71
22:FB:1586:A:C8	22:FB:1587:A:C5	2.77	0.71
22:FB:1819:U:H5'	22:FB:1954:A:H4'	1.73	0.71
22:FB:2258:G:O2'	22:FB:2306:A:O4'	2.06	0.71
22:FB:44:G:H1'	22:FB:448:C:N4	2.05	0.71
32:FL:76:ARG:HD2	32:FL:90:ARG:NH2	2.04	0.71
32:FL:83:ARG:HH12	37:FQ:81:PHE:HB2	1.55	0.71
22:FB:503:G:O3'	40:FT:29:LYS:HE3	1.91	0.71
43:FW:51:LEU:CD1	43:FW:128:ARG:CZ	2.51	0.71
34:FN:36:ILE:H	43:FW:74:ARG:HH12	0.75	0.71
22:FB:2241:U:OP1	44:FX:16:SER:N	2.23	0.71
36:FP:47:ARG:NH1	44:FX:79:ILE:HG13	2.05	0.71
1:GA:1148:U:C4'	9:GI:14:VAL:HG11	2.19	0.71
1:GA:330:C:H2'	1:GA:331:G:H8	1.55	0.71
4:GD:34:GLU:HG3	4:GD:35:ARG:HG3	1.72	0.71
1:GA:1240:U:O4	7:GG:119:ARG:NH1	2.23	0.71
51:H5:26:LYS:HB2	51:H5:47:GLY:HA3	1.73	0.71
22:HB:2558:C:C4'	25:HE:132:LYS:CG	2.14	0.71
22:HB:8:A:H2'	22:HB:9:U:O4'	1.91	0.71
22:HB:1019:U:O2'	38:HR:59:ARG:CZ	2.38	0.71
1:IA:1149:C:H5''	9:II:12:GLU:CG	2.20	0.71
1:IA:532:A:N3	1:IA:1207:G:H5''	2.04	0.71
1:IA:1057:G:OP2	3:IC:163:ALA:CB	2.36	0.71
10:IJ:50:ILE:HA	10:IJ:60:ARG:HA	1.72	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:JI:46:LEU:HD11	53:J7:216:LYS:HZ1	1.51	0.71
23:JA:77:G:H22	23:JA:105:G:H22	1.38	0.71
22:JB:1394:G:N2	22:JB:1588:A:C5	2.58	0.71
22:JB:1888:C:H2'	22:JB:1913:G:N7	2.05	0.71
22:JB:2574:G:N2	22:JB:2576:G:H3'	2.06	0.71
22:JB:3125:G:OP2	53:J7:61:ALA:O	2.08	0.71
22:JB:3177:C:OP1	53:J7:163:PRO:CG	2.37	0.71
22:JB:846:A:H2	22:JB:2337:A:N7	1.88	0.71
24:JD:155:LEU:H	24:JD:155:LEU:HD23	1.55	0.71
22:JB:794:A:P	24:JD:53:PHE:HZ	2.12	0.71
32:JL:15:GLY:HA3	32:JL:60:PRO:HD3	1.71	0.71
35:JO:86:LYS:HE3	35:JO:115:LEU:HD12	1.71	0.71
39:JS:5:ILE:HG22	39:JS:41:GLY:H	1.55	0.71
42:JV:48:VAL:HG13	42:JV:50:GLY:H	1.52	0.71
1:AA:741:G:H2'	15:AO:51:HIS:O	1.90	0.71
1:AA:518:C:H5''	12:AL:49:ASN:HA	1.72	0.71
22:BB:1681:A:N3	22:BB:2706:U:C2	2.58	0.71
22:BB:1684:G:C5'	32:BL:5:GLN:OE1	2.39	0.71
22:BB:2343:C:H5''	44:BX:39:ARG:O	1.89	0.71
22:BB:2614:A:H4'	25:BE:77:ILE:CG2	2.19	0.71
22:BB:5:A:H2	22:BB:2872:U:C2	2.09	0.71
27:BG:74:ILE:HG13	27:BG:79:LEU:HD13	1.73	0.71
22:BB:2465:G:H5'	34:BN:123:GLY:C	2.11	0.71
25:BE:17:ASN:C	37:BQ:87:LEU:HD12	2.08	0.71
44:BX:30:VAL:HG12	44:BX:66:LYS:HE3	1.72	0.71
22:BB:863:C:HO2'	46:BZ:18:LYS:HB3	1.53	0.71
1:CA:1298:C:C4	7:CG:114:ARG:CD	2.55	0.71
1:CA:254:G:C5	17:CQ:16:GLN:CB	2.73	0.71
1:CA:954:G:N9	13:CM:123:ALA:HB2	2.05	0.71
10:CJ:51:ARG:HB2	10:CJ:59:SER:HB3	1.70	0.71
1:CA:689:C:C3'	11:CK:51:LYS:HZ1	2.02	0.71
1:CA:1229:A:H62	13:CM:120:LYS:HB2	1.55	0.71
13:CM:9:ILE:HG12	27:DG:144:ASP:OD1	1.88	0.71
14:CN:50:LYS:HB3	14:CN:52:GLN:HE22	1.55	0.71
1:CA:985:C:O2'	19:CS:55:LYS:HD2	1.88	0.71
22:DB:1414:G:H22	22:DB:1484:G:N2	1.87	0.71
22:DB:1555:A:H2'	22:DB:1555:A:N3	2.05	0.71
22:DB:2463:G:H2'	22:DB:2464:G:H8	1.54	0.71
22:DB:2714:A:N6	22:DB:2750:G:C1'	2.43	0.71
22:DB:878:C:H42	22:DB:921:A:H62	1.39	0.71
22:DB:2615:U:C5'	25:DE:79:ARG:CG	2.58	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:DT:106:LEU:HA	40:DT:117:ILE:HD11	1.72	0.71
34:DN:30:PHE:HA	43:DW:119:ASN:CG	2.11	0.71
34:DN:30:PHE:HA	43:DW:119:ASN:OD1	1.90	0.71
1:EA:1110:A:H5''	1:EA:1111:A:N7	2.05	0.71
1:EA:1308:U:H3'	13:EM:99:ARG:CZ	2.05	0.71
1:EA:1382:C:H4'	7:EG:79:ARG:NH1	2.04	0.71
1:EA:1061:G:C4'	10:EJ:56:HIS:NE2	2.30	0.71
1:EA:676:A:O2'	11:EK:115:PRO:CB	2.39	0.71
22:FB:2591:C:H1'	48:F2:2:ALA:CB	2.19	0.71
22:FB:2463:G:H2'	22:FB:2464:G:H8	1.55	0.71
22:FB:2558:C:C4'	25:FE:133:LYS:HE3	2.21	0.71
22:FB:73:A:H4'	45:FY:44:ARG:HH22	1.53	0.71
22:FB:968:C:P	34:FN:75:VAL:HG11	2.28	0.71
22:FB:1884:A:C2	24:FD:244:ARG:HD2	2.26	0.71
27:FG:24:SER:HB2	27:FG:27:ALA:HB2	1.72	0.71
33:FM:37:GLN:HE21	33:FM:38:LYS:N	1.88	0.71
22:FB:680:U:OP1	33:FM:48:PHE:O	2.08	0.71
37:FQ:33:VAL:HG21	37:FQ:57:ILE:HD12	1.71	0.71
1:GA:1320:C:H5''	19:GS:3:ARG:HD3	0.74	0.71
1:GA:749:C:O2'	15:GO:22:THR:CG2	2.37	0.71
1:GA:22:G:N3	1:GA:913:A:H2	1.88	0.71
22:HB:3122:U:O2'	53:H7:158:LYS:CE	2.38	0.71
53:H7:185:ALA:HA	53:H7:189:ALA:HB2	1.72	0.71
22:HB:1485:U:C4	22:HB:1537:U:C4	2.78	0.71
22:HB:3093:C:N1	22:HB:2181:A:N6	2.39	0.71
22:HB:2378:G:H4'	49:H3:20:PHE:CE2	2.26	0.71
22:HB:2574:G:N2	22:HB:2576:G:H3'	2.06	0.71
22:HB:2814:G:H5''	35:HO:46:PRO:CG	2.18	0.71
22:HB:626:A:H2'	22:HB:627:A:O4'	1.91	0.71
27:HG:74:ILE:HG13	27:HG:79:LEU:HD13	1.73	0.71
22:HB:1992:G:H5'	40:HT:62:ARG:HH21	1.55	0.71
4:ID:24:GLU:HG3	4:ID:27:TYR:HB3	1.71	0.71
7:IG:17:VAL:CG2	9:II:41:VAL:HA	2.21	0.71
16:IP:71:ARG:HE	16:IP:74:LEU:HB2	1.55	0.71
22:JB:181:A:H4'	22:JB:182:G:H4'	1.71	0.71
22:JB:1996:A:C4'	40:JT:117:ILE:HG22	2.19	0.71
22:JB:2260:C:O3'	22:JB:2368:G:N2	2.23	0.71
22:JB:2487:G:C5'	22:JB:2534:U:O4'	2.38	0.71
22:JB:315:G:OP2	42:JV:30:LYS:NZ	2.20	0.71
22:JB:626:A:H2'	22:JB:627:A:O4'	1.91	0.71
22:JB:857:U:H3'	22:JB:858:G:P	2.23	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:JB:878:C:H42	22:JB:921:A:H62	1.39	0.71
22:JB:1584:G:O5'	24:JD:62:TYR:CZ	2.43	0.71
22:JB:2282:G:N3	27:JG:129:ASN:CG	2.43	0.71
22:JB:2850:U:C4'	37:JQ:13:LEU:HG	2.19	0.71
1:AA:1110:A:H5''	1:AA:1111:A:N7	2.05	0.71
1:AA:1347:G:H8	9:AI:107:ARG:CA	2.03	0.71
1:AA:575:G:H4'	1:AA:576:G:H5'	1.71	0.71
8:AH:17:THR:HG22	8:AH:63:LEU:HG	1.73	0.71
1:AA:520:A:N7	12:AL:49:ASN:HA	2.06	0.71
10:AJ:11:PHE:CZ	14:AN:54:PRO:O	2.44	0.71
22:BB:1311:C:H2'	22:BB:1312:G:O4'	1.90	0.71
22:BB:1414:G:N2	22:BB:1484:G:H22	1.86	0.71
22:BB:2333:A:HO2'	44:BX:31:VAL:HG12	1.55	0.71
22:BB:2463:G:H2'	22:BB:2464:G:H8	1.55	0.71
22:BB:5:A:C2	22:BB:2872:U:C2	2.79	0.71
22:BB:8:A:H2'	22:BB:9:U:O4'	1.91	0.71
22:BB:596:C:C4'	33:BM:29:THR:HB	2.21	0.71
34:BN:35:LEU:O	34:BN:101:GLY:HA2	1.89	0.71
34:BN:8:THR:HA	34:BN:11:ARG:HH22	1.56	0.71
22:BB:489:A:H5'	42:BV:5:SER:O	1.89	0.71
42:BV:64:ASN:N	42:BV:65:PRO:HD2	2.06	0.71
43:BW:67:LYS:HA	43:BW:128:ARG:HH12	1.55	0.71
1:CA:264:U:O2	17:CQ:64:PRO:O	2.07	0.71
1:CA:940:C:O4'	7:CG:29:LYS:NZ	2.22	0.71
1:CA:974:A:P	14:CN:32:SER:HB3	2.31	0.71
1:CA:583:A:C1'	17:CQ:91:ARG:CZ	2.64	0.71
23:DA:96:C:P	43:DW:14:LEU:HB2	2.30	0.71
22:DB:1789:U:C5'	24:DD:257:LEU:HD13	2.21	0.71
22:DB:181:A:H4'	22:DB:182:G:H4'	1.71	0.71
22:DB:1992:G:H5'	40:DT:62:ARG:CA	2.19	0.71
22:DB:424:G:O5'	22:DB:2386:G:OP2	2.09	0.71
22:DB:2612:G:H1'	25:DE:62:PRO:HG2	1.70	0.71
22:DB:863:C:C5'	46:DZ:18:LYS:HG2	2.20	0.71
22:DB:930:A:C8	23:DA:82:U:O2'	2.42	0.71
22:DB:966:A:H1'	34:DN:86:LYS:O	1.90	0.71
22:DB:2766:U:H1'	25:DE:62:PRO:HA	1.72	0.71
22:DB:2725:C:O2	28:DH:139:GLN:CG	2.38	0.71
22:DB:2495:G:OP1	31:DK:108:GLY:O	2.07	0.71
22:DB:2394:G:C3'	33:DM:64:GLY:HA2	2.21	0.71
36:DP:26:ARG:HD3	36:DP:89:PHE:HB2	1.72	0.71
38:DR:47:TYR:CB	39:DS:74:TYR:HB3	2.19	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:DB:1275:A:OP2	40:DT:120:ARG:CZ	2.39	0.71
1:EA:1148:U:OP1	9:EI:66:ARG:NH2	2.17	0.71
1:EA:1347:G:H2'	1:EA:1373:G:N1	2.05	0.71
1:EA:244:U:O5'	17:EQ:100:LYS:NZ	2.24	0.71
1:EA:575:G:H4'	1:EA:576:G:H5'	1.71	0.71
1:EA:899:C:N4	24:FD:4:LYS:NZ	2.37	0.71
1:EA:135:C:C2	16:EP:1:MET:HB2	2.26	0.71
51:F5:26:LYS:HB2	51:F5:47:GLY:HA3	1.73	0.71
23:FA:89:G:H2'	23:FA:90:C:H5''	1.72	0.71
22:FB:1311:C:H2'	22:FB:1312:G:O4'	1.90	0.71
22:FB:1996:A:H4'	40:FT:109:ARG:HH22	1.56	0.71
22:FB:626:A:H2'	22:FB:627:A:O4'	1.91	0.71
22:FB:1006:C:N4	31:FK:30:LYS:NZ	2.38	0.71
38:FR:94:VAL:CG1	39:FS:11:GLN:HA	2.21	0.71
34:FN:36:ILE:CA	43:FW:74:ARG:NH1	2.48	0.71
43:FW:88:TYR:N	43:FW:90:GLU:N	2.37	0.71
22:FB:2365:U:O2'	44:FX:38:VAL:HG21	1.90	0.71
2:GB:68:ILE:HG22	2:GB:69:LEU:H	1.54	0.71
3:GC:12:LEU:HA	3:GC:16:ARG:HB3	1.72	0.71
3:GC:95:THR:HB	3:GC:97:LYS:HG2	1.71	0.71
4:GD:105:VAL:HB	4:GD:117:ALA:HB1	1.71	0.71
1:GA:958:A:H61	19:GS:77:THR:CA	2.02	0.71
22:HB:2789:U:C5	48:H2:30:LEU:HD13	2.16	0.71
51:H5:23:MET:HB3	51:H5:46:LYS:HB2	1.72	0.71
53:H7:47:LYS:HG2	53:H7:159:THR:HB	1.71	0.71
22:HB:2848:A:C2	35:HO:8:ARG:O	2.42	0.71
22:HB:511:A:C3'	40:HT:16:GLN:NE2	2.54	0.71
22:HB:580:A:H2'	22:HB:581:A:H3'	1.72	0.71
22:HB:90:G:H3'	22:HB:91:A:H5'	1.70	0.71
25:HE:106:GLY:H	25:HE:165:VAL:HG22	1.54	0.71
1:IA:128:G:H5'	17:IQ:61:GLU:OE2	1.91	0.71
1:IA:380:G:H1	1:IA:383:A:H62	1.38	0.71
1:IA:740:U:C5'	15:IO:35:ARG:NE	2.52	0.71
4:ID:205:GLU:HB3	5:IE:101:ILE:CG2	2.12	0.71
1:IA:636:U:P	17:IQ:5:VAL:H	2.13	0.71
33:JM:72:TYR:HE2	51:J5:64:ARG:HD3	1.55	0.71
22:JB:2393:G:H1'	33:JM:66:ASN:HD21	1.56	0.71
22:JB:580:A:H2'	22:JB:581:A:H3'	1.72	0.71
22:JB:672:C:C2'	26:JF:95:LEU:H	2.03	0.71
22:JB:603:C:C4	22:JB:677:G:O6	2.42	0.71
22:JB:1268:U:OP2	26:JF:68:ARG:NE	2.23	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:JG:117:ILE:H	27:JG:178:ARG:N	1.88	0.71
22:JB:2543:A:OP2	32:JL:39:GLY:CA	2.38	0.71
34:JN:35:LEU:O	34:JN:101:GLY:HA2	1.89	0.71
22:JB:2813:G:C4'	35:JO:42:LYS:HZ1	2.04	0.71
22:JB:529:U:HO2'	40:JT:94:GLU:HB3	1.56	0.71
22:JB:348:U:H1'	42:JV:11:ASN:HB2	1.73	0.71
1:AA:1322:C:OP1	19:AS:78:ARG:NH2	2.24	0.71
1:AA:413:G:H21	1:AA:428:G:H21	1.37	0.71
1:AA:658:G:H4'	15:AO:5:LYS:HB3	1.73	0.71
1:AA:859:A:HO2'	2:AB:27:LYS:HE3	1.53	0.71
2:AB:68:ILE:HG22	2:AB:69:LEU:H	1.54	0.71
3:AC:23:TYR:O	10:AJ:95:GLU:HB2	1.90	0.71
4:AD:105:VAL:HB	4:AD:117:ALA:HB1	1.70	0.71
1:AA:619:U:C5	4:AD:133:VAL:HG13	2.25	0.71
9:AI:8:GLY:HA2	9:AI:79:LEU:HB2	1.73	0.71
22:BB:1887:G:C5	22:BB:1888:C:C6	2.78	0.71
22:BB:2494:C:O3'	31:BK:108:GLY:C	2.29	0.71
22:BB:2574:G:N2	22:BB:2576:G:H3'	2.06	0.71
22:BB:57:G:N1	22:BB:72:A:C2	2.59	0.71
22:BB:597:U:C5'	33:BM:28:LYS:HA	2.20	0.71
22:BB:1805:G:C3'	24:BD:44:ASN:CA	2.69	0.71
25:BE:176:ARG:CZ	37:BQ:19:ASP:OD2	2.38	0.71
22:BB:332:C:OP2	26:BF:130:THR:HG23	1.85	0.71
22:BB:644:A:OP1	33:BM:70:THR:HG21	1.91	0.71
34:BN:98:VAL:HG13	34:BN:99:LYS:N	2.05	0.71
22:BB:760:U:C5'	40:BT:111:ARG:HD2	2.19	0.71
1:CA:127:G:N2	17:CQ:61:GLU:CD	2.43	0.71
1:CA:1313:U:P	19:CS:6:LYS:HG2	2.30	0.71
1:CA:1347:G:H8	9:CI:107:ARG:O	1.72	0.71
1:CA:558:G:H4'	5:CE:121:LYS:HZ2	1.53	0.71
1:CA:675:A:N7	18:CR:81:PHE:CZ	2.59	0.71
4:CD:87:GLY:C	5:CE:97:GLY:HA3	2.10	0.71
4:CD:204:ILE:HD13	5:CE:98:THR:O	1.90	0.71
8:CH:36:LEU:HA	8:CH:39:LEU:HD23	1.73	0.71
9:CI:8:GLY:HA2	9:CI:79:LEU:HB2	1.73	0.71
11:CK:13:GLN:HE22	11:CK:75:TYR:HB3	1.54	0.71
1:CA:668:G:C4'	15:CO:48:LYS:N	2.05	0.71
1:CA:135:C:O2'	16:CP:1:MET:CG	2.38	0.71
19:CS:16:LEU:HA	19:CS:19:VAL:HG12	1.72	0.71
22:DB:1819:U:H5'	22:DB:1954:A:H4'	1.73	0.71
22:DB:2462:C:O2'	34:DN:50:ALA:HB2	1.88	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:DB:2492:G:C2'	22:DB:2493:U:C6	2.73	0.71
22:DB:2574:G:N2	22:DB:2576:G:H3'	2.06	0.71
22:DB:626:A:H2'	22:DB:627:A:O4'	1.91	0.71
22:DB:8:A:H2'	22:DB:9:U:O4'	1.91	0.71
27:DG:74:ILE:HG13	27:DG:79:LEU:HD13	1.72	0.71
43:DW:48:THR:HG23	43:DW:65:LEU:HG	1.72	0.71
22:DB:999:A:OP1	46:DZ:9:VAL:HG23	1.90	0.71
1:EA:926:G:H1	1:EA:1505:G:N2	1.87	0.71
1:EA:279:A:C2	17:EQ:97:SER:N	2.59	0.71
1:EA:407:G:C2'	4:ED:116:GLN:NE2	2.54	0.71
2:EB:15:VAL:HG11	2:EB:213:LEU:HD13	1.73	0.71
3:EC:95:THR:HB	3:EC:97:LYS:HG2	1.71	0.71
1:EA:1117:G:O2'	9:EI:9:ARG:HD3	1.91	0.71
1:EA:281:G:C6	17:EQ:98:LEU:HD11	2.23	0.71
22:FB:1581:C:C5	24:FD:28:ARG:NH1	2.59	0.71
22:FB:2005:U:C2	48:F2:9:LYS:HE2	2.25	0.71
22:FB:2063:A:H5'	47:F1:33:VAL:HG22	1.72	0.71
22:FB:2292:C:C4'	27:FG:37:ASN:OD1	2.34	0.71
22:FB:2344:G:H4'	44:FX:66:LYS:CD	2.20	0.71
22:FB:2752:C:O4'	25:FE:166:THR:CB	2.35	0.71
22:FB:8:A:H2'	22:FB:9:U:O4'	1.91	0.71
28:FH:114:ILE:O	28:FH:115:ILE:HG12	1.91	0.71
34:FN:8:THR:HA	34:FN:11:ARG:HH22	1.56	0.71
40:FT:106:LEU:HA	40:FT:117:ILE:HD11	1.72	0.71
22:FB:76:C:H5''	45:FY:52:GLN:HG3	1.72	0.71
1:GA:925:G:C2	1:GA:1502:A:O3'	2.43	0.71
5:GE:127:ASN:HB3	5:GE:131:ILE:HG12	1.71	0.71
22:HB:3177:C:C4'	53:H7:163:PRO:CD	2.53	0.71
22:HB:1750:A:N3	22:HB:2690:A:H2	1.87	0.71
22:HB:512:A:O5'	40:HT:16:GLN:CD	2.28	0.71
22:HB:917:U:C2'	43:HW:118:HIS:HD2	1.96	0.71
22:HB:2550:C:HO2'	25:HE:144:ARG:CG	1.76	0.71
22:HB:647:G:OP2	33:HM:127:ALA:C	2.29	0.71
38:HR:101:ARG:HH21	38:HR:102:GLU:HB2	1.53	0.71
22:HB:504:G:C4'	40:HT:25:PHE:CG	2.58	0.71
34:HN:62:GLY:CA	43:HW:110:GLY:HA3	2.20	0.71
44:HX:59:LEU:HD23	44:HX:81:ILE:HA	1.73	0.71
1:IA:919:A:N9	1:IA:920:U:H5	1.84	0.71
9:II:28:VAL:HA	9:II:63:ILE:HB	1.72	0.71
11:IK:13:GLN:HE22	11:IK:75:TYR:HB3	1.55	0.71
19:IS:16:LEU:HA	19:IS:19:VAL:HG12	1.73	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:IA:323:U:H4'	20:IT:22:ARG:CD	2.20	0.71
20:IT:33:ILE:HG23	20:IT:62:LEU:HD13	1.73	0.71
53:J7:179:LEU:HD22	53:J7:183:ALA:HB2	1.73	0.71
22:JB:1750:A:C5'	22:JB:2695:C:O2'	2.38	0.71
22:JB:3197:U:C6	22:JB:2203:G:O6	2.41	0.71
22:JB:672:C:C4'	26:JF:95:LEU:N	2.54	0.71
22:JB:2571:G:N7	24:JD:237:GLU:CG	2.53	0.71
1:AA:125:U:H2'	1:AA:126:G:H8	1.55	0.71
2:AB:121:LEU:HG	2:AB:126:GLU:HB3	1.72	0.71
2:AB:103:THR:HG23	2:AB:179:LYS:HD3	1.73	0.71
3:AC:37:GLN:HA	3:AC:40:ARG:HD2	1.72	0.71
14:AN:50:LYS:HB3	14:AN:52:GLN:HE22	1.56	0.71
17:AQ:9:VAL:HG22	17:AQ:56:VAL:HG13	1.71	0.71
19:AS:22:LEU:HD21	19:AS:31:ILE:HD11	1.73	0.71
20:AT:33:ILE:HG23	20:AT:62:LEU:HD13	1.73	0.71
53:B7:32:ILE:HG23	53:B7:167:VAL:H	1.56	0.71
22:BB:707:U:H1'	22:BB:1392:U:H3	1.53	0.71
22:BB:1889:G:OP1	22:BB:1913:G:N7	2.23	0.71
22:BB:191:G:N2	22:BB:193:A:H1'	2.02	0.71
22:BB:19:C:H5'	22:BB:563:U:OP1	1.90	0.71
22:BB:2474:G:H5''	34:BN:82:THR:HA	1.73	0.71
22:BB:85:C:H1'	22:BB:95:G:H22	1.55	0.71
22:BB:887:G:H1'	43:BW:167:THR:CA	2.09	0.71
22:BB:965:G:O3'	34:BN:18:MET:CE	2.38	0.71
22:BB:2753:C:OP1	25:BE:164:ARG:HG3	1.90	0.71
22:BB:597:U:C4'	33:BM:28:LYS:HE2	2.02	0.71
43:BW:17:SER:HA	43:BW:36:ARG:HH12	1.55	0.71
1:CA:1318:A:H4'	19:CS:10:PHE:CG	2.26	0.71
1:CA:575:G:H4'	1:CA:576:G:H5'	1.71	0.71
4:CD:201:GLN:OE1	5:CE:116:THR:HB	1.91	0.71
5:CE:127:ASN:HB3	5:CE:131:ILE:HG12	1.71	0.71
1:CA:932:C:P	7:CG:3:ARG:HB2	2.22	0.71
1:CA:1345:U:C4'	9:CI:120:ARG:NH1	2.53	0.71
13:CM:84:ILE:HD11	13:CM:92:HIS:HD2	1.54	0.71
1:CA:738:C:N3	15:CO:46:HIS:NE2	2.38	0.71
1:CA:759:A:C4	17:CQ:98:LEU:HB3	1.92	0.71
22:DB:2003:A:C6	48:D2:9:LYS:CE	2.63	0.71
22:DB:1042:G:O2'	52:D6:6:SER:C	2.29	0.71
22:DB:1806:G:C1'	24:DD:52:ARG:NH2	2.54	0.71
22:DB:2470:U:C2	22:DB:2549:G:OP1	2.44	0.71
22:DB:2751:C:C5'	25:DE:202:ALA:HB2	2.11	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:DB:28:A:H1'	38:DR:11:ARG:NH2	2.06	0.71
25:DE:111:LYS:HB2	25:DE:114:GLN:HE22	1.54	0.71
33:DM:52:GLY:HA3	51:D5:55:TRP:CZ3	2.26	0.71
34:DN:34:GLY:HA2	34:DN:104:MET:HG3	1.71	0.71
34:DN:8:THR:HA	34:DN:11:ARG:HH22	1.56	0.71
34:DN:27:TYR:HD2	43:DW:73:LYS:HA	1.46	0.71
1:EA:230:G:C5'	16:EP:26:ARG:HE	2.03	0.71
1:EA:330:C:H2'	1:EA:331:G:H8	1.55	0.71
1:EA:778:G:N3	11:EK:120:ARG:HB2	2.06	0.71
9:EI:24:GLY:HA3	9:EI:57:GLY:HA2	1.71	0.71
49:F3:26:LYS:NZ	51:F5:33:ASN:HD21	1.87	0.71
22:FB:2264:C:OP1	49:F3:28:ARG:NH1	2.23	0.71
53:F7:158:LYS:H	53:F7:158:LYS:HD3	1.56	0.71
22:FB:1235:C:P	39:FS:68:LYS:CG	2.79	0.71
22:FB:191:G:N2	22:FB:193:A:H1'	2.02	0.71
22:FB:2259:G:N3	22:FB:2367:A:N3	2.37	0.71
22:FB:2574:G:N2	22:FB:2576:G:H3'	2.06	0.71
22:FB:2598:C:O2	25:FE:154:LYS:CE	2.38	0.71
22:FB:215:G:HO2'	22:FB:617:U:HO2'	1.32	0.71
22:FB:737:C:H3'	22:FB:738:G:P	2.30	0.71
22:FB:891:A:C2	22:FB:909:C:N3	2.58	0.71
24:FD:213:ARG:HE	24:FD:219:PRO:HA	1.54	0.71
27:FG:74:ILE:HG22	27:FG:76:ASN:H	1.56	0.71
22:FB:1008:G:H5''	38:FR:92:ARG:HD3	1.73	0.71
22:FB:1992:G:H4'	40:FT:63:SER:HB2	1.73	0.71
1:GA:1060:C:C1'	10:GJ:56:HIS:HB3	2.20	0.71
1:GA:279:A:OP2	17:GQ:95:TYR:OH	2.07	0.71
8:GH:36:LEU:HA	8:GH:39:LEU:HD23	1.73	0.71
1:GA:958:A:N6	19:GS:77:THR:C	2.44	0.71
22:HB:1378:A:O4'	47:H1:11:PRO:HB2	1.89	0.71
22:HB:1256:C:H5''	33:HM:17:LYS:NZ	2.06	0.71
22:HB:1829:C:H4'	22:HB:1911:A:O4'	1.91	0.71
22:HB:1385:C:C1'	22:HB:2193:C:N3	2.53	0.71
22:HB:494:A:C4	42:HV:56:LYS:HG2	2.25	0.71
22:HB:1805:G:C2'	24:HD:44:ASN:O	2.39	0.71
27:HG:117:ILE:H	27:HG:178:ARG:N	1.89	0.71
1:IA:1359:C:P	14:IN:31:ARG:CA	2.61	0.71
4:ID:201:GLN:OE1	5:IE:116:THR:OG1	2.09	0.71
22:JB:1628:C:O3'	50:J4:6:GLN:HA	1.90	0.71
22:JB:2734:U:C4'	52:J6:15:LYS:HD2	2.20	0.71
22:JB:1470:G:H1'	35:JO:60:LEU:CD2	2.17	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:JB:1741:G:N2	22:JB:2835:A:C2	2.58	0.71
22:JB:3172:U:OP2	53:J7:105:ARG:C	2.28	0.71
22:JB:705:C:H5''	24:JD:43:ARG:NH2	2.04	0.71
28:JH:114:ILE:O	28:JH:115:ILE:HG12	1.91	0.71
22:JB:1149:G:OP1	31:JK:132:PHE:HE1	1.72	0.71
22:JB:220:U:O2'	33:JM:69:GLY:CA	2.39	0.71
22:JB:2850:U:O2'	37:JQ:10:GLY:HA3	1.91	0.71
1:AA:276:G:H5''	17:AQ:43:LEU:HD22	1.71	0.71
1:AA:1048:G:C5'	14:AN:3:ARG:NE	2.52	0.71
9:AI:111:ARG:CZ	14:AN:61:TRP:CZ2	2.74	0.71
22:BB:123:A:H4'	50:B4:13:ALA:CB	2.20	0.71
53:B7:179:LEU:HD22	53:B7:183:ALA:HB2	1.73	0.71
22:BB:2365:U:H5'	44:BX:39:ARG:HH12	1.32	0.71
22:BB:2760:G:H22	31:BK:150:VAL:CG1	1.96	0.71
22:BB:460:U:H2'	26:BF:78:VAL:HG21	1.71	0.71
22:BB:626:A:H2'	22:BB:627:A:O4'	1.91	0.71
22:BB:888:G:C1'	43:BW:165:GLU:CD	1.88	0.71
22:BB:2465:G:H5'	34:BN:123:GLY:HA2	1.73	0.71
35:BO:86:LYS:HE3	35:BO:115:LEU:HD12	1.72	0.71
34:BN:65:ILE:CG2	43:BW:115:ILE:HD12	2.20	0.71
44:BX:59:LEU:HD23	44:BX:81:ILE:HA	1.73	0.71
1:CA:230:G:C4'	16:CP:26:ARG:NH2	2.25	0.71
1:CA:330:C:H2'	1:CA:331:G:H8	1.55	0.71
1:CA:529:G:H22	12:CL:49:ASN:CA	1.97	0.71
5:CE:79:GLU:HG3	5:CE:93:PRO:HD2	1.73	0.71
9:CI:24:GLY:HA3	9:CI:57:GLY:HA2	1.71	0.71
22:DB:191:G:N2	22:DB:193:A:H1'	2.02	0.71
22:DB:512:A:OP1	40:DT:15:LYS:C	2.28	0.71
22:DB:1807:A:H5'	24:DD:88:ARG:NE	2.05	0.71
22:DB:1672:A:H1'	25:DE:114:GLN:HA	1.71	0.71
32:DL:76:ARG:HD2	32:DL:90:ARG:NH2	2.04	0.71
34:DN:76:THR:H	34:DN:90:ALA:HA	1.55	0.71
22:DB:1291:G:P	35:DO:35:GLN:O	2.48	0.71
44:DX:59:LEU:HD23	44:DX:81:ILE:HA	1.73	0.71
1:EA:1228:C:OP1	13:EM:108:ARG:HD2	1.89	0.71
22:FB:1531:C:O2'	22:FB:1572:C:N1	2.22	0.71
22:FB:181:A:H4'	22:FB:182:G:H4'	1.72	0.71
22:FB:85:C:H1'	22:FB:95:G:H22	1.56	0.71
22:FB:857:U:O2	22:FB:946:U:O2	2.06	0.71
25:FE:111:LYS:HB2	25:FE:114:GLN:HE22	1.54	0.71
27:FG:74:ILE:HG13	27:FG:79:LEU:HD13	1.73	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:FB:1006:C:N4	31:FK:30:LYS:CE	2.54	0.71
22:FB:2446:C:H1'	34:FN:117:GLU:CD	2.09	0.71
35:FO:72:ASP:HB3	35:FO:75:VAL:HG23	1.73	0.71
42:FV:64:ASN:N	42:FV:65:PRO:HD2	2.05	0.71
1:GA:1347:G:H2'	1:GA:1373:G:N1	2.05	0.71
1:GA:315:A:H4'	1:GA:316:G:H5''	1.73	0.71
1:GA:509:A:C5	4:GD:54:TYR:CE2	2.79	0.71
2:GB:103:THR:HG23	2:GB:179:LYS:HD3	1.73	0.71
1:GA:509:A:C5	4:GD:54:TYR:HE2	2.08	0.71
7:GG:149:ARG:C	11:GK:59:TYR:HE2	1.92	0.71
1:GA:676:A:H1'	11:GK:118:GLY:CA	2.21	0.71
23:HA:89:G:H2'	23:HA:90:C:H5''	1.72	0.71
22:HB:1256:C:O3'	33:HM:17:LYS:HD3	1.91	0.71
22:HB:2463:G:H2'	22:HB:2464:G:H8	1.54	0.71
22:HB:2532:G:H5'	22:HB:2561:G:H1'	1.72	0.71
22:HB:1268:U:C5	26:HF:66:ASN:OD1	2.44	0.71
27:HG:74:ILE:HG22	27:HG:76:ASN:H	1.56	0.71
22:HB:1744:G:O6	37:HQ:126:LYS:N	2.24	0.71
1:IA:1223:C:OP1	19:IS:78:ARG:NH2	2.22	0.71
1:IA:927:G:C8	1:IA:1531:A:H1'	2.26	0.71
1:IA:315:A:H4'	1:IA:316:G:H5''	1.73	0.71
1:IA:826:C:HO2'	8:IH:15:ASN:HB2	1.55	0.71
9:II:8:GLY:HA2	9:II:79:LEU:HB2	1.73	0.71
13:IM:73:GLU:HA	13:IM:76:ALA:HB3	1.71	0.71
14:IN:50:LYS:HB3	14:IN:52:GLN:HE22	1.55	0.71
22:JB:219:G:H2'	51:J5:4:MET:O	1.91	0.71
22:JB:2506:C:C5'	52:J6:33:LYS:H	2.04	0.71
22:JB:1810:U:OP1	24:JD:157:ARG:N	2.21	0.71
22:JB:2206:C:H4'	24:JD:262:LYS:HG2	1.72	0.71
22:JB:846:A:C2	22:JB:2337:A:N6	2.59	0.71
22:JB:2463:G:H2'	22:JB:2464:G:H8	1.54	0.71
22:JB:2532:G:H5'	22:JB:2561:G:H1'	1.72	0.71
22:JB:2611:A:O2'	22:JB:2786:G:H1'	1.90	0.71
22:JB:529:U:C4'	40:JT:39:ARG:NH2	2.54	0.71
22:JB:796:A:OP2	24:JD:226:MET:HE2	1.88	0.71
22:JB:1741:G:O6	37:JQ:125:MET:HE3	1.91	0.71
22:JB:1338:G:N2	40:JT:108:PRO:O	2.23	0.71
22:JB:470:U:O2	41:JU:68:PHE:CD2	2.42	0.71
42:JV:64:ASN:N	42:JV:65:PRO:HD2	2.05	0.71
1:AA:1253:G:O2'	1:AA:1356:G:H4'	1.91	0.71
1:AA:761:G:H21	17:AQ:104:LYS:HA	1.54	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AC:9:GLY:HA2	3:AC:12:LEU:HD12	1.72	0.71
4:AD:34:GLU:HG3	4:AD:35:ARG:HG3	1.72	0.71
1:AA:1230:C:N1	13:AM:125:ARG:NH1	2.38	0.71
1:AA:331:G:OP2	20:AT:10:LEU:HD11	1.90	0.71
22:BB:2412:A:C2	47:B1:30:GLU:HA	2.24	0.71
51:B5:23:MET:HB3	51:B5:46:LYS:HB2	1.72	0.71
22:BB:1141:U:H4'	31:BK:108:GLY:N	2.05	0.71
22:BB:1416:A:H5''	22:BB:1485:U:C2'	2.20	0.71
22:BB:2236:U:OP2	44:BX:4:LYS:CG	2.30	0.71
22:BB:2600:A:O3'	25:BE:159:HIS:HB3	1.88	0.71
22:BB:742:G:C4'	24:BD:18:THR:OG1	2.39	0.71
22:BB:1815:G:H3'	24:BD:54:ILE:HG13	1.72	0.71
22:BB:687:G:O5'	26:BF:68:ARG:NH2	2.24	0.71
22:BB:1070:G:H21	30:BJ:127:VAL:HA	1.55	0.71
34:BN:28:VAL:HG13	43:BW:119:ASN:HB3	1.70	0.71
22:BB:968:C:OP1	34:BN:92:GLU:OE1	2.09	0.71
1:CA:126:G:H22	17:CQ:4:LYS:HE2	1.56	0.71
1:CA:1311:G:N7	19:CS:2:PRO:N	2.39	0.71
1:CA:1349:A:P	9:CI:118:LYS:O	2.49	0.71
1:CA:582:U:O3'	15:CO:68:ARG:NH1	2.24	0.71
3:CC:37:GLN:HA	3:CC:40:ARG:HD2	1.72	0.71
1:CA:706:A:H4'	11:CK:29:ILE:HG21	1.71	0.71
20:CT:33:ILE:HG23	20:CT:62:LEU:HD13	1.73	0.71
20:CT:31:SER:HA	20:CT:34:LYS:HD2	1.73	0.71
22:DB:1790:G:OP1	24:DD:258:LYS:CG	2.36	0.71
22:DB:2541:U:O3'	32:DL:25:LEU:HD21	1.91	0.71
22:DB:2612:G:N3	25:DE:62:PRO:CG	2.53	0.71
22:DB:29:U:O2	38:DR:8:ILE:HD11	1.90	0.71
22:DB:687:G:C5'	26:DF:68:ARG:HH22	2.03	0.71
22:DB:1809:G:H4'	24:DD:157:ARG:HH12	0.89	0.71
22:DB:1383:C:H4'	24:DD:48:ARG:CZ	2.20	0.71
22:DB:627:A:OP1	26:DF:100:ARG:CZ	2.39	0.71
22:DB:810:U:P	26:DF:55:GLY:CA	2.79	0.71
32:DL:118:LEU:HD22	32:DL:126:ILE:HD13	1.73	0.71
33:DM:34:HIS:HB2	33:DM:35:LYS:HD3	1.72	0.71
32:DL:119:ARG:NH2	37:DQ:43:ASN:HD21	1.87	0.71
22:DB:999:A:OP1	46:DZ:9:VAL:HG21	1.91	0.71
1:EA:1240:U:O4	7:EG:119:ARG:NH2	2.24	0.71
1:EA:125:U:H4'	1:EA:605:U:O2'	1.91	0.71
1:EA:1253:G:O2'	1:EA:1356:G:H4'	1.91	0.71
1:EA:926:G:C8	1:EA:1502:A:C2	2.74	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:EC:29:TYR:HA	3:EC:33:LEU:HB2	1.73	0.71
1:EA:489:C:OP1	4:ED:132:ARG:HB2	1.90	0.71
8:EH:17:THR:HG22	8:EH:63:LEU:HG	1.73	0.71
1:EA:707:C:H5''	11:EK:85:ARG:NH1	2.06	0.71
1:EA:632:A:C1'	17:EQ:30:PRO:CB	2.69	0.71
22:FB:124:A:C5'	50:F4:19:ARG:HB3	2.21	0.71
51:F5:23:MET:HB3	51:F5:46:LYS:HB2	1.72	0.71
22:FB:1269:G:N2	26:FF:76:THR:CB	2.51	0.71
22:FB:1411:C:H2'	22:FB:1412:C:C5	2.17	0.71
22:FB:2364:C:O2'	44:FX:37:LEU:CG	2.38	0.71
22:FB:2579:A:H62	24:FD:237:GLU:CG	2.02	0.71
22:FB:2766:U:O2'	25:FE:64:GLN:OE1	2.08	0.71
22:FB:511:A:H1'	40:FT:12:LYS:HD2	1.72	0.71
22:FB:591:G:OP1	38:FR:32:TYR:CE2	2.39	0.71
22:FB:954:U:OP2	33:FM:38:LYS:O	2.09	0.71
24:FD:144:ALA:HB3	24:FD:192:THR:H	1.55	0.71
1:GA:1248:A:N9	9:GI:70:LYS:CE	2.54	0.71
1:GA:876:G:N2	8:GH:4:ASP:N	2.39	0.71
9:GI:28:VAL:HG22	9:GI:63:ILE:HG21	1.73	0.71
22:HB:1401:G:N1	22:HB:1413:U:C4	2.59	0.71
22:HB:236:C:H1'	22:HB:632:A:C2'	2.20	0.71
22:HB:2653:A:H4'	32:HL:43:ARG:CD	2.20	0.71
34:HN:98:VAL:HG13	34:HN:99:LYS:N	2.05	0.71
35:HO:21:ALA:HB1	35:HO:25:ALA:HB3	1.72	0.71
22:HB:497:C:C2'	40:HT:77:ALA:CA	2.68	0.71
22:HB:490:A:H5''	42:HV:3:ARG:HB3	0.72	0.71
22:HB:489:A:C3'	42:HV:5:SER:HB2	2.15	0.71
1:IA:1347:G:H2'	1:IA:1373:G:N1	2.05	0.71
3:IC:37:GLN:HA	3:IC:40:ARG:HD2	1.72	0.71
1:IA:277:C:N4	17:IQ:96:GLN:NE2	2.38	0.71
1:IA:187:G:OP1	20:IT:85:MET:HB3	1.90	0.71
22:JB:1004:A:N6	22:JB:1171:A:N6	2.38	0.71
22:JB:191:G:N2	22:JB:193:A:H1'	2.02	0.71
22:JB:2489:C:C1'	25:JE:126:PRO:HD2	2.20	0.71
22:JB:1727:C:H4'	22:JB:2833:C:O2	1.91	0.71
22:JB:3167:U:H5''	53:J7:97:LYS:HZ3	0.88	0.71
22:JB:946:U:H2'	22:JB:947:C:C6	2.26	0.71
27:JG:24:SER:HB2	27:JG:27:ALA:HB2	1.72	0.71
27:JG:74:ILE:HG22	27:JG:76:ASN:H	1.56	0.71
22:JB:3094:A:C1'	29:JI:28:TRP:CZ3	2.74	0.71
22:JB:1006:C:N3	31:JK:30:LYS:HE3	2.06	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1430:C:C5'	22:BB:1721:G:OP1	2.38	0.70
1:AA:26:A:N6	4:AD:209:ARG:NH2	2.39	0.70
1:AA:687:A:H61	1:AA:701:C:H5'	1.56	0.70
2:AB:195:ASP:O	8:AH:73:ASP:OD1	2.09	0.70
3:AC:12:LEU:HA	3:AC:16:ARG:HB3	1.72	0.70
10:AJ:63:PHE:CE2	14:AN:49:HIS:N	2.58	0.70
23:BA:89:G:C2'	23:BA:90:C:H5''	2.21	0.70
23:BA:92:G:O2'	34:BN:22:ALA:CB	2.33	0.70
22:BB:1070:G:C1'	30:BJ:115:LEU:HD23	2.21	0.70
22:BB:1166:A:C5	22:BB:1168:G:C6	2.78	0.70
22:BB:1398:G:C1'	22:BB:1416:A:C2	2.74	0.70
22:BB:2680:U:H3	22:BB:2683:C:H41	1.39	0.70
22:BB:2751:C:O2'	25:BE:166:THR:CG2	2.38	0.70
22:BB:2:G:N2	22:BB:2876:C:C2	2.59	0.70
22:BB:613:A:N6	33:BM:97:ARG:CD	2.45	0.70
22:BB:9:U:H5'	31:BK:35:LYS:O	1.90	0.70
25:BE:6:GLY:HA2	25:BE:195:LEU:HA	1.71	0.70
22:BB:6:A:C1'	31:BK:163:PRO:HD3	2.21	0.70
35:BO:72:ASP:HB3	35:BO:75:VAL:HG23	1.73	0.70
22:BB:1237:G:O2'	39:BS:86:HIS:N	2.24	0.70
1:CA:1347:G:H2'	1:CA:1373:G:N1	2.05	0.70
2:CB:103:THR:HG23	2:CB:179:LYS:HD3	1.73	0.70
1:CA:8:A:O3'	5:CE:122:GLU:CD	2.27	0.70
1:CA:19:C:C5'	5:CE:86:ALA:CB	2.68	0.70
9:CI:28:VAL:HA	9:CI:63:ILE:HB	1.73	0.70
11:CK:107:SER:HB2	11:CK:109:VAL:HG23	1.73	0.70
22:DB:475:U:C5'	50:D4:5:TYR:HB2	2.16	0.70
23:DA:116:C:O2'	36:DP:50:THR:HA	1.91	0.70
22:DB:1173:G:C5'	39:DS:23:GLU:O	2.39	0.70
22:DB:1308:C:P	35:DO:71:HIS:HD2	2.13	0.70
22:DB:2394:G:O2'	33:DM:64:GLY:CA	2.38	0.70
22:DB:85:C:H1'	22:DB:95:G:H22	1.56	0.70
22:DB:2738:A:N6	28:DH:71:LEU:HD11	2.05	0.70
34:DN:27:TYR:CE2	43:DW:73:LYS:CA	2.72	0.70
22:DB:970:A:N6	34:DN:83:ARG:HH22	1.87	0.70
22:DB:2236:U:C4'	44:DX:10:SER:CB	2.69	0.70
1:EA:539:A:OP2	12:EL:114:LYS:O	2.09	0.70
1:EA:865:A:P	1:EA:1078:U:C2	2.83	0.70
3:EC:9:GLY:HA2	3:EC:12:LEU:HD12	1.71	0.70
1:EA:1373:G:O3'	7:EG:31:MET:CE	2.39	0.70
1:EA:826:C:C1'	8:EH:15:ASN:ND2	2.51	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:EA:1123:A:C1'	10:EJ:38:ILE:HA	2.18	0.70
14:EN:50:LYS:HB3	14:EN:52:GLN:HE22	1.56	0.70
3:EC:20:SER:O	14:EN:54:PRO:HD3	1.91	0.70
9:EI:111:ARG:CD	14:EN:61:TRP:OXT	2.39	0.70
1:EA:376:G:H5'	16:EP:6:LEU:HB2	1.71	0.70
19:ES:22:LEU:HD21	19:ES:31:ILE:HD11	1.73	0.70
22:FB:1043:A:H5''	52:F6:23:VAL:HG23	1.73	0.70
22:FB:10:A:N1	22:FB:2608:A:H1'	2.06	0.70
22:FB:114:C:C1'	22:FB:124:A:HO2'	2.04	0.70
22:FB:2218:G:C5'	24:FD:248:THR:HG23	2.21	0.70
22:FB:2372:A:H4'	33:FM:60:LEU:HA	1.71	0.70
22:FB:2470:U:C4	22:FB:2548:G:O2'	2.43	0.70
22:FB:2540:A:N3	32:FL:23:ARG:HG3	2.06	0.70
22:FB:2614:A:C2	25:FE:79:ARG:CZ	2.70	0.70
22:FB:409:G:H5'	47:F1:10:VAL:CG1	2.10	0.70
22:FB:548:G:C1'	31:FK:33:ILE:HG23	2.17	0.70
28:FH:148:VAL:HB	28:FH:152:ARG:HE	1.55	0.70
22:FB:2510:A:O3'	28:FH:157:TYR:OH	2.09	0.70
22:FB:967:G:OP1	34:FN:76:THR:HB	1.90	0.70
32:FL:83:ARG:NH1	37:FQ:81:PHE:HB2	2.06	0.70
22:FB:1237:G:H4'	39:FS:87:ARG:HB2	1.71	0.70
5:GE:79:GLU:HG3	5:GE:93:PRO:HD2	1.73	0.70
9:GI:28:VAL:HA	9:GI:63:ILE:HB	1.73	0.70
14:GN:50:LYS:HB3	14:GN:52:GLN:HE22	1.55	0.70
22:HB:1043:A:H5'	52:H6:23:VAL:CG2	2.21	0.70
53:H7:64:VAL:HG11	53:H7:111:LEU:HB2	1.73	0.70
22:HB:1010:U:O2	22:HB:1168:G:N2	2.23	0.70
22:HB:1004:A:H1'	22:HB:1173:G:N2	2.06	0.70
22:HB:1998:A:H1'	48:H2:6:VAL:CG1	2.21	0.70
22:HB:3093:C:O4'	22:HB:2181:A:C6	2.40	0.70
22:HB:848:A:C4'	22:HB:2337:A:H1'	2.20	0.70
22:HB:759:C:O5'	40:HT:111:ARG:HG2	1.90	0.70
32:HL:89:ILE:HA	37:HQ:81:PHE:HB3	1.71	0.70
22:HB:935:C:H5'	44:HX:26:PHE:CD2	2.26	0.70
1:IA:1374:A:OP1	7:IG:28:ASN:OD1	2.08	0.70
1:IA:927:G:C6	1:IA:1531:A:O2'	2.44	0.70
1:IA:587:G:C5'	8:IH:89:PRO:CB	2.67	0.70
8:IH:17:THR:HG22	8:IH:63:LEU:HG	1.73	0.70
22:JB:2262:C:C5'	49:J3:9:ILE:HD12	2.20	0.70
22:JB:475:U:O5'	50:J4:5:TYR:CD1	2.38	0.70
53:J7:64:VAL:HG11	53:J7:111:LEU:HB2	1.73	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:JB:1203:A:O3'	33:JM:37:GLN:NE2	2.24	0.70
22:JB:217:U:H5''	22:JB:634:G:C5'	2.20	0.70
22:JB:2258:G:C1'	22:JB:2306:A:O2'	2.39	0.70
22:JB:3877:A:C1'	53:J7:43:LYS:HD3	2.20	0.70
22:JB:608:G:C2	26:JF:29:GLU:OE2	2.43	0.70
22:JB:2615:U:OP1	25:JE:79:ARG:N	2.24	0.70
33:JM:72:TYR:CE2	51:J5:64:ARG:CD	2.73	0.70
34:JN:76:THR:H	34:JN:90:ALA:HA	1.56	0.70
35:JO:21:ALA:HB1	35:JO:25:ALA:HB3	1.72	0.70
1:AA:1189:C:H5'	3:AC:10:PHE:HZ	1.57	0.70
1:AA:1347:G:H2'	1:AA:1373:G:N1	2.05	0.70
1:AA:254:G:N2	17:AQ:16:GLN:CG	2.53	0.70
1:AA:330:C:H2'	1:AA:331:G:H8	1.55	0.70
2:AB:61:LEU:HD22	2:AB:64:ARG:HD2	1.73	0.70
4:AD:24:GLU:HG3	4:AD:27:TYR:HB3	1.71	0.70
13:AM:81:LEU:CD1	13:AM:88:ARG:HH11	2.04	0.70
1:AA:1318:A:C2	19:AS:37:ARG:NH1	2.58	0.70
20:AT:33:ILE:HA	20:AT:62:LEU:HD22	1.73	0.70
23:BA:106:U:C3'	43:BW:88:TYR:CB	2.68	0.70
22:BB:1325:U:C6	41:BU:61:LYS:HE3	2.15	0.70
22:BB:1400:A:C6	22:BB:1414:G:O6	2.43	0.70
22:BB:156:G:O3'	22:BB:157:G:P	2.49	0.70
22:BB:1804:U:O4'	24:BD:46:ARG:HG2	1.91	0.70
22:BB:2040:A:C4'	48:B2:8:LYS:NZ	2.53	0.70
22:BB:227:G:H4'	33:BM:55:ARG:CZ	2.09	0.70
22:BB:2532:G:H5'	22:BB:2561:G:H1'	1.72	0.70
22:BB:3:U:O2	22:BB:2875:C:O2	2.10	0.70
22:BB:800:U:H3'	22:BB:804:C:H41	1.56	0.70
22:BB:1070:G:C1'	30:BJ:115:LEU:CD2	2.69	0.70
34:BN:34:GLY:HA2	34:BN:104:MET:HG3	1.72	0.70
35:BO:78:LYS:HG3	35:BO:82:GLU:HB3	1.73	0.70
36:BP:26:ARG:HD3	36:BP:89:PHE:HB2	1.73	0.70
22:BB:458:G:P	38:BR:3:ARG:CD	2.78	0.70
41:BU:65:VAL:HG21	41:BU:67:ARG:HH21	1.55	0.70
43:BW:67:LYS:HG3	43:BW:128:ARG:NH1	2.06	0.70
2:CB:121:LEU:HG	2:CB:126:GLU:HB3	1.72	0.70
1:CA:1322:C:H5''	13:CM:101:GLN:O	1.90	0.70
20:CT:33:ILE:HA	20:CT:62:LEU:HD22	1.74	0.70
53:D7:179:LEU:HD22	53:D7:183:ALA:HB2	1.73	0.70
23:DA:117:G:H4'	36:DP:52:ALA:C	2.11	0.70
22:DB:1402:G:C4	22:DB:1412:C:N3	2.59	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:DB:1437:A:N6	22:DB:1439:G:H22	1.88	0.70
22:DB:503:G:C2'	40:DT:28:ALA:HA	2.19	0.70
22:DB:811:G:OP2	26:DF:54:THR:O	2.07	0.70
22:DB:502:A:C2'	40:DT:30:TYR:CE2	2.72	0.70
1:EA:1196:U:OP2	1:EA:1397:C:C4	2.43	0.70
1:EA:188:C:C4	20:ET:105:SER:CB	2.73	0.70
1:EA:280:C:H2'	17:EQ:95:TYR:CZ	2.26	0.70
4:ED:24:GLU:HG3	4:ED:27:TYR:HB3	1.71	0.70
8:EH:35:ILE:HG23	8:EH:38:ILE:HD12	1.73	0.70
7:EG:149:ARG:NE	11:EK:59:TYR:OH	2.24	0.70
1:EA:1225:A:H5''	13:EM:102:ARG:CA	2.21	0.70
6:EF:48:LEU:CD2	18:ER:78:LEU:HA	2.22	0.70
22:FB:1572:C:H2'	22:FB:1573:G:H5''	1.73	0.70
22:FB:1671:A:C2	25:FE:113:THR:O	2.43	0.70
22:FB:1855:G:H1	22:FB:3877:A:H61	0.76	0.70
22:FB:2005:U:N3	48:F2:9:LYS:CE	2.53	0.70
22:FB:2209:G:H21	47:F1:58:LYS:CE	2.03	0.70
22:FB:2708:U:C3'	25:FE:21:ILE:HG13	2.21	0.70
22:FB:465:C:H42	50:F4:39:ARG:CD	1.76	0.70
22:FB:468:A:P	41:FU:67:ARG:HG2	2.30	0.70
25:FE:6:GLY:HA2	25:FE:195:LEU:HA	1.71	0.70
26:FF:58:MET:HG2	26:FF:69:HIS:HB3	1.72	0.70
22:FB:2647:G:H1'	28:FH:111:HIS:HB2	1.72	0.70
29:FI:1:MET:CG	47:F1:66:SER:HA	2.20	0.70
32:FL:118:LEU:HD22	32:FL:126:ILE:HD13	1.73	0.70
22:FB:2542:U:H4'	32:FL:40:GLY:O	1.91	0.70
36:FP:77:ALA:HA	36:FP:80:ALA:HB3	1.74	0.70
1:GA:8:A:H1'	5:GE:107:ARG:NH2	2.03	0.70
2:GB:58:ILE:O	2:GB:221:LEU:HB3	1.89	0.70
1:GA:751:U:H4'	15:GO:23:GLY:O	1.87	0.70
19:GS:16:LEU:HA	19:GS:19:VAL:HG12	1.73	0.70
13:GM:84:ILE:HD13	19:GS:66:MET:HA	1.72	0.70
1:GA:323:U:C3'	20:GT:19:SER:HB2	2.21	0.70
20:GT:33:ILE:HA	20:GT:62:LEU:HD22	1.73	0.70
20:GT:33:ILE:HG23	20:GT:62:LEU:HD13	1.73	0.70
22:HB:1454:U:N3	22:HB:1568:A:N6	2.22	0.70
22:HB:1572:C:H2'	22:HB:1573:G:H5''	1.73	0.70
22:HB:1819:U:H5'	22:HB:1954:A:H4'	1.72	0.70
22:HB:1889:G:P	22:HB:1913:G:C8	2.84	0.70
22:HB:191:G:N2	22:HB:193:A:H1'	2.02	0.70
22:HB:2064:U:OP1	47:H1:33:VAL:CB	2.40	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:HB:2254:C:O2'	34:HN:86:LYS:HE3	1.91	0.70
22:HB:2861:A:C8	48:H2:40:LYS:HE3	2.25	0.70
22:HB:61:U:O4	22:HB:91:A:C6	2.42	0.70
22:HB:891:A:C2	22:HB:909:C:N3	2.60	0.70
22:HB:916:U:O2'	43:HW:166:LEU:CD1	2.38	0.70
22:HB:1805:G:C3'	24:HD:44:ASN:O	2.38	0.70
22:HB:2814:G:P	35:HO:8:ARG:HH11	2.13	0.70
22:HB:760:U:C4'	40:HT:111:ARG:O	2.38	0.70
22:HB:512:A:H8	40:HT:16:GLN:CD	1.95	0.70
42:HV:64:ASN:N	42:HV:65:PRO:HD2	2.05	0.70
22:HB:2343:C:O2	44:HX:66:LYS:HE2	1.91	0.70
1:IA:1110:A:H5''	1:IA:1111:A:N7	2.05	0.70
1:IA:1227:A:H5''	13:IM:111:LYS:CE	2.21	0.70
1:IA:1328:C:O5'	13:IM:28:ALA:CB	2.38	0.70
1:IA:1328:C:OP1	13:IM:28:ALA:CB	2.35	0.70
1:IA:200:G:H22	1:IA:217:C:H42	1.39	0.70
1:IA:765:G:OP2	15:IO:50:HIS:HD2	1.74	0.70
1:IA:508:C:H4'	4:ID:54:TYR:CG	2.26	0.70
5:IE:79:GLU:HG3	5:IE:93:PRO:HD2	1.74	0.70
1:IA:588:G:H4'	8:IH:5:PRO:HG2	1.73	0.70
20:IT:33:ILE:HA	20:IT:62:LEU:HD22	1.73	0.70
33:JM:62:LYS:CG	51:J5:30:ARG:HE	1.99	0.70
22:JB:3171:A:H4'	53:J7:105:ARG:CG	2.19	0.70
22:JB:50:G:N1	22:JB:117:A:N3	2.38	0.70
22:JB:1744:G:OP2	37:JQ:123:ARG:CG	2.36	0.70
22:JB:2258:G:H1'	22:JB:2306:A:O2'	1.91	0.70
22:JB:2490:U:HO2'	25:JE:138:PRO:HA	1.52	0.70
22:JB:300:C:H2'	22:JB:301:C:H5'	1.73	0.70
22:JB:90:G:H3'	22:JB:91:A:H5'	1.71	0.70
32:JL:118:LEU:HD22	32:JL:126:ILE:HD13	1.73	0.70
34:JN:8:THR:HA	34:JN:11:ARG:HH22	1.56	0.70
43:JW:17:SER:HA	43:JW:36:ARG:HH12	1.55	0.70
1:AA:264:U:O2	17:AQ:64:PRO:CG	2.37	0.70
1:AA:741:G:O2'	15:AO:52:SER:N	2.23	0.70
1:AA:407:G:O2'	4:AD:116:GLN:HB2	1.91	0.70
9:AI:24:GLY:HA3	9:AI:57:GLY:HA2	1.72	0.70
1:AA:659:U:H5''	15:AO:4:THR:HB	1.74	0.70
1:AA:254:G:O4'	17:AQ:17:LYS:O	2.01	0.70
1:AA:1320:C:N4	19:AS:36:ARG:CG	2.54	0.70
49:B3:11:LYS:HB2	49:B3:11:LYS:HZ3	1.57	0.70
52:B6:22:ARG:HH12	52:B6:35:ARG:HE	1.40	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:BB:1572:C:H2'	22:BB:1573:G:H5''	1.73	0.70
22:BB:1668:G:P	35:BO:11:ASN:CG	2.69	0.70
22:BB:626:A:O3'	26:BF:33:TRP:CH2	2.44	0.70
22:BB:63:A:C6	22:BB:89:A:N6	2.59	0.70
22:BB:760:U:H4'	40:BT:110:ALA:HB3	1.72	0.70
22:BB:1148:G:H5'	31:BK:132:PHE:O	1.92	0.70
33:BM:34:HIS:HB2	33:BM:35:LYS:HD3	1.72	0.70
43:BW:48:THR:HG23	43:BW:65:LEU:HG	1.72	0.70
1:CA:1225:A:N7	13:CM:104:ARG:NH2	2.38	0.70
1:CA:1253:G:O2'	1:CA:1356:G:H4'	1.92	0.70
1:CA:1359:C:OP1	14:CN:22:THR:CB	2.39	0.70
1:CA:234:C:O2	17:CQ:61:GLU:CD	2.30	0.70
1:CA:546:G:P	4:CD:71:SER:CB	2.67	0.70
1:CA:21:G:H21	1:CA:914:A:H62	1.38	0.70
2:CB:61:LEU:HD22	2:CB:64:ARG:HD2	1.73	0.70
4:CD:24:GLU:HG3	4:CD:27:TYR:HB3	1.72	0.70
8:CH:91:ARG:C	17:CQ:34:LYS:CB	2.59	0.70
1:CA:1187:G:C4	14:CN:61:TRP:HA	2.25	0.70
22:DB:1288:A:N1	35:DO:19:ALA:HB1	2.07	0.70
22:DB:501:G:N3	22:DB:1334:A:OP1	2.25	0.70
22:DB:2490:U:H5''	25:DE:122:PHE:CD1	2.17	0.70
22:DB:2598:C:C2'	25:DE:154:LYS:HZ3	2.04	0.70
22:DB:2680:U:H3	22:DB:2683:C:H41	1.40	0.70
24:DD:155:LEU:HD23	24:DD:155:LEU:H	1.54	0.70
33:DM:37:GLN:HE21	33:DM:38:LYS:N	1.88	0.70
22:DB:506:G:OP1	40:DT:22:LYS:CA	2.39	0.70
1:EA:1114:C:H1'	14:EN:60:SER:C	2.10	0.70
1:EA:985:C:O2'	19:ES:55:LYS:CE	2.32	0.70
22:FB:15:G:H1'	48:F2:18:MET:CG	2.16	0.70
22:FB:1666:G:N2	35:FO:106:ASP:CG	2.45	0.70
22:FB:2056:C:O3'	24:FD:228:PRO:C	2.29	0.70
22:FB:2474:G:C4'	34:FN:83:ARG:CD	2.62	0.70
22:FB:720:A:C6	22:FB:738:G:H1'	2.26	0.70
22:FB:2284:U:OP1	27:FG:152:MET:O	2.08	0.70
22:FB:573:C:C2'	38:FR:37:GLN:OE1	2.40	0.70
41:FU:65:VAL:HG21	41:FU:67:ARG:HH21	1.55	0.70
1:GA:1392:G:C5'	1:GA:1531:A:C5'	2.60	0.70
1:GA:541:G:N2	4:GD:43:HIS:NE2	2.39	0.70
10:GJ:50:ILE:HA	10:GJ:60:ARG:HA	1.72	0.70
20:GT:31:SER:HA	20:GT:34:LYS:HD2	1.73	0.70
22:HB:2594:U:C4	48:H2:9:LYS:HE3	2.27	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:HA:89:G:C2'	23:HA:90:C:H5''	2.21	0.70
22:HB:1400:A:H1'	22:HB:1483:G:H21	1.57	0.70
22:HB:2340:C:H5''	51:H5:26:LYS:CE	2.21	0.70
22:HB:60:A:C3'	45:HY:29:ARG:HH22	2.04	0.70
22:HB:682:G:N1	26:HF:49:ALA:HB2	2.06	0.70
22:HB:758:G:O2'	40:HT:111:ARG:HG3	1.90	0.70
22:HB:824:U:O5'	33:HM:33:GLY:N	2.25	0.70
33:HM:34:HIS:HB2	33:HM:35:LYS:HD3	1.72	0.70
22:HB:2701:A:C2'	35:HO:5:LYS:HZ3	2.04	0.70
1:IA:967:C:OP1	9:II:127:LYS:O	2.09	0.70
22:JB:1629:G:C3'	50:J4:3:ARG:HD2	2.20	0.70
22:JB:2399:C:C2	51:J5:32:GLN:CB	2.74	0.70
22:JB:3167:U:C2	53:J7:98:ARG:HA	2.26	0.70
22:JB:1265:G:H5''	38:JR:10:ARG:CD	2.18	0.70
22:JB:2064:U:C5'	47:J1:35:VAL:CG2	2.54	0.70
22:JB:1385:C:C5'	22:JB:2192:U:O4	2.39	0.70
22:JB:923:A:O4'	22:JB:2243:C:H4'	1.91	0.70
22:JB:348:U:O3'	42:JV:13:LYS:CE	2.39	0.70
22:JB:491:A:H5''	42:JV:72:ARG:CG	2.20	0.70
22:JB:565:A:H2'	22:JB:566:U:O4'	1.91	0.70
22:JB:891:A:H5''	22:JB:892:A:H5'	1.72	0.70
40:JT:106:LEU:HA	40:JT:117:ILE:HD11	1.72	0.70
1:AA:1347:G:C8	9:AI:107:ARG:CA	2.74	0.70
1:AA:254:G:N2	17:AQ:16:GLN:CD	2.33	0.70
1:AA:1103:C:H5''	2:AB:98:LEU:HD13	1.73	0.70
1:AA:9:G:H5'	5:AE:104:ALA:CB	2.22	0.70
5:AE:79:GLU:HG3	5:AE:93:PRO:HD2	1.74	0.70
1:AA:826:C:O2'	8:AH:12:ARG:HG2	1.91	0.70
9:AI:28:VAL:HA	9:AI:63:ILE:HB	1.73	0.70
1:AA:994:A:C2	14:AN:5:ALA:HA	2.27	0.70
20:AT:83:ARG:HB3	20:AT:87:LYS:HE3	1.73	0.70
22:BB:16:G:H4'	48:B2:17:ASP:HB3	1.74	0.70
22:BB:1043:A:H4'	52:B6:24:LEU:O	1.91	0.70
53:B7:64:VAL:HG11	53:B7:111:LEU:HB2	1.73	0.70
23:BA:92:G:N1	34:BN:39:GLU:HG3	2.07	0.70
22:BB:1173:G:H1'	39:BS:90:PHE:CE1	2.26	0.70
22:BB:118:U:OP1	50:B4:19:ARG:NH1	2.24	0.70
22:BB:1237:G:C3'	39:BS:87:ARG:H	2.04	0.70
22:BB:501:G:N3	22:BB:1334:A:OP1	2.24	0.70
22:BB:1398:G:N1	22:BB:1416:A:C6	2.58	0.70
22:BB:2661:G:C4	25:BE:11:MET:HA	2.26	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:BB:2832:G:H1'	22:BB:2834:A:N7	2.06	0.70
22:BB:300:C:H2'	22:BB:301:C:H5'	1.73	0.70
22:BB:568:G:C5	22:BB:569:C:O2	2.45	0.70
22:BB:915:C:O2	43:BW:165:GLU:HB3	1.91	0.70
34:BN:38:MET:CB	43:BW:74:ARG:HD2	2.19	0.70
22:BB:999:A:P	46:BZ:10:ILE:CD1	2.79	0.70
3:CC:12:LEU:HA	3:CC:16:ARG:HB3	1.72	0.70
1:CA:436:C:C5'	4:CD:156:GLU:H	2.05	0.70
1:CA:980:C:O4'	14:CN:19:ARG:NH2	2.24	0.70
10:CJ:65:LEU:CD1	14:CN:56:VAL:HG22	2.21	0.70
19:CS:49:ILE:HB	19:CS:60:VAL:HB	1.74	0.70
51:D5:26:LYS:HB2	51:D5:47:GLY:HA3	1.73	0.70
52:D6:22:ARG:HH12	52:D6:35:ARG:HE	1.39	0.70
23:DA:89:G:C2'	23:DA:90:C:H5''	2.21	0.70
22:DB:2680:U:H2'	22:DB:2682:C:H41	1.56	0.70
22:DB:348:U:H4'	42:DV:13:LYS:HD3	1.74	0.70
22:DB:625:A:C5	26:DF:176:ASN:OD1	2.44	0.70
22:DB:674:U:O2	33:DM:23:PRO:CA	2.38	0.70
22:DB:1807:A:H4'	24:DD:63:ARG:HH11	1.55	0.70
28:DH:148:VAL:HB	28:DH:152:ARG:HE	1.55	0.70
25:DE:151:TYR:N	31:DK:106:TYR:CE1	2.59	0.70
32:DL:86:GLY:N	37:DQ:84:ALA:CB	2.50	0.70
35:DO:21:ALA:HB1	35:DO:25:ALA:HB3	1.72	0.70
35:DO:72:ASP:HB3	35:DO:75:VAL:HG23	1.73	0.70
1:EA:780:A:H4'	1:EA:1523:G:H5'	1.73	0.70
1:EA:315:A:H4'	1:EA:316:G:H5''	1.73	0.70
1:EA:687:A:H61	1:EA:701:C:H5'	1.57	0.70
1:EA:537:G:O5'	12:EL:113:ARG:NH1	2.24	0.70
1:EA:537:G:OP1	12:EL:113:ARG:NH1	2.24	0.70
1:EA:538:G:C4'	12:EL:114:LYS:CE	2.32	0.70
1:EA:300:A:OP1	17:EQ:31:LEU:HD21	1.91	0.70
17:EQ:56:VAL:HB	17:EQ:78:GLU:HG3	1.74	0.70
20:ET:31:SER:HA	20:ET:34:LYS:HD2	1.74	0.70
53:F7:32:ILE:HG23	53:F7:167:VAL:H	1.56	0.70
23:FA:117:G:C4'	36:FP:52:ALA:CA	2.69	0.70
22:FB:1030:U:OP2	22:FB:1046:U:H4'	1.90	0.70
22:FB:1172:U:C1'	39:FS:8:GLY:HA2	2.22	0.70
22:FB:1261:G:H5'	26:FF:86:PRO:HD3	1.72	0.70
22:FB:2532:G:H5'	22:FB:2561:G:H1'	1.72	0.70
22:FB:1948:C:N4	22:FB:2571:G:O2'	2.24	0.70
22:FB:2680:U:H3	22:FB:2683:C:H41	1.40	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:FB:2745:A:N7	22:FB:2746:G:C8	2.60	0.70
22:FB:300:C:H2'	22:FB:301:C:H5'	1.73	0.70
29:FI:42:ASN:HA	29:FI:46:LEU:HB2	1.74	0.70
44:FX:59:LEU:HD23	44:FX:81:ILE:HA	1.73	0.70
1:GA:1178:G:N2	1:GA:1180:A:H3'	2.07	0.70
1:GA:696:A:H1'	1:GA:786:G:H1'	1.73	0.70
1:GA:958:A:H61	19:GS:77:THR:CG2	2.04	0.70
33:HM:63:ARG:CD	51:H5:8:LYS:CD	2.64	0.70
22:HB:1043:A:OP1	52:H6:9:LYS:N	2.23	0.70
22:HB:115:G:O6	22:HB:117:A:N6	2.25	0.70
22:HB:1290:A:H5'	35:HO:12:ARG:NH2	2.05	0.70
22:HB:2426:G:H1	22:HB:2430:A:H62	1.39	0.70
22:HB:2832:G:H1'	22:HB:2834:A:N7	2.06	0.70
22:HB:300:C:H2'	22:HB:301:C:H5'	1.74	0.70
22:HB:44:G:H1'	22:HB:448:C:N4	2.05	0.70
22:HB:506:G:H1'	40:HT:82:ASN:CA	2.15	0.70
22:HB:66:U:C5	22:HB:87:G:C2	2.79	0.70
24:HD:155:LEU:HD23	24:HD:155:LEU:H	1.55	0.70
24:HD:213:ARG:HE	24:HD:219:PRO:HA	1.54	0.70
22:HB:1167:A:N3	38:HR:48:ARG:HD2	2.05	0.70
1:IA:1178:G:N2	1:IA:1180:A:H3'	2.07	0.70
1:IA:696:A:H1'	1:IA:786:G:H1'	1.73	0.70
1:IA:768:A:H2	1:IA:1512:U:C2'	2.03	0.70
1:IA:877:C:C5'	8:IH:88:LYS:NZ	2.54	0.70
1:IA:919:A:H5''	1:IA:920:U:OP2	1.92	0.70
1:IA:1187:G:N9	9:II:113:LYS:HE2	1.87	0.70
9:II:28:VAL:HG22	9:II:63:ILE:HG21	1.73	0.70
11:IK:84:VAL:HB	11:IK:110:ASP:HA	1.74	0.70
22:JB:1572:C:H2'	22:JB:1573:G:H5''	1.73	0.70
22:JB:1781:C:C3'	24:JD:213:ARG:HH22	2.05	0.70
22:JB:1819:U:H5'	22:JB:1954:A:H4'	1.73	0.70
22:JB:1998:A:C2'	48:J2:3:LYS:CA	2.66	0.70
22:JB:2426:G:H1	22:JB:2430:A:H62	1.39	0.70
22:JB:3122:U:C1'	53:J7:158:LYS:NZ	2.53	0.70
22:JB:44:G:H1'	22:JB:448:C:N4	2.05	0.70
22:JB:505:G:O2'	40:JT:82:ASN:CG	2.30	0.70
22:JB:687:G:H5'	26:JF:70:GLY:CA	2.20	0.70
22:JB:922:A:H1'	22:JB:2244:C:C5'	2.17	0.70
42:JV:58:VAL:HG23	42:JV:60:PRO:HD3	1.72	0.70
1:AA:15:G:O6	5:AE:19:MET:HB2	1.91	0.70
13:AM:19:LEU:HD11	13:AM:34:LEU:HD11	1.74	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:BB:1045:G:OP1	52:B6:16:VAL:HG21	1.92	0.70
1:AA:270:A:H5''	22:BB:1738:U:O4'	1.91	0.70
22:BB:24:G:H1'	40:BT:98:ASP:OD1	1.90	0.70
22:BB:68:C:O2	22:BB:72:A:N3	2.24	0.70
25:BE:176:ARG:NE	37:BQ:16:ILE:HA	2.06	0.70
1:CA:1273:G:H5'	1:GA:1265:G:H5''	1.73	0.70
1:CA:1344:C:H4'	9:CI:120:ARG:CD	2.19	0.70
1:CA:273:A:C8	17:CQ:16:GLN:OE1	2.45	0.70
1:CA:407:G:C1'	4:CD:116:GLN:HE21	1.78	0.70
1:CA:687:A:H61	1:CA:701:C:H5'	1.57	0.70
1:CA:718:G:O4'	11:CK:116:HIS:O	2.09	0.70
1:CA:1230:C:N3	13:CM:125:ARG:HD3	2.04	0.70
1:CA:1231:G:C8	13:CM:126:LYS:CD	2.69	0.70
13:CM:19:LEU:HD11	13:CM:34:LEU:HD11	1.73	0.70
1:CA:227:G:H21	16:CP:62:VAL:HA	1.54	0.70
22:DB:465:C:H42	50:D4:39:ARG:NH1	1.88	0.70
51:D5:23:MET:HB3	51:D5:46:LYS:HB2	1.72	0.70
53:D7:32:ILE:HG23	53:D7:167:VAL:H	1.56	0.70
22:DB:1572:C:H2'	22:DB:1573:G:H5''	1.73	0.70
22:DB:1670:G:C6	35:DO:11:ASN:CA	2.68	0.70
22:DB:219:G:H5''	51:D5:62:LEU:HD12	1.68	0.70
22:DB:2218:G:OP1	24:DD:232:PRO:CG	2.39	0.70
22:DB:300:C:H2'	22:DB:301:C:H5'	1.74	0.70
22:DB:800:U:H3'	22:DB:804:C:H41	1.56	0.70
24:DD:144:ALA:HB3	24:DD:192:THR:H	1.55	0.70
22:DB:2218:G:O3'	24:DD:230:ASP:HA	1.91	0.70
22:DB:2653:A:H2'	32:DL:41:ASN:HD21	1.55	0.70
32:DL:98:ILE:HG23	32:DL:106:ARG:HB3	1.74	0.70
25:DE:195:LEU:HD21	37:DQ:2:GLN:CG	2.21	0.70
1:EA:565:U:H3'	1:EA:566:G:H2'	1.73	0.70
1:EA:588:G:N9	8:EH:2:LEU:CD1	2.54	0.70
1:EA:641:U:C6	8:EH:116:LYS:CB	2.74	0.70
1:EA:928:G:C5'	1:EA:1533:C:H41	2.04	0.70
2:EB:61:LEU:HD22	2:EB:64:ARG:HD2	1.73	0.70
1:EA:621:A:C5'	4:ED:139:ARG:NH2	2.46	0.70
5:EE:127:ASN:HB3	5:EE:131:ILE:HG12	1.71	0.70
22:FB:409:G:C5'	47:F1:39:VAL:CB	2.69	0.70
40:FT:40:LEU:CD1	48:F2:20:ARG:CG	2.68	0.70
53:F7:185:ALA:HA	53:F7:189:ALA:HB2	1.73	0.70
22:FB:2680:U:H2'	22:FB:2682:C:H41	1.56	0.70
22:FB:718:A:H61	22:FB:739:G:C1'	2.02	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:FB:800:U:H3'	22:FB:804:C:H41	1.56	0.70
37:FQ:40:ARG:CZ	37:FQ:40:ARG:HA	2.22	0.70
38:FR:47:TYR:HB2	39:FS:75:LYS:N	2.05	0.70
22:FB:491:A:C4'	42:FV:55:THR:OG1	2.40	0.70
43:FW:48:THR:HG23	43:FW:65:LEU:HG	1.72	0.70
22:FB:2235:G:O3'	44:FX:9:SER:O	2.09	0.70
1:CA:1266:G:P	1:GA:1273:G:C5'	2.79	0.70
1:GA:132:C:H5''	20:GT:74:LYS:HE2	1.73	0.70
1:GA:571:U:H3'	1:GA:572:A:H5'	1.74	0.70
2:GB:61:LEU:HD22	2:GB:64:ARG:HD2	1.74	0.70
1:GA:663:A:C4'	18:GR:64:ARG:NH1	2.49	0.70
1:GA:323:U:C4'	20:GT:19:SER:HB2	2.21	0.70
22:HB:1376:C:N3	47:H1:3:LYS:HB2	2.06	0.70
22:HB:2398:U:C4'	49:H3:21:TYR:CZ	2.74	0.70
22:HB:1040:A:N9	22:HB:2465:G:O4'	2.24	0.70
22:HB:1555:A:N3	22:HB:1555:A:H2'	2.05	0.70
22:HB:1710:U:O4	22:HB:1960:A:O4'	2.10	0.70
22:HB:60:A:OP1	45:HY:44:ARG:CZ	2.38	0.70
22:HB:797:A:N6	22:HB:2056:C:H5'	2.05	0.70
22:HB:85:C:H1'	22:HB:95:G:H22	1.55	0.70
22:HB:1805:G:C3'	24:HD:52:ARG:NH1	2.55	0.70
22:HB:2541:U:C2'	32:HL:23:ARG:HH11	2.04	0.70
33:HM:7:LYS:N	33:HM:8:PRO:HD3	2.07	0.70
22:HB:2847:G:HO2'	35:HO:8:ARG:HG2	1.50	0.70
36:HP:27:LEU:HB2	36:HP:88:VAL:HG13	1.74	0.70
36:HP:26:ARG:HD3	36:HP:89:PHE:HB2	1.73	0.70
41:HU:92:ALA:O	45:HY:27:GLU:CG	2.40	0.70
1:IA:1253:G:O2'	1:IA:1356:G:H4'	1.92	0.70
1:IA:571:U:H3'	1:IA:572:A:H5'	1.74	0.70
3:IC:23:TYR:HE2	10:IJ:94:VAL:N	1.89	0.70
6:IF:43:LEU:HD21	18:IR:35:ARG:HA	1.73	0.70
19:IS:22:LEU:HD21	19:IS:31:ILE:HD11	1.72	0.70
22:JB:1363:C:O2	22:JB:1588:A:C4	2.44	0.70
22:JB:1995:G:H5''	40:JT:117:ILE:HB	1.72	0.70
22:JB:2207:G:N3	47:J1:42:PHE:CZ	2.59	0.70
22:JB:494:A:O2'	42:JV:59:LYS:HE3	1.74	0.70
22:JB:542:A:OP1	38:JR:28:ARG:CD	2.40	0.70
22:JB:71:A:OP2	41:JU:5:ASP:OD1	2.07	0.70
22:JB:85:C:H1'	22:JB:95:G:H22	1.56	0.70
22:JB:969:U:C5	34:JN:21:ASP:CA	2.75	0.70
22:JB:1807:A:O3'	24:JD:63:ARG:CD	2.39	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:JM:37:GLN:HE21	33:JM:38:LYS:N	1.88	0.70
22:JB:1468:A:N6	35:JO:80:MET:CB	2.54	0.70
23:JA:115:G:N2	36:JP:49:GLN:HE21	1.89	0.70
36:JP:27:LEU:HB2	36:JP:88:VAL:HG13	1.74	0.70
22:JB:2001:G:C1'	38:JR:33:ARG:CD	2.57	0.70
40:JT:55:ASP:O	48:J2:28:PRO:HG2	1.92	0.70
22:JB:1405:A:N7	41:JU:15:LYS:CD	2.54	0.70
22:JB:941:U:OP1	46:JZ:23:LEU:HA	1.91	0.70
1:AA:332:G:H5''	20:AT:13:LEU:HD12	1.72	0.70
1:AA:1060:C:O3'	10:AJ:59:SER:CA	2.38	0.70
1:AA:740:U:O2	15:AO:42:HIS:HE1	1.58	0.70
22:BB:1042:G:N2	52:B6:22:ARG:O	2.24	0.70
22:BB:1631:C:O2	40:BT:107:ILE:HA	1.92	0.70
22:BB:967:G:H5'	34:BN:78:LYS:CE	2.20	0.70
22:BB:686:C:O4'	26:BF:74:VAL:HG11	1.88	0.70
27:BG:117:ILE:H	27:BG:178:ARG:N	1.88	0.70
36:BP:77:ALA:HA	36:BP:80:ALA:HB3	1.73	0.70
22:BB:917:U:HO2'	43:BW:166:LEU:HD21	1.56	0.70
1:CA:227:G:H2'	1:CA:228:A:H8	1.57	0.70
1:CA:315:A:H4'	1:CA:316:G:H5''	1.73	0.70
1:CA:559:A:H2	5:CE:125:SER:CA	2.04	0.70
1:CA:36:C:H5''	12:CL:122:THR:O	1.91	0.70
19:CS:22:LEU:HD21	19:CS:31:ILE:HD11	1.73	0.70
1:CA:1313:U:OP2	19:CS:6:LYS:HG2	1.92	0.70
22:DB:2372:A:H4'	33:DM:60:LEU:N	2.06	0.70
22:DB:613:A:N6	33:DM:97:ARG:CB	2.52	0.70
22:DB:1675:C:C6	25:DE:134:TRP:CZ2	2.80	0.70
31:DK:122:HIS:H	31:DK:123:PRO:HD2	1.57	0.70
22:DB:2654:A:C4'	32:DL:43:ARG:NH2	2.54	0.70
36:DP:27:LEU:HB2	36:DP:88:VAL:HG13	1.74	0.70
37:DQ:40:ARG:HA	37:DQ:40:ARG:CZ	2.22	0.70
34:DN:68:ARG:HH21	43:DW:119:ASN:HB2	1.56	0.70
1:EA:227:G:H2'	1:EA:228:A:H8	1.57	0.70
1:EA:599:C:H4'	8:EH:100:ILE:CG1	2.22	0.70
3:EC:12:LEU:HA	3:EC:16:ARG:HB3	1.72	0.70
1:EA:15:G:H21	5:EE:17:ALA:HB3	1.56	0.70
5:EE:79:GLU:HG3	5:EE:93:PRO:HD2	1.74	0.70
1:EA:598:U:C2	8:EH:115:SER:HB3	2.26	0.70
19:ES:16:LEU:HA	19:ES:19:VAL:HG12	1.73	0.70
20:ET:83:ARG:HB3	20:ET:87:LYS:HE3	1.73	0.70
22:FB:2326:C:C4'	49:F3:40:TYR:HH	1.88	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
52:F6:22:ARG:HH12	52:F6:35:ARG:HE	1.40	0.70
23:FA:119:G:C5'	36:FP:55:SER:HG	2.04	0.70
22:FB:1288:A:N1	35:FO:15:SER:O	2.25	0.70
22:FB:1600:U:O3'	22:FB:1601:U:H4'	1.92	0.70
32:FL:15:GLY:HA3	32:FL:60:PRO:HD3	1.71	0.70
33:FM:7:LYS:N	33:FM:8:PRO:HD3	2.07	0.70
22:FB:2446:C:C1'	34:FN:117:GLU:OE2	2.28	0.70
22:FB:1630:A:C6	40:FT:108:PRO:C	2.58	0.70
1:GA:200:G:H22	1:GA:217:C:H42	1.39	0.70
1:GA:227:G:H2'	1:GA:228:A:H8	1.57	0.70
1:GA:529:G:O6	12:GL:48:PRO:HB2	1.92	0.70
1:GA:565:U:H3'	1:GA:566:G:H2'	1.74	0.70
3:GC:23:TYR:CE2	10:GJ:9:ARG:HG3	2.27	0.70
3:GC:37:GLN:HA	3:GC:40:ARG:HD2	1.72	0.70
4:GD:128:VAL:HG13	4:GD:145:GLU:H	1.57	0.70
1:GA:1346:A:H5'	9:GI:120:ARG:NH1	2.05	0.70
1:GA:1131:G:H4'	9:GI:2:GLU:HB2	1.73	0.70
10:GJ:65:LEU:CA	14:GN:56:VAL:CG1	2.56	0.70
11:GK:107:SER:HB2	11:GK:109:VAL:HG23	1.73	0.70
13:GM:87:TYR:CB	19:GS:73:GLU:CA	2.66	0.70
20:GT:83:ARG:HB3	20:GT:87:LYS:HE3	1.73	0.70
22:HB:1276:U:O4'	48:H2:10:LYS:HE2	1.92	0.70
22:HB:2861:A:C2	48:H2:40:LYS:HG2	2.25	0.70
53:H7:158:LYS:HD3	53:H7:158:LYS:H	1.56	0.70
22:HB:1075:C:P	30:HJ:84:ILE:CD1	2.79	0.70
22:HB:1148:G:H5'	31:HK:133:GLY:CA	2.20	0.70
22:HB:1374:G:C2'	47:H1:53:GLU:HG3	2.06	0.70
22:HB:1804:U:HO2'	24:HD:46:ARG:CB	1.83	0.70
22:HB:1896:A:H2'	22:HB:1898:U:H5	1.56	0.70
1:GA:1517:G:C8	22:HB:1903:C:O5'	2.43	0.70
22:HB:1996:A:C1'	40:HT:116:ILE:O	2.39	0.70
22:HB:2365:U:OP1	44:HX:39:ARG:NH1	2.25	0.70
22:HB:2637:C:H5	28:HH:181:GLY:HA2	1.56	0.70
22:HB:1:G:H22	22:HB:2877:A:N6	1.84	0.70
22:HB:758:G:O2'	40:HT:111:ARG:HG2	1.88	0.70
35:HO:5:LYS:HZ2	35:HO:6:ALA:HB2	1.57	0.70
38:HR:3:ARG:NE	38:HR:4:ALA:H	1.89	0.70
22:HB:1992:G:H5''	40:HT:37:LYS:HE2	1.74	0.70
41:HU:65:VAL:HG21	41:HU:67:ARG:HH21	1.55	0.70
1:IA:1118:C:H5''	9:II:9:ARG:NE	2.06	0.70
1:IA:565:U:H3'	1:IA:566:G:H2'	1.74	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:IA:673:G:C4'	6:IF:87:ARG:NE	2.53	0.70
1:IA:589:C:C5'	8:IH:31:PHE:HB2	2.14	0.70
1:IA:260:G:O6	20:IT:83:ARG:CZ	2.40	0.70
22:JB:1289:A:OP1	22:JB:1662:G:H2'	1.91	0.70
22:JB:797:A:N6	22:JB:2056:C:H5'	2.05	0.70
22:JB:2832:G:H1'	22:JB:2834:A:N7	2.06	0.70
22:JB:910:U:C4	22:JB:911:A:C5'	2.50	0.70
24:JD:157:ARG:HD2	24:JD:202:LYS:HZ1	1.56	0.70
22:JB:94:C:H5'	45:JY:40:PRO:HD2	1.73	0.70
1:AA:227:G:H2'	1:AA:228:A:H8	1.57	0.70
1:AA:426:G:H4'	4:AD:42:GLN:CB	2.20	0.70
10:AJ:64:GLU:C	14:AN:56:VAL:CG1	2.59	0.70
1:AA:1014:A:OP2	19:AS:18:LYS:HD2	1.91	0.70
53:B7:104:ALA:HB1	53:B7:128:LEU:HD11	1.74	0.70
22:BB:1583:A:C8	24:BD:84:TYR:CD1	2.79	0.70
22:BB:1885:C:C1'	24:BD:242:ALA:HA	2.17	0.70
22:BB:2343:C:H1'	44:BX:66:LYS:NZ	2.06	0.70
22:BB:543:G:O4'	38:BR:41:ASN:OD1	2.09	0.70
22:BB:1006:C:O2	38:BR:57:PHE:CD2	2.45	0.70
22:BB:887:G:H8	43:BW:167:THR:HG22	1.42	0.70
1:CA:587:G:H4'	8:CH:3:THR:O	1.78	0.70
1:CA:741:G:C4'	15:CO:55:GLY:CA	2.51	0.70
1:CA:969:A:H4'	10:CJ:55:LYS:CE	2.22	0.70
22:DB:2398:U:H3'	51:D5:31:HIS:O	1.91	0.70
22:DB:1044:U:C6	52:D6:16:VAL:HG11	2.27	0.70
22:DB:426:C:O2'	22:DB:1862:C:O2	2.10	0.70
22:DB:2532:G:H5'	22:DB:2561:G:H1'	1.73	0.70
22:DB:565:A:H2'	22:DB:566:U:O4'	1.91	0.70
25:DE:6:GLY:HA2	25:DE:195:LEU:HA	1.71	0.70
22:DB:2611:A:C2	25:DE:61:LYS:HE3	2.27	0.70
26:DF:58:MET:HG2	26:DF:69:HIS:HB3	1.73	0.70
22:DB:2494:C:H5'	31:DK:108:GLY:HA3	1.67	0.70
22:DB:538:A:C3'	31:DK:139:ARG:CZ	2.62	0.70
22:DB:2544:A:P	32:DL:36:THR:HG22	2.24	0.70
22:DB:886:A:H5'	34:DN:66:TYR:HE2	0.63	0.70
35:DO:78:LYS:HG3	35:DO:82:GLU:HB3	1.73	0.70
1:EA:678:U:H2'	1:EA:679:C:O4'	1.91	0.70
2:EB:48:MET:SD	2:EB:51:LEU:HD12	2.32	0.70
1:EA:278:G:N2	17:EQ:96:GLN:HE21	0.62	0.70
19:ES:49:ILE:HB	19:ES:60:VAL:HB	1.74	0.70
20:ET:33:ILE:HA	20:ET:62:LEU:HD22	1.73	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:FB:1628:C:C2	50:F4:3:ARG:HB2	2.26	0.70
22:FB:2240:C:H5'	22:FB:2367:A:P	2.31	0.70
22:FB:2716:G:N2	22:FB:2749:A:H1'	2.07	0.70
22:FB:2725:C:HO2'	28:FH:138:LYS:C	1.89	0.70
22:FB:521:U:H4'	22:FB:1248:G:H4'	1.74	0.70
22:FB:938:G:N2	46:FZ:39:ALA:CB	2.49	0.70
22:FB:1142:G:C1'	31:FK:111:LYS:CE	2.58	0.70
22:FB:566:U:H1'	31:FK:74:MET:CB	2.21	0.70
34:FN:32:ASP:OD1	43:FW:117:VAL:CG2	2.40	0.70
35:FO:21:ALA:HB1	35:FO:25:ALA:HB3	1.72	0.70
1:GA:1253:G:O2'	1:GA:1356:G:H4'	1.92	0.70
1:GA:236:G:H1'	17:GQ:25:ARG:HD2	1.72	0.70
1:GA:51:A:H1'	1:GA:353:A:N6	2.06	0.70
3:GC:29:TYR:HA	3:GC:33:LEU:HB2	1.72	0.70
10:GJ:11:PHE:HD1	14:GN:54:PRO:CB	1.97	0.70
11:GK:13:GLN:HE22	11:GK:75:TYR:HB3	1.55	0.70
12:GL:11:VAL:HG23	17:GQ:32:TYR:HB3	1.73	0.70
1:GA:946:A:C3'	13:GM:114:ARG:HE	1.91	0.70
1:GA:1319:A:H5'	19:GS:70:LYS:NZ	2.06	0.70
53:H7:32:ILE:HG23	53:H7:167:VAL:H	1.56	0.70
22:HB:108:G:C2	45:HY:59:GLU:OE2	2.44	0.70
22:HB:1885:C:O2'	24:HD:242:ALA:CA	2.39	0.70
1:GA:1483:A:C2	22:HB:1942:G:H2'	2.26	0.70
22:HB:2062:U:O3'	47:H1:32:HIS:ND1	2.25	0.70
22:HB:922:A:C2	22:HB:2243:C:H2'	2.27	0.70
22:HB:2462:C:O2'	34:HN:50:ALA:CB	2.39	0.70
22:HB:2528:G:C6	22:HB:2539:C:N4	2.59	0.70
22:HB:2791:C:C5'	48:H2:42:SER:O	2.40	0.70
22:HB:565:A:H2'	22:HB:566:U:O4'	1.91	0.70
22:HB:63:A:H5'	41:HU:72:ARG:O	1.92	0.70
25:HE:111:LYS:HB2	25:HE:114:GLN:HE22	1.55	0.70
28:HH:148:VAL:HB	28:HH:152:ARG:HE	1.55	0.70
32:HL:98:ILE:HG23	32:HL:106:ARG:HB3	1.74	0.70
22:HB:2652:G:N2	32:HL:41:ASN:CG	2.45	0.70
1:IA:1097:C:H4'	2:IB:140:HIS:CE1	2.27	0.70
8:IH:35:ILE:HG23	8:IH:38:ILE:HD12	1.73	0.70
17:IQ:56:VAL:HB	17:IQ:78:GLU:HG3	1.74	0.70
20:IT:83:ARG:HB3	20:IT:87:LYS:HE3	1.73	0.70
53:J7:104:ALA:HB1	53:J7:128:LEU:HD11	1.74	0.70
22:JB:1268:U:H2'	26:JF:66:ASN:CB	2.19	0.70
22:JB:2344:G:C4'	44:JX:66:LYS:HD2	2.21	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:JB:2578:G:P	24:JD:228:PRO:CB	2.79	0.70
22:JB:530:G:C1'	40:JT:94:GLU:OE2	2.33	0.70
22:JB:953:G:H5''	33:JM:38:LYS:CA	2.21	0.70
22:JB:1808:C:H5'	24:JD:63:ARG:HB2	1.72	0.70
25:JE:111:LYS:HB2	25:JE:114:GLN:HE22	1.55	0.70
1:IA:1462:G:C3'	37:JQ:121:ARG:NH2	2.54	0.70
23:JA:14:C:H3'	44:JX:53:MET:HE2	1.73	0.70
44:JX:59:LEU:HD23	44:JX:81:ILE:HA	1.73	0.70
1:AA:1349:A:H61	1:AA:1373:G:H1'	1.57	0.70
1:AA:315:A:H4'	1:AA:316:G:H5''	1.73	0.70
1:AA:678:U:H2'	1:AA:679:C:O4'	1.92	0.70
3:AC:69:HIS:HB3	3:AC:106:VAL:HG22	1.73	0.70
4:AD:128:VAL:HG13	4:AD:145:GLU:H	1.57	0.70
7:AG:49:ILE:HG21	7:AG:121:ALA:HA	1.74	0.70
15:AO:11:VAL:HG12	15:AO:27:VAL:HG22	1.74	0.70
23:BA:89:G:H2'	23:BA:90:C:H5''	1.72	0.70
22:BB:1437:A:N7	22:BB:1439:G:C6	2.59	0.70
22:BB:565:A:H2'	22:BB:566:U:O4'	1.91	0.70
22:BB:829:C:O4'	22:BB:1177:U:H5'	1.90	0.70
22:BB:886:A:HO2'	43:BW:167:THR:CB	2.02	0.70
22:BB:8:A:P	31:BK:79:PHE:CE1	2.85	0.70
24:BD:144:ALA:HB3	24:BD:192:THR:H	1.55	0.70
27:BG:40:LEU:HD22	27:BG:152:MET:HE1	1.74	0.70
41:BU:8:GLN:CA	45:BY:26:MET:SD	2.78	0.70
1:CA:565:U:H3'	1:CA:566:G:H2'	1.74	0.70
3:CC:69:HIS:HB3	3:CC:106:VAL:HG22	1.74	0.70
1:CA:1343:G:H4'	9:CI:122:ALA:N	2.07	0.70
1:CA:1189:C:OP2	10:CJ:51:ARG:NH2	2.24	0.70
1:CA:1310:G:N7	13:CM:99:ARG:NH2	2.38	0.70
22:DB:2474:G:H4'	34:DN:83:ARG:HG2	1.70	0.70
22:DB:2543:A:OP2	32:DL:38:GLY:CA	2.40	0.70
22:DB:2662:C:C4	22:DB:2707:G:O2'	2.43	0.70
22:DB:460:U:C2'	26:DF:78:VAL:HG22	2.21	0.70
22:DB:504:G:N2	40:DT:74:SER:OG	2.24	0.70
22:DB:512:A:C4'	40:DT:15:LYS:HG2	2.20	0.70
22:DB:512:A:C5'	40:DT:15:LYS:HG2	2.17	0.70
22:DB:2615:U:C2'	25:DE:79:ARG:NE	2.47	0.70
27:DG:74:ILE:HG22	27:DG:76:ASN:H	1.56	0.70
29:DI:42:ASN:HA	29:DI:46:LEU:HB2	1.74	0.70
22:DB:968:C:OP1	34:DN:77:LYS:HB2	1.92	0.70
23:DA:117:G:C1'	36:DP:41:GLN:OE1	2.40	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:DB:503:G:OP1	40:DT:30:TYR:OH	2.09	0.70
1:EA:194:C:C2'	20:ET:68:LYS:HD3	2.22	0.70
1:EA:487:A:N3	4:ED:131:ARG:NH2	2.40	0.70
7:EG:49:ILE:HG21	7:EG:121:ALA:HA	1.74	0.70
11:EK:84:VAL:HB	11:EK:110:ASP:HA	1.74	0.70
1:EA:1313:U:P	19:ES:6:LYS:CG	2.76	0.70
20:ET:33:ILE:HG23	20:ET:62:LEU:HD13	1.73	0.70
23:FA:77:G:H22	23:FA:105:G:H22	1.38	0.70
22:FB:1148:G:O2'	31:FK:55:ALA:O	2.10	0.70
22:FB:1167:A:C2	38:FR:52:ASN:ND2	2.59	0.70
22:FB:1750:A:H4'	22:FB:2695:C:C4'	2.21	0.70
22:FB:2714:A:H1'	25:FE:205:SER:CB	2.20	0.70
22:FB:845:U:P	33:FM:41:SER:OG	2.49	0.70
22:FB:2600:A:C4'	25:FE:158:GLY:C	2.60	0.70
27:FG:117:ILE:H	27:FG:178:ARG:N	1.88	0.70
27:FG:179:LYS:HD2	1:IA:1021:G:O2'	1.92	0.70
22:FB:2646:C:O2'	28:FH:109:TYR:CE1	2.43	0.70
25:FE:20:ALA:HA	32:FL:84:ALA:O	1.92	0.70
22:FB:1290:A:N9	35:FO:24:GLN:HA	2.07	0.70
38:FR:47:TYR:HD1	39:FS:74:TYR:HB2	1.39	0.70
23:FA:77:G:N2	43:FW:22:VAL:HG21	2.07	0.70
22:FB:60:A:C4'	45:FY:31:GLN:CD	2.58	0.70
22:FB:999:A:H3'	46:FZ:9:VAL:HG21	1.73	0.70
1:GA:519:C:H3'	1:GA:520:A:H8	1.56	0.70
1:GA:678:U:H2'	1:GA:679:C:O4'	1.92	0.70
1:GA:1107:C:OP1	3:GC:174:PRO:N	2.24	0.70
1:GA:658:G:C4'	15:GO:8:LYS:HZ2	2.05	0.70
16:GP:71:ARG:HE	16:GP:74:LEU:HB2	1.55	0.70
22:HB:2064:U:P	47:H1:33:VAL:HG21	2.24	0.70
22:HB:2329:C:C5'	51:H5:42:ARG:HD3	2.20	0.70
22:HB:1861:G:C4	53:H7:199:ASN:CG	2.65	0.70
22:HB:1040:A:C1'	22:HB:2465:G:C4'	2.70	0.70
22:HB:603:C:O2'	22:HB:604:U:O4'	2.05	0.70
31:HK:122:HIS:H	31:HK:123:PRO:HD2	1.57	0.70
32:HL:118:LEU:HD22	32:HL:126:ILE:HD13	1.74	0.70
22:HB:637:G:N3	33:HM:74:VAL:HG13	2.07	0.70
1:IA:519:C:H3'	1:IA:520:A:H8	1.56	0.70
8:IH:124:ALA:HB1	8:IH:129:VAL:HG21	1.73	0.70
15:IO:11:VAL:HG12	15:IO:27:VAL:HG22	1.74	0.70
22:JB:2262:C:H5'	49:J3:9:ILE:CD1	2.22	0.70
22:JB:1167:A:H2'	22:JB:1168:G:OP1	1.91	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:JB:1555:A:N3	22:JB:1555:A:H2'	2.05	0.70
22:JB:1807:A:H4'	24:JD:63:ARG:CZ	2.22	0.70
22:JB:3122:U:H1'	53:J7:158:LYS:CG	2.18	0.70
22:JB:718:A:H61	22:JB:739:G:H1'	1.54	0.70
22:JB:790:A:HO2'	24:JD:49:ILE:HD12	1.54	0.70
22:JB:2558:C:C5'	25:JE:132:LYS:CB	2.69	0.70
22:JB:2293:G:H4'	27:JG:33:LYS:CE	2.22	0.70
22:JB:2374:C:OP1	33:JM:65:PHE:HE2	1.75	0.70
34:JN:98:VAL:HG13	34:JN:99:LYS:N	2.05	0.70
38:JR:47:TYR:HE1	39:JS:74:TYR:HB3	1.55	0.70
22:JB:492:G:OP2	42:JV:55:THR:C	2.30	0.70
43:JW:154:LEU:HD22	43:JW:155:PRO:HD2	1.74	0.70
43:JW:65:LEU:HB2	43:JW:93:GLU:HB3	1.74	0.70
1:AA:1227:A:H2'	13:AM:117:VAL:CG1	2.22	0.70
1:AA:190:A:H1'	1:GA:182:U:O3'	1.91	0.70
1:AA:565:U:H3'	1:AA:566:G:H2'	1.74	0.70
1:AA:949:A:OP1	13:AM:102:ARG:NE	2.25	0.70
2:AB:48:MET:SD	2:AB:51:LEU:HD12	2.32	0.70
1:AA:1059:C:H5'	14:AN:45:ARG:HH22	1.43	0.70
1:AA:273:A:H1'	17:AQ:16:GLN:N	2.06	0.70
19:AS:49:ILE:HB	19:AS:60:VAL:HB	1.74	0.70
22:BB:1166:A:C4	22:BB:1168:G:C5	2.77	0.70
22:BB:521:U:H4'	22:BB:1248:G:H4'	1.74	0.70
22:BB:1600:U:O3'	22:BB:1601:U:H4'	1.92	0.70
22:BB:2284:U:H1'	27:BG:152:MET:HE3	1.74	0.70
22:BB:2329:C:OP2	51:B5:42:ARG:CD	2.26	0.70
22:BB:2646:C:H1'	28:BH:111:HIS:HD1	1.44	0.70
22:BB:2680:U:H2'	22:BB:2682:C:H41	1.57	0.70
22:BB:2795:A:O5'	35:BO:5:LYS:CB	2.39	0.70
22:BB:319:G:OP1	40:BT:12:LYS:CD	2.39	0.70
25:BE:18:ASP:OD1	32:BL:84:ALA:O	2.10	0.70
22:BB:2726:U:C5'	28:BH:138:LYS:HZ1	2.00	0.70
36:BP:27:LEU:HB2	36:BP:88:VAL:HG13	1.74	0.70
22:BB:827:C:C3'	39:BS:84:THR:HA	2.21	0.70
34:BN:99:LYS:HG3	43:BW:73:LYS:NZ	2.07	0.70
22:BB:2364:C:HO2'	44:BX:69:PHE:HZ	1.33	0.70
1:CA:1092:A:C5'	7:CG:4:ARG:NE	2.54	0.70
1:CA:678:U:H2'	1:CA:679:C:O4'	1.91	0.70
4:CD:128:VAL:HG13	4:CD:145:GLU:H	1.57	0.70
7:CG:49:ILE:HG21	7:CG:121:ALA:HA	1.73	0.70
15:CO:87:ILE:HG22	15:CO:88:ARG:HG2	1.74	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:DB:521:U:H4'	22:DB:1248:G:H4'	1.74	0.70
22:DB:1600:U:O3'	22:DB:1601:U:H4'	1.92	0.70
22:DB:2614:A:C5'	25:DE:77:ILE:H	2.02	0.70
22:DB:795:A:N6	24:DD:222:ARG:CD	2.55	0.70
25:DE:195:LEU:CD2	37:DQ:2:GLN:HG3	2.22	0.70
22:DB:2766:U:O2	25:DE:61:LYS:C	2.30	0.70
27:DG:117:ILE:H	27:DG:178:ARG:N	1.88	0.70
32:DL:86:GLY:C	37:DQ:84:ALA:N	2.45	0.70
23:DA:115:G:H22	36:DP:49:GLN:HG2	1.57	0.70
36:DP:77:ALA:HA	36:DP:80:ALA:HB3	1.74	0.70
38:DR:43:ALA:HA	39:DS:75:LYS:HD2	1.66	0.70
1:EA:186:C:H4'	20:ET:81:LYS:CE	2.21	0.70
1:EA:375:U:O3'	16:EP:6:LEU:CD2	2.33	0.70
1:EA:968:A:H2'	9:EI:128:ARG:NE	2.05	0.70
1:EA:1055:A:O3'	3:EC:162:GLN:HA	1.88	0.70
7:EG:27:ILE:HA	7:EG:30:ILE:HD12	1.74	0.70
1:EA:520:A:OP2	12:EL:52:LEU:HB2	1.90	0.70
22:FB:2590:U:C4	48:F2:2:ALA:HB2	2.26	0.70
22:FB:3177:C:O3'	53:F7:163:PRO:HG3	1.91	0.70
22:FB:1047:G:C2'	22:FB:1048:U:H5'	2.22	0.70
22:FB:1896:A:H2'	22:FB:1898:U:H5	1.57	0.70
22:FB:1761:G:H4'	22:FB:1920:A:O2'	1.90	0.70
22:FB:603:C:C4	22:FB:677:G:O6	2.45	0.70
24:FD:159:ALA:HB2	24:FD:202:LYS:HG2	1.72	0.70
22:FB:2752:C:C5'	25:FE:166:THR:HB	2.21	0.70
22:FB:2025:A:C8	31:FK:142:ARG:NH2	2.57	0.70
22:FB:965:G:C5'	34:FN:18:MET:SD	2.79	0.70
34:FN:36:ILE:CB	43:FW:74:ARG:HG2	2.08	0.70
22:FB:2239:C:C3'	44:FX:14:ARG:HD2	2.19	0.70
22:FB:94:C:C2'	45:FY:40:PRO:CG	2.57	0.70
1:GA:1117:G:N1	1:GA:1180:A:H1'	2.06	0.70
1:GA:1494:G:HO2'	22:HB:1895:A:C2'	2.05	0.70
1:AA:192:U:O4	1:GA:190:A:O3'	2.10	0.70
1:GA:262:A:C5'	20:GT:74:LYS:HD2	2.22	0.70
8:GH:17:THR:HG22	8:GH:63:LEU:HG	1.73	0.70
12:GL:11:VAL:HG23	17:GQ:32:TYR:CB	2.21	0.70
19:GS:22:LEU:HD21	19:GS:31:ILE:HD11	1.73	0.70
22:HB:700:C:C5'	50:H4:4:THR:CA	2.47	0.70
22:HB:642:A:N1	22:HB:2394:G:N2	2.40	0.70
22:HB:843:G:H1'	22:HB:956:A:N3	2.07	0.70
22:HB:1816:G:N3	24:HD:252:LYS:HD3	2.05	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:HH:114:ILE:O	28:HH:115:ILE:HG12	1.91	0.70
22:HB:2760:G:H2'	31:HK:149:LYS:HD3	1.74	0.70
34:HN:76:THR:H	34:HN:90:ALA:HA	1.55	0.70
1:IA:1517:G:C4	22:JB:1902:A:O2'	2.43	0.70
1:IA:260:G:H8	20:IT:80:ARG:NH2	1.89	0.70
1:IA:678:U:H2'	1:IA:679:C:O4'	1.92	0.70
1:IA:835:U:H5''	18:IR:64:ARG:HH12	1.57	0.70
2:IB:48:MET:SD	2:IB:51:LEU:HD12	2.32	0.70
3:IC:29:TYR:HA	3:IC:33:LEU:HB2	1.73	0.70
22:JB:409:G:P	47:J1:10:VAL:HG22	2.31	0.70
22:JB:2791:C:H5'	48:J2:43:HIS:CG	2.27	0.70
22:JB:2240:C:O5'	44:JX:15:ASP:O	2.07	0.70
22:JB:2261:G:N1	22:JB:2404:A:C8	2.60	0.70
22:JB:2274:C:H2'	22:JB:2275:U:H5''	1.74	0.70
22:JB:237:G:O4'	22:JB:618:A:H2	1.73	0.70
22:JB:800:U:H3'	22:JB:804:C:H41	1.56	0.70
22:JB:843:G:H1'	22:JB:956:A:N3	2.07	0.70
29:JI:42:ASN:HA	29:JI:46:LEU:HB2	1.74	0.70
22:JB:1203:A:O3'	33:JM:37:GLN:CD	2.29	0.70
1:AA:335:C:H1'	1:AA:1434:A:C2	2.27	0.70
1:AA:51:A:H1'	1:AA:353:A:N6	2.06	0.70
1:AA:741:G:N3	15:AO:51:HIS:HB3	2.07	0.70
8:AH:124:ALA:HB1	8:AH:129:VAL:HG21	1.74	0.70
13:AM:87:TYR:CE2	13:AM:91:ARG:HG3	2.27	0.70
22:BB:1044:U:OP2	52:B6:9:LYS:CB	2.40	0.70
22:BB:1091:C:H4'	30:BJ:125:ASN:C	2.12	0.70
22:BB:2505:G:H5'	22:BB:2722:C:P	2.32	0.70
22:BB:2505:G:H5'	22:BB:2722:C:OP1	1.92	0.70
22:BB:544:U:C5'	38:BR:46:GLU:HG3	2.22	0.70
22:BB:718:A:N6	22:BB:739:G:O2'	2.20	0.70
27:BG:74:ILE:HG22	27:BG:76:ASN:H	1.56	0.70
22:BB:2728:A:HO2'	28:BH:67:LEU:HD22	1.57	0.70
34:BN:76:THR:H	34:BN:90:ALA:HA	1.55	0.70
36:BP:9:ARG:NH1	36:BP:12:ARG:H	1.90	0.70
37:BQ:40:ARG:CZ	37:BQ:40:ARG:HA	2.22	0.70
22:BB:24:G:O4'	40:BT:98:ASP:CG	2.27	0.70
1:CA:1349:A:N1	7:CG:33:ASP:O	2.25	0.70
2:CB:15:VAL:HG11	2:CB:213:LEU:HD13	1.73	0.70
1:CA:761:G:C4	17:CQ:104:LYS:HA	2.20	0.70
23:DA:89:G:H2'	23:DA:90:C:H5''	1.72	0.70
22:DB:1831:G:C8	22:DB:1910:A:H1'	2.27	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:DB:658:G:C1'	22:DB:2330:G:OP1	2.23	0.70
22:DB:2338:C:H5''	51:D5:50:LEU:CD2	2.16	0.70
22:DB:580:A:H2'	22:DB:581:A:H3'	1.72	0.70
22:DB:777:A:H2	22:DB:1781:C:H5'	1.57	0.70
22:DB:935:C:H1'	44:DX:26:PHE:HD2	1.57	0.70
22:DB:1782:A:C2	24:DD:21:PHE:HZ	2.08	0.70
31:DK:46:ALA:HB3	31:DK:83:ILE:HB	1.74	0.70
34:DN:99:LYS:HD2	43:DW:74:ARG:CB	2.21	0.70
25:DE:176:ARG:CD	37:DQ:20:HIS:HE1	2.02	0.70
43:DW:17:SER:HA	43:DW:36:ARG:HH12	1.55	0.70
23:DA:78:A:N1	43:DW:22:VAL:HG21	2.00	0.70
1:EA:1439:C:P	20:ET:34:LYS:CD	2.63	0.70
1:EA:51:A:H1'	1:EA:353:A:N6	2.06	0.70
1:EA:519:C:H3'	1:EA:520:A:H8	1.56	0.70
3:EC:37:GLN:HA	3:EC:40:ARG:HD2	1.72	0.70
1:EA:589:C:H5'	8:EH:32:LYS:CE	2.22	0.70
9:EI:28:VAL:HG22	9:EI:63:ILE:HG21	1.73	0.70
22:FB:1322:G:C2'	50:F4:7:PRO:HG3	2.22	0.70
22:FB:1269:G:C2'	26:FF:76:THR:HG21	2.21	0.70
22:FB:1290:A:C1'	35:FO:24:GLN:CG	2.70	0.70
22:FB:2728:A:O4'	28:FH:67:LEU:HD22	1.92	0.70
22:FB:2:G:C6	22:FB:2875:C:N3	2.59	0.70
22:FB:742:G:C8	24:FD:208:LYS:HE2	2.27	0.70
22:FB:967:G:H1'	22:FB:970:A:H62	1.57	0.70
22:FB:2007:G:O4'	25:FE:149:ARG:NH2	2.25	0.70
34:FN:106:GLU:HB3	43:FW:115:ILE:HD11	1.64	0.70
23:FA:62:C:OP2	36:FP:6:THR:HG21	1.91	0.70
43:FW:154:LEU:HD22	43:FW:155:PRO:HD2	1.74	0.70
23:FA:14:C:C5	44:FX:54:GLY:N	2.59	0.70
1:GA:1110:A:H5''	1:GA:1111:A:N7	2.05	0.70
1:GA:1229:A:H5''	13:GM:116:THR:HG22	1.73	0.70
1:GA:1248:A:C1'	9:GI:70:LYS:HZ2	2.00	0.70
1:GA:1494:G:O2'	22:HB:1895:A:C2'	2.39	0.70
1:GA:541:G:N2	4:GD:43:HIS:CE1	2.57	0.70
1:GA:186:C:O2'	20:GT:81:LYS:CB	2.40	0.70
22:HB:1486:A:H2	22:HB:1535:C:H5	1.39	0.70
22:HB:1829:C:C4'	22:HB:1911:A:O4'	2.40	0.70
22:HB:1816:G:N2	24:HD:252:LYS:O	2.24	0.70
33:HM:37:GLN:HE21	33:HM:38:LYS:N	1.88	0.70
43:HW:154:LEU:HD22	43:HW:155:PRO:HD2	1.74	0.70
22:HB:2343:C:H1'	44:HX:66:LYS:HZ2	1.57	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:IA:1186:G:N2	14:IN:61:TRP:O	2.24	0.70
1:IA:227:G:H2'	1:IA:228:A:H8	1.57	0.70
1:IA:719:C:O2	18:IR:74:ARG:NH2	2.24	0.70
1:IA:1057:G:H4'	3:IC:196:LEU:CD2	2.21	0.70
7:IG:17:VAL:CG2	9:II:41:VAL:HG22	2.22	0.70
22:JB:1087:C:C1'	30:JJ:90:THR:C	2.59	0.70
22:JB:1828:C:O2	22:JB:1911:A:O2'	2.08	0.70
22:JB:1896:A:H2'	22:JB:1898:U:H5	1.56	0.70
22:JB:2259:G:O2'	22:JB:2367:A:N1	2.19	0.70
26:JF:58:MET:HG2	26:JF:69:HIS:HB3	1.72	0.70
22:JB:2629:U:H5'	32:JL:29:ILE:HD13	1.73	0.70
38:JR:88:ILE:CA	39:JS:51:ALA:HB3	2.21	0.70
1:AA:1228:C:N3	13:AM:120:LYS:HD3	2.07	0.69
1:AA:815:A:N6	1:AA:1529:G:C2'	2.53	0.69
1:AA:8:A:N7	4:AD:205:GLU:HB2	2.07	0.69
1:AA:546:G:P	4:AD:72:GLU:H	2.12	0.69
5:AE:145:LYS:O	8:AH:107:LEU:CD1	2.40	0.69
1:AA:43:C:O3'	16:AP:12:LYS:HE3	1.92	0.69
1:AA:262:A:P	20:AT:74:LYS:NZ	2.64	0.69
51:B5:26:LYS:HB2	51:B5:47:GLY:HA3	1.73	0.69
23:BA:107:C:H5''	43:BW:89:GLY:HA3	1.59	0.69
22:BB:1007:A:N6	22:BB:1171:A:C6	2.60	0.69
22:BB:1896:A:H2'	22:BB:1898:U:H5	1.57	0.69
22:BB:967:G:H1'	22:BB:970:A:H62	1.57	0.69
6:AF:81:ILE:C	24:BD:137:PRO:CB	2.40	0.69
26:BF:58:MET:HG2	26:BF:69:HIS:HB3	1.73	0.69
22:BB:686:C:C2	26:BF:68:ARG:NH1	2.60	0.69
22:BB:1070:G:H5''	30:BJ:114:ASP:CG	2.13	0.69
33:BM:37:GLN:HE21	33:BM:38:LYS:N	1.88	0.69
7:CG:27:ILE:HA	7:CG:30:ILE:HD12	1.74	0.69
1:CA:255:G:H5'	17:CQ:17:LYS:HE3	1.73	0.69
22:DB:1402:G:C2	22:DB:1412:C:N3	2.60	0.69
22:DB:1481:U:H5'	22:DB:1561:A:N1	2.06	0.69
22:DB:15:G:C4'	48:D2:21:SER:HB2	2.22	0.69
22:DB:164:G:H4'	47:D1:12:CYS:SG	2.31	0.69
22:DB:1762:C:H4'	22:DB:1921:A:H62	1.57	0.69
22:DB:1896:A:H2'	22:DB:1898:U:H5	1.57	0.69
22:DB:2224:U:H3'	22:DB:2225:G:H5'	1.74	0.69
22:DB:2551:A:H61	25:DE:145:LYS:N	1.90	0.69
22:DB:2645:C:H42	28:DH:108:GLY:HA3	1.57	0.69
32:DL:119:ARG:CZ	37:DQ:43:ASN:HD21	2.04	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:DB:503:G:P	40:DT:30:TYR:OH	2.49	0.69
1:EA:1349:A:H61	1:EA:1373:G:H1'	1.57	0.69
1:EA:257:G:O3'	20:ET:87:LYS:CE	2.40	0.69
3:EC:135:LYS:HZ1	5:EE:52:PRO:HB2	1.55	0.69
1:EA:15:G:C1'	5:EE:24:ARG:NH2	2.54	0.69
11:EK:107:SER:HB2	11:EK:109:VAL:HG23	1.73	0.69
22:FB:123:A:O5'	50:F4:14:LYS:HG2	1.92	0.69
22:FB:1041:G:H21	52:F6:5:SER:CA	2.03	0.69
22:FB:565:A:H2'	22:FB:566:U:O4'	1.92	0.69
22:FB:1810:U:H3'	24:FD:154:GLN:HE22	1.57	0.69
28:FH:160:LYS:H	28:FH:160:LYS:HD3	1.57	0.69
31:FK:46:ALA:HB3	31:FK:83:ILE:HB	1.74	0.69
36:FP:26:ARG:HD3	36:FP:89:PHE:HB2	1.73	0.69
23:FA:117:G:H4'	36:FP:52:ALA:CA	2.22	0.69
36:FP:9:ARG:NH1	36:FP:12:ARG:H	1.90	0.69
22:FB:503:G:N2	40:FT:74:SER:OG	2.24	0.69
43:FW:17:SER:HA	43:FW:36:ARG:HH12	1.55	0.69
2:GB:15:VAL:HG11	2:GB:213:LEU:HD13	1.73	0.69
3:GC:69:HIS:HB3	3:GC:106:VAL:HG22	1.73	0.69
1:GA:1374:A:O3'	7:GG:28:ASN:CG	2.31	0.69
1:GA:1248:A:N9	9:GI:70:LYS:NZ	2.36	0.69
1:GA:1224:G:O2'	13:GM:102:ARG:HG2	1.91	0.69
22:HB:2029:G:C4'	48:H2:19:ARG:CD	2.54	0.69
22:HB:2339:A:P	51:H5:49:VAL:CA	2.80	0.69
22:HB:3126:A:H5'	53:H7:26:PHE:HE1	1.55	0.69
22:HB:1166:A:OP1	38:HR:55:ARG:NH1	2.24	0.69
22:HB:1453:A:C5	22:HB:1454:U:C6	2.79	0.69
22:HB:1600:U:O3'	22:HB:1601:U:H4'	1.92	0.69
22:HB:1885:C:O2'	24:HD:242:ALA:HB2	1.92	0.69
22:HB:1681:A:N1	22:HB:2706:U:C6	2.60	0.69
22:HB:800:U:H3'	22:HB:804:C:H41	1.57	0.69
22:HB:1261:G:C6	38:HR:3:ARG:HB2	2.24	0.69
1:IA:1117:G:N1	1:IA:1180:A:H1'	2.06	0.69
1:IA:877:C:C5'	8:IH:88:LYS:HZ1	2.05	0.69
2:IB:16:HIS:NE2	2:IB:214:ILE:HD13	2.07	0.69
3:IC:12:LEU:HA	3:IC:16:ARG:HB3	1.73	0.69
1:IA:1114:C:H4'	14:IN:60:SER:N	2.02	0.69
1:IA:391:G:OP1	16:IP:8:ARG:NH1	2.19	0.69
23:JA:44:C:H5'	27:JG:66:ILE:HD11	1.73	0.69
23:JA:49:C:C3'	36:JP:95:LYS:CG	2.52	0.69
22:JB:1378:A:OP2	47:J1:3:LYS:CD	2.39	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:JB:1600:U:O3'	22:JB:1601:U:H4'	1.92	0.69
22:JB:2558:C:O3'	25:JE:132:LYS:CD	2.39	0.69
22:JB:603:C:N3	22:JB:677:G:C6	2.57	0.69
26:JF:111:ARG:HH22	33:JM:13:ARG:HH21	1.40	0.69
1:AA:1117:G:N1	1:AA:1180:A:H1'	2.06	0.69
1:AA:1229:A:C5	13:AM:120:LYS:O	2.46	0.69
1:AA:1249:C:O3'	9:AI:68:GLY:O	2.10	0.69
53:B7:185:ALA:HA	53:B7:189:ALA:HB2	1.73	0.69
22:BB:1815:G:C3'	24:BD:54:ILE:HG13	2.22	0.69
22:BB:2411:A:H1'	47:B1:27:THR:HB	1.73	0.69
22:BB:8:A:O5'	31:BK:36:ASN:ND2	2.19	0.69
33:BM:7:LYS:N	33:BM:8:PRO:HD3	2.07	0.69
35:BO:99:ARG:HD3	48:B2:44:HIS:HE2	1.54	0.69
1:CA:519:C:H3'	1:CA:520:A:H8	1.56	0.69
1:CA:667:G:H1'	15:CO:51:HIS:H	1.57	0.69
5:CE:152:ARG:HA	8:CH:42:GLU:HA	1.73	0.69
1:CA:864:A:OP2	5:CE:85:GLY:O	2.11	0.69
10:CJ:63:PHE:HA	14:CN:58:LYS:C	2.11	0.69
1:CA:954:G:C8	13:CM:123:ALA:CB	2.76	0.69
1:CA:981:U:O3'	14:CN:23:ARG:NH2	2.25	0.69
15:CO:11:VAL:HG12	15:CO:27:VAL:HG22	1.74	0.69
1:CA:741:G:O2'	15:CO:55:GLY:HA2	1.93	0.69
1:CA:624:C:O2'	16:CP:11:SER:OG	2.09	0.69
1:CA:234:C:C2	17:CQ:61:GLU:OE1	2.44	0.69
22:DB:1050:G:P	43:DW:37:LYS:HE2	2.31	0.69
22:DB:1274:C:OP2	40:DT:118:LYS:CG	2.36	0.69
22:DB:1887:G:O6	22:DB:1888:C:N3	2.25	0.69
22:DB:2832:G:H1'	22:DB:2834:A:N7	2.06	0.69
22:DB:419:G:OP1	53:D7:197:GLU:HG3	1.90	0.69
25:DE:21:ILE:N	25:DE:22:PRO:HD2	2.07	0.69
30:DJ:74:MET:HG3	30:DJ:114:ASP:HB3	1.74	0.69
22:DB:2474:G:O4'	34:DN:83:ARG:HG2	1.88	0.69
36:DP:9:ARG:NH1	36:DP:12:ARG:H	1.90	0.69
22:DB:865:A:C8	46:DZ:39:ALA:HB1	2.25	0.69
1:EA:1117:G:N1	1:EA:1180:A:H1'	2.06	0.69
1:EA:1236:A:H4'	1:EA:1304:G:H4'	1.74	0.69
1:EA:438:G:H5''	4:ED:125:HIS:CD2	2.27	0.69
1:EA:642:A:P	8:EH:117:GLY:HA2	1.99	0.69
4:ED:205:GLU:CB	5:EE:101:ILE:CB	2.51	0.69
6:EF:48:LEU:CD2	18:ER:78:LEU:CA	2.70	0.69
1:EA:653:A:H2	8:EH:27:PRO:HG3	1.55	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:EG:16:LEU:CG	9:EI:41:VAL:CG1	2.59	0.69
1:EA:449:C:C3'	16:EP:42:ARG:O	2.39	0.69
1:EA:323:U:O2'	20:ET:15:ARG:CD	2.39	0.69
23:FA:89:G:C2'	23:FA:90:C:H5''	2.21	0.69
22:FB:2540:A:N3	32:FL:23:ARG:HG2	2.06	0.69
22:FB:2660:C:H4'	22:FB:2661:G:N7	2.07	0.69
22:FB:2832:G:H1'	22:FB:2834:A:N7	2.06	0.69
22:FB:504:G:O2'	40:FT:26:ALA:N	2.25	0.69
22:FB:864:C:C2'	46:FZ:39:ALA:HA	2.22	0.69
25:FE:17:ASN:C	37:FQ:87:LEU:HD13	2.11	0.69
13:EM:72:ALA:HB1	27:FG:113:ASP:CB	2.21	0.69
43:FW:100:THR:HB	43:FW:114:ASP:HB3	1.74	0.69
1:GA:1202:G:O6	10:GJ:54:PHE:CE1	2.45	0.69
1:GA:1384:C:H2'	1:GA:1385:G:H8	1.57	0.69
1:GA:814:A:C4'	1:GA:1511:G:H5'	2.17	0.69
1:GA:947:G:OP1	13:GM:114:ARG:CG	2.25	0.69
10:GJ:51:ARG:HA	14:GN:45:ARG:CD	2.22	0.69
1:GA:689:C:OP2	11:GK:51:LYS:HD2	1.92	0.69
19:GS:49:ILE:HB	19:GS:60:VAL:HB	1.74	0.69
20:GT:56:MET:HE1	20:GT:57:ARG:HD2	1.74	0.69
22:HB:2861:A:C6	48:H2:31:THR:CG2	2.68	0.69
23:HA:77:G:H22	23:HA:105:G:N2	1.90	0.69
22:HB:1075:C:OP1	30:HJ:84:ILE:CG1	2.40	0.69
22:HB:1402:G:O6	22:HB:1412:C:N4	2.25	0.69
22:HB:2008:C:OP1	25:HE:147:PRO:HG3	1.92	0.69
22:HB:2274:C:H2'	22:HB:2275:U:H5''	1.73	0.69
22:HB:967:G:H1'	22:HB:970:A:H62	1.57	0.69
24:HD:144:ALA:HB3	24:HD:192:THR:H	1.55	0.69
22:HB:1885:C:H4'	24:HD:241:GLY:O	1.93	0.69
29:HI:42:ASN:HA	29:HI:46:LEU:HB2	1.74	0.69
43:HW:100:THR:HB	43:HW:114:ASP:HB3	1.74	0.69
1:IA:1206:G:O4'	3:IC:193:TYR:CA	2.39	0.69
1:IA:673:G:C4'	6:IF:87:ARG:HH21	2.04	0.69
2:IB:61:LEU:HD22	2:IB:64:ARG:HD2	1.73	0.69
1:IA:640:A:C4'	8:IH:127:LEU:HD13	2.22	0.69
9:II:10:ARG:NH2	9:II:11:LYS:HB2	2.07	0.69
22:JB:2210:C:C5'	47:J1:39:VAL:HG21	2.03	0.69
22:JB:1202:U:C6	39:JS:80:TYR:OH	2.45	0.69
22:JB:1812:U:N3	24:JD:200:GLU:HA	2.08	0.69
22:JB:2261:G:H1	22:JB:2404:A:C1'	2.04	0.69
22:JB:2571:G:C5	24:JD:237:GLU:HG3	2.27	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:JB:2680:U:H3	22:JB:2683:C:H41	1.40	0.69
22:JB:309:G:P	42:JV:93:ARG:CG	2.79	0.69
22:JB:647:G:O6	33:JM:128:ALA:CB	2.39	0.69
38:JR:3:ARG:NE	38:JR:4:ALA:H	1.89	0.69
22:JB:1004:A:C2'	39:JS:88:GLN:OE1	2.41	0.69
1:AA:407:G:H5''	4:AD:115:ARG:HB2	1.74	0.69
1:AA:620:C:H5''	4:AD:138:TYR:OH	1.91	0.69
1:AA:815:A:O4'	1:AA:1529:G:C6	2.44	0.69
1:AA:877:C:H5''	8:AH:89:PRO:HG2	1.74	0.69
1:AA:727:G:H4'	15:AO:51:HIS:CD2	2.26	0.69
1:AA:582:U:H1'	15:AO:64:ARG:NH2	2.08	0.69
23:BA:77:G:H22	23:BA:105:G:H22	1.38	0.69
22:BB:1135:C:O2'	52:B6:36:GLN:CB	2.40	0.69
22:BB:2063:A:O2'	47:B1:33:VAL:HG13	1.92	0.69
22:BB:2224:U:H3'	22:BB:2225:G:H5'	1.75	0.69
22:BB:2343:C:H1'	44:BX:66:LYS:HZ3	1.55	0.69
22:BB:580:A:H2'	22:BB:581:A:H3'	1.72	0.69
22:BB:777:A:H2	22:BB:1781:C:H5'	1.57	0.69
25:BE:111:LYS:HB2	25:BE:114:GLN:HE22	1.55	0.69
22:BB:686:C:H2'	26:BF:68:ARG:HH12	1.57	0.69
32:BL:98:ILE:HG23	32:BL:106:ARG:HB3	1.74	0.69
23:BA:93:G:H4'	34:BN:23:LYS:HZ2	0.56	0.69
38:BR:25:TRP:CH2	48:B2:14:SER:CB	2.67	0.69
22:BB:497:C:C4'	40:BT:80:LEU:CD1	2.70	0.69
1:CA:1117:G:N1	1:CA:1180:A:H1'	2.06	0.69
1:CA:402:G:O4'	1:CA:621:A:N3	2.25	0.69
1:CA:413:G:H1	4:CD:31:CYS:C	1.95	0.69
1:CA:985:C:O2'	19:CS:55:LYS:NZ	2.25	0.69
9:CI:13:ALA:HB2	9:CI:68:GLY:HA3	1.75	0.69
17:CQ:56:VAL:HB	17:CQ:78:GLU:HG3	1.74	0.69
1:CA:1320:C:C2	19:CS:72:GLY:CA	2.75	0.69
20:CT:30:LYS:HA	20:CT:33:ILE:HD12	1.74	0.69
22:DB:1290:A:H4'	35:DO:24:GLN:CG	2.22	0.69
22:DB:1807:A:H5'	24:DD:88:ARG:HE	1.55	0.69
22:DB:187:U:OP1	50:D4:26:SER:HA	1.92	0.69
22:DB:2602:G:N2	48:D2:22:HIS:CE1	2.57	0.69
22:DB:967:G:H1'	22:DB:970:A:H62	1.57	0.69
22:DB:2710:C:C3'	25:DE:169:ASN:CB	2.68	0.69
22:DB:1256:C:O4'	33:DM:15:ASP:OD2	2.09	0.69
43:DW:67:LYS:C	43:DW:128:ARG:HH12	1.95	0.69
23:DA:95:U:O3'	43:DW:14:LEU:O	2.10	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:DY:18:ILE:HG12	45:DY:50:VAL:HG21	1.74	0.69
1:EA:1103:C:O4'	2:EB:108:ILE:CG2	2.37	0.69
1:EA:1136:U:C2	1:IA:1136:U:C1'	2.67	0.69
1:EA:523:A:C6	12:EL:90:VAL:CG1	2.75	0.69
1:EA:244:U:OP1	1:EA:894:G:N2	2.25	0.69
4:ED:59:ARG:HH22	4:ED:66:ARG:HD2	1.57	0.69
22:FB:113:C:O2'	22:FB:125:A:H5'	1.91	0.69
22:FB:1629:G:O2'	50:F4:3:ARG:CZ	2.34	0.69
22:FB:777:A:H2	22:FB:1781:C:H5'	1.57	0.69
22:FB:2773:G:H1'	22:FB:2780:A:H2'	1.73	0.69
22:FB:580:A:H2'	22:FB:581:A:H3'	1.72	0.69
22:FB:871:U:C2'	22:FB:2247:A:H2'	2.22	0.69
22:FB:2618:A:C2'	31:FK:125:ARG:NH2	2.54	0.69
22:FB:1018:C:O4'	31:FK:134:MET:CG	2.40	0.69
36:FP:27:LEU:HB2	36:FP:88:VAL:HG13	1.74	0.69
22:FB:1239:A:P	39:FS:73:LYS:HZ3	2.05	0.69
1:GA:223:U:C1'	20:GT:68:LYS:CE	2.69	0.69
1:GA:223:U:H5'	20:GT:68:LYS:CG	2.15	0.69
9:GI:8:GLY:HA2	9:GI:79:LEU:HB2	1.72	0.69
15:GO:87:ILE:HG22	15:GO:88:ARG:HG2	1.74	0.69
22:HB:600:G:N2	51:H5:2:PRO:CG	2.49	0.69
23:HA:108:G:P	43:HW:89:GLY:HA3	2.32	0.69
22:HB:47:G:N2	22:HB:154:U:OP1	2.22	0.69
1:GA:1495:U:H1'	22:HB:1902:A:N6	2.07	0.69
22:HB:891:A:N3	22:HB:893:G:C2	2.56	0.69
22:HB:941:U:OP2	46:HZ:23:LEU:CB	2.41	0.69
25:HE:21:ILE:N	25:HE:22:PRO:HD2	2.07	0.69
25:HE:47:VAL:HG22	25:HE:79:ARG:HG2	1.75	0.69
22:HB:2541:U:C2'	32:HL:23:ARG:NH1	2.55	0.69
22:HB:648:A:N1	33:HM:110:ALA:CA	2.56	0.69
34:HN:68:ARG:NE	43:HW:117:VAL:CG1	2.38	0.69
22:HB:2356:A:C2	36:HP:89:PHE:HZ	2.10	0.69
37:HQ:80:VAL:HG23	37:HQ:111:ARG:HH21	1.57	0.69
22:HB:1225:G:H22	40:HT:12:LYS:HE2	1.57	0.69
1:IA:1057:G:H5''	3:IC:196:LEU:HD22	1.74	0.69
1:IA:407:G:H1'	4:ID:116:GLN:NE2	2.08	0.69
7:IG:16:LEU:CB	9:II:41:VAL:O	2.39	0.69
1:IA:954:G:O2'	13:IM:120:LYS:HE3	1.92	0.69
1:IA:278:G:C8	17:IQ:95:TYR:CG	2.79	0.69
53:J7:158:LYS:HD3	53:J7:158:LYS:H	1.56	0.69
22:JB:2258:G:C2	22:JB:2306:A:C2	2.81	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:JB:2680:U:H2'	22:JB:2682:C:H41	1.56	0.69
22:JB:3167:U:H3	53:J7:101:LYS:CG	2.04	0.69
22:JB:2510:A:HO2'	28:JH:157:TYR:HE2	1.36	0.69
30:JJ:125:ASN:HD22	30:JJ:126:THR:H	1.39	0.69
30:JJ:74:MET:HG3	30:JJ:114:ASP:HB3	1.74	0.69
22:JB:2542:U:H4'	32:JL:41:ASN:HA	1.73	0.69
33:JM:34:HIS:HB2	33:JM:35:LYS:HD3	1.72	0.69
35:JO:78:LYS:HG3	35:JO:82:GLU:HB3	1.73	0.69
36:JP:77:ALA:HA	36:JP:80:ALA:HB3	1.73	0.69
22:JB:2842:C:C2	37:JQ:29:PRO:HD3	2.23	0.69
22:JB:2811:G:OP2	37:JQ:5:ILE:C	2.31	0.69
1:AA:815:A:C2	1:AA:1529:G:N3	2.60	0.69
1:AA:439:A:C4'	4:AD:122:ARG:CZ	2.65	0.69
3:AC:73:PRO:HA	3:AC:105:GLU:HG3	1.74	0.69
6:AF:49:ALA:HB2	18:AR:79:LEU:CA	2.22	0.69
8:AH:36:LEU:HA	8:AH:39:LEU:HD23	1.73	0.69
9:AI:48:GLU:HB2	9:AI:78:LYS:HZ1	1.56	0.69
10:AJ:50:ILE:HA	10:AJ:60:ARG:HA	1.72	0.69
13:AM:87:TYR:CD2	13:AM:91:ARG:CG	2.76	0.69
15:AO:87:ILE:HG22	15:AO:88:ARG:HG2	1.74	0.69
19:AS:16:LEU:HA	19:AS:19:VAL:HG12	1.73	0.69
20:AT:31:SER:HA	20:AT:34:LYS:HD2	1.73	0.69
22:BB:1175:A:H2	22:BB:1198:C:H2'	1.56	0.69
22:BB:1356:G:H1'	22:BB:1613:G:N7	2.07	0.69
22:BB:2543:A:N1	22:BB:2625:U:O2'	2.25	0.69
22:BB:523:A:C2	38:BR:11:ARG:NH1	2.60	0.69
25:BE:7:THR:HA	25:BE:25:VAL:HG23	1.74	0.69
25:BE:47:VAL:HG22	25:BE:79:ARG:HG2	1.75	0.69
22:BB:2474:G:O3'	34:BN:83:ARG:O	2.08	0.69
35:BO:21:ALA:HB1	35:BO:25:ALA:HB3	1.72	0.69
32:BL:88:THR:OG1	37:BQ:82:PRO:HD2	1.92	0.69
38:BR:101:ARG:HH22	39:BS:43:GLU:CG	2.04	0.69
38:BR:3:ARG:NE	38:BR:4:ALA:H	1.89	0.69
41:BU:46:PHE:HB2	45:BY:23:LYS:HZ3	1.54	0.69
1:CA:1240:U:C4	7:CG:116:ALA:HB2	2.27	0.69
1:CA:1349:A:H61	1:CA:1373:G:H1'	1.58	0.69
1:CA:51:A:H1'	1:CA:353:A:N6	2.06	0.69
1:CA:659:U:H5''	15:CO:5:LYS:CG	2.23	0.69
1:CA:1298:C:C4	7:CG:114:ARG:HG2	2.25	0.69
1:CA:704:A:N6	11:CK:42:TRP:HH2	1.88	0.69
10:CJ:63:PHE:CD2	14:CN:58:LYS:HG2	2.26	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:DB:219:G:H2'	51:D5:3:LYS:O	1.92	0.69
23:DA:106:U:H4'	43:DW:88:TYR:CD1	2.25	0.69
22:DB:2218:G:P	24:DD:232:PRO:HG3	2.31	0.69
22:DB:2285:U:H5'	27:DG:40:LEU:CD2	2.22	0.69
22:DB:2660:C:H4'	22:DB:2661:G:N7	2.08	0.69
22:DB:538:A:H3'	31:DK:139:ARG:NH2	2.06	0.69
22:DB:61:U:O4	22:DB:91:A:N6	2.25	0.69
22:DB:2615:U:O4'	25:DE:79:ARG:CD	2.41	0.69
33:DM:7:LYS:N	33:DM:8:PRO:HD3	2.07	0.69
38:DR:47:TYR:HA	39:DS:74:TYR:HD1	1.56	0.69
1:EA:1368:G:H5''	10:EJ:62:HIS:CE1	2.27	0.69
1:EA:1057:G:HO2'	3:EC:197:GLY:HA3	1.56	0.69
1:EA:1060:C:C6	3:EC:2:GLY:N	2.59	0.69
8:EH:124:ALA:HB1	8:EH:129:VAL:HG21	1.74	0.69
1:EA:1187:G:P	9:EI:113:LYS:HE2	2.33	0.69
1:EA:238:G:OP1	17:EQ:38:ARG:NH2	2.25	0.69
22:FB:2262:C:C2'	49:F3:8:ILE:HD11	2.22	0.69
22:FB:1636:G:O4'	50:F4:1:MET:CA	2.40	0.69
53:F7:179:LEU:HD22	53:F7:183:ALA:HB2	1.73	0.69
22:FB:1265:G:C4'	38:FR:32:TYR:CD1	2.73	0.69
22:FB:2773:G:N9	22:FB:2780:A:C2	2.58	0.69
22:FB:1741:G:C1'	22:FB:2835:A:H2	2.02	0.69
22:FB:1412:C:C5'	41:FU:22:ARG:HH21	2.03	0.69
2:GB:16:HIS:NE2	2:GB:214:ILE:HD13	2.07	0.69
1:GA:17:U:C5'	5:GE:14:ARG:HD2	2.18	0.69
1:GA:1374:A:O3'	7:GG:28:ASN:HB3	1.93	0.69
10:GJ:51:ARG:HG2	14:GN:45:ARG:HH12	0.87	0.69
33:HM:63:ARG:CD	51:H5:8:LYS:HD2	2.13	0.69
53:H7:93:LEU:HD21	53:H7:103:LEU:HD12	1.75	0.69
53:H7:104:ALA:HB1	53:H7:128:LEU:HD11	1.74	0.69
22:HB:1135:C:O2'	52:H6:4:ARG:CG	2.41	0.69
22:HB:1398:G:N2	22:HB:1416:A:N7	2.40	0.69
22:HB:2848:A:H2'	35:HO:6:ALA:CB	2.19	0.69
22:HB:3876:A:C4	53:H7:44:GLY:HA3	2.27	0.69
22:HB:7:G:C6	22:HB:2870:C:C4	2.80	0.69
31:HK:46:ALA:HB3	31:HK:83:ILE:HB	1.74	0.69
22:HB:819:C:P	33:HM:41:SER:HG	2.13	0.69
22:HB:965:G:H5''	34:HN:18:MET:HE3	1.72	0.69
36:HP:9:ARG:NH1	36:HP:12:ARG:H	1.90	0.69
32:HL:87:SER:CB	37:HQ:82:PRO:C	2.61	0.69
1:IA:1384:C:H2'	1:IA:1385:G:H8	1.57	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:IA:483:C:O2	16:IP:13:HIS:CD2	2.45	0.69
19:IS:49:ILE:HB	19:IS:60:VAL:HB	1.74	0.69
22:JB:1166:A:N6	46:JZ:7:ARG:NH1	0.71	0.69
22:JB:535:U:H5'	22:JB:565:A:H5'	1.73	0.69
22:JB:828:C:O2'	22:JB:1177:U:H5'	1.92	0.69
22:JB:967:G:H1'	22:JB:970:A:H62	1.57	0.69
33:JM:63:ARG:HD3	51:J5:9:MET:CE	2.17	0.69
37:JQ:80:VAL:HG23	37:JQ:111:ARG:HH21	1.57	0.69
22:JB:941:U:C1'	46:JZ:22:ALA:O	2.41	0.69
1:AA:1178:G:N2	1:AA:1180:A:H3'	2.07	0.69
1:AA:1187:G:N3	14:AN:60:SER:O	2.26	0.69
1:AA:1230:C:O2	13:AM:125:ARG:HD2	1.92	0.69
1:AA:1398:A:C5	5:AE:22:GLY:N	2.61	0.69
1:AA:15:G:C6	5:AE:19:MET:CB	2.69	0.69
53:B7:158:LYS:H	53:B7:158:LYS:HD3	1.56	0.69
22:BB:1323:G:H1'	22:BB:1627:C:H5'	1.74	0.69
22:BB:2660:C:H4'	22:BB:2661:G:N7	2.08	0.69
22:BB:2753:C:H5'	25:BE:164:ARG:HG2	1.74	0.69
22:BB:787:A:H4'	22:BB:790:A:N3	2.07	0.69
22:BB:965:G:O3'	34:BN:18:MET:HE1	1.91	0.69
24:BD:177:LEU:HD21	24:BD:183:ARG:HH21	1.57	0.69
22:BB:2766:U:C5'	25:BE:64:GLN:CA	2.65	0.69
29:BI:42:ASN:HA	29:BI:46:LEU:HB2	1.74	0.69
30:BJ:74:MET:HG3	30:BJ:114:ASP:HB3	1.74	0.69
32:BL:91:PHE:CE2	37:BQ:76:GLY:O	2.45	0.69
37:BQ:80:VAL:HG23	37:BQ:111:ARG:HH21	1.57	0.69
43:BW:100:THR:HB	43:BW:114:ASP:HB3	1.74	0.69
1:CA:739:C:C2	15:CO:42:HIS:HE1	2.06	0.69
1:CA:696:A:H1'	1:CA:786:G:H1'	1.73	0.69
3:CC:73:PRO:HA	3:CC:105:GLU:HG3	1.75	0.69
1:CA:619:U:C4	4:CD:133:VAL:HG13	2.27	0.69
22:DB:164:G:O3'	47:D1:12:CYS:HA	1.92	0.69
22:DB:1834:G:O2'	24:DD:244:ARG:HB3	1.92	0.69
22:DB:2661:G:H2'	25:DE:12:THR:HG1	1.55	0.69
22:DB:3123:G:C1'	53:D7:166:GLN:NE2	2.55	0.69
22:DB:608:G:H5'	33:DM:20:GLY:HA3	1.74	0.69
22:DB:922:A:H61	34:DN:16:GLY:HA2	1.54	0.69
25:DE:7:THR:HA	25:DE:25:VAL:HG23	1.75	0.69
26:DF:15:ILE:HG23	26:DF:16:GLU:N	2.08	0.69
2:EB:16:HIS:NE2	2:EB:214:ILE:HD13	2.07	0.69
22:FB:1742:G:H1'	22:FB:2835:A:C1'	2.22	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:FB:2733:A:N3	52:F6:15:LYS:HE2	2.07	0.69
22:FB:591:G:P	38:FR:32:TYR:CD2	2.85	0.69
22:FB:5:A:O2'	31:FK:159:SER:OG	2.11	0.69
1:EA:899:C:N4	24:FD:4:LYS:HZ1	1.90	0.69
22:FB:2710:C:H4'	25:FE:169:ASN:CG	2.12	0.69
22:FB:63:A:N6	41:FU:64:ARG:HE	1.90	0.69
1:GA:107:G:H22	20:GT:12:ALA:N	1.89	0.69
1:GA:740:U:O2	15:GO:46:HIS:CD2	2.45	0.69
1:GA:1190:G:OP1	3:GC:5:ILE:N	2.25	0.69
1:GA:35:G:O2'	12:GL:117:ARG:O	2.09	0.69
22:HB:1261:G:H8	38:HR:2:PRO:HB2	0.52	0.69
22:HB:2680:U:H3	22:HB:2683:C:H41	1.40	0.69
22:HB:418:C:C5	53:H7:192:ASN:N	2.61	0.69
22:HB:47:G:N2	22:HB:154:U:OP2	2.25	0.69
24:HD:177:LEU:HD21	24:HD:183:ARG:HH21	1.57	0.69
22:HB:625:A:O4'	26:HF:38:ARG:HD3	1.93	0.69
26:HF:58:MET:HG2	26:HF:69:HIS:HB3	1.73	0.69
36:HP:77:ALA:HA	36:HP:80:ALA:HB3	1.73	0.69
22:HB:1234:C:H5'	39:HS:68:LYS:HD3	1.73	0.69
43:HW:18:MET:H	43:HW:36:ARG:HH12	1.41	0.69
1:IA:1148:U:H5''	9:II:14:VAL:HG21	1.72	0.69
1:IA:1188:A:H5'	9:II:114:TYR:CD2	2.28	0.69
1:IA:1359:C:H5''	14:IN:31:ARG:NE	2.07	0.69
1:IA:768:A:C2	1:IA:1512:U:C2'	2.74	0.69
2:IB:103:THR:HG23	2:IB:179:LYS:HD3	1.73	0.69
7:IG:38:LEU:HG	7:IG:42:ILE:HD11	1.75	0.69
1:IA:778:G:H21	11:IK:120:ARG:HB2	1.56	0.69
13:IM:86:CYS:CB	19:IS:74:PHE:HD2	1.96	0.69
22:JB:1750:A:H4'	22:JB:2695:C:C1'	2.22	0.69
22:JB:644:A:O2'	22:JB:2383:C:OP1	2.08	0.69
22:JB:2491:C:H1'	25:JE:141:ILE:CG2	2.21	0.69
22:JB:2487:G:H4'	22:JB:2534:U:H5'	1.73	0.69
22:JB:2558:C:H5'	25:JE:132:LYS:HB3	1.73	0.69
22:JB:2823:G:P	37:JQ:103:LYS:HG2	2.32	0.69
22:JB:2701:A:C4	22:JB:2848:A:N7	2.60	0.69
22:JB:1884:A:O2'	24:JD:244:ARG:NH1	2.24	0.69
35:JO:114:GLU:HG2	35:JO:115:LEU:H	1.57	0.69
43:JW:18:MET:H	43:JW:36:ARG:HH12	1.40	0.69
23:JA:14:C:N3	44:JX:52:GLY:HA2	2.08	0.69
1:AA:562:C:H3'	12:AL:17:LYS:NZ	2.07	0.69
1:AA:571:U:H3'	1:AA:572:A:H5'	1.74	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:696:A:H1'	1:AA:786:G:H1'	1.73	0.69
1:AA:780:A:C3'	1:AA:1523:G:H5'	2.21	0.69
5:AE:148:VAL:CG2	8:AH:107:LEU:CB	2.52	0.69
1:AA:738:C:OP1	6:AF:92:LYS:CE	2.40	0.69
1:AA:518:C:C4	12:AL:47:LYS:CD	2.75	0.69
1:AA:1225:A:C5'	13:AM:104:ARG:N	2.56	0.69
14:AN:46:GLU:HB2	14:AN:50:LYS:HE3	1.75	0.69
20:AT:30:LYS:HA	20:AT:33:ILE:HD12	1.74	0.69
22:BB:1128:G:H4'	43:BW:76:ARG:NE	2.04	0.69
22:BB:1763:G:H21	22:BB:1765:C:H5'	1.58	0.69
22:BB:1829:C:O2'	22:BB:1910:A:H1'	1.91	0.69
22:BB:424:G:O5'	22:BB:2386:G:OP2	2.10	0.69
22:BB:2814:G:OP1	35:BO:46:PRO:CB	2.37	0.69
22:BB:8:A:C2	22:BB:2869:U:O2	2.45	0.69
22:BB:79:G:C1'	22:BB:356:A:H2	2.04	0.69
22:BB:69:G:O4'	22:BB:72:A:C8	2.46	0.69
22:BB:777:A:H1'	24:BD:209:ALA:O	1.93	0.69
22:BB:677:G:H1'	22:BB:951:G:H5'	1.73	0.69
22:BB:1795:C:H4'	24:BD:250:TRP:CZ2	2.27	0.69
22:BB:1805:G:O3'	24:BD:44:ASN:N	2.25	0.69
22:BB:1071:U:O4	30:BJ:130:THR:CB	2.40	0.69
22:BB:1148:G:C4'	31:BK:133:GLY:HA3	2.21	0.69
22:BB:2463:G:C4'	34:BN:47:GLN:HA	2.23	0.69
34:BN:28:VAL:CG1	43:BW:119:ASN:CB	2.70	0.69
1:CA:1178:G:N2	1:CA:1180:A:H3'	2.07	0.69
1:CA:571:U:H3'	1:CA:572:A:H5'	1.74	0.69
1:CA:968:A:H4'	10:CJ:56:HIS:CE1	2.26	0.69
1:CA:1367:C:H5'	10:CJ:60:ARG:NH1	2.08	0.69
1:CA:1227:A:C2'	13:CM:117:VAL:CG1	2.71	0.69
14:CN:46:GLU:HB2	14:CN:50:LYS:HE3	1.75	0.69
22:DB:504:G:O2'	40:DT:26:ALA:CA	2.41	0.69
22:DB:7:G:H4'	31:DK:161:GLN:CG	1.32	0.69
22:DB:809:C:OP2	26:DF:57:LYS:CG	2.29	0.69
30:DJ:125:ASN:HD22	30:DJ:126:THR:H	1.39	0.69
32:DL:113:PRO:CG	37:DQ:75:GLU:C	2.61	0.69
22:DB:2627:G:N2	32:DL:27:SER:C	2.41	0.69
22:DB:2653:A:H4'	32:DL:42:LYS:HG2	0.83	0.69
22:DB:2463:G:O2'	34:DN:121:LEU:CD1	2.40	0.69
23:DA:117:G:H1'	36:DP:41:GLN:OE1	1.92	0.69
38:DR:3:ARG:NE	38:DR:4:ALA:H	1.89	0.69
34:DN:38:MET:H	43:DW:74:ARG:CG	2.01	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:EA:571:U:H3'	1:EA:572:A:H5'	1.74	0.69
4:ED:205:GLU:HG2	5:EE:100:VAL:O	1.93	0.69
1:EA:1225:A:H4'	19:ES:78:ARG:CZ	2.22	0.69
22:FB:2186:G:O2'	24:FD:150:GLY:CA	2.39	0.69
22:FB:2224:U:H3'	22:FB:2225:G:H5'	1.75	0.69
22:FB:2239:C:H3'	44:FX:14:ARG:NH2	2.08	0.69
22:FB:2492:G:H2'	22:FB:2493:U:N3	2.06	0.69
22:FB:2556:A:N1	48:F2:5:PRO:CG	2.55	0.69
22:FB:2769:C:H2'	22:FB:2867:G:C2	2.27	0.69
22:FB:787:A:H4'	22:FB:790:A:N3	2.08	0.69
25:FE:7:THR:HA	25:FE:25:VAL:HG23	1.75	0.69
22:FB:2542:U:H5''	32:FL:39:GLY:C	2.13	0.69
22:FB:1203:A:C4'	33:FM:36:GLY:N	2.44	0.69
37:FQ:80:VAL:HG23	37:FQ:111:ARG:HH21	1.57	0.69
38:FR:43:ALA:CA	39:FS:75:LYS:CD	2.41	0.69
22:FB:23:G:H4'	40:FT:96:TYR:OH	1.93	0.69
20:AT:100:ILE:HG22	1:GA:179:A:H1'	1.74	0.69
1:GA:237:C:H5'	17:GQ:25:ARG:HH12	1.58	0.69
9:GI:10:ARG:NH2	9:GI:11:LYS:HB2	2.08	0.69
9:GI:3:GLN:HG2	9:GI:21:PRO:HD3	1.75	0.69
7:GG:16:LEU:HD23	9:GI:42:ARG:HH11	1.56	0.69
17:GQ:56:VAL:HB	17:GQ:78:GLU:HG3	1.74	0.69
22:HB:2398:U:C5'	49:H3:21:TYR:OH	2.40	0.69
22:HB:3170:A:HO2'	53:H7:130:PRO:HG3	1.56	0.69
22:HB:1202:U:C4'	39:HS:81:ARG:NH1	2.52	0.69
22:HB:1376:C:C6	47:H1:3:LYS:CA	2.52	0.69
22:HB:1377:G:O5'	47:H1:3:LYS:CE	2.22	0.69
22:HB:1681:A:C2	22:HB:2706:U:C2	2.80	0.69
22:HB:2029:G:O2'	48:H2:19:ARG:NH2	2.25	0.69
22:HB:2209:G:C5'	47:H1:39:VAL:HG22	2.22	0.69
22:HB:2680:U:H2'	22:HB:2682:C:H41	1.56	0.69
22:HB:419:G:O5'	53:H7:1:MET:SD	2.51	0.69
22:HB:511:A:N1	40:HT:12:LYS:CB	2.56	0.69
22:HB:215:G:H1'	22:HB:618:A:C1'	2.22	0.69
22:HB:1804:U:O2	24:HD:46:ARG:CB	2.41	0.69
35:HO:114:GLU:HG2	35:HO:115:LEU:H	1.57	0.69
1:IA:1186:G:C4'	9:II:110:GLU:CD	2.61	0.69
1:IA:1248:A:N3	1:IA:1248:A:H2'	2.08	0.69
3:IC:73:PRO:HA	3:IC:105:GLU:HG3	1.74	0.69
1:IA:559:A:N1	5:IE:126:ARG:HD3	2.08	0.69
1:IA:1227:A:H5''	13:IM:111:LYS:HE2	1.75	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:IM:19:LEU:HD11	13:IM:34:LEU:HD11	1.73	0.69
22:JB:1202:U:C6	39:JS:80:TYR:HE1	2.10	0.69
22:JB:236:C:H1'	22:JB:632:A:C1'	2.22	0.69
22:JB:644:A:N3	22:JB:2382:C:O3'	2.24	0.69
22:JB:1855:G:C6	22:JB:3877:A:N6	2.60	0.69
22:JB:797:A:OP2	24:JD:226:MET:HE1	1.92	0.69
22:JB:953:G:H5''	33:JM:39:SER:N	2.07	0.69
35:JO:72:ASP:HB3	35:JO:75:VAL:HG23	1.73	0.69
37:JQ:40:ARG:HA	37:JQ:40:ARG:CZ	2.22	0.69
44:JX:30:VAL:HG12	44:JX:66:LYS:HE3	1.72	0.69
1:AA:1343:G:C5'	9:AI:122:ALA:CB	2.68	0.69
1:AA:254:G:N3	17:AQ:16:GLN:CB	2.27	0.69
1:AA:265:G:N2	17:AQ:64:PRO:HB3	2.08	0.69
1:AA:995:C:H42	14:AN:4:LYS:HD3	1.57	0.69
7:AG:27:ILE:HA	7:AG:30:ILE:HD12	1.74	0.69
9:AI:28:VAL:HG22	9:AI:63:ILE:HG21	1.73	0.69
1:AA:552:U:C1'	12:AL:31:PRO:CB	2.71	0.69
1:AA:1309:G:H5''	13:AM:88:ARG:HH11	1.55	0.69
1:AA:625:G:P	16:AP:10:GLY:HA2	2.33	0.69
22:BB:1377:G:C5	47:B1:3:LYS:HB2	2.17	0.69
22:BB:1816:G:N2	24:BD:252:LYS:CE	2.55	0.69
22:BB:1681:A:H2	22:BB:2706:U:C1'	2.02	0.69
22:BB:1673:C:C5	25:BE:136:ARG:NH2	2.53	0.69
25:BE:195:LEU:HD21	37:BQ:2:GLN:NE2	1.96	0.69
22:BB:686:C:C5'	26:BF:74:VAL:HG13	2.21	0.69
28:BH:148:VAL:HB	28:BH:152:ARG:HE	1.55	0.69
43:BW:49:THR:OG1	43:BW:132:GLN:NE2	0.54	0.69
22:BB:2310:G:H4'	44:BX:71:ASN:HA	1.74	0.69
2:CB:16:HIS:NE2	2:CB:214:ILE:HD13	2.07	0.69
3:CC:29:TYR:HA	3:CC:33:LEU:HB2	1.73	0.69
8:CH:17:THR:HG22	8:CH:63:LEU:HG	1.73	0.69
53:D7:64:VAL:HG11	53:D7:111:LEU:HB2	1.73	0.69
22:DB:1323:G:H1'	22:DB:1627:C:H5'	1.74	0.69
22:DB:2274:C:H2'	22:DB:2275:U:H5''	1.73	0.69
22:DB:2370:G:C3'	22:DB:2371:A:P	2.80	0.69
22:DB:2786:G:H4'	25:DE:59:VAL:CG2	2.23	0.69
22:DB:659:G:H21	51:D5:46:LYS:NZ	1.89	0.69
22:DB:964:A:N6	22:DB:976:C:H42	1.90	0.69
22:DB:677:G:OP2	33:DM:27:ASP:OD2	2.11	0.69
34:DN:98:VAL:HG22	43:DW:73:LYS:HE2	0.70	0.69
22:DB:914:C:C2'	43:DW:163:ASP:OD2	2.32	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:EA:194:C:C2	20:ET:68:LYS:NZ	2.53	0.69
1:EA:532:A:H61	3:EC:193:TYR:HD2	1.36	0.69
1:EA:970:C:OP1	10:EJ:55:LYS:HB2	1.92	0.69
1:EA:640:A:HO2'	8:EH:127:LEU:HB3	1.53	0.69
15:EO:11:VAL:HG12	15:EO:27:VAL:HG22	1.74	0.69
18:ER:63:GLN:HA	18:ER:66:LEU:HB3	1.75	0.69
1:EA:1227:A:OP1	19:ES:80:TYR:HE2	1.71	0.69
1:EA:258:G:P	20:ET:83:ARG:CB	2.68	0.69
22:FB:2210:C:OP1	47:F1:38:GLY:O	2.10	0.69
22:FB:1999:U:O2'	48:F2:6:VAL:HG11	1.93	0.69
22:FB:53:G:H4'	50:F4:35:ARG:CZ	2.23	0.69
53:F7:93:LEU:HD21	53:F7:103:LEU:HD12	1.75	0.69
22:FB:3125:G:OP1	53:F7:26:PHE:HE2	1.76	0.69
22:FB:1752:U:HO3'	22:FB:1753:A:C5'	2.00	0.69
22:FB:487:G:H21	22:FB:491:A:N6	1.86	0.69
22:FB:964:A:N6	22:FB:976:C:H42	1.90	0.69
25:FE:21:ILE:N	25:FE:22:PRO:HD2	2.07	0.69
22:FB:2464:G:O4'	34:FN:122:ALA:N	2.26	0.69
22:FB:504:G:O3'	40:FT:25:PHE:CG	2.45	0.69
1:GA:7:G:H2'	5:GE:101:ILE:HG22	1.75	0.69
12:GL:5:PRO:HA	12:GL:10:LEU:HA	1.75	0.69
13:GM:87:TYR:CB	19:GS:73:GLU:CB	2.70	0.69
18:GR:63:GLN:HA	18:GR:66:LEU:HB3	1.75	0.69
22:HB:1149:G:OP1	31:HK:55:ALA:HB1	1.92	0.69
22:HB:115:G:C6	22:HB:117:A:N6	2.61	0.69
22:HB:1248:G:C6	40:HT:11:LYS:HG3	2.28	0.69
22:HB:1278:A:H4'	22:HB:1279:G:O5'	1.93	0.69
22:HB:1374:G:H4'	47:H1:53:GLU:HG3	1.67	0.69
22:HB:1456:C:C2	22:HB:1566:G:N2	2.60	0.69
22:HB:1356:G:H1'	22:HB:1613:G:N7	2.06	0.69
22:HB:2760:G:H1'	31:HK:149:LYS:CB	2.22	0.69
22:HB:2848:A:C1'	35:HO:6:ALA:HB1	2.23	0.69
25:HE:19:ARG:CD	37:HQ:87:LEU:HD13	2.22	0.69
22:HB:1019:U:H1'	38:HR:59:ARG:CZ	2.23	0.69
22:HB:1202:U:H4'	39:HS:80:TYR:CE1	2.26	0.69
22:HB:2365:U:N1	44:HX:37:LEU:HD21	2.06	0.69
22:HB:2309:G:H4'	44:HX:71:ASN:HD21	1.58	0.69
1:IA:686:U:C1'	11:IK:42:TRP:NE1	2.38	0.69
2:IB:15:VAL:HG11	2:IB:213:LEU:HD13	1.73	0.69
1:IA:671:G:N2	6:IF:80:ARG:CZ	2.54	0.69
7:IG:64:GLN:HE21	7:IG:68:ASN:ND2	1.90	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:IH:36:LEU:HA	8:IH:39:LEU:HD23	1.73	0.69
1:IA:1117:G:N2	9:II:106:ALA:H	1.91	0.69
11:IK:107:SER:HB2	11:IK:109:VAL:HG23	1.73	0.69
18:IR:63:GLN:HA	18:IR:66:LEU:HB3	1.75	0.69
51:J5:26:LYS:HB2	51:J5:47:GLY:HA3	1.73	0.69
52:J6:22:ARG:HH12	52:J6:35:ARG:HE	1.40	0.69
23:JA:89:G:C2'	23:JA:90:C:H5''	2.21	0.69
22:JB:1278:A:H4'	22:JB:1279:G:O5'	1.93	0.69
22:JB:1745:C:HO2'	37:JQ:113:LYS:CE	1.96	0.69
22:JB:2344:G:O4'	44:JX:66:LYS:HD2	1.93	0.69
22:JB:2490:U:H5''	25:JE:124:GLY:HA3	1.74	0.69
22:JB:1856:U:O2	22:JB:3865:A:N7	2.21	0.69
25:JE:21:ILE:N	25:JE:22:PRO:HD2	2.08	0.69
25:JE:47:VAL:HG22	25:JE:79:ARG:HG2	1.75	0.69
22:JB:672:C:C2'	26:JF:94:THR:H	2.06	0.69
33:JM:64:GLY:O	51:J5:11:LYS:HB3	1.91	0.69
36:JP:26:ARG:HD3	36:JP:89:PHE:HB2	1.73	0.69
22:JB:1202:U:C6	39:JS:80:TYR:CE1	2.81	0.69
43:JW:49:THR:CA	43:JW:95:SER:HB3	2.19	0.69
1:AA:1257:U:P	3:AC:27:LYS:HZ2	2.15	0.69
1:AA:875:C:H1'	8:AH:11:THR:HG21	1.74	0.69
1:AA:932:C:O4'	7:AG:3:ARG:HD3	1.91	0.69
1:AA:1279:A:N6	10:AJ:43:ARG:NH1	2.40	0.69
1:AA:1309:G:N7	13:AM:99:ARG:NH1	2.40	0.69
22:BB:1135:C:H1'	52:B6:36:GLN:CG	2.21	0.69
23:BA:107:C:C4'	43:BW:88:TYR:C	2.56	0.69
22:BB:1861:G:O3'	22:BB:1862:C:P	2.51	0.69
22:BB:2219:U:OP1	24:BD:229:VAL:CB	2.39	0.69
22:BB:2274:C:H2'	22:BB:2275:U:H5''	1.74	0.69
22:BB:2426:G:H1	22:BB:2430:A:H62	1.39	0.69
22:BB:2766:U:C1'	25:BE:61:LYS:O	2.41	0.69
22:BB:683:A:OP1	33:BM:45:LYS:CB	2.36	0.69
24:BD:155:LEU:HD23	24:BD:155:LEU:H	1.55	0.69
22:BB:1805:G:C2'	24:BD:52:ARG:NH1	2.19	0.69
22:BB:1992:G:H5'	40:BT:62:ARG:HB2	1.74	0.69
22:BB:505:G:H1'	40:BT:78:ASN:CA	2.22	0.69
1:CA:583:A:C8	17:CQ:91:ARG:HD3	2.28	0.69
4:CD:204:ILE:HG21	5:CE:98:THR:O	1.93	0.69
9:CI:10:ARG:NH2	9:CI:11:LYS:HB2	2.08	0.69
10:CJ:62:HIS:HB3	14:CN:59:ALA:HB3	1.71	0.69
53:D7:158:LYS:HD3	53:D7:158:LYS:H	1.56	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:DB:1041:G:P	34:DN:125:LYS:CE	2.75	0.69
22:DB:1238:A:O3'	39:DS:73:LYS:HG3	1.93	0.69
22:DB:922:A:H1'	22:DB:2244:C:H5'	1.73	0.69
22:DB:787:A:H4'	22:DB:790:A:N3	2.08	0.69
22:DB:869:C:O2'	44:DX:24:LYS:NZ	2.26	0.69
22:DB:2752:C:H5'	25:DE:166:THR:CB	2.22	0.69
28:DH:114:ILE:O	28:DH:115:ILE:HG12	1.91	0.69
30:DJ:54:PRO:HD2	30:DJ:72:PRO:HG3	1.75	0.69
22:DB:1203:A:H5''	33:DM:35:LYS:HA	1.74	0.69
22:DB:1670:G:C2	35:DO:11:ASN:OD1	2.45	0.69
22:DB:568:G:C4'	38:DR:59:ARG:NH2	2.43	0.69
1:EA:621:A:H5''	4:ED:139:ARG:NH2	2.08	0.69
53:F7:104:ALA:HB1	53:F7:128:LEU:HD11	1.74	0.69
53:F7:64:VAL:HG11	53:F7:111:LEU:HB2	1.73	0.69
22:FB:1399:C:H1'	22:FB:1484:G:C2	2.27	0.69
22:FB:1818:G:OP2	24:FD:223:GLY:HA3	1.93	0.69
22:FB:2240:C:H41	44:FX:13:GLY:HA2	1.55	0.69
22:FB:625:A:N7	26:FF:172:VAL:CG2	2.55	0.69
30:FJ:54:PRO:HD2	30:FJ:72:PRO:HG3	1.75	0.69
23:FA:9:G:H4'	36:FP:32:TYR:HH	0.74	0.69
22:FB:1173:G:O4'	39:FS:23:GLU:N	2.21	0.69
22:FB:88:G:C2	41:FU:65:VAL:CG2	2.75	0.69
1:GA:546:G:OP2	4:GD:72:GLU:N	2.26	0.69
1:GA:253:U:O2'	17:GQ:18:THR:CG2	2.41	0.69
1:GA:187:G:P	20:GT:82:SER:HB3	2.33	0.69
22:HB:2733:A:C2	52:H6:15:LYS:HE3	1.84	0.69
22:HB:1044:U:H5''	52:H6:16:VAL:HG11	1.74	0.69
52:H6:22:ARG:HH12	52:H6:35:ARG:HE	1.40	0.69
22:HB:1828:C:O2'	22:HB:1912:G:P	2.51	0.69
22:HB:2660:C:OP1	25:HE:192:ASN:HB2	1.92	0.69
22:HB:504:G:C5'	40:HT:25:PHE:CE2	2.74	0.69
22:HB:504:G:H4'	40:HT:25:PHE:HD2	1.32	0.69
22:HB:542:A:N7	22:HB:570:G:C2	2.61	0.69
22:HB:79:G:HO2'	22:HB:305:A:H2	1.28	0.69
25:HE:92:ASN:HD21	25:HE:175:ILE:HD11	1.58	0.69
22:HB:2629:U:C4'	32:HL:29:ILE:HD11	1.85	0.69
34:HN:98:VAL:HG22	34:HN:99:LYS:N	2.08	0.69
35:HO:72:ASP:HB3	35:HO:75:VAL:HG23	1.73	0.69
45:HY:18:ILE:HG12	45:HY:50:VAL:HG21	1.74	0.69
1:IA:675:A:C4	11:IK:116:HIS:NE2	2.61	0.69
4:ID:128:VAL:HG13	4:ID:145:GLU:H	1.57	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:IA:825:G:O2'	8:IH:12:ARG:HG3	1.93	0.69
12:IL:11:VAL:HG23	17:IQ:34:LYS:NZ	2.07	0.69
22:JB:3176:A:O2'	53:J7:164:GLN:HG2	1.88	0.69
22:JB:1508:G:OP2	24:JD:100:GLY:HA3	1.93	0.69
22:JB:16:G:HO2'	48:J2:14:SER:C	1.95	0.69
22:JB:394:U:C1'	47:J1:13:LYS:CE	2.67	0.69
22:JB:1583:A:C4	24:JD:84:TYR:HE1	1.84	0.69
23:JA:118:G:P	36:JP:52:ALA:HA	2.31	0.69
36:JP:9:ARG:NH1	36:JP:12:ARG:H	1.90	0.69
22:JB:1175:A:N3	39:JS:86:HIS:CG	2.61	0.69
41:JU:7:LEU:HG	41:JU:42:ILE:HG13	1.75	0.69
23:JA:15:A:OP1	44:JX:53:MET:HE2	1.76	0.69
3:AC:29:TYR:HA	3:AC:33:LEU:HB2	1.73	0.69
9:AI:13:ALA:HB2	9:AI:68:GLY:HA3	1.75	0.69
18:AR:63:GLN:HA	18:AR:66:LEU:HB3	1.75	0.69
22:BB:1045:G:C4'	52:B6:18:ARG:CZ	2.63	0.69
23:BA:106:U:C2'	43:BW:88:TYR:CG	2.71	0.69
22:BB:1856:U:H5'	22:BB:2389:G:O2'	1.92	0.69
22:BB:487:G:O6	42:BV:4:PRO:HD2	1.93	0.69
22:BB:58:C:N3	22:BB:73:A:C2	2.60	0.69
22:BB:777:A:O5'	24:BD:208:LYS:NZ	2.26	0.69
22:BB:964:A:N6	22:BB:976:C:H42	1.90	0.69
28:BH:114:ILE:O	28:BH:115:ILE:HG12	1.91	0.69
28:BH:160:LYS:H	28:BH:160:LYS:HD3	1.57	0.69
22:BB:1070:G:H5'	30:BJ:115:LEU:HA	1.73	0.69
22:BB:2372:A:C1'	33:BM:59:ARG:HB3	2.12	0.69
23:BA:92:G:HO2'	34:BN:22:ALA:HB2	1.52	0.69
35:BO:114:GLU:HG2	35:BO:115:LEU:H	1.58	0.69
1:AA:346:G:OP1	37:BQ:51:GLU:CG	2.40	0.69
1:CA:523:A:N6	12:CL:90:VAL:CB	2.55	0.69
1:CA:673:G:H4'	18:CR:75:ILE:CG2	2.20	0.69
1:CA:815:A:H2	1:CA:1528:U:C1'	1.99	0.69
7:CG:64:GLN:HE21	7:CG:68:ASN:ND2	1.90	0.69
1:CA:741:G:H1'	15:CO:52:SER:HA	1.73	0.69
18:CR:63:GLN:HA	18:CR:66:LEU:HB3	1.75	0.69
22:DB:503:G:C5'	40:DT:30:TYR:OH	2.40	0.69
22:DB:597:U:OP2	33:DM:28:LYS:HA	1.91	0.69
34:DN:98:VAL:HG22	34:DN:99:LYS:N	2.08	0.69
37:DQ:80:VAL:HG23	37:DQ:111:ARG:HH21	1.57	0.69
38:DR:15:LYS:HD3	38:DR:18:LEU:HB3	1.75	0.69
22:DB:2333:A:HO2'	44:DX:32:LYS:HE3	1.57	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:EA:1185:G:C2'	9:EI:110:GLU:HG3	2.23	0.69
16:EP:56:ALA:HA	16:EP:59:TRP:NE1	2.07	0.69
1:EA:1318:A:N3	19:ES:37:ARG:NH1	2.41	0.69
22:FB:2556:A:N1	48:F2:5:PRO:CD	2.55	0.69
22:FB:1750:A:C5'	22:FB:2695:C:O2'	2.40	0.69
22:FB:2:G:N1	22:FB:2875:C:C2	2.51	0.69
22:FB:1:G:N1	22:FB:2876:C:N4	2.37	0.69
22:FB:63:A:O2'	41:FU:63:LYS:HA	1.93	0.69
22:FB:1516:A:O2'	24:FD:97:TYR:O	2.08	0.69
25:FE:47:VAL:HG22	25:FE:79:ARG:HG2	1.75	0.69
22:FB:2669:C:N4	35:FO:18:VAL:CG1	2.45	0.69
22:FB:1265:G:H5''	38:FR:14:HIS:NE2	2.08	0.69
1:GA:1229:A:O4'	13:GM:119:GLY:N	2.24	0.69
1:GA:280:C:C4	17:GQ:37:LYS:HD3	2.28	0.69
2:GB:48:MET:SD	2:GB:51:LEU:HD12	2.32	0.69
1:GA:1225:A:P	13:GM:102:ARG:HB2	2.31	0.69
22:HB:759:C:H2'	48:H2:2:ALA:CB	2.13	0.69
22:HB:2860:C:O2	48:H2:40:LYS:HD2	1.85	0.69
22:HB:515:A:OP1	40:HT:15:LYS:HE2	1.93	0.69
22:HB:625:A:H4'	26:HF:38:ARG:HD3	1.74	0.69
22:HB:891:A:O3'	22:HB:893:G:OP2	2.06	0.69
22:HB:818:G:P	33:HM:42:GLY:H	2.14	0.69
43:HW:6:LYS:H	43:HW:7:PRO:HD2	1.58	0.69
1:IA:1349:A:H5'	9:II:121:ARG:HH12	1.56	0.69
1:IA:1349:A:H61	1:IA:1373:G:H1'	1.57	0.69
1:IA:814:A:H5'	1:IA:1511:G:H4'	1.75	0.69
2:IB:166:ASP:HB3	2:IB:169:LYS:HB3	1.75	0.69
9:II:3:GLN:HG2	9:II:21:PRO:HD3	1.74	0.69
23:JA:77:G:H22	23:JA:105:G:N2	1.90	0.69
22:JB:1018:C:O2'	31:JK:136:PRO:HA	1.92	0.69
22:JB:124:A:C8	50:J4:19:ARG:NE	2.53	0.69
22:JB:2812:A:P	37:JQ:4:HIS:HE2	2.16	0.69
22:JB:48:A:C6	22:JB:154:U:O4	2.45	0.69
22:JB:787:A:H4'	22:JB:790:A:N3	2.07	0.69
22:JB:60:A:N6	22:JB:92:U:C4	2.59	0.69
26:JF:15:ILE:HG23	26:JF:16:GLU:N	2.08	0.69
22:JB:320:A:C3'	42:JV:30:LYS:HG3	2.23	0.69
1:AA:1227:A:C2'	13:AM:117:VAL:CG1	2.71	0.69
1:AA:1236:A:H4'	1:AA:1304:G:H4'	1.75	0.69
4:AD:59:ARG:HH22	4:AD:66:ARG:HD2	1.57	0.69
1:AA:429:U:OP1	4:AD:9:CYS:HB2	1.93	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:16:A:O3'	5:AE:16:THR:HB	1.80	0.69
1:AA:15:G:C3'	5:AE:24:ARG:NH1	2.54	0.69
1:AA:1297:C:P	13:AM:13:LYS:NZ	2.66	0.69
1:AA:742:G:H5'	15:AO:58:MET:CE	2.22	0.69
22:BB:1278:A:H4'	22:BB:1279:G:O5'	1.93	0.69
22:BB:2355:A:N1	36:BP:90:ASP:CG	2.46	0.69
22:BB:2769:C:O2	22:BB:2867:G:N3	2.26	0.69
22:BB:1669:A:HO2'	22:BB:2797:G:N2	1.91	0.69
22:BB:319:G:OP1	40:BT:12:LYS:CG	2.41	0.69
22:BB:3866:A:O5'	53:B7:43:LYS:CG	2.41	0.69
22:BB:843:G:H1'	22:BB:956:A:N3	2.07	0.69
32:BL:118:LEU:HD22	32:BL:126:ILE:HD13	1.73	0.69
34:BN:106:GLU:H	43:BW:113:VAL:HG11	1.56	0.69
22:BB:2229:G:C5	34:BN:85:GLY:N	2.61	0.69
25:BE:17:ASN:HB3	37:BQ:89:ASN:HB2	1.75	0.69
1:CA:1231:G:H5''	9:CI:126:SER:HB3	1.75	0.69
1:CA:200:G:H22	1:CA:217:C:H42	1.39	0.69
4:CD:59:ARG:HH22	4:CD:66:ARG:HD2	1.57	0.69
1:CA:1374:A:H2	7:CG:29:LYS:NZ	1.85	0.69
10:CJ:62:HIS:C	14:CN:59:ALA:HB3	2.13	0.69
11:CK:84:VAL:HB	11:CK:110:ASP:HA	1.74	0.69
1:CA:949:A:P	13:CM:102:ARG:HE	2.15	0.69
1:CA:675:A:C8	18:CR:81:PHE:CZ	2.81	0.69
1:CA:1456:A:OP1	20:CT:28:ALA:CA	2.41	0.69
20:CT:83:ARG:HB3	20:CT:87:LYS:HE3	1.73	0.69
22:DB:176:A:C8	47:D1:30:GLU:HA	2.27	0.69
22:DB:123:A:N3	50:D4:10:ARG:NH2	2.40	0.69
22:DB:1829:C:O2'	22:DB:1910:A:C4	2.45	0.69
22:DB:6:A:N3	31:DK:162:LYS:CE	2.56	0.69
22:DB:777:A:C1'	24:DD:209:ALA:O	2.41	0.69
22:DB:504:G:H1'	40:DT:26:ALA:O	1.93	0.69
22:DB:503:G:O3'	40:DT:29:LYS:CD	2.41	0.69
43:DW:154:LEU:HD22	43:DW:155:PRO:HD2	1.74	0.69
22:DB:2343:C:H4'	44:DX:38:VAL:O	1.92	0.69
1:EA:1178:G:N2	1:EA:1180:A:H3'	2.07	0.69
1:EA:927:G:C4'	1:EA:1531:A:N3	2.55	0.69
22:FB:2063:A:C4'	47:F1:32:HIS:O	2.41	0.69
23:FA:78:A:C4'	43:FW:13:LYS:CD	2.09	0.69
22:FB:1363:C:O2'	22:FB:1588:A:H4'	1.93	0.69
22:FB:1400:A:N1	22:FB:1414:G:C5	2.61	0.69
22:FB:1323:G:H1'	22:FB:1627:C:H5'	1.75	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:FB:2394:G:H5'	33:FM:64:GLY:CA	2.22	0.69
22:FB:2426:G:H1	22:FB:2430:A:H62	1.39	0.69
22:FB:3176:A:O2'	53:F7:33:ILE:HG22	1.89	0.69
22:FB:843:G:H1'	22:FB:956:A:N3	2.07	0.69
24:FD:177:LEU:HD21	24:FD:183:ARG:HH21	1.58	0.69
25:FE:199:ARG:NH1	25:FE:200:SER:H	1.91	0.69
35:FO:78:LYS:HG3	35:FO:82:GLU:HB3	1.74	0.69
1:GA:1349:A:H61	1:GA:1373:G:H1'	1.57	0.69
1:GA:927:G:H21	1:GA:1532:U:C3'	2.05	0.69
7:GG:38:LEU:HG	7:GG:42:ILE:HD11	1.75	0.69
9:GI:13:ALA:HB2	9:GI:68:GLY:HA3	1.74	0.69
1:GA:741:G:H1'	15:GO:49:ASP:OD1	1.93	0.69
1:GA:251:G:O2'	17:GQ:67:LYS:CE	2.40	0.69
1:GA:663:A:C4'	18:GR:64:ARG:HH12	1.96	0.69
13:GM:84:ILE:CD1	19:GS:66:MET:HA	2.23	0.69
1:GA:1319:A:H5'	19:GS:70:LYS:HZ1	1.58	0.69
1:GA:192:U:O3'	20:GT:57:ARG:HD2	1.92	0.69
22:HB:1007:A:N6	22:HB:1171:A:C6	2.60	0.69
22:HB:1143:A:O2'	31:HK:99:VAL:HG11	1.92	0.69
22:HB:3121:G:C3'	53:H7:160:LYS:NZ	2.56	0.69
1:GA:808:C:H1'	24:HD:5:LYS:HZ2	1.58	0.69
32:HL:73:VAL:HG21	32:HL:99:ILE:HB	1.75	0.69
22:HB:647:G:C2	33:HM:109:LEU:CD1	2.76	0.69
22:HB:60:A:C3'	45:HY:29:ARG:NH2	2.55	0.69
1:IA:720:C:C2	18:IR:50:ILE:HD12	2.27	0.69
1:IA:751:U:O3'	15:IO:77:ARG:NH2	2.22	0.69
22:JB:409:G:C4'	47:J1:39:VAL:HB	2.20	0.69
29:JI:46:LEU:HD11	53:J7:216:LYS:HZ3	1.45	0.69
22:JB:1301:U:C5	22:JB:1341:G:N2	2.60	0.69
22:JB:777:A:H2	22:JB:1781:C:H5'	1.57	0.69
22:JB:220:U:O2'	33:JM:69:GLY:HA2	1.93	0.69
22:JB:2601:C:O2'	22:JB:2799:C:N3	2.26	0.69
22:JB:2823:G:C5	37:JQ:105:TYR:CG	2.80	0.69
22:JB:2785:A:O2'	25:JE:60:ASN:ND2	2.25	0.69
25:JE:7:THR:HA	25:JE:25:VAL:HG23	1.75	0.69
22:JB:1090:C:C1'	30:JJ:132:ARG:HE	2.04	0.69
37:JQ:40:ARG:HH22	37:JQ:50:PHE:HB3	1.58	0.69
1:AA:1015:A:OP1	19:AS:14:HIS:HB3	1.92	0.69
1:AA:200:G:H22	1:AA:217:C:H42	1.39	0.69
9:AI:3:GLN:HG2	9:AI:21:PRO:HD3	1.75	0.69
1:AA:1220:G:N2	19:AS:54:GLY:CA	2.54	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:BB:1043:A:C2'	52:B6:16:VAL:CA	2.64	0.69
22:BB:1490:U:O2	22:BB:1534:A:H2'	1.93	0.69
22:BB:2334:C:H1'	44:BX:32:LYS:NZ	2.08	0.69
22:BB:541:C:O2	22:BB:2002:A:H2	1.75	0.69
22:BB:923:A:C2	22:BB:2243:C:O2'	2.46	0.69
22:BB:2218:G:P	24:BD:229:VAL:O	2.51	0.69
25:BE:21:ILE:N	25:BE:22:PRO:HD2	2.07	0.69
22:BB:597:U:HO2'	26:BF:84:PHE:HZ	0.73	0.69
27:BG:125:ARG:HB2	27:BG:127:ASN:ND2	2.08	0.69
22:BB:2289:A:N3	27:BG:77:PHE:HZ	1.90	0.69
31:BK:147:ARG:HD2	31:BK:147:ARG:H	1.58	0.69
22:BB:597:U:P	33:BM:29:THR:OG1	2.51	0.69
34:BN:99:LYS:CG	43:BW:74:ARG:HB2	2.23	0.69
23:BA:52:G:P	36:BP:63:ASN:HD21	2.16	0.69
38:BR:15:LYS:HD3	38:BR:18:LEU:HB3	1.75	0.69
9:CI:28:VAL:HG22	9:CI:63:ILE:HG21	1.73	0.69
1:CA:1059:C:C4'	14:CN:45:ARG:NH2	2.51	0.69
1:CA:1456:A:P	20:CT:28:ALA:CB	2.80	0.69
23:DA:93:G:H5'	34:DN:22:ALA:HB2	1.74	0.69
22:DB:1042:G:C5'	52:D6:8:LYS:HZ1	2.07	0.69
22:DB:1278:A:H4'	22:DB:1279:G:O5'	1.93	0.69
24:DD:226:MET:HA	24:DD:234:GLY:HA3	1.75	0.69
22:DB:2708:U:C1'	25:DE:21:ILE:HG13	2.22	0.69
23:DA:115:G:N2	36:DP:49:GLN:HG2	2.08	0.69
38:DR:43:ALA:HA	39:DS:75:LYS:HD3	0.70	0.69
23:DA:78:A:C5'	43:DW:31:SER:OG	2.41	0.69
1:EA:1374:A:P	7:EG:31:MET:HE1	2.32	0.69
2:EB:166:ASP:HB3	2:EB:169:LYS:HB3	1.76	0.69
3:EC:69:HIS:HB3	3:EC:106:VAL:HG22	1.73	0.69
22:FB:124:A:O5'	50:F4:19:ARG:HB3	1.93	0.69
22:FB:1516:A:N3	24:FD:98:ALA:CB	2.52	0.69
22:FB:1763:G:H21	22:FB:1765:C:H5'	1.58	0.69
22:FB:2274:C:H2'	22:FB:2275:U:H5''	1.73	0.69
22:FB:23:G:O2'	40:FT:98:ASP:OD2	0.69	0.69
22:FB:2623:A:H2'	22:FB:2624:G:N3	2.08	0.69
22:FB:788:G:N2	22:FB:804:C:H42	1.91	0.69
22:FB:2282:G:H21	27:FG:129:ASN:HB3	1.58	0.69
1:GA:1248:A:H2'	1:GA:1248:A:N3	2.08	0.69
1:GA:814:A:H4'	1:GA:1511:G:C5'	2.18	0.69
1:GA:13:U:O2	1:GA:914:A:C3'	2.38	0.69
22:HB:1141:U:OP2	22:HB:2494:C:H1'	1.92	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:HB:1321:A:O2'	50:H4:7:PRO:HB2	1.93	0.69
22:HB:1356:G:H1'	22:HB:1613:G:C8	2.28	0.69
22:HB:1483:G:C2'	22:HB:1484:G:O4'	2.41	0.69
22:HB:164:G:O3'	47:H1:12:CYS:HB3	1.93	0.69
22:HB:777:A:H2	22:HB:1781:C:H5'	1.57	0.69
22:HB:2194:A:O2'	47:H1:53:GLU:CG	2.41	0.69
22:HB:2:G:C2	22:HB:2876:C:C4	2.80	0.69
22:HB:787:A:H4'	22:HB:790:A:N3	2.08	0.69
22:HB:916:U:H1'	43:HW:165:GLU:C	2.12	0.69
37:HQ:40:ARG:CZ	37:HQ:40:ARG:HA	2.22	0.69
22:HB:1020:A:H4'	38:HR:62:ILE:HG12	1.74	0.69
1:IA:116:A:N3	1:IA:116:A:H2'	2.08	0.69
1:IA:1058:G:P	3:IC:154:SER:CA	2.80	0.69
3:IC:18:TRP:HZ2	14:IN:53:LEU:HG	1.55	0.69
7:IG:49:ILE:HG21	7:IG:121:ALA:HA	1.73	0.69
1:IA:589:C:H5''	8:IH:30:ARG:HB2	1.75	0.69
22:JB:2399:C:C1'	51:J5:32:GLN:CB	2.64	0.69
53:J7:93:LEU:HD21	53:J7:103:LEU:HD12	1.75	0.69
22:JB:1486:A:N1	22:JB:1536:G:N2	2.40	0.69
22:JB:1915:A:N1	22:JB:1956:G:H1'	2.07	0.69
22:JB:2660:C:H4'	22:JB:2661:G:N7	2.07	0.69
22:JB:1781:C:C3'	24:JD:213:ARG:CZ	2.71	0.69
31:JK:41:TRP:HE1	31:JK:164:GLN:HB2	1.58	0.69
22:JB:1261:G:O5'	38:JR:2:PRO:HB3	1.91	0.69
44:JX:43:THR:HG23	44:JX:74:LYS:HB2	1.75	0.69
1:AA:1094:G:H5''	1:AA:1095:U:H5	1.58	0.68
1:AA:1384:C:H2'	1:AA:1385:G:H8	1.57	0.68
1:AA:181:G:P	20:GT:102:GLY:N	2.66	0.68
2:AB:15:VAL:HG11	2:AB:213:LEU:HD13	1.73	0.68
1:AA:108:G:C1'	20:AT:12:ALA:HB1	2.23	0.68
22:BB:176:A:N1	47:B1:32:HIS:CE1	2.52	0.68
22:BB:2858:A:H5'	48:B2:52:TYR:CZ	2.28	0.68
22:BB:2039:G:N3	48:B2:5:PRO:CG	2.56	0.68
22:BB:115:G:H5''	50:B4:19:ARG:NH2	2.08	0.68
22:BB:1166:A:C2	22:BB:1168:G:N7	2.55	0.68
22:BB:1437:A:C6	22:BB:1439:G:C2	2.81	0.68
22:BB:1815:G:H5''	24:BD:54:ILE:HG12	1.74	0.68
22:BB:2753:C:OP1	25:BE:164:ARG:CG	2.40	0.68
22:BB:2608:A:N6	22:BB:2869:U:O2	2.26	0.68
22:BB:677:G:H4'	22:BB:951:G:C4'	2.23	0.68
30:BJ:53:ILE:HG23	30:BJ:72:PRO:HG2	1.76	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:BK:122:HIS:H	31:BK:123:PRO:HD2	1.57	0.68
1:CA:1384:C:H2'	1:CA:1385:G:H8	1.57	0.68
1:CA:760:G:N2	17:CQ:94:ASN:O	2.25	0.68
53:D7:93:LEU:HD21	53:D7:103:LEU:HD12	1.75	0.68
22:DB:1674:C:H3'	25:DE:134:TRP:CG	2.28	0.68
22:DB:1763:G:H21	22:DB:1765:C:H5'	1.59	0.68
22:DB:2426:G:H1	22:DB:2430:A:H62	1.39	0.68
22:DB:2551:A:N6	25:DE:144:ARG:CA	2.56	0.68
22:DB:2712:G:O5'	25:DE:203:LYS:O	2.11	0.68
22:DB:2793:G:OP2	35:DO:42:LYS:CE	2.33	0.68
22:DB:37:C:O2'	26:DF:45:THR:HB	1.91	0.68
22:DB:590:C:H5''	38:DR:32:TYR:HD1	1.54	0.68
22:DB:843:G:H1'	22:DB:956:A:N3	2.07	0.68
25:DE:199:ARG:NH1	25:DE:200:SER:H	1.91	0.68
22:DB:505:G:H5'	40:DT:25:PHE:HB3	1.67	0.68
43:DW:18:MET:H	43:DW:36:ARG:HH12	1.41	0.68
1:EA:1239:A:O3'	7:EG:115:ARG:HG3	1.92	0.68
1:EA:1384:C:H2'	1:EA:1385:G:H8	1.57	0.68
2:EB:103:THR:HG23	2:EB:179:LYS:HD3	1.73	0.68
3:EC:36:ASP:HB2	3:EC:37:GLN:NE2	2.08	0.68
4:ED:128:VAL:HG13	4:ED:145:GLU:H	1.57	0.68
9:EI:10:ARG:NH2	9:EI:11:LYS:HB2	2.07	0.68
9:EI:3:GLN:HG2	9:EI:21:PRO:HD3	1.75	0.68
14:EN:46:GLU:HB2	14:EN:50:LYS:HE3	1.75	0.68
1:EA:377:G:C5'	16:EP:5:ARG:HH12	1.98	0.68
23:FA:98:C:H5	43:FW:11:LYS:CD	2.06	0.68
22:FB:1278:A:H4'	22:FB:1279:G:O5'	1.93	0.68
22:FB:1411:C:C3'	22:FB:1412:C:C5	2.77	0.68
22:FB:1531:C:H1'	22:FB:1572:C:O2	1.93	0.68
22:FB:1683:G:OP1	32:FL:92:ASP:O	2.11	0.68
22:FB:1827:G:C2	22:FB:1913:G:N2	2.61	0.68
22:FB:2637:C:C5'	28:FH:158:HIS:CE1	2.76	0.68
22:FB:2766:U:OP1	25:FE:67:PHE:CB	2.40	0.68
32:FL:98:ILE:HG23	32:FL:106:ARG:HB3	1.74	0.68
22:FB:596:C:O5'	33:FM:28:LYS:NZ	2.26	0.68
34:FN:98:VAL:HG22	34:FN:99:LYS:N	2.08	0.68
34:FN:131:LYS:HZ1	43:FW:69:VAL:HG11	1.58	0.68
3:GC:36:ASP:HB2	3:GC:37:GLN:NE2	2.08	0.68
7:GG:49:ILE:HG21	7:GG:121:ALA:HA	1.74	0.68
8:GH:124:ALA:HB1	8:GH:129:VAL:HG21	1.74	0.68
13:GM:19:LEU:HD11	13:GM:34:LEU:HD11	1.73	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:HB:1374:G:H5'	47:H1:52:THR:O	1.92	0.68
22:HB:1323:G:H1'	22:HB:1627:C:H5'	1.74	0.68
22:HB:2490:U:O2	25:HE:138:PRO:O	2.10	0.68
22:HB:2492:G:H2'	22:HB:2493:U:C4	2.28	0.68
22:HB:2638:G:N7	28:HH:181:GLY:N	2.41	0.68
22:HB:2660:C:H4'	22:HB:2661:G:N7	2.07	0.68
22:HB:521:U:H4'	22:HB:1248:G:H4'	1.74	0.68
22:HB:238:G:C4'	22:HB:620:G:H5'	2.19	0.68
26:HF:15:ILE:HG23	26:HF:16:GLU:N	2.08	0.68
22:HB:648:A:N1	33:HM:111:SER:N	2.41	0.68
22:HB:221:A:H5''	33:HM:68:VAL:HA	0.71	0.68
35:HO:78:LYS:HG3	35:HO:82:GLU:HB3	1.74	0.68
44:HX:43:THR:HG23	44:HX:74:LYS:HB2	1.75	0.68
1:EA:1265:G:C2'	1:IA:1272:G:HO2'	1.97	0.68
1:IA:1524:C:OP1	11:IK:123:LYS:O	2.11	0.68
1:IA:654:G:C4'	8:IH:2:LEU:HD23	2.23	0.68
1:IA:375:U:C2'	16:IP:28:ARG:NH2	2.56	0.68
29:JI:26:ARG:HE	47:J1:68:ARG:HH11	1.36	0.68
40:JT:40:LEU:HA	48:J2:20:ARG:HE	1.58	0.68
22:JB:2399:C:O5'	51:J5:33:ASN:CA	2.39	0.68
22:JB:1018:C:O2'	31:JK:136:PRO:N	2.26	0.68
22:JB:847:C:H1'	22:JB:2337:A:C4	2.27	0.68
22:JB:2370:G:HO2'	22:JB:2408:G:H22	1.37	0.68
22:JB:610:G:O4'	26:JF:99:VAL:HG23	1.91	0.68
27:JG:125:ARG:HB2	27:JG:127:ASN:ND2	2.09	0.68
28:JH:148:VAL:HB	28:JH:152:ARG:HE	1.55	0.68
28:JH:160:LYS:HD3	28:JH:160:LYS:H	1.57	0.68
22:JB:2701:A:C4	35:JO:6:ALA:HB2	2.23	0.68
22:JB:2852:G:H5'	37:JQ:8:ASN:ND2	2.09	0.68
22:JB:1996:A:C4'	40:JT:117:ILE:CG2	2.70	0.68
42:JV:90:LYS:HG3	42:JV:110:SER:HB3	1.75	0.68
1:AA:1060:C:H5'	10:AJ:52:GLY:HA3	1.76	0.68
1:AA:1392:G:H5'	1:AA:1531:A:H4'	1.73	0.68
1:AA:436:C:H1'	4:AD:157:LEU:HD13	1.74	0.68
1:AA:668:G:C8	15:AO:46:HIS:HA	2.28	0.68
1:AA:108:G:C8	20:AT:12:ALA:HB1	2.28	0.68
53:B7:93:LEU:HD21	53:B7:103:LEU:HD12	1.75	0.68
22:BB:1091:C:C4'	30:BJ:125:ASN:CG	2.48	0.68
22:BB:1175:A:C6	22:BB:1198:C:O2	2.45	0.68
22:BB:2523:G:H21	22:BB:2625:U:H4'	1.58	0.68
22:BB:788:G:N2	22:BB:804:C:H42	1.91	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:BB:821:A:H62	33:BM:40:ARG:NH2	1.91	0.68
22:BB:827:C:O3'	39:BS:84:THR:HA	1.93	0.68
25:BE:199:ARG:NH1	25:BE:200:SER:H	1.91	0.68
22:BB:687:G:C8	26:BF:68:ARG:NH2	2.45	0.68
34:BN:99:LYS:CD	43:BW:74:ARG:HG3	2.23	0.68
22:BB:1237:G:H5'	39:BS:87:ARG:HB3	1.70	0.68
22:BB:527:C:H5''	40:BT:36:ARG:HH11	1.58	0.68
1:CA:1236:A:H4'	1:CA:1304:G:H4'	1.75	0.68
1:CA:599:C:H5''	8:CH:96:GLY:HA2	1.75	0.68
2:CB:48:MET:SD	2:CB:51:LEU:HD12	2.32	0.68
3:CC:36:ASP:HB2	3:CC:37:GLN:NE2	2.08	0.68
1:CA:1382:C:O3'	7:CG:79:ARG:CZ	2.41	0.68
1:CA:1187:G:N3	14:CN:61:TRP:N	2.41	0.68
8:CH:91:ARG:HH22	17:CQ:33:GLY:N	1.60	0.68
23:DA:117:G:H5''	36:DP:52:ALA:CA	2.20	0.68
22:DB:1197:U:OP1	46:DZ:26:ARG:NH2	2.26	0.68
22:DB:2229:G:C4	34:DN:84:MET:HA	2.28	0.68
22:DB:1040:A:H1'	22:DB:2465:G:H5'	1.73	0.68
22:DB:2498:U:H5'	22:DB:2546:G:H22	1.54	0.68
22:DB:475:U:H5''	50:D4:5:TYR:CD2	2.28	0.68
22:DB:788:G:N2	22:DB:804:C:H42	1.91	0.68
22:DB:885:A:HO2'	43:DW:118:HIS:CD2	2.11	0.68
22:DB:861:G:H1'	22:DB:944:A:H2'	1.75	0.68
22:DB:970:A:C6	34:DN:83:ARG:NH2	2.34	0.68
22:DB:2007:G:H5'	25:DE:149:ARG:NE	2.08	0.68
22:DB:2659:C:C4'	25:DE:187:ALA:O	2.40	0.68
35:DO:114:GLU:HG2	35:DO:115:LEU:H	1.57	0.68
22:DB:1240:G:H5''	38:DR:16:LYS:HD3	1.75	0.68
22:DB:504:G:H4'	40:DT:25:PHE:CE2	2.28	0.68
22:DB:503:G:O2'	40:DT:28:ALA:HA	1.93	0.68
22:DB:934:G:N2	44:DX:24:LYS:HB2	2.08	0.68
22:DB:864:C:H2'	46:DZ:39:ALA:O	1.94	0.68
1:EA:1186:G:O3'	9:EI:113:LYS:CD	2.36	0.68
1:EA:1187:G:P	9:EI:113:LYS:CD	2.81	0.68
1:EA:1248:A:H2'	1:EA:1248:A:N3	2.08	0.68
1:EA:376:G:C1'	16:EP:28:ARG:CZ	2.71	0.68
1:EA:599:C:C5'	8:EH:100:ILE:HG13	2.22	0.68
1:EA:696:A:H1'	1:EA:786:G:H1'	1.74	0.68
3:EC:23:TYR:HB2	10:EJ:92:THR:HG22	1.74	0.68
26:FF:119:ALA:H	26:FF:189:ASP:HB2	1.59	0.68
30:FJ:74:MET:HG3	30:FJ:114:ASP:HB3	1.74	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:GA:15:G:C2	5:GE:18:ARG:C	2.59	0.68
1:GA:824:C:O4'	8:GH:2:LEU:HD23	1.93	0.68
17:GQ:60:ILE:HD13	17:GQ:61:GLU:N	2.08	0.68
22:HB:1750:A:H4'	22:HB:2695:C:C1'	2.24	0.68
22:HB:2241:U:C4'	22:HB:2307:A:N3	2.56	0.68
22:HB:2372:A:C4'	33:HM:60:LEU:CA	2.70	0.68
22:HB:4:C:C2	22:HB:2874:A:C6	2.81	0.68
22:HB:1795:C:H5''	24:HD:250:TRP:CZ2	2.27	0.68
30:HJ:54:PRO:HD2	30:HJ:72:PRO:HG3	1.75	0.68
22:HB:2334:C:H5'	44:HX:21:LEU:HD11	1.75	0.68
22:HB:869:C:C4'	44:HX:57:HIS:N	2.43	0.68
1:IA:892:A:O2'	1:IA:1415:G:H4'	1.93	0.68
13:IM:86:CYS:C	19:IS:74:PHE:C	2.52	0.68
14:IN:46:GLU:HB2	14:IN:50:LYS:HE3	1.74	0.68
1:IA:608:A:N3	16:IP:31:LYS:HD2	2.08	0.68
1:IA:129(A):G:O5'	17:IQ:63:ARG:CG	2.41	0.68
1:IA:103:C:OP2	20:IT:14:LYS:HE3	1.93	0.68
20:IT:31:SER:HA	20:IT:34:LYS:HD2	1.73	0.68
22:JB:2208:U:HO2'	47:J1:40:HIS:CB	2.06	0.68
22:JB:635:C:P	51:J5:63:PRO:CD	2.76	0.68
22:JB:1268:U:N3	26:JF:66:ASN:ND2	2.39	0.68
22:JB:2505:G:C1'	52:J6:2:LYS:CE	2.44	0.68
22:JB:222:G:H21	22:JB:397:U:H1'	1.58	0.68
22:JB:2073:A:OP1	29:JI:22:ASP:OD1	2.10	0.68
32:JL:73:VAL:HG21	32:JL:99:ILE:HB	1.75	0.68
22:JB:1040:A:C3'	34:JN:125:LYS:HE2	2.22	0.68
22:JB:2826:C:C2'	35:JO:61:HIS:HB2	2.21	0.68
1:AA:619:U:O2'	4:AD:129:ASN:CG	2.31	0.68
14:AN:57:ARG:HG2	14:AN:58:LYS:H	1.59	0.68
1:AA:1187:G:C2	14:AN:61:TRP:HA	2.25	0.68
22:BB:2862:G:C5'	48:B2:32:GLU:OE2	2.41	0.68
22:BB:2339:A:P	51:B5:49:VAL:HG13	2.33	0.68
22:BB:122:G:OP1	22:BB:1389:C:C3'	2.42	0.68
22:BB:1398:G:C6	22:BB:1416:A:N6	2.61	0.68
22:BB:1807:A:C5'	24:BD:88:ARG:NH2	2.56	0.68
22:BB:879:A:C4	22:BB:2298:U:O4	2.46	0.68
22:BB:2419:C:H5''	22:BB:2566:A:H1'	1.76	0.68
22:BB:2789:U:O2'	48:B2:42:SER:HB2	1.93	0.68
22:BB:419:G:OP1	53:B7:197:GLU:O	2.12	0.68
22:BB:597:U:H5'	33:BM:28:LYS:CA	2.22	0.68
22:BB:861:G:H1'	22:BB:944:A:H2'	1.75	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:BB:2725:C:N1	28:BH:143:GLN:OE1	2.25	0.68
34:BN:98:VAL:HG22	34:BN:99:LYS:N	2.08	0.68
22:BB:2825:A:N3	35:BO:61:HIS:NE2	2.40	0.68
37:BQ:40:ARG:HH22	37:BQ:50:PHE:HB3	1.58	0.68
22:BB:1162:A:H4'	38:BR:81:ASN:CG	2.13	0.68
43:BW:3:LEU:HD22	43:BW:34:LEU:HD11	1.75	0.68
23:BA:106:U:C4'	43:BW:88:TYR:CD1	2.75	0.68
45:BY:18:ILE:HG12	45:BY:50:VAL:HG21	1.74	0.68
1:CA:129:U:OP2	17:CQ:3:LYS:CE	2.40	0.68
1:CA:407:G:C4	4:CD:116:GLN:NE2	2.61	0.68
14:CN:57:ARG:HG2	14:CN:58:LYS:H	1.59	0.68
1:CA:126:G:N2	17:CQ:4:LYS:HE3	1.94	0.68
1:CA:235:C:C5'	17:CQ:70:ARG:HB2	2.13	0.68
22:DB:641:G:OP1	51:D5:46:LYS:NZ	2.27	0.68
23:DA:92:G:C2	34:DN:22:ALA:HA	2.27	0.68
22:DB:10:A:N6	22:DB:2607:C:C5'	2.55	0.68
22:DB:1402:G:C4	22:DB:1412:C:C2	2.81	0.68
22:DB:2336:G:H1'	22:DB:2339:A:N6	2.09	0.68
22:DB:868:U:O4'	44:DX:25:LYS:CD	2.41	0.68
27:DG:125:ARG:HB2	27:DG:127:ASN:ND2	2.09	0.68
13:CM:9:ILE:HD13	27:DG:144:ASP:CB	2.24	0.68
32:DL:87:SER:HB2	37:DQ:83:PHE:HA	0.70	0.68
32:DL:73:VAL:HG21	32:DL:99:ILE:HB	1.75	0.68
22:DB:675:C:C4'	33:DM:26:THR:CA	2.66	0.68
1:EA:1100:C:H3'	2:EB:98:LEU:HD23	0.69	0.68
7:EG:64:GLN:HE21	7:EG:68:ASN:ND2	1.91	0.68
1:EA:958:A:C2'	19:ES:55:LYS:HZ2	2.05	0.68
22:FB:1629:G:C4'	50:F4:3:ARG:HD3	2.23	0.68
51:F5:28:GLY:H	51:F5:30:ARG:HH22	1.41	0.68
23:FA:77:G:H22	23:FA:105:G:N2	1.90	0.68
22:FB:2336:G:H1'	22:FB:2339:A:N6	2.09	0.68
22:FB:2399:C:H3'	51:F5:32:GLN:HG3	1.64	0.68
22:FB:1290:A:O4'	35:FO:24:GLN:HG2	1.93	0.68
22:FB:589:C:OP1	38:FR:33:ARG:HG2	1.93	0.68
34:FN:36:ILE:HD12	43:FW:74:ARG:O	1.87	0.68
1:GA:116:A:N3	1:GA:116:A:H2'	2.09	0.68
5:GE:78:HIS:HB2	8:GH:138:TRP:CE3	2.28	0.68
8:GH:51:VAL:HG12	8:GH:52:ASP:H	1.59	0.68
1:GA:1226:C:C5'	13:GM:111:LYS:CE	2.32	0.68
14:GN:46:GLU:HB2	14:GN:50:LYS:HE3	1.75	0.68
22:HB:1763:G:H21	22:HB:1765:C:H5'	1.58	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:HB:788:G:N2	22:HB:804:C:H42	1.91	0.68
22:HB:741:G:C1'	24:HD:17:THR:HB	2.20	0.68
22:HB:461:A:OP1	26:HF:79:GLY:CA	2.41	0.68
30:HJ:74:MET:HG3	30:HJ:114:ASP:HB3	1.74	0.68
22:HB:2653:A:C2	32:HL:41:ASN:ND2	2.57	0.68
34:HN:63:GLY:H	43:HW:111:GLY:N	1.86	0.68
1:IA:1418:A:H1'	22:JB:1942:G:H4'	1.73	0.68
1:IA:924:C:O2'	1:IA:1502:A:C8	2.41	0.68
1:IA:815:A:C8	1:IA:1509:C:C2	2.81	0.68
1:IA:261:U:C6	20:IT:79:ARG:CZ	2.76	0.68
3:IC:36:ASP:HB2	3:IC:37:GLN:NE2	2.08	0.68
1:IA:1373:G:C5'	7:IG:36:LYS:HB2	2.23	0.68
1:IA:1367:C:H2'	9:II:112:LYS:NZ	2.08	0.68
16:IP:56:ALA:HA	16:IP:59:TRP:NE1	2.08	0.68
22:JB:2350:G:O2'	49:J3:46:LYS:HD3	1.93	0.68
22:JB:1629:G:C4'	50:J4:3:ARG:HB2	2.22	0.68
22:JB:3170:A:O2'	53:J7:128:LEU:HD22	1.93	0.68
22:JB:1323:G:H1'	22:JB:1627:C:H5'	1.74	0.68
22:JB:2397:A:P	51:J5:42:ARG:HH21	2.15	0.68
22:JB:2399:C:H3'	51:J5:32:GLN:CA	2.23	0.68
22:JB:490:A:H5''	42:JV:3:ARG:HH12	1.57	0.68
22:JB:788:G:N2	22:JB:804:C:H42	1.91	0.68
31:JK:147:ARG:H	31:JK:147:ARG:HD2	1.58	0.68
32:JL:98:ILE:HG23	32:JL:106:ARG:HB3	1.74	0.68
33:JM:7:LYS:N	33:JM:8:PRO:HD3	2.07	0.68
22:JB:312:G:H5'	42:JV:90:LYS:N	1.14	0.68
43:JW:43:PHE:CG	43:JW:119:ASN:OD1	2.43	0.68
22:JB:76:C:C5'	45:JY:56:VAL:CB	2.70	0.68
2:AB:194:PRO:O	8:AH:73:ASP:OD1	2.11	0.68
1:AA:1103:C:H5'	2:AB:98:LEU:HD13	1.74	0.68
3:AC:36:ASP:HB2	3:AC:37:GLN:NE2	2.08	0.68
2:AB:195:ASP:O	8:AH:73:ASP:CG	2.30	0.68
10:AJ:47:PHE:CD1	14:AN:56:VAL:HG11	2.19	0.68
22:BB:1041:G:N2	52:B6:7:VAL:HG13	2.08	0.68
23:BA:96:C:P	43:BW:10:PRO:O	2.51	0.68
22:BB:1989:C:H1'	22:BB:2798:A:C1'	2.16	0.68
22:BB:879:A:N9	22:BB:2298:U:O4	2.26	0.68
22:BB:2336:G:H1'	22:BB:2339:A:N6	2.09	0.68
22:BB:2767:C:C4'	25:BE:60:ASN:HD22	1.94	0.68
25:BE:6:GLY:HA2	37:BQ:2:GLN:O	1.94	0.68
26:BF:119:ALA:H	26:BF:189:ASP:HB2	1.59	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:BK:46:ALA:HB3	31:BK:83:ILE:HB	1.74	0.68
23:BA:106:U:C2'	43:BW:88:TYR:HD1	1.83	0.68
22:BB:2236:U:OP1	44:BX:10:SER:CB	2.35	0.68
1:CA:1077:G:C2	5:CE:45:PHE:CZ	2.80	0.68
1:CA:1298:C:C2	7:CG:114:ARG:HG2	2.27	0.68
2:CB:178:ARG:HH12	2:CB:183:PRO:HG3	1.59	0.68
1:CA:420:U:H5''	3:CC:127:ARG:HH12	1.57	0.68
1:CA:1256:A:N6	3:CC:26:LYS:CE	2.57	0.68
22:DB:106:G:H1'	22:DB:357:A:N1	2.08	0.68
22:DB:1809:G:H5''	24:DD:63:ARG:NH2	2.08	0.68
22:DB:1992:G:H5'	40:DT:62:ARG:CB	2.19	0.68
22:DB:2291:U:OP1	27:DG:70:ALA:CB	2.30	0.68
22:DB:2261:G:H5'	22:DB:2368:G:H1'	1.76	0.68
22:DB:2522:G:H4'	22:DB:2624:G:O6	1.93	0.68
22:DB:61:U:O2	22:DB:89:A:C2	2.46	0.68
26:DF:119:ALA:H	26:DF:189:ASP:HB2	1.59	0.68
13:CM:72:ALA:HB2	27:DG:112:ARG:CG	2.22	0.68
28:DH:160:LYS:HD3	28:DH:160:LYS:H	1.57	0.68
34:DN:62:GLY:C	43:DW:112:LEU:HB2	2.13	0.68
1:EA:116:A:H2'	1:EA:116:A:N3	2.08	0.68
1:EA:243:A:C8	17:EQ:99:SER:CB	2.77	0.68
1:EA:1060:C:P	3:EC:2:GLY:C	2.70	0.68
4:ED:57:ARG:HH22	5:EE:111:GLU:CD	1.95	0.68
1:EA:1185:G:H2'	9:EI:110:GLU:CG	2.24	0.68
1:EA:689:C:H6	11:EK:51:LYS:HZ1	1.41	0.68
14:EN:57:ARG:HG2	14:EN:58:LYS:H	1.58	0.68
1:EA:808:C:OP2	15:EO:48:LYS:CD	2.40	0.68
20:ET:30:LYS:HA	20:ET:33:ILE:HD12	1.74	0.68
22:FB:2265:A:C2'	49:F3:31:THR:CG2	2.69	0.68
22:FB:1265:G:N1	38:FR:37:GLN:CB	2.15	0.68
22:FB:1483:G:O6	22:FB:1539:U:O4	2.09	0.68
22:FB:1585:A:C8	22:FB:1587:A:N6	2.61	0.68
22:FB:1752:U:C3'	22:FB:1753:A:O5'	2.38	0.68
22:FB:1992:G:H5''	40:FT:62:ARG:HB2	1.76	0.68
22:FB:2238:G:N7	44:FX:12:ASN:OD1	2.26	0.68
22:FB:2628:C:O4'	32:FL:28:GLY:CA	2.33	0.68
22:FB:346:C:C2	42:FV:79:SER:HB2	2.04	0.68
22:FB:934:G:H22	44:FX:25:LYS:HG3	1.58	0.68
24:FD:226:MET:HA	24:FD:234:GLY:HA3	1.75	0.68
25:FE:17:ASN:HA	37:FQ:87:LEU:HD12	1.74	0.68
27:FG:125:ARG:HB2	27:FG:127:ASN:ND2	2.09	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:FU:7:LEU:HG	41:FU:42:ILE:HG13	1.75	0.68
43:FW:3:LEU:HD22	43:FW:34:LEU:HD11	1.75	0.68
43:FW:67:LYS:N	43:FW:93:GLU:CD	2.41	0.68
1:CA:1273:G:C1'	1:GA:1265:G:OP1	2.41	0.68
1:GA:925:G:H21	1:GA:1502:A:C3'	2.03	0.68
10:GJ:11:PHE:HE1	14:GN:54:PRO:CB	2.01	0.68
1:GA:35:G:N9	12:GL:117:ARG:O	2.27	0.68
22:HB:418:C:H3'	53:H7:191:GLU:HG2	1.73	0.68
22:HB:2337:A:C2	51:H5:52:LYS:CG	2.73	0.68
22:HB:2553:G:N2	25:HE:142:GLY:O	2.26	0.68
22:HB:683:A:OP1	33:HM:46:GLY:HA3	1.94	0.68
22:HB:918:A:OP1	43:HW:118:HIS:CD2	2.47	0.68
27:HG:125:ARG:HB2	27:HG:127:ASN:ND2	2.09	0.68
1:IA:657:G:N3	15:IO:23:GLY:CA	2.49	0.68
1:IA:687:A:H61	1:IA:701:C:H5'	1.56	0.68
1:IA:958:A:C1'	19:IS:55:LYS:HD3	2.23	0.68
6:IF:2:ARG:HH11	15:IO:2:PRO:HB3	1.57	0.68
9:II:13:ALA:HB2	9:II:68:GLY:HA3	1.74	0.68
1:IA:1125:U:C4	10:IJ:5:ARG:NH2	2.61	0.68
7:IG:153:HIS:CE1	11:IK:93:GLN:NE2	2.61	0.68
1:IA:1228:C:C5	13:IM:104:ARG:CG	2.77	0.68
14:IN:57:ARG:HG2	14:IN:58:LYS:H	1.59	0.68
10:IJ:63:PHE:HA	14:IN:58:LYS:HA	1.75	0.68
17:IQ:60:ILE:HD13	17:IQ:61:GLU:N	2.08	0.68
18:IR:51:LEU:HD13	18:IR:56:THR:HA	1.76	0.68
22:JB:15:G:O3'	48:J2:17:ASP:O	2.10	0.68
53:J7:32:ILE:HG23	53:J7:167:VAL:H	1.56	0.68
22:JB:1268:U:OP2	26:JF:68:ARG:CG	2.41	0.68
22:JB:122:G:OP1	22:JB:1388:C:O2'	2.11	0.68
22:JB:1763:G:H21	22:JB:1765:C:H5'	1.59	0.68
22:JB:672:C:O4'	26:JF:95:LEU:N	2.26	0.68
25:JE:92:ASN:HD21	25:JE:175:ILE:HD11	1.58	0.68
1:AA:276:G:O2'	17:AQ:43:LEU:CD1	2.37	0.68
1:AA:60:A:C8	20:AT:11:SER:HB3	2.23	0.68
2:AB:16:HIS:NE2	2:AB:214:ILE:HD13	2.07	0.68
7:AG:64:GLN:HE21	7:AG:68:ASN:ND2	1.90	0.68
1:AA:1382:C:H5'	7:AG:79:ARG:CG	2.21	0.68
1:AA:1372:U:OP1	9:AI:72:GLY:N	2.27	0.68
10:AJ:65:LEU:HA	14:AN:55:GLY:O	1.93	0.68
22:BB:1401:G:C2	22:BB:1412:C:N3	2.61	0.68
22:BB:6:A:C4'	31:BK:162:LYS:HE2	2.24	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:BB:1108:U:O2	30:BJ:8:VAL:HG13	1.94	0.68
32:BL:73:VAL:HG21	32:BL:99:ILE:HB	1.75	0.68
34:BN:106:GLU:HG2	43:BW:114:ASP:C	2.11	0.68
1:CA:1230:C:H2'	13:CM:126:LYS:CE	2.23	0.68
1:CA:1248:A:H2'	1:CA:1248:A:N3	2.08	0.68
1:CA:1320:C:O2	19:CS:72:GLY:O	2.11	0.68
1:CA:1347:G:C3'	9:CI:108:VAL:O	2.41	0.68
8:CH:124:ALA:HB1	8:CH:129:VAL:HG21	1.74	0.68
10:CJ:11:PHE:CE1	14:CN:54:PRO:O	2.47	0.68
12:CL:5:PRO:HA	12:CL:10:LEU:HA	1.75	0.68
53:D7:104:ALA:HB1	53:D7:128:LEU:HD11	1.74	0.68
22:DB:1007:A:H4'	38:DR:93:LYS:O	1.93	0.68
22:DB:1044:U:H5	52:D6:16:VAL:CG1	2.03	0.68
22:DB:2419:C:H5''	22:DB:2566:A:H1'	1.76	0.68
22:DB:308:C:C5'	42:DV:93:ARG:CZ	2.50	0.68
22:DB:1804:U:C1'	24:DD:46:ARG:HB3	2.20	0.68
25:DE:47:VAL:HG22	25:DE:79:ARG:HG2	1.75	0.68
27:DG:117:ILE:HB	27:DG:177:PHE:HA	1.75	0.68
31:DK:147:ARG:H	31:DK:147:ARG:HD2	1.58	0.68
22:DB:2628:C:O2'	32:DL:29:ILE:CD1	2.41	0.68
22:DB:589:C:C4'	38:DR:33:ARG:HG3	2.17	0.68
22:DB:546:A:H5'	38:DR:57:PHE:CE1	2.28	0.68
22:DB:1630:A:C6	40:DT:109:ARG:N	2.62	0.68
42:DV:23:ILE:HG22	42:DV:24:VAL:H	1.59	0.68
1:EA:1058:G:P	3:EC:154:SER:HA	2.33	0.68
1:EA:588:G:N7	8:EH:1:MET:SD	2.66	0.68
3:EC:18:TRP:CZ2	14:EN:53:LEU:CG	2.60	0.68
1:EA:598:U:HO2'	8:EH:95:VAL:CG2	1.99	0.68
9:EI:13:ALA:HB2	9:EI:68:GLY:HA3	1.74	0.68
13:EM:88:ARG:O	13:EM:92:HIS:CE1	2.46	0.68
6:EF:48:LEU:CB	18:ER:77:GLY:O	2.39	0.68
22:FB:1289:A:N1	35:FO:23:ALA:HB1	2.08	0.68
22:FB:1636:G:O4'	50:F4:1:MET:CE	2.42	0.68
22:FB:1743:C:H5'	22:FB:2836:U:O3'	1.94	0.68
22:FB:2419:C:H5''	22:FB:2566:A:H1'	1.76	0.68
22:FB:2638:G:O5'	28:FH:179:THR:CA	2.38	0.68
22:FB:2714:A:N7	22:FB:2750:G:N3	2.41	0.68
31:FK:147:ARG:HD2	31:FK:147:ARG:H	1.58	0.68
32:FL:76:ARG:HH21	32:FL:90:ARG:NH1	1.92	0.68
22:FB:1164:C:O4'	38:FR:77:SER:HB2	1.94	0.68
43:FW:51:LEU:CD2	43:FW:129:ARG:O	2.41	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:FW:18:MET:H	43:FW:36:ARG:HH12	1.41	0.68
1:GA:1367:C:C6	9:GI:112:LYS:NZ	2.45	0.68
1:GA:951:G:N9	13:GM:126:LYS:HA	2.08	0.68
2:GB:166:ASP:HB3	2:GB:169:LYS:HB3	1.75	0.68
4:GD:104:VAL:HA	4:GD:107:ARG:HB2	1.75	0.68
7:GG:153:HIS:CE1	11:GK:59:TYR:CG	2.75	0.68
7:GG:27:ILE:HA	7:GG:30:ILE:HD12	1.74	0.68
10:GJ:51:ARG:HH21	10:GJ:61:GLU:HB2	1.59	0.68
11:GK:123:LYS:H	11:GK:123:LYS:HD3	1.59	0.68
22:HB:2309:G:C4'	44:HX:71:ASN:HD21	2.06	0.68
22:HB:2786:G:H4'	25:HE:61:LYS:HD2	1.75	0.68
22:HB:2814:G:H4'	35:HO:45:ARG:CB	2.20	0.68
22:HB:891:A:H2	22:HB:893:G:N2	1.91	0.68
27:HG:108:LEU:HA	27:HG:114:PHE:HD2	1.59	0.68
22:HB:1148:G:H4'	31:HK:133:GLY:CA	2.24	0.68
31:HK:147:ARG:HD2	31:HK:147:ARG:H	1.58	0.68
22:HB:9:U:OP1	31:HK:36:ASN:N	2.24	0.68
1:IA:532:A:C4	1:IA:1207:G:H4'	2.29	0.68
1:IA:1100:C:C2'	2:IB:98:LEU:CD2	2.70	0.68
4:ID:59:ARG:HH22	4:ID:66:ARG:HD2	1.57	0.68
1:IA:1186:G:C1'	9:II:113:LYS:HZ1	2.06	0.68
10:IJ:51:ARG:HH21	10:IJ:61:GLU:HB2	1.59	0.68
13:IM:72:ALA:HB1	27:JG:115:ARG:NH1	2.08	0.68
22:JB:157:G:OP1	50:J4:29:ASN:ND2	2.26	0.68
22:JB:1088:A:H5'	30:JJ:92:ASN:HB2	1.75	0.68
22:JB:1743:C:H5'	22:JB:2836:U:O3'	1.93	0.68
22:JB:1741:G:C2	22:JB:2835:A:C2	2.82	0.68
22:JB:468:A:OP1	41:JU:69:ILE:HG13	1.93	0.68
22:JB:787:A:O3'	22:JB:790:A:H1'	1.94	0.68
30:JJ:54:PRO:HD2	30:JJ:72:PRO:HG3	1.75	0.68
22:JB:969:U:C4	34:JN:21:ASP:CA	2.77	0.68
1:IA:1463:C:H5'	37:JQ:117:ILE:HG12	1.75	0.68
22:JB:1265:G:H21	38:JR:32:TYR:HD1	1.40	0.68
1:AA:1379:G:OP2	7:AG:6:ARG:CZ	2.42	0.68
1:AA:668:G:N9	15:AO:46:HIS:HA	2.07	0.68
9:AI:10:ARG:NH2	9:AI:11:LYS:HB2	2.08	0.68
1:AA:1187:G:C2	14:AN:60:SER:O	2.47	0.68
23:BA:44:C:H4'	27:BG:63:GLN:O	1.94	0.68
22:BB:1169:C:H5'	46:BZ:27:LYS:NZ	2.08	0.68
22:BB:1377:G:C3'	47:B1:3:LYS:HZ3	2.06	0.68
22:BB:1436:G:N3	22:BB:1508:G:C2	2.61	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:BB:2261:G:H5'	22:BB:2368:G:H1'	1.76	0.68
22:BB:3122:U:H5''	53:B7:160:LYS:NZ	2.08	0.68
22:BB:3127:G:H4'	53:B7:24:ARG:HH12	1.56	0.68
22:BB:756:C:OP1	25:BE:130:GLY:HA2	1.94	0.68
25:BE:176:ARG:NH1	37:BQ:16:ILE:N	2.41	0.68
25:BE:26:VAL:CG2	37:BQ:3:THR:HG23	2.22	0.68
22:BB:828:C:OP2	39:BS:84:THR:HG22	1.94	0.68
43:BW:154:LEU:HD22	43:BW:155:PRO:HD2	1.74	0.68
1:CA:1382:C:H4'	7:CG:79:ARG:NE	2.08	0.68
1:CA:753:A:N3	8:CH:1:MET:CA	2.56	0.68
1:CA:529:G:N7	12:CL:48:PRO:CG	2.56	0.68
22:DB:1829:C:C6	22:DB:1911:A:O2'	2.47	0.68
22:DB:2039:G:N9	48:D2:5:PRO:CD	2.40	0.68
22:DB:2292:C:H5'	27:DG:87:ILE:HD11	1.73	0.68
22:DB:2645:C:N1	28:DH:109:TYR:CE2	2.48	0.68
22:DB:2823:G:H1'	22:DB:2843:A:N6	2.08	0.68
22:DB:338:G:H5'	42:DV:9:HIS:CD2	2.29	0.68
22:DB:787:A:O3'	22:DB:790:A:H1'	1.94	0.68
22:DB:2218:G:O3'	24:DD:230:ASP:CA	2.42	0.68
37:DQ:40:ARG:HH22	37:DQ:50:PHE:HB3	1.57	0.68
43:DW:100:THR:HB	43:DW:114:ASP:HB3	1.74	0.68
4:ED:61:LYS:HD3	4:ED:206:PHE:HE2	1.59	0.68
8:EH:51:VAL:HG12	8:EH:52:ASP:H	1.59	0.68
11:EK:123:LYS:H	11:EK:123:LYS:HD3	1.59	0.68
22:FB:1307:U:O2'	35:FO:26:THR:HG21	1.94	0.68
22:FB:156:G:C2'	22:FB:157:G:C8	2.58	0.68
22:FB:2398:U:H2'	22:FB:2399:C:C6	2.29	0.68
22:FB:2725:C:O2'	28:FH:138:LYS:C	2.30	0.68
22:FB:533:C:H4'	22:FB:550:C:H1'	1.74	0.68
22:FB:68:C:H5'	22:FB:111:G:H21	1.57	0.68
22:FB:742:G:C5	24:FD:208:LYS:CE	2.77	0.68
22:FB:787:A:O3'	22:FB:790:A:H1'	1.94	0.68
22:FB:861:G:H1'	22:FB:944:A:H2'	1.76	0.68
22:FB:2282:G:N3	27:FG:129:ASN:CG	2.47	0.68
43:FW:84:TYR:CB	43:FW:93:GLU:CB	2.68	0.68
1:GA:36:C:H5'	12:GL:122:THR:OG1	1.94	0.68
7:GG:64:GLN:HE21	7:GG:68:ASN:ND2	1.91	0.68
8:GH:18:ARG:HH22	8:GH:83:ILE:HG22	1.59	0.68
1:GA:108:G:O6	20:GT:15:ARG:HD2	1.90	0.68
22:HB:2063:A:O3'	47:H1:33:VAL:HG22	1.94	0.68
22:HB:124:A:N7	50:H4:45:SER:CB	2.56	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:HB:1727:C:H4'	22:HB:2833:C:O2	1.94	0.68
22:HB:1884:A:C2	24:HD:244:ARG:CD	2.62	0.68
22:HB:1888:C:H2'	22:HB:1913:G:N7	2.09	0.68
22:HB:2336:G:H1'	22:HB:2339:A:N6	2.09	0.68
22:HB:2551:A:OP1	25:HE:144:ARG:CB	2.40	0.68
22:HB:2823:G:H1'	22:HB:2843:A:N6	2.08	0.68
22:HB:222:G:H21	22:HB:397:U:H1'	1.58	0.68
22:HB:461:A:OP1	26:HF:79:GLY:N	2.27	0.68
22:HB:504:G:H1'	40:HT:26:ALA:CA	2.22	0.68
22:HB:64:C:N3	22:HB:88:G:C2	2.61	0.68
22:HB:787:A:O3'	22:HB:790:A:H1'	1.94	0.68
22:HB:1582:A:HO2'	24:HD:215:LEU:HB3	1.54	0.68
25:HE:144:ARG:HH21	25:HE:146:THR:N	1.92	0.68
30:HJ:125:ASN:HD22	30:HJ:126:THR:H	1.39	0.68
1:GA:1462:G:H5''	37:HQ:121:ARG:CZ	2.24	0.68
37:HQ:40:ARG:HH22	37:HQ:50:PHE:HB3	1.58	0.68
39:HS:69:ILE:HD11	39:HS:88:GLN:HE21	1.59	0.68
22:HB:503:G:N2	40:HT:74:SER:CB	2.53	0.68
41:HU:7:LEU:HG	41:HU:42:ILE:HG13	1.74	0.68
22:HB:917:U:C3'	43:HW:118:HIS:HD2	2.07	0.68
1:IA:1014:A:OP2	19:IS:18:LYS:NZ	2.25	0.68
1:IA:690:G:OP1	11:IK:27:ASN:HB3	1.94	0.68
1:IA:720:C:O4'	18:IR:50:ILE:HB	1.92	0.68
22:JB:1003:C:OP1	38:JR:47:TYR:OH	2.09	0.68
22:JB:2043:A:C8	26:JF:62:LYS:CE	2.70	0.68
22:JB:3103:A:H5'	53:J7:37:LYS:HD2	1.74	0.68
27:JG:127:ASN:HB3	27:JG:157:VAL:HG13	1.75	0.68
43:JW:6:LYS:H	43:JW:7:PRO:HD2	1.58	0.68
45:JY:18:ILE:HG12	45:JY:50:VAL:HG21	1.74	0.68
22:JB:93:A:C5	45:JY:41:HIS:CD2	2.81	0.68
1:AA:669:U:OP2	15:AO:48:LYS:NZ	2.26	0.68
8:AH:35:ILE:HG23	8:AH:38:ILE:HD12	1.73	0.68
9:AI:43:ALA:HA	9:AI:74:ILE:HD13	1.76	0.68
10:AJ:51:ARG:HH21	10:AJ:61:GLU:HB2	1.59	0.68
16:AP:56:ALA:HA	16:AP:59:TRP:NE1	2.07	0.68
22:BB:187:U:C5'	50:B4:26:SER:HG	1.93	0.68
22:BB:1325:U:C4	41:BU:61:LYS:CB	2.70	0.68
22:BB:1312:G:H1'	22:BB:1659:G:H22	1.59	0.68
22:BB:2823:G:H1'	22:BB:2843:A:N6	2.08	0.68
22:BB:222:G:H21	22:BB:397:U:H1'	1.58	0.68
22:BB:787:A:O3'	22:BB:790:A:H1'	1.94	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:BB:677:G:H4'	22:BB:951:G:C5'	2.23	0.68
25:BE:13:GLN:OE1	37:BQ:17:GLU:OE2	2.11	0.68
22:BB:319:G:P	40:BT:12:LYS:CG	2.81	0.68
22:BB:2334:C:C4'	44:BX:32:LYS:HD2	2.22	0.68
1:CA:1187:G:O5'	9:CI:113:LYS:CE	2.42	0.68
1:CA:1227:A:O2'	13:CM:117:VAL:HG13	1.93	0.68
9:CI:3:GLN:HG2	9:CI:21:PRO:HD3	1.75	0.68
9:CI:43:ALA:HA	9:CI:74:ILE:HD13	1.76	0.68
1:CA:1015:A:OP1	19:CS:14:HIS:HB2	1.93	0.68
1:CA:332:G:H1'	20:CT:13:LEU:HG	1.74	0.68
49:D3:43:VAL:HG23	49:D3:44:ALA:H	1.59	0.68
22:DB:1006:C:O2	38:DR:57:PHE:CD2	2.38	0.68
22:DB:1834:G:C2'	24:DD:244:ARG:CG	2.56	0.68
22:DB:1883:A:C8	22:DB:1953:A:C5	2.82	0.68
22:DB:540:G:N7	22:DB:2019:C:OP1	2.26	0.68
22:DB:2288:A:H62	27:DG:77:PHE:HZ	1.38	0.68
32:DL:113:PRO:HD3	37:DQ:75:GLU:C	2.14	0.68
32:DL:76:ARG:HH21	32:DL:90:ARG:NH1	1.92	0.68
41:DU:88:ILE:HG23	41:DU:89:GLU:N	2.09	0.68
34:DN:38:MET:HB3	43:DW:74:ARG:HD2	1.53	0.68
1:EA:1310:G:C8	19:ES:2:PRO:CD	2.71	0.68
1:EA:392:G:C5'	16:EP:13:HIS:CB	2.69	0.68
7:EG:38:LEU:HG	7:EG:42:ILE:HD11	1.75	0.68
1:EA:707:C:H5''	11:EK:85:ARG:NH2	2.09	0.68
13:EM:19:LEU:HD11	13:EM:34:LEU:HD11	1.74	0.68
22:FB:1828:C:C2	22:FB:1912:G:H5''	2.28	0.68
22:FB:538:A:C8	31:FK:139:ARG:CZ	2.55	0.68
27:FG:127:ASN:HB3	27:FG:157:VAL:HG22	1.76	0.68
22:FB:2283:G:N3	27:FG:153:ASP:CG	2.46	0.68
30:FJ:125:ASN:HD22	30:FJ:126:THR:H	1.40	0.68
31:FK:122:HIS:H	31:FK:123:PRO:HD2	1.57	0.68
35:FO:114:GLU:HG2	35:FO:115:LEU:H	1.58	0.68
22:FB:1000:G:P	46:FZ:9:VAL:HG21	2.30	0.68
1:GA:1360:A:P	14:GN:21:TYR:HB3	2.32	0.68
2:GB:178:ARG:HH12	2:GB:183:PRO:HG3	1.59	0.68
4:GD:61:LYS:HD3	4:GD:206:PHE:HE2	1.59	0.68
1:GA:1115:C:C1'	14:GN:61:TRP:CD1	2.76	0.68
16:GP:56:ALA:HA	16:GP:59:TRP:NE1	2.07	0.68
1:GA:273:A:C1'	17:GQ:15:MET:HA	2.23	0.68
1:GA:266:G:C5'	17:GQ:66:SER:HB3	2.24	0.68
22:HB:1376:C:C4	47:H1:3:LYS:HA	2.23	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:HB:1401:G:N2	22:HB:1413:U:C2	2.61	0.68
22:HB:1995:G:OP2	40:HT:120:ARG:CB	2.32	0.68
22:HB:226:C:H2'	22:HB:2373:C:H1'	1.75	0.68
22:HB:2419:C:H5''	22:HB:2566:A:H1'	1.76	0.68
22:HB:2769:C:C2	22:HB:2867:G:N2	2.62	0.68
22:HB:3166:G:O5'	53:H7:98:ARG:HG2	1.93	0.68
22:HB:922:A:C2	22:HB:2244:C:O4'	2.46	0.68
22:HB:2764:U:C4'	25:HE:36:ARG:HH22	2.05	0.68
28:HH:160:LYS:HD3	28:HH:160:LYS:H	1.57	0.68
22:HB:648:A:P	33:HM:131:LYS:CE	2.81	0.68
43:HW:84:TYR:CD2	43:HW:128:ARG:NH1	2.61	0.68
1:IA:1112:C:N3	3:IC:177:THR:OG1	2.22	0.68
1:IA:1462:G:H4'	37:JQ:121:ARG:HH22	0.75	0.68
1:IA:28:G:O2'	1:IA:296:U:H5'	1.94	0.68
3:IC:69:HIS:HB3	3:IC:106:VAL:HG22	1.74	0.68
3:IC:23:TYR:CE2	10:IJ:93:GLY:O	2.26	0.68
1:IA:673:G:C3'	6:IF:87:ARG:NH2	2.57	0.68
7:IG:17:VAL:HG21	9:II:41:VAL:HG22	1.74	0.68
7:IG:27:ILE:HA	7:IG:30:ILE:HD12	1.74	0.68
8:IH:51:VAL:HG12	8:IH:52:ASP:H	1.59	0.68
1:IA:1186:G:C1'	9:II:113:LYS:HZ3	2.07	0.68
22:JB:16:G:C5'	48:J2:17:ASP:HB2	0.73	0.68
49:J3:43:VAL:HG23	49:J3:44:ALA:H	1.59	0.68
22:JB:1203:A:O2'	33:JM:37:GLN:NE2	2.25	0.68
22:JB:521:U:H4'	22:JB:1248:G:H4'	1.74	0.68
22:JB:1888:C:O2	22:JB:1913:G:C6	2.47	0.68
22:JB:2336:G:H1'	22:JB:2339:A:N6	2.09	0.68
22:JB:10:A:C6	22:JB:2608:A:C4	2.82	0.68
22:JB:2786:G:O4'	25:JE:61:LYS:CE	2.42	0.68
22:JB:3124:G:H5''	53:J7:61:ALA:O	1.92	0.68
22:JB:633:G:H3'	33:JM:98:LEU:HD21	1.68	0.68
22:JB:73:A:OP1	45:JY:48:ARG:CD	2.42	0.68
22:JB:856:A:C2	22:JB:946:U:C2	2.81	0.68
22:JB:646:C:OP2	33:JM:127:ALA:HB3	1.93	0.68
37:JQ:36:ASP:CG	37:JQ:37:THR:H	1.96	0.68
22:JB:1260:A:H4'	38:JR:2:PRO:CD	2.24	0.68
26:JF:86:PRO:HG2	38:JR:2:PRO:HB3	0.80	0.68
34:JN:32:ASP:OD2	43:JW:116:VAL:C	2.31	0.68
43:JW:51:LEU:HD22	43:JW:128:ARG:HD3	1.73	0.68
1:AA:558:G:H5''	5:AE:121:LYS:NZ	2.08	0.68
1:AA:560:U:N3	5:AE:88:LYS:NZ	2.38	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:702:A:N3	22:BB:1839:A:H4'	2.09	0.68
1:AA:1376:U:O3'	7:AG:95:ARG:NH2	2.26	0.68
1:AA:981:U:HO2'	14:AN:31:ARG:HH12	1.42	0.68
1:AA:1013:G:O5'	19:AS:18:LYS:HD3	1.94	0.68
22:BB:1378:A:C5'	47:B1:11:PRO:HG2	2.23	0.68
22:BB:123:A:OP1	50:B4:14:LYS:CB	2.41	0.68
23:BA:106:U:O4'	43:BW:88:TYR:CE1	2.47	0.68
22:BB:127:C:O4'	22:BB:1360:G:C2	2.46	0.68
22:BB:2462:C:C1'	34:BN:50:ALA:CB	2.41	0.68
22:BB:686:C:O4'	26:BF:74:VAL:HG12	1.92	0.68
22:BB:2753:C:O2'	25:BE:163:GLU:CD	2.32	0.68
25:BE:18:ASP:CG	32:BL:84:ALA:O	2.32	0.68
22:BB:2766:U:C3'	25:BE:64:GLN:HB2	2.22	0.68
30:BJ:125:ASN:HD22	30:BJ:126:THR:H	1.39	0.68
31:BK:116:ARG:HH22	31:BK:126:VAL:HG11	1.59	0.68
25:BE:195:LEU:CD2	37:BQ:2:GLN:HE21	2.03	0.68
22:BB:1163:C:H4'	38:BR:80:ILE:HG13	1.76	0.68
43:BW:6:LYS:H	43:BW:7:PRO:HD2	1.58	0.68
1:CA:1221:G:H4'	19:CS:77:THR:OG1	1.93	0.68
1:CA:1229:A:H8	13:CM:119:GLY:C	1.95	0.68
1:CA:928:G:C4'	1:CA:1533:C:H41	1.99	0.68
4:CD:107:ARG:NH2	4:CD:114:ARG:HH21	1.92	0.68
1:CA:1187:G:N2	14:CN:60:SER:O	2.22	0.68
22:DB:51:A:N6	22:DB:115:G:H2'	2.08	0.68
22:DB:1163:C:P	38:DR:81:ASN:HB2	2.33	0.68
22:DB:1173:G:H4'	39:DS:23:GLU:CB	2.24	0.68
22:DB:1414:G:N2	22:DB:1484:G:N2	2.41	0.68
22:DB:1673:C:H2'	25:DE:136:ARG:HH21	1.59	0.68
22:DB:2398:U:H2'	22:DB:2399:C:C6	2.29	0.68
22:DB:2492:G:H3'	22:DB:2493:U:C6	2.28	0.68
22:DB:2611:A:N3	25:DE:61:LYS:HE3	2.04	0.68
22:DB:2725:C:C1'	28:DH:139:GLN:C	2.52	0.68
22:DB:2728:A:H1'	28:DH:67:LEU:CB	2.24	0.68
22:DB:642:A:H1'	33:DM:64:GLY:C	2.15	0.68
1:EA:1125:U:O4	10:EJ:5:ARG:CZ	2.42	0.68
1:EA:200:G:H22	1:EA:217:C:H42	1.39	0.68
1:EA:405:U:H5''	1:EA:406:G:H5'	1.76	0.68
1:EA:483:C:H3'	1:EA:484:G:H8	1.59	0.68
1:EA:599:C:H1'	8:EH:129:VAL:N	2.08	0.68
1:EA:613:C:O5'	4:ED:86:LYS:CE	2.31	0.68
9:EI:43:ALA:HA	9:EI:74:ILE:HD13	1.76	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:EA:632:A:H2'	17:EQ:30:PRO:HA	1.74	0.68
6:EF:49:ALA:HB3	18:ER:79:LEU:HA	1.72	0.68
49:F3:43:VAL:HG23	49:F3:44:ALA:H	1.59	0.68
22:FB:1290:A:O4'	35:FO:24:GLN:CG	2.42	0.68
22:FB:1312:G:H1'	22:FB:1659:G:H22	1.59	0.68
22:FB:2035:G:C5'	25:FE:142:GLY:C	2.61	0.68
22:FB:2261:G:H5'	22:FB:2368:G:H1'	1.76	0.68
22:FB:2745:A:C5	22:FB:2746:G:N9	2.62	0.68
22:FB:3866:A:N6	53:F7:45:ASP:HB2	2.09	0.68
22:FB:827:C:C5	33:FM:32:ARG:CZ	2.73	0.68
27:FG:108:LEU:HA	27:FG:114:PHE:HD2	1.59	0.68
32:FL:73:VAL:HG21	32:FL:99:ILE:HB	1.75	0.68
26:FF:28:HIS:ND1	33:FM:18:ARG:NH1	2.42	0.68
22:FB:2463:G:O2'	34:FN:121:LEU:CB	2.40	0.68
23:FA:10:U:O2'	36:FP:28:ARG:NH2	2.27	0.68
38:FR:15:LYS:HD3	38:FR:18:LEU:HB3	1.75	0.68
43:FW:6:LYS:H	43:FW:7:PRO:HD2	1.58	0.68
1:GA:28:G:O2'	1:GA:296:U:H5'	1.94	0.68
3:GC:73:PRO:HA	3:GC:105:GLU:HG3	1.75	0.68
1:GA:1192:C:P	3:GC:4:LYS:HZ3	2.16	0.68
4:GD:59:ARG:HH22	4:GD:66:ARG:HD2	1.57	0.68
3:GC:5:ILE:HG21	10:GJ:61:GLU:OE2	1.93	0.68
14:GN:57:ARG:HG2	14:GN:58:LYS:H	1.58	0.68
1:GA:750:G:O2'	15:GO:23:GLY:CA	2.42	0.68
1:AA:182:U:C5	20:GT:106:ALA:O	2.46	0.68
22:HB:1805:G:C2'	24:HD:52:ARG:NH1	2.56	0.68
22:HB:1828:C:C2	22:HB:1912:G:H5"	2.27	0.68
22:HB:2063:A:OP1	47:H1:20:VAL:CG2	2.22	0.68
22:HB:2525:U:C1'	22:HB:2544:A:N1	2.57	0.68
22:HB:2670:C:OP2	35:HO:17:ARG:NH2	2.22	0.68
22:HB:54:G:C2	22:HB:124:A:C2	2.81	0.68
22:HB:718:A:OP2	22:HB:738:G:O6	2.12	0.68
22:HB:7:G:C2	22:HB:2871:U:O2	2.47	0.68
22:HB:741:G:C3'	24:HD:17:THR:O	2.40	0.68
22:HB:1803:G:O2'	24:HD:46:ARG:CG	2.41	0.68
22:HB:539:A:OP2	31:HK:139:ARG:HG2	1.92	0.68
32:HL:76:ARG:HH21	32:HL:90:ARG:NH1	1.92	0.68
22:HB:2358:C:C5'	36:HP:19:THR:OG1	2.34	0.68
34:HN:68:ARG:CZ	43:HW:117:VAL:HG11	2.22	0.68
23:HA:69:G:C4'	43:HW:160:LEU:HD13	2.20	0.68
1:IA:1094:G:H5"	1:IA:1095:U:H5	1.58	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:IA:1151:A:OP1	10:IJ:44:VAL:HG23	1.94	0.68
1:IA:1236:A:H4'	1:IA:1304:G:H4'	1.74	0.68
2:IB:97:TRP:HB3	2:IB:172:ILE:HD12	1.76	0.68
1:IA:1057:G:P	3:IC:163:ALA:HB1	2.19	0.68
7:IG:17:VAL:HG22	9:II:41:VAL:HA	1.74	0.68
1:IA:1374:A:H2'	7:IG:29:LYS:HE3	1.76	0.68
12:IL:5:PRO:HA	12:IL:10:LEU:HA	1.75	0.68
1:IA:1226:C:H6	13:IM:104:ARG:N	1.91	0.68
3:IC:18:TRP:NE1	14:IN:52:GLN:N	2.41	0.68
1:IA:647:C:C5'	17:IQ:83:ASP:CG	2.60	0.68
19:IS:40:ILE:HB	19:IS:68:GLY:HA3	1.76	0.68
22:JB:2510:A:OP2	28:JH:174:GLY:C	2.06	0.68
22:JB:3167:U:C6	53:J7:98:ARG:HA	2.23	0.68
22:JB:778:G:OP1	24:JD:214:TRP:CZ3	2.46	0.68
22:JB:1508:G:P	24:JD:100:GLY:CA	2.81	0.68
22:JB:706:A:OP1	24:JD:60:ARG:NH1	2.27	0.68
25:JE:144:ARG:HH21	25:JE:146:THR:N	1.92	0.68
22:JB:2008:C:OP1	25:JE:147:PRO:CG	2.42	0.68
34:JN:24:GLY:HA3	34:JN:98:VAL:HB	1.76	0.68
22:JB:1265:G:C1'	38:JR:14:HIS:NE2	2.51	0.68
22:JB:1996:A:O2'	40:JT:115:ASN:HA	1.94	0.68
22:JB:1996:A:C4'	40:JT:117:ILE:N	2.45	0.68
41:JU:88:ILE:HG23	41:JU:89:GLU:N	2.09	0.68
1:AA:116:A:H2'	1:AA:116:A:N3	2.08	0.68
1:AA:1343:G:H4'	9:AI:122:ALA:HB2	1.75	0.68
1:AA:1372:U:O4	9:AI:109:VAL:CG2	2.42	0.68
1:AA:1495:U:H5'	22:BB:1895:A:N3	2.09	0.68
1:AA:1496:C:H1'	22:BB:1902:A:C2	2.28	0.68
1:AA:483:C:H3'	1:AA:484:G:H8	1.59	0.68
1:AA:986:A:H5'	19:AS:55:LYS:HE3	1.76	0.68
3:AC:58:GLU:HB3	10:AJ:92:THR:CB	2.24	0.68
10:AJ:64:GLU:OE1	14:AN:57:ARG:C	2.32	0.68
19:AS:40:ILE:HB	19:AS:68:GLY:HA3	1.75	0.68
22:BB:1378:A:C4'	47:B1:11:PRO:HG2	2.24	0.68
53:B7:213:VAL:HG12	53:B7:214:LYS:H	1.59	0.68
22:BB:115:G:C6	22:BB:117:A:C6	2.75	0.68
22:BB:1377:G:C3'	47:B1:3:LYS:NZ	2.57	0.68
22:BB:1486:A:H2	22:BB:1537:U:H3	1.39	0.68
22:BB:1841:G:H2'	22:BB:1842:G:H8	1.58	0.68
22:BB:879:A:H1'	22:BB:2298:U:O4	1.93	0.68
34:BN:29:ALA:HB3	43:BW:119:ASN:ND2	2.08	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:116:A:H2'	1:CA:116:A:N3	2.09	0.68
1:CA:545:C:P	4:CD:65:ARG:NH2	2.67	0.68
1:CA:780:A:O2'	1:CA:1523:G:C5'	2.40	0.68
2:CB:97:TRP:HB3	2:CB:172:ILE:HD12	1.76	0.68
22:DB:2062:U:O2'	47:D1:32:HIS:NE2	2.27	0.68
23:DA:77:G:N2	43:DW:22:VAL:HG23	2.08	0.68
22:DB:2654:A:O4'	32:DL:43:ARG:NH2	2.26	0.68
22:DB:2661:G:N3	25:DE:12:THR:OG1	2.26	0.68
22:DB:2750:G:N2	25:DE:204:ALA:HB1	2.08	0.68
22:DB:1673:C:C2	25:DE:136:ARG:NH2	2.62	0.68
22:DB:2007:G:H2'	31:DK:103:TYR:CE2	2.27	0.68
1:EA:1136:U:H1'	1:IA:1136:U:C4	2.29	0.68
1:EA:1374:A:O5'	7:EG:31:MET:HE1	1.94	0.68
1:EA:742:G:OP1	15:EO:58:MET:SD	2.52	0.68
3:EC:73:PRO:HA	3:EC:105:GLU:HG3	1.74	0.68
4:ED:107:ARG:NH2	4:ED:114:ARG:HH21	1.92	0.68
12:EL:5:PRO:HA	12:EL:10:LEU:HA	1.75	0.68
19:ES:40:ILE:HB	19:ES:68:GLY:HA3	1.76	0.68
22:FB:2328:G:C8	51:F5:42:ARG:HD2	2.29	0.68
22:FB:3124:G:N2	53:F7:209:MSE:CE	2.56	0.68
22:FB:1674:C:OP1	25:FE:134:TRP:CB	2.40	0.68
22:FB:2733:A:H1'	52:F6:15:LYS:HE2	1.74	0.68
22:FB:295:C:H42	22:FB:368:A:N6	1.92	0.68
22:FB:222:G:H21	22:FB:397:U:H1'	1.58	0.68
22:FB:51:A:N6	22:FB:115:G:H2'	2.08	0.68
22:FB:742:G:C8	24:FD:208:LYS:CE	2.76	0.68
22:FB:88:G:N2	41:FU:65:VAL:CG2	2.47	0.68
23:FA:44:C:H4'	27:FG:64:LYS:HE3	1.75	0.68
22:FB:2372:A:C3'	33:FM:60:LEU:H	2.06	0.68
33:FM:64:GLY:O	51:F5:11:LYS:HB3	1.94	0.68
22:FB:1291:G:C5'	35:FO:35:GLN:N	2.57	0.68
23:FA:117:G:O2'	36:FP:53:ALA:CB	2.42	0.68
22:FB:455:A:HO2'	38:FR:2:PRO:N	1.91	0.68
38:FR:47:TYR:HB2	39:FS:74:TYR:CA	2.24	0.68
38:FR:91:ASN:OD1	39:FS:10:LYS:HE2	1.94	0.68
41:FU:88:ILE:HG23	41:FU:89:GLU:N	2.09	0.68
1:GA:1094:G:H5''	1:GA:1095:U:C5	2.29	0.68
1:GA:1146:A:H2	9:GI:5:TYR:OH	1.77	0.68
1:GA:26:A:N6	4:GD:209:ARG:HH22	1.91	0.68
1:GA:402:G:H5'	1:GA:621:A:H1'	1.75	0.68
2:GB:50:GLU:HG3	2:GB:200:ILE:HB	1.76	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:GK:84:VAL:HB	11:GK:110:ASP:HA	1.74	0.68
10:GJ:49:VAL:O	14:GN:45:ARG:HD2	1.94	0.68
1:GA:658:G:H5''	15:GO:8:LYS:CE	2.24	0.68
20:GT:30:LYS:HA	20:GT:33:ILE:HD12	1.74	0.68
22:HB:1042:G:O3'	52:H6:8:LYS:HA	1.93	0.68
22:HB:1260:A:O3'	38:HR:2:PRO:CB	2.41	0.68
22:HB:1487:C:C4	22:HB:1536:G:O6	2.47	0.68
22:HB:592:G:O2'	38:HR:5:LYS:CE	2.42	0.68
22:HB:813:A:N3	22:HB:813:A:H2'	2.08	0.68
22:HB:510:G:C2'	40:HT:16:GLN:HE22	2.06	0.68
22:HB:489:A:H4'	42:HV:5:SER:HA	0.74	0.68
42:HV:90:LYS:HG3	42:HV:110:SER:HB3	1.75	0.68
1:IA:33:A:H1'	12:IL:32:PHE:HE2	1.54	0.68
1:IA:51:A:H1'	1:IA:353:A:N6	2.06	0.68
1:IA:954:G:O2'	13:IM:123:ALA:CB	2.41	0.68
7:IG:49:ILE:HG12	7:IG:53:LYS:HZ3	1.59	0.68
22:JB:1236:G:O6	39:JS:73:LYS:CE	2.42	0.68
22:JB:2343:C:O2'	44:JX:66:LYS:NZ	2.19	0.68
22:JB:2419:C:H5''	22:JB:2566:A:H1'	1.76	0.68
22:JB:10:A:C5	22:JB:2608:A:C4	2.82	0.68
22:JB:2764:U:C5'	25:JE:36:ARG:HH22	2.07	0.68
22:JB:82:G:H21	22:JB:101:A:H62	1.40	0.68
24:JD:177:LEU:HD21	24:JD:183:ARG:HH21	1.57	0.68
22:JB:1999:U:OP1	26:JF:65:GLY:N	2.26	0.68
31:JK:122:HIS:H	31:JK:123:PRO:HD2	1.57	0.68
31:JK:46:ALA:HB3	31:JK:83:ILE:HB	1.74	0.68
38:JR:88:ILE:H	39:JS:51:ALA:HB3	1.57	0.68
41:JU:15:LYS:HA	41:JU:18:SER:HB3	1.76	0.68
22:JB:309:G:OP1	42:JV:93:ARG:O	2.12	0.68
34:JN:107:VAL:CG2	43:JW:115:ILE:HD11	2.23	0.68
43:JW:3:LEU:HD22	43:JW:34:LEU:HD11	1.75	0.68
1:AA:1374:A:C8	7:AG:31:MET:CE	2.76	0.68
1:AA:16:A:H1'	5:AE:17:ALA:C	2.06	0.68
1:AA:335:C:H5'	1:AA:1434:A:O2'	1.94	0.68
1:AA:405:U:H5''	1:AA:406:G:H5'	1.76	0.68
3:AC:132:ARG:HH22	4:AD:47:ARG:NH2	1.92	0.68
8:AH:18:ARG:HH22	8:AH:83:ILE:HG22	1.59	0.68
11:AK:123:LYS:H	11:AK:123:LYS:HD3	1.59	0.68
12:AL:5:PRO:HA	12:AL:10:LEU:HA	1.74	0.68
6:AF:49:ALA:HB2	18:AR:78:LEU:O	1.94	0.68
49:B3:43:VAL:HG23	49:B3:44:ALA:H	1.59	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:BA:77:G:H22	23:BA:105:G:N2	1.90	0.68
22:BB:1436:G:N2	22:BB:1508:G:C4	2.51	0.68
22:BB:540:G:C4	22:BB:2018:G:H5'	2.29	0.68
22:BB:2398:U:H2'	22:BB:2399:C:C6	2.29	0.68
22:BB:2470:U:N3	22:BB:2548:G:C3'	2.57	0.68
22:BB:1670:G:P	22:BB:2797:G:O6	2.52	0.68
22:BB:295:C:H42	22:BB:368:A:N6	1.92	0.68
22:BB:494:A:N3	42:BV:56:LYS:CB	2.56	0.68
22:BB:543:G:C2	22:BB:570:G:C2	2.82	0.68
22:BB:7:G:H5'	31:BK:161:GLN:CD	2.10	0.68
40:BT:67:PRO:HA	40:BT:71:VAL:HG23	1.76	0.68
41:BU:88:ILE:HG23	41:BU:89:GLU:N	2.09	0.68
22:BB:2334:C:H4'	44:BX:21:LEU:HG	0.68	0.68
1:CA:1104:G:O2'	2:CB:111:ARG:CZ	2.41	0.68
1:CA:1230:C:C2	13:CM:126:LYS:HG3	2.29	0.68
1:CA:1392:G:H4'	1:CA:1531:A:H5''	1.75	0.68
1:CA:483:C:H3'	1:CA:484:G:H8	1.59	0.68
4:CD:61:LYS:HD3	4:CD:206:PHE:HE2	1.59	0.68
17:CQ:60:ILE:HD13	17:CQ:61:GLU:N	2.08	0.68
1:CA:673:G:H1'	18:CR:75:ILE:HG12	1.73	0.68
22:DB:15:G:H21	48:D2:18:MET:CG	2.07	0.68
51:D5:28:GLY:H	51:D5:30:ARG:HH22	1.42	0.68
22:DB:2462:C:O2'	34:DN:50:ALA:HB3	1.90	0.68
22:DB:2492:G:C8	22:DB:2493:U:O4	2.47	0.68
22:DB:2767:C:O2'	22:DB:2785:A:N3	2.27	0.68
22:DB:2795:A:H8	25:DE:192:ASN:CB	2.07	0.68
22:DB:678:G:H5''	33:DM:38:LYS:HE3	1.75	0.68
22:DB:916:U:H6	43:DW:163:ASP:N	1.90	0.68
22:DB:1782:A:C2	24:DD:21:PHE:CZ	2.82	0.68
37:DQ:70:LYS:N	37:DQ:71:ILE:HD12	2.07	0.68
22:DB:529:U:H5'	40:DT:39:ARG:HD3	1.76	0.68
43:DW:6:LYS:H	43:DW:7:PRO:HD2	1.58	0.68
34:DN:99:LYS:CD	43:DW:73:LYS:HZ2	1.96	0.68
4:ED:104:VAL:HA	4:ED:107:ARG:HB2	1.75	0.68
1:EA:392:G:H4'	16:EP:13:HIS:HD2	1.58	0.68
18:ER:51:LEU:HD13	18:ER:56:THR:HA	1.76	0.68
22:FB:2265:A:C2	49:F3:31:THR:HB	2.29	0.68
53:F7:213:VAL:HG12	53:F7:214:LYS:H	1.59	0.68
22:FB:1269:G:N3	26:FF:76:THR:CB	2.57	0.68
22:FB:156:G:C2'	22:FB:157:G:H8	1.89	0.68
22:FB:219:G:C5'	51:F5:5:LYS:NZ	2.57	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:FB:2616:U:H5''	25:FE:81:PHE:HE1	1.53	0.68
22:FB:2823:G:H1'	22:FB:2843:A:N6	2.08	0.68
22:FB:792:U:H2'	22:FB:793:G:O4'	1.94	0.68
22:FB:2687:G:C5'	35:FO:65:LEU:HD13	2.24	0.68
22:FB:497:C:H1'	40:FT:82:ASN:HD21	1.59	0.68
22:FB:63:A:C6	41:FU:64:ARG:NE	2.62	0.68
43:FW:86:VAL:HG13	43:FW:92:VAL:O	1.94	0.68
1:GA:1094:G:H5''	1:GA:1095:U:H5	1.58	0.68
1:GA:18:C:C5'	5:GE:130:ASN:ND2	2.54	0.68
1:GA:16:A:H5'	5:GE:15:ARG:HB3	1.69	0.68
1:GA:1248:A:O2'	9:GI:70:LYS:HE3	1.94	0.68
1:GA:1225:A:C8	13:GM:104:ARG:NH2	2.56	0.68
1:GA:668:G:O4'	15:GO:45:VAL:CG1	2.41	0.68
53:H7:213:VAL:HG12	53:H7:214:LYS:H	1.59	0.68
22:HB:1998:A:C6	48:H2:7:PRO:CG	2.66	0.68
22:HB:2749:A:C8	31:HK:121:LYS:HE2	2.29	0.68
22:HB:47:G:H22	22:HB:154:U:P	2.13	0.68
22:HB:511:A:H61	40:HT:12:LYS:HB3	1.59	0.68
22:HB:1081:A:C2	30:HJ:9:LYS:O	2.45	0.68
31:HK:156:HIS:O	31:HK:157:PRO:C	2.31	0.68
34:HN:66:TYR:HD1	43:HW:115:ILE:CD1	2.07	0.68
38:HR:15:LYS:HD3	38:HR:18:LEU:HB3	1.75	0.68
1:IA:391:G:P	16:IP:8:ARG:NH1	2.67	0.68
1:IA:907:A:H2'	1:IA:908:A:O4'	1.94	0.68
1:IA:958:A:H4'	19:IS:55:LYS:NZ	2.09	0.68
22:JB:115:G:O3'	22:JB:116:A:P	2.51	0.68
22:JB:1270:C:C2	26:JF:77:PHE:HA	2.28	0.68
22:JB:2000:U:C6	48:J2:6:VAL:HG21	2.27	0.68
22:JB:2823:G:H1'	22:JB:2843:A:N6	2.08	0.68
22:JB:3103:A:H5'	53:J7:37:LYS:CD	2.24	0.68
22:JB:795:A:O2'	24:JD:227:ASN:ND2	2.25	0.68
22:JB:2598:C:O2'	25:JE:154:LYS:HD3	1.93	0.68
27:JG:117:ILE:HB	27:JG:177:PHE:HA	1.75	0.68
30:JJ:125:ASN:H	30:JJ:125:ASN:HD22	1.42	0.68
30:JJ:53:ILE:HG23	30:JJ:72:PRO:HG2	1.76	0.68
32:JL:76:ARG:HH21	32:JL:90:ARG:NH1	1.92	0.68
34:JN:129:GLN:HG2	43:JW:74:ARG:NH1	2.08	0.68
34:JN:73:LYS:HE3	34:JN:94:TRP:N	2.09	0.68
35:JO:45:ARG:HB3	35:JO:46:PRO:HD3	1.76	0.68
22:JB:2827:G:H5''	35:JO:60:LEU:HD23	1.76	0.68
39:JS:69:ILE:HD11	39:JS:88:GLN:HE21	1.59	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:JB:1996:A:O2'	40:JT:116:ILE:N	2.27	0.68
1:AA:876:G:O2'	8:AH:4:ASP:HB2	1.93	0.67
23:BA:106:U:H4'	43:BW:88:TYR:CB	2.23	0.67
22:BB:505:G:C1'	40:BT:78:ASN:CB	2.68	0.67
22:BB:57:G:N2	22:BB:72:A:C4	2.62	0.67
22:BB:631:G:H2'	33:BM:101:ARG:HH21	1.58	0.67
22:BB:6:A:HO2'	31:BK:163:PRO:HG2	0.56	0.67
22:BB:746:G:N1	22:BB:774:A:H2'	2.09	0.67
22:BB:1954:A:C8	24:BD:239:ARG:HA	2.29	0.67
41:BU:7:LEU:HG	41:BU:42:ILE:HG13	1.74	0.67
43:BW:18:MET:H	43:BW:36:ARG:HH12	1.41	0.67
1:CA:1517:G:O4'	22:DB:1902:A:O3'	2.12	0.67
1:CA:254:G:H4'	17:CQ:45:HIS:CE1	2.28	0.67
1:CA:7:G:O6	5:CE:92:LYS:HD2	1.93	0.67
13:CM:84:ILE:C	13:CM:93:ARG:HD3	2.14	0.67
53:D7:85:ILE:HG22	53:D7:86:THR:H	1.59	0.67
22:DB:1072:U:O2	30:DJ:10:LEU:N	2.27	0.67
22:DB:1312:G:H1'	22:DB:1659:G:H22	1.59	0.67
22:DB:2039:G:O4'	48:D2:5:PRO:HG3	1.94	0.67
22:DB:2015:G:C2	22:DB:2551:A:H2	2.13	0.67
22:DB:66:U:C4	22:DB:87:G:C2	2.82	0.67
24:DD:72:LYS:HE2	24:DD:72:LYS:HA	1.77	0.67
22:DB:2620:G:H5'	31:DK:102:ARG:NH1	2.09	0.67
42:DV:90:LYS:HG3	42:DV:110:SER:HB3	1.75	0.67
34:DN:66:TYR:HD2	43:DW:118:HIS:CE1	2.06	0.67
1:EA:1227:A:O3'	13:EM:111:LYS:CE	2.32	0.67
1:EA:265:G:N2	17:EQ:67:LYS:CE	2.44	0.67
1:EA:537:G:H5''	12:EL:113:ARG:NE	2.03	0.67
22:FB:124:A:N7	50:F4:19:ARG:N	2.40	0.67
22:FB:2283:G:H1'	27:FG:153:ASP:OD1	1.94	0.67
22:FB:2310:G:O2'	44:FX:70:ILE:C	2.31	0.67
22:FB:2259:G:C2	22:FB:2367:A:N3	2.61	0.67
22:FB:2372:A:H4'	33:FM:60:LEU:H	0.85	0.67
22:FB:404:A:H2'	22:FB:405:C:H5'	1.76	0.67
22:FB:827:C:C4	33:FM:32:ARG:CZ	2.76	0.67
25:FE:152:LYS:N	31:FK:106:TYR:HE1	1.91	0.67
27:FG:117:ILE:HB	27:FG:177:PHE:HA	1.75	0.67
31:FK:41:TRP:HE1	31:FK:164:GLN:HB2	1.59	0.67
32:FL:21:CYS:HA	32:FL:54:SER:N	2.09	0.67
22:FB:528:G:O2'	40:FT:39:ARG:CD	2.42	0.67
23:FA:97:C:OP2	43:FW:11:LYS:HD3	1.94	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:GA:1225:A:N7	13:GM:104:ARG:CZ	2.54	0.67
1:GA:1374:A:C1'	7:GG:28:ASN:O	2.42	0.67
1:GA:687:A:H61	1:GA:701:C:H5'	1.57	0.67
4:GD:61:LYS:HZ1	4:GD:62:GLN:HA	1.59	0.67
1:GA:1092:A:OP2	7:GG:5:ARG:NH2	2.26	0.67
1:GA:1226:C:H3'	13:GM:111:LYS:CE	2.24	0.67
1:GA:668:G:H5''	15:GO:48:LYS:NZ	2.08	0.67
22:HB:82:G:H21	22:HB:101:A:H62	1.40	0.67
22:HB:2725:C:O2	28:HH:139:GLN:O	2.12	0.67
22:HB:402:A:C5	22:HB:2392:G:H4'	2.29	0.67
22:HB:737:C:C3'	22:HB:738:G:P	2.81	0.67
6:GF:82:ARG:HA	24:HD:137:PRO:CG	2.24	0.67
26:HF:104:LEU:HD21	26:HF:180:ILE:HG21	1.75	0.67
22:HB:758:G:O3'	40:HT:111:ARG:HG2	1.95	0.67
1:IA:13:U:O2	1:IA:914:A:H8	1.77	0.67
4:ID:107:ARG:NH2	4:ID:114:ARG:HH21	1.92	0.67
22:JB:2327:U:H5''	49:J3:21:TYR:CE1	2.29	0.67
22:JB:3176:A:O2'	53:J7:166:GLN:CD	2.31	0.67
53:J7:213:VAL:HG12	53:J7:214:LYS:H	1.59	0.67
22:JB:1197:U:C3'	46:JZ:26:ARG:NH2	2.52	0.67
22:JB:2398:U:H2'	22:JB:2399:C:C6	2.29	0.67
22:JB:2407:G:C3'	22:JB:2408:G:P	2.81	0.67
22:JB:2823:G:N7	37:JQ:105:TYR:CA	2.57	0.67
22:JB:2824:C:OP2	37:JQ:104:LEU:CD1	2.36	0.67
22:JB:295:C:H42	22:JB:368:A:N6	1.92	0.67
22:JB:1812:U:H3	24:JD:200:GLU:CA	2.07	0.67
28:JH:77:LYS:HA	28:JH:81:ASP:HB3	1.76	0.67
22:JB:647:G:H1	33:JM:109:LEU:CD1	2.03	0.67
22:JB:634:G:C8	33:JM:98:LEU:CD1	2.77	0.67
1:AA:1013:G:H3'	19:AS:18:LYS:HZ2	1.59	0.67
2:AB:178:ARG:HH12	2:AB:183:PRO:HG3	1.59	0.67
4:AD:61:LYS:HZ1	4:AD:62:GLN:HA	1.59	0.67
7:AG:38:LEU:HG	7:AG:42:ILE:HD11	1.75	0.67
11:AK:84:VAL:HB	11:AK:110:ASP:HA	1.74	0.67
13:AM:66:LEU:HA	13:AM:70:LEU:HD12	1.77	0.67
1:AA:973:G:C5'	14:AN:41:ARG:HH22	2.06	0.67
17:AQ:60:ILE:HD13	17:AQ:61:GLU:N	2.08	0.67
22:BB:51:A:N6	22:BB:115:G:H2'	2.08	0.67
22:BB:1000:G:C5'	22:BB:1168:G:H5''	2.24	0.67
22:BB:1225:G:H1	40:BT:12:LYS:HZ2	1.40	0.67
22:BB:2203:G:HO3'	22:BB:2204:A:P	2.16	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BD:226:MET:HA	24:BD:234:GLY:HA3	1.75	0.67
24:BD:72:LYS:HE2	24:BD:72:LYS:HA	1.76	0.67
25:BE:144:ARG:HH21	25:BE:146:THR:N	1.92	0.67
27:BG:117:ILE:HB	27:BG:177:PHE:HA	1.75	0.67
35:BO:79:VAL:HA	35:BO:83:VAL:HB	1.76	0.67
39:BS:69:ILE:HD11	39:BS:88:GLN:HE21	1.59	0.67
22:BB:504:G:H1'	40:BT:26:ALA:HA	1.76	0.67
1:CA:1094:G:H5''	1:CA:1095:U:H5	1.59	0.67
1:CA:405:U:H5''	1:CA:406:G:H5'	1.76	0.67
4:CD:104:VAL:HA	4:CD:107:ARG:HB2	1.75	0.67
1:CA:15:G:C2	5:CE:18:ARG:C	2.68	0.67
1:CA:932:C:H5	7:CG:3:ARG:HH22	1.28	0.67
1:CA:943:U:C1'	9:CI:124:GLN:NE2	2.40	0.67
1:CA:1231:G:C4	13:CM:126:LYS:HG2	2.28	0.67
1:CA:980:C:H4'	14:CN:19:ARG:HH22	1.58	0.67
16:CP:56:ALA:HA	16:CP:59:TRP:NE1	2.08	0.67
19:CS:40:ILE:HB	19:CS:68:GLY:HA3	1.75	0.67
49:D3:24:THR:O	51:D5:35:GLY:HA3	1.94	0.67
22:DB:699:G:C5	50:D4:5:TYR:O	2.44	0.67
22:DB:1861:G:N2	53:D7:199:ASN:OD1	2.27	0.67
22:DB:1050:G:H5'	43:DW:37:LYS:NZ	1.99	0.67
22:DB:1846:A:C6	22:DB:2070:G:N2	2.63	0.67
22:DB:2728:A:O4'	28:DH:67:LEU:CD1	2.40	0.67
22:DB:3197:U:H1'	22:DB:2181:A:C5	2.29	0.67
22:DB:2725:C:O2	28:DH:139:GLN:HA	1.94	0.67
22:DB:319:G:OP2	40:DT:12:LYS:CD	2.41	0.67
22:DB:512:A:H4'	40:DT:15:LYS:HZ2	1.58	0.67
41:DU:7:LEU:HG	41:DU:42:ILE:HG13	1.75	0.67
2:EB:97:TRP:HB3	2:EB:172:ILE:HD12	1.76	0.67
22:FB:2323:U:H5'	49:F3:39:LYS:HD3	1.76	0.67
22:FB:2400:G:P	51:F5:32:GLN:HG3	2.34	0.67
53:F7:85:ILE:HG22	53:F7:86:THR:H	1.59	0.67
22:FB:1041:G:N2	52:F6:5:SER:CB	2.57	0.67
22:FB:124:A:H5'	50:F4:19:ARG:CD	2.23	0.67
22:FB:1810:U:OP1	24:FD:157:ARG:HG2	1.94	0.67
22:FB:1829:C:C4'	22:FB:1911:A:O4'	2.43	0.67
22:FB:2034:A:H61	22:FB:2595:C:H41	1.41	0.67
22:FB:847:C:O2'	22:FB:2337:A:H1'	1.93	0.67
22:FB:864:C:H1'	46:FZ:39:ALA:O	1.91	0.67
37:FQ:36:ASP:CG	37:FQ:37:THR:H	1.96	0.67
22:FB:458:G:OP1	38:FR:5:LYS:NZ	2.18	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:FB:29:U:O4'	38:FR:8:ILE:HG12	1.88	0.67
23:FA:70:C:OP1	43:FW:163:ASP:OD1	2.12	0.67
22:FB:2311:U:H5'	44:FX:70:ILE:C	2.14	0.67
1:GA:1320:C:C5'	19:GS:3:ARG:CD	2.42	0.67
1:GA:1322:C:OP2	13:GM:101:GLN:O	2.13	0.67
1:GA:829:G:HO2'	2:GB:24:TRP:HH2	1.36	0.67
1:GA:951:G:N3	13:GM:125:ARG:O	2.27	0.67
15:GO:11:VAL:HG12	15:GO:27:VAL:HG22	1.74	0.67
1:GA:375:U:C4'	16:GP:17:TYR:CZ	2.75	0.67
6:GF:49:ALA:CB	18:GR:78:LEU:C	2.62	0.67
22:HB:1385:C:O2'	22:HB:2193:C:N4	2.26	0.67
22:HB:2223:U:H2'	22:HB:2224:U:O4'	1.94	0.67
22:HB:3093:C:C5	22:HB:2204:A:C5	2.58	0.67
26:HF:119:ALA:H	26:HF:189:ASP:HB2	1.59	0.67
35:HO:79:VAL:HA	35:HO:83:VAL:HB	1.76	0.67
22:HB:515:A:OP1	40:HT:15:LYS:HE3	1.93	0.67
1:IA:1100:C:C4	2:IB:98:LEU:HD11	2.28	0.67
3:IC:23:TYR:OH	10:IJ:10:GLY:HA2	1.95	0.67
17:IQ:21:VAL:HG12	17:IQ:22:LEU:H	1.60	0.67
22:JB:114:C:H4'	50:J4:19:ARG:CZ	2.24	0.67
22:JB:2223:U:H2'	22:JB:2224:U:O4'	1.94	0.67
22:JB:923:A:N3	22:JB:2243:C:H1'	2.09	0.67
22:JB:402:A:H1'	22:JB:2391:A:O2'	1.94	0.67
22:JB:468:A:H4'	41:JU:69:ILE:HD11	1.77	0.67
22:JB:489:A:C4'	42:JV:75:ALA:HB2	2.24	0.67
22:JB:642:A:H61	22:JB:2394:G:N2	1.86	0.67
22:JB:792:U:H2'	22:JB:793:G:O4'	1.94	0.67
22:JB:813:A:H2'	22:JB:813:A:N3	2.08	0.67
25:JE:199:ARG:NH1	25:JE:200:SER:H	1.92	0.67
27:JG:108:LEU:HA	27:JG:114:PHE:HD2	1.59	0.67
35:JO:79:VAL:HA	35:JO:83:VAL:HB	1.77	0.67
22:JB:514:G:H22	40:JT:15:LYS:HE3	1.57	0.67
1:AA:8:A:H62	4:AD:205:GLU:CB	2.06	0.67
4:AD:104:VAL:HA	4:AD:107:ARG:HB2	1.75	0.67
1:AA:136:C:H1'	16:AP:62:VAL:O	1.94	0.67
17:AQ:56:VAL:HB	17:AQ:78:GLU:HG3	1.74	0.67
22:BB:801:A:O2'	50:B4:4:THR:CB	2.42	0.67
22:BB:1134:C:O4'	52:B6:21:GLY:HA3	1.94	0.67
22:BB:1887:G:H22	22:BB:1912:G:C4'	2.05	0.67
22:BB:2255:G:OP2	34:BN:86:LYS:N	2.26	0.67
22:BB:2034:A:H61	22:BB:2595:C:H41	1.41	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:BB:2745:A:O3'	22:BB:2746:G:P	2.52	0.67
22:BB:2789:U:O4'	48:B2:30:LEU:HD12	1.90	0.67
22:BB:458:G:OP1	38:BR:3:ARG:CD	2.38	0.67
22:BB:658:G:O4'	22:BB:2330:G:H5''	1.93	0.67
22:BB:9:U:OP2	31:BK:36:ASN:ND2	2.13	0.67
26:BF:104:LEU:HD21	26:BF:180:ILE:HG21	1.75	0.67
22:BB:2009:U:P	31:BK:105:GLY:O	2.53	0.67
1:CA:619:U:C5	4:CD:133:VAL:CG1	2.70	0.67
22:DB:2411:A:N1	47:D1:22:MET:HE2	2.09	0.67
22:DB:1040:A:H4'	34:DN:125:LYS:HZ1	0.85	0.67
22:DB:1481:U:H4'	22:DB:1561:A:N6	2.09	0.67
22:DB:2034:A:H61	22:DB:2595:C:H41	1.42	0.67
22:DB:222:G:H21	22:DB:397:U:H1'	1.58	0.67
22:DB:792:U:H2'	22:DB:793:G:O4'	1.95	0.67
24:DD:177:LEU:HD21	24:DD:183:ARG:HH21	1.58	0.67
22:DB:2725:C:C4'	28:DH:141:VAL:CG2	2.67	0.67
22:DB:566:U:H1'	31:DK:73:ASN:ND2	2.10	0.67
34:DN:100:PRO:HG2	34:DN:102:ARG:NH1	2.09	0.67
22:DB:1004:A:OP2	38:DR:51:ARG:HG2	1.94	0.67
22:DB:1163:C:O3'	38:DR:80:ILE:HG13	1.91	0.67
22:DB:1007:A:C5'	38:DR:93:LYS:O	2.20	0.67
22:DB:319:G:P	40:DT:12:LYS:CE	2.80	0.67
44:DX:43:THR:HG23	44:DX:74:LYS:HB2	1.75	0.67
1:EA:1084:G:N2	1:EA:1102:A:H62	1.92	0.67
4:ED:61:LYS:HZ3	4:ED:65:ARG:HD3	1.58	0.67
3:EC:135:LYS:NZ	5:EE:52:PRO:HB2	2.09	0.67
1:EA:973:G:C4'	10:EJ:54:PHE:CE1	2.58	0.67
1:EA:134:A:N3	16:EP:25:ARG:NH1	2.05	0.67
22:FB:2209:G:C2'	47:F1:39:VAL:HG13	2.24	0.67
23:FA:116:C:H1'	36:FP:50:THR:HG23	1.76	0.67
22:FB:1045:G:H22	22:FB:1131:G:N2	1.90	0.67
22:FB:1399:C:C1'	22:FB:1484:G:H21	2.07	0.67
22:FB:1692:C:H2'	22:FB:1693:A:O4'	1.94	0.67
22:FB:2463:G:H5''	34:FN:47:GLN:CG	2.23	0.67
22:FB:2464:G:C4'	34:FN:122:ALA:N	2.57	0.67
22:FB:2591:C:O2	48:F2:2:ALA:CA	2.41	0.67
22:FB:746:G:N1	22:FB:774:A:H2'	2.09	0.67
22:FB:1581:C:H5	24:FD:28:ARG:HH12	1.42	0.67
25:FE:144:ARG:HH21	25:FE:146:THR:N	1.92	0.67
23:FA:44:C:O4'	27:FG:66:ILE:HD11	1.94	0.67
34:FN:100:PRO:HG2	34:FN:102:ARG:NH1	2.09	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:FN:106:GLU:CG	43:FW:115:ILE:CG2	2.58	0.67
38:FR:46:GLU:N	39:FS:75:LYS:O	2.27	0.67
43:FW:88:TYR:HD2	43:FW:91:PRO:HA	1.59	0.67
45:FY:48:ARG:HD2	45:FY:52:GLN:HB3	1.77	0.67
22:FB:999:A:P	46:FZ:8:SER:HA	2.32	0.67
1:GA:1369:C:OP2	9:GI:111:ARG:C	2.16	0.67
1:GA:1374:A:O4'	7:GG:31:MET:HE2	1.93	0.67
20:AT:100:ILE:CA	1:GA:179:A:C2	2.71	0.67
1:GA:253:U:H5'	17:GQ:68:ARG:NH2	2.08	0.67
1:GA:35:G:H1'	12:GL:117:ARG:C	2.14	0.67
1:GA:483:C:H3'	1:GA:484:G:H8	1.59	0.67
1:GA:907:A:H2'	1:GA:908:A:O4'	1.94	0.67
2:GB:108:ILE:O	2:GB:112:VAL:HG23	1.94	0.67
1:GA:826:C:C4'	8:GH:12:ARG:HD2	2.13	0.67
12:GL:10:LEU:CA	17:GQ:32:TYR:CD2	2.77	0.67
19:GS:40:ILE:HB	19:GS:68:GLY:HA3	1.76	0.67
22:HB:3866:A:N6	53:H7:44:GLY:N	2.41	0.67
22:HB:1312:G:H1'	22:HB:1659:G:H22	1.59	0.67
22:HB:1486:A:N1	22:HB:1536:G:C4	2.62	0.67
22:HB:2261:G:H5'	22:HB:2368:G:H1'	1.76	0.67
22:HB:2821:G:H5''	37:HQ:106:TYR:OH	1.93	0.67
22:HB:3166:G:C8	53:H7:98:ARG:CD	2.77	0.67
22:HB:295:C:H42	22:HB:368:A:N6	1.92	0.67
25:HE:7:THR:HA	25:HE:25:VAL:HG23	1.74	0.67
30:HJ:53:ILE:HG23	30:HJ:72:PRO:HG2	1.76	0.67
22:HB:1469:U:O2'	35:HO:76:VAL:CG2	2.42	0.67
22:HB:1468:A:N7	35:HO:77:ARG:CD	2.58	0.67
22:HB:71:A:C5'	45:HY:54:ASN:HB3	2.24	0.67
1:IA:1094:G:H5''	1:IA:1095:U:C5	2.29	0.67
1:IA:1320:C:C4	19:IS:36:ARG:O	2.48	0.67
1:IA:413:G:H22	4:ID:31:CYS:HA	1.59	0.67
1:IA:653:A:N6	8:IH:29:SER:OG	2.26	0.67
1:IA:878:G:C4'	8:IH:89:PRO:O	2.43	0.67
4:ID:61:LYS:HD3	4:ID:206:PHE:HE2	1.59	0.67
8:IH:18:ARG:HH22	8:IH:83:ILE:HG22	1.59	0.67
1:IA:1149:C:H5''	9:II:12:GLU:HG3	1.75	0.67
9:II:43:ALA:HA	9:II:74:ILE:HD13	1.76	0.67
11:IK:123:LYS:H	11:IK:123:LYS:HD3	1.59	0.67
1:IA:363:A:C6	12:IL:30:ALA:HA	2.28	0.67
20:IT:30:LYS:HA	20:IT:33:ILE:HD12	1.74	0.67
22:JB:2324:G:C4'	49:J3:40:TYR:HE1	2.04	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:JB:1040:A:O4'	22:JB:2465:G:H4'	1.95	0.67
22:JB:1045:G:H22	22:JB:1131:G:N2	1.90	0.67
22:JB:1468:A:N6	35:JO:80:MET:HB2	2.08	0.67
22:JB:1996:A:H5'	40:JT:117:ILE:HA	0.68	0.67
22:JB:477:A:H5''	50:J4:16:HIS:HE1	0.92	0.67
22:JB:47:G:H1'	22:JB:155:G:N2	2.09	0.67
22:JB:818:G:OP1	33:JM:45:LYS:HE3	1.94	0.67
22:JB:964:A:N6	22:JB:976:C:H42	1.90	0.67
27:JG:127:ASN:HB3	27:JG:157:VAL:HG22	1.76	0.67
22:JB:2311:U:OP1	44:JX:70:ILE:O	2.11	0.67
1:AA:1084:G:N2	1:AA:1102:A:H62	1.92	0.67
1:AA:509:A:O5'	4:AD:54:TYR:HB3	1.94	0.67
8:AH:51:VAL:HG12	8:AH:52:ASP:H	1.59	0.67
13:AM:82:MET:O	13:AM:89:GLY:CA	2.41	0.67
10:AJ:65:LEU:HB2	14:AN:56:VAL:HA	1.77	0.67
19:AS:36:ARG:NH2	19:AS:53:ASN:HA	2.09	0.67
22:BB:1135:C:H1'	52:B6:36:GLN:HG3	1.70	0.67
22:BB:1166:A:N1	22:BB:1168:G:C4	2.60	0.67
22:BB:1831:G:O4'	22:BB:1910:A:C4'	2.42	0.67
22:BB:923:A:H1'	22:BB:2243:C:H4'	1.76	0.67
22:BB:1140:A:C2	22:BB:2549:G:C4'	2.75	0.67
22:BB:2557:G:N3	25:BE:133:LYS:CE	2.49	0.67
22:BB:569:C:OP1	31:BK:137:LYS:HE3	1.94	0.67
22:BB:574:C:OP1	39:BS:79:GLN:C	2.32	0.67
22:BB:591:G:P	38:BR:10:ARG:NH2	2.67	0.67
22:BB:6:A:H62	22:BB:2870:C:N4	1.81	0.67
22:BB:916:U:H1'	43:BW:165:GLU:H	1.60	0.67
25:BE:176:ARG:HE	37:BQ:16:ILE:CG2	2.03	0.67
26:BF:104:LEU:HD22	26:BF:180:ILE:HD13	1.77	0.67
30:BJ:125:ASN:HD22	30:BJ:125:ASN:H	1.43	0.67
30:BJ:54:PRO:HD2	30:BJ:72:PRO:HG3	1.75	0.67
22:BB:1141:U:C2'	31:BK:107:GLN:HE21	2.07	0.67
22:BB:83:A:H61	42:BV:102:LYS:NZ	1.89	0.67
44:BX:67:VAL:HG13	44:BX:68:VAL:HG22	1.76	0.67
1:CA:1381:U:C5	7:CG:77:SER:O	2.47	0.67
1:CA:335:C:C1'	1:CA:1434:A:N3	2.55	0.67
1:CA:1298:C:H41	7:CG:115:ARG:HD2	1.57	0.67
22:DB:1041:G:C5'	34:DN:119:PHE:CE2	2.74	0.67
22:DB:1045:G:H22	22:DB:1131:G:N2	1.90	0.67
22:DB:1692:C:H2'	22:DB:1693:A:O4'	1.94	0.67
22:DB:1841:G:H2'	22:DB:1842:G:H8	1.58	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:DB:2313:G:H2'	36:DP:15:ARG:HH12	1.58	0.67
22:DB:295:C:H42	22:DB:368:A:N6	1.93	0.67
22:DB:625:A:N1	26:DF:176:ASN:CB	2.58	0.67
22:DB:696:U:H4'	50:D4:16:HIS:CE1	2.30	0.67
22:DB:746:G:N1	22:DB:774:A:H2'	2.09	0.67
25:DE:92:ASN:HD21	25:DE:175:ILE:HD11	1.58	0.67
22:DB:2661:G:C2	25:DE:22:PRO:O	2.47	0.67
25:DE:151:TYR:CE2	31:DK:106:TYR:CB	2.77	0.67
1:EA:1228:C:H6	13:EM:104:ARG:O	1.77	0.67
1:EA:404:U:H5'	4:ED:122:ARG:HD2	1.76	0.67
8:EH:18:ARG:HH22	8:EH:83:ILE:HG22	1.59	0.67
17:EQ:60:ILE:HD13	17:EQ:61:GLU:N	2.08	0.67
1:EA:258:G:H3'	20:ET:83:ARG:NH1	2.01	0.67
22:FB:2324:G:C5'	49:F3:40:TYR:CD1	2.76	0.67
22:FB:1399:C:C2'	22:FB:1484:G:H21	2.08	0.67
22:FB:1398:G:C5	22:FB:1415:C:O2	2.37	0.67
22:FB:2209:G:O2'	47:F1:39:VAL:HG11	1.91	0.67
22:FB:796:A:H2'	22:FB:797:A:H4'	1.77	0.67
22:FB:2661:G:C5	25:FE:11:MET:CA	2.76	0.67
22:FB:2035:G:C6	25:FE:150:VAL:CG2	2.77	0.67
25:FE:18:ASP:N	37:FQ:87:LEU:CD1	2.58	0.67
37:FQ:40:ARG:HH22	37:FQ:50:PHE:HB3	1.58	0.67
22:FB:1166:A:O3'	38:FR:55:ARG:NH2	2.27	0.67
22:FB:1174:G:O2'	39:FS:89:ASN:HB2	1.93	0.67
42:FV:23:ILE:HG22	42:FV:24:VAL:H	1.59	0.67
23:FA:77:G:N2	43:FW:22:VAL:CG2	2.58	0.67
34:FN:36:ILE:HG13	43:FW:74:ARG:O	1.93	0.67
45:FY:18:ILE:HG12	45:FY:50:VAL:HG21	1.74	0.67
1:GA:110:C:H2'	1:GA:111:G:O4'	1.95	0.67
1:AA:191:G:C8	1:GA:191:G:OP2	2.47	0.67
1:GA:778:G:H1'	11:GK:120:ARG:HB3	1.75	0.67
18:GR:51:LEU:HD13	18:GR:56:THR:HA	1.76	0.67
1:GA:186:C:O4'	20:GT:81:LYS:HD3	1.94	0.67
1:AA:179:A:N3	20:GT:99:LEU:C	2.47	0.67
22:HB:3127:G:OP1	53:H7:25:ASN:ND2	2.27	0.67
22:HB:1045:G:H22	22:HB:1131:G:N2	1.90	0.67
22:HB:1166:A:H2'	22:HB:1168:G:N7	2.09	0.67
22:HB:1377:G:OP1	47:H1:40:HIS:CG	2.48	0.67
22:HB:1373:G:N2	22:HB:2194:A:H1'	2.09	0.67
22:HB:2505:G:C4'	22:HB:2722:C:OP1	2.41	0.67
22:HB:404:A:H2'	22:HB:405:C:H5'	1.77	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:HB:236:C:O2'	22:HB:632:A:O4'	2.08	0.67
22:HB:861:G:H1'	22:HB:944:A:H2'	1.76	0.67
22:HB:964:A:N6	22:HB:976:C:H42	1.90	0.67
26:HF:149:LEU:HB3	26:HF:187:VAL:H	1.59	0.67
27:HG:127:ASN:HB3	27:HG:157:VAL:HG13	1.76	0.67
22:HB:2826:C:H5''	35:HO:64:ARG:HH12	1.60	0.67
41:HU:4:TYR:CZ	45:HY:18:ILE:HG22	2.26	0.67
1:IA:1084:G:N2	1:IA:1102:A:H62	1.92	0.67
1:IA:132:C:O2'	20:IT:74:LYS:NZ	2.23	0.67
1:IA:753:A:N3	8:IH:1:MET:HE3	1.00	0.67
1:IA:1373:G:H5''	7:IG:36:LYS:HB2	1.75	0.67
22:JB:47:G:H1'	22:JB:155:G:H22	1.58	0.67
22:JB:1312:G:H1'	22:JB:1659:G:H22	1.59	0.67
22:JB:1762:C:C4'	22:JB:1921:A:N7	2.58	0.67
22:JB:923:A:C4'	22:JB:2243:C:H4'	2.24	0.67
22:JB:861:G:H1'	22:JB:944:A:H2'	1.75	0.67
24:JD:226:MET:HA	24:JD:234:GLY:HA3	1.75	0.67
26:JF:149:LEU:HB3	26:JF:187:VAL:H	1.59	0.67
34:JN:73:LYS:CB	34:JN:94:TRP:H	2.05	0.67
22:JB:1008:G:OP2	38:JR:93:LYS:HD3	1.93	0.67
22:JB:1008:G:P	38:JR:93:LYS:HG2	2.33	0.67
22:JB:2239:C:H2'	44:JX:14:ARG:HD2	1.77	0.67
22:JB:1000:G:N7	46:JZ:10:ILE:HG13	2.09	0.67
1:AA:1189:C:P	10:AJ:61:GLU:OE2	2.52	0.67
1:AA:429:U:H1'	1:AA:430:A:H5''	1.76	0.67
2:AB:97:TRP:HB3	2:AB:172:ILE:HD12	1.76	0.67
2:AB:50:GLU:HG3	2:AB:200:ILE:HB	1.76	0.67
1:AA:412:A:H2	4:AD:32:ALA:N	1.92	0.67
5:AE:31:LEU:HD22	5:AE:43:LEU:HD13	1.76	0.67
1:AA:826:C:H4'	8:AH:12:ARG:HD3	1.76	0.67
13:AM:88:ARG:CG	13:AM:91:ARG:HB2	1.98	0.67
1:AA:234:C:C2	17:AQ:61:GLU:OE1	2.44	0.67
22:BB:1044:U:C5'	52:B6:16:VAL:CG2	2.39	0.67
22:BB:1043:A:O2'	52:B6:16:VAL:HB	1.89	0.67
22:BB:1045:G:H22	22:BB:1131:G:N2	1.90	0.67
22:BB:2357:A:O3'	36:BP:19:THR:CG2	2.43	0.67
22:BB:2503:G:C4	22:BB:2744:A:H2	2.12	0.67
22:BB:3093:C:C1'	22:BB:2181:A:N1	2.57	0.67
22:BB:792:U:H2'	22:BB:793:G:O4'	1.95	0.67
22:BB:796:A:H2'	22:BB:797:A:H4'	1.77	0.67
31:BK:41:TRP:HE1	31:BK:164:GLN:HB2	1.59	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:BL:76:ARG:HH21	32:BL:90:ARG:NH1	1.92	0.67
34:BN:24:GLY:HA3	34:BN:98:VAL:HB	1.76	0.67
38:BR:25:TRP:HH2	48:B2:14:SER:CA	2.08	0.67
2:CB:166:ASP:HB3	2:CB:169:LYS:HB3	1.75	0.67
8:CH:18:ARG:HH22	8:CH:83:ILE:HG22	1.59	0.67
8:CH:91:ARG:NH2	17:CQ:32:TYR:HB2	2.09	0.67
22:DB:123:A:O4'	50:D4:13:ALA:HB1	1.94	0.67
22:DB:1356:G:H1'	22:DB:1613:G:N7	2.09	0.67
22:DB:2034:A:H4'	25:DE:141:ILE:CG1	2.24	0.67
22:DB:2658:A:O3'	25:DE:188:ILE:O	2.13	0.67
22:DB:320:A:H5''	22:DB:341:A:H61	1.60	0.67
22:DB:404:A:H2'	22:DB:405:C:H5'	1.77	0.67
22:DB:589:C:O3'	38:DR:32:TYR:O	2.12	0.67
22:DB:680:U:OP2	33:DM:46:GLY:O	2.12	0.67
22:DB:796:A:H2'	22:DB:797:A:H4'	1.77	0.67
22:DB:677:G:H4'	22:DB:951:G:H4'	1.75	0.67
22:DB:2551:A:N6	25:DE:144:ARG:CB	2.55	0.67
22:DB:2551:A:H61	25:DE:145:LYS:HB2	1.57	0.67
33:DM:91:ASP:H	33:DM:121:HIS:HB3	1.60	0.67
39:DS:69:ILE:HD11	39:DS:88:GLN:HE21	1.59	0.67
1:EA:1094:G:H5''	1:EA:1095:U:H5	1.58	0.67
1:EA:1102:A:C2	2:EB:108:ILE:HG12	2.30	0.67
1:EA:392:G:P	16:EP:12:LYS:HG2	2.33	0.67
1:EA:403:C:HO2'	4:ED:122:ARG:HD2	1.58	0.67
1:EA:928:G:C4'	1:EA:1533:C:N4	2.55	0.67
1:EA:439:A:C2'	4:ED:122:ARG:HH22	2.06	0.67
1:EA:1061:G:O3'	10:EJ:56:HIS:CE1	2.48	0.67
12:EL:46:LYS:HG2	12:EL:47:LYS:H	1.59	0.67
1:EA:236:G:C1'	17:EQ:42:TYR:OH	2.39	0.67
29:FI:1:MET:CG	47:F1:65:ASP:O	2.42	0.67
22:FB:1174:G:HO2'	39:FS:89:ASN:HB3	1.60	0.67
22:FB:1223:G:H4'	22:FB:1224:A:O5'	1.95	0.67
22:FB:2040:A:N3	48:F2:3:LYS:N	2.42	0.67
22:FB:2457:A:C8	22:FB:2508:G:N7	2.62	0.67
22:FB:2661:G:C2'	25:FE:11:MET:HE3	2.25	0.67
22:FB:64:C:P	41:FU:70:GLY:O	2.49	0.67
22:FB:672:C:H5''	26:FF:94:THR:HB	1.75	0.67
22:FB:742:G:N7	24:FD:208:LYS:HE2	2.08	0.67
26:FF:104:LEU:HD22	26:FF:180:ILE:HD13	1.77	0.67
27:FG:127:ASN:HB3	27:FG:157:VAL:HG13	1.75	0.67
34:FN:36:ILE:CB	43:FW:74:ARG:HA	2.25	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:FB:1266:G:C2	38:FR:37:GLN:CG	2.78	0.67
42:FV:90:LYS:HG3	42:FV:110:SER:HB3	1.75	0.67
1:GA:1084:G:N2	1:GA:1102:A:H62	1.92	0.67
1:GA:1236:A:H4'	1:GA:1304:G:H4'	1.75	0.67
1:GA:274:A:H5''	17:GQ:14:LYS:CD	2.24	0.67
1:GA:740:U:C4'	15:GO:42:HIS:ND1	2.57	0.67
13:GM:88:ARG:NH2	13:GM:99:ARG:HG3	2.09	0.67
17:GQ:21:VAL:HG12	17:GQ:22:LEU:H	1.60	0.67
1:GA:190:A:C2	20:GT:104:LEU:O	2.47	0.67
22:HB:2789:U:H6	48:H2:30:LEU:CD1	1.82	0.67
22:HB:1276:U:H1'	48:H2:10:LYS:HE3	0.74	0.67
22:HB:1750:A:N3	22:HB:2675:U:O2	2.27	0.67
22:HB:2001:G:H1'	38:HR:33:ARG:HD3	1.77	0.67
22:HB:215:G:H4'	22:HB:617:U:O2'	1.94	0.67
22:HB:2791:C:O5'	48:H2:42:SER:O	2.12	0.67
22:HB:673:G:H5''	26:HF:93:TYR:HE1	1.52	0.67
24:HD:72:LYS:HA	24:HD:72:LYS:HE2	1.77	0.67
29:HI:30:ILE:H	29:HI:31:PRO:HD3	1.60	0.67
31:HK:33:ILE:HD12	31:HK:34:PRO:HD2	1.77	0.67
1:IA:1113:C:O2	14:IN:60:SER:OG	2.11	0.67
1:IA:198:G:N7	1:IA:220:G:H1'	2.10	0.67
1:IA:483:C:H3'	1:IA:484:G:H8	1.59	0.67
2:IB:50:GLU:HG3	2:IB:200:ILE:HB	1.76	0.67
1:IA:1055:A:H2	3:IC:156:ARG:NH1	1.92	0.67
1:IA:975:A:H62	10:IJ:50:ILE:HD11	1.60	0.67
15:IO:87:ILE:HG22	15:IO:88:ARG:HG2	1.74	0.67
22:JB:1629:G:H5'	50:J4:3:ARG:HG2	1.75	0.67
22:JB:2328:G:C5'	51:J5:42:ARG:HH11	2.03	0.67
22:JB:414:A:C4'	53:J7:217:ARG:NH2	2.58	0.67
22:JB:1217:U:H1'	33:JM:14:LYS:HE3	1.77	0.67
22:JB:1727:C:H5'	22:JB:2833:C:H1'	1.75	0.67
22:JB:1841:G:H2'	22:JB:1842:G:H8	1.58	0.67
22:JB:10:A:H62	22:JB:2607:C:H5''	1.57	0.67
22:JB:3170:A:H2'	53:J7:131:ARG:HH22	1.60	0.67
22:JB:404:A:H2'	22:JB:405:C:H5'	1.77	0.67
22:JB:53:G:H5'	50:J4:36:ALA:CB	2.24	0.67
22:JB:787:A:OP2	24:JD:48:ARG:HB3	1.94	0.67
34:JN:100:PRO:HG2	34:JN:102:ARG:NH1	2.10	0.67
22:JB:1743:C:N4	37:JQ:124:VAL:C	2.30	0.67
22:JB:528:G:H5'	40:JT:35:PRO:CB	2.25	0.67
40:JT:43:ASP:HB3	48:J2:20:ARG:NE	2.09	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:JT:60:ILE:CB	48:J2:25:LEU:HD11	2.24	0.67
43:JW:100:THR:HB	43:JW:114:ASP:HB3	1.74	0.67
1:AA:1514:C:H2'	1:AA:1515:C:H6	1.60	0.67
1:AA:421:U:H5	3:AC:127:ARG:HH12	1.42	0.67
1:AA:1398:A:N7	5:AE:22:GLY:N	2.43	0.67
8:AH:1:MET:HG2	8:AH:2:LEU:H	1.60	0.67
1:AA:1148:U:C2	9:AI:16:ARG:NH2	2.62	0.67
1:AA:973:G:C2'	14:AN:29:ARG:HH22	2.07	0.67
22:BB:1861:G:N1	53:B7:199:ASN:CB	2.52	0.67
23:BA:92:G:C1'	34:BN:22:ALA:HA	2.09	0.67
22:BB:1223:G:H4'	22:BB:1224:A:O5'	1.95	0.67
22:BB:1325:U:H5	41:BU:61:LYS:CG	1.71	0.67
22:BB:1532:A:O3'	22:BB:1533:G:P	2.52	0.67
22:BB:1692:C:H2'	22:BB:1693:A:O4'	1.94	0.67
22:BB:404:A:H2'	22:BB:405:C:H5'	1.77	0.67
22:BB:506:G:O4'	40:BT:82:ASN:C	2.33	0.67
22:BB:51:A:C1'	22:BB:155:G:H21	2.02	0.67
22:BB:79:G:H2'	22:BB:80:A:H8	1.60	0.67
22:BB:676:G:O2'	22:BB:950:G:O2'	2.12	0.67
29:BI:30:ILE:H	29:BI:31:PRO:HD3	1.60	0.67
25:BE:52:ALA:HB3	37:BQ:5:ILE:CD1	2.24	0.67
25:BE:19:ARG:HG3	37:BQ:84:ALA:HB1	1.76	0.67
22:BB:2366:U:H5'	44:BX:38:VAL:HB	1.76	0.67
22:BB:1169:C:C5'	46:BZ:27:LYS:HZ3	2.04	0.67
1:CA:1084:G:N2	1:CA:1102:A:H62	1.92	0.67
1:CA:1106:G:P	3:CC:172:ARG:CZ	2.82	0.67
1:CA:932:C:C6	7:CG:3:ARG:NE	2.62	0.67
1:CA:968:A:C1'	10:CJ:56:HIS:NE2	2.56	0.67
1:CA:1298:C:N3	7:CG:114:ARG:HG2	2.09	0.67
7:CG:38:LEU:HG	7:CG:42:ILE:HD11	1.75	0.67
1:CA:1456:A:C4'	20:CT:28:ALA:CB	2.72	0.67
22:DB:1999:U:H1'	48:D2:7:PRO:CG	2.24	0.67
22:DB:419:G:P	53:D7:197:GLU:CG	2.83	0.67
22:DB:10:A:N6	22:DB:2607:C:OP1	2.28	0.67
22:DB:2039:G:O2'	48:D2:5:PRO:HG3	1.89	0.67
22:DB:2229:G:N9	34:DN:84:MET:O	2.26	0.67
22:DB:2324:G:H5'	49:D3:40:TYR:HD1	1.59	0.67
22:DB:2770:A:H4'	22:DB:2867:G:O6	1.93	0.67
22:DB:504:G:C3'	40:DT:25:PHE:CD2	2.78	0.67
22:DB:917:U:H1'	43:DW:166:LEU:HD13	1.66	0.67
25:DE:144:ARG:HH21	25:DE:146:THR:N	1.92	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:DF:104:LEU:HD22	26:DF:180:ILE:HD13	1.77	0.67
27:DG:108:LEU:HA	27:DG:114:PHE:HD2	1.59	0.67
22:DB:1072:U:C2	30:DJ:10:LEU:N	2.63	0.67
30:DJ:125:ASN:H	30:DJ:125:ASN:HD22	1.43	0.67
23:DA:93:G:O3'	34:DN:23:LYS:NZ	2.26	0.67
22:DB:1992:G:H1'	35:DO:105:GLY:CA	2.25	0.67
1:EA:1117:G:C1'	9:EI:104:ARG:HH22	2.08	0.67
1:EA:1420:C:N4	1:EA:1480:G:H1	1.93	0.67
6:EF:46:ARG:HH12	18:ER:35:ARG:HH11	1.43	0.67
1:EA:1298:C:N4	7:EG:114:ARG:HG2	2.10	0.67
22:FB:1044:U:C4	52:F6:16:VAL:HG22	2.27	0.67
22:FB:1030:U:P	22:FB:1046:U:O4'	2.52	0.67
22:FB:113:C:H1'	22:FB:125:A:O4'	1.94	0.67
22:FB:2223:U:H2'	22:FB:2224:U:O4'	1.94	0.67
22:FB:2372:A:H1'	33:FM:59:ARG:HB2	1.65	0.67
22:FB:2718:A:C2	22:FB:2746:G:O6	2.39	0.67
22:FB:2756:A:H61	25:FE:42:ASP:CG	1.95	0.67
22:FB:575:U:O4	39:FS:80:TYR:N	2.28	0.67
22:FB:891:A:O3'	22:FB:893:G:OP2	2.11	0.67
22:FB:595:A:H4'	26:FF:84:PHE:CE1	2.29	0.67
28:FH:77:LYS:HA	28:FH:81:ASP:HB3	1.76	0.67
29:FI:27:ASN:CG	47:F1:46:GLU:OE2	2.32	0.67
30:FJ:53:ILE:HG23	30:FJ:72:PRO:HG2	1.76	0.67
34:FN:73:LYS:HE3	34:FN:94:TRP:N	2.09	0.67
22:FB:1992:G:C1'	35:FO:105:GLY:CA	2.72	0.67
22:HB:2859:U:N3	48:H2:34:PRO:HB2	2.10	0.67
53:H7:85:ILE:HG22	53:H7:86:THR:H	1.59	0.67
22:HB:1692:C:H2'	22:HB:1693:A:O4'	1.94	0.67
22:HB:320:A:H5''	22:HB:341:A:H61	1.60	0.67
22:HB:588:G:H8	22:HB:2000:U:H3	1.42	0.67
22:HB:635:C:H5'	51:H5:63:PRO:HG3	1.76	0.67
22:HB:792:U:H2'	22:HB:793:G:O4'	1.95	0.67
24:HD:226:MET:HA	24:HD:234:GLY:HA3	1.75	0.67
32:HL:90:ARG:O	37:HQ:79:ARG:NH1	2.28	0.67
34:HN:73:LYS:HE3	34:HN:94:TRP:N	2.09	0.67
22:HB:2250:G:P	44:HX:18:PRO:HD2	2.34	0.67
22:HB:2334:C:C5'	44:HX:21:LEU:HG	2.24	0.67
44:HX:67:VAL:HG13	44:HX:68:VAL:HG22	1.76	0.67
1:IA:1374:A:H1'	7:IG:29:LYS:CE	2.25	0.67
1:IA:1432:G:H2'	1:IA:1467:G:O6	1.94	0.67
1:IA:925:G:N2	1:IA:1531:A:O4'	2.27	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:IA:644:G:H5'	8:IH:92:ARG:HH21	1.60	0.67
1:IA:1106:G:H4'	3:IC:170:GLN:HA	1.77	0.67
1:IA:687:A:C4'	11:IK:42:TRP:CZ2	2.78	0.67
1:IA:954:G:C5'	13:IM:124:PRO:HD2	2.21	0.67
22:JB:1744:G:OP2	37:JQ:123:ARG:CA	2.42	0.67
22:JB:2364:C:O2	44:JX:37:LEU:HD21	1.94	0.67
22:JB:3121:G:P	53:J7:130:PRO:CD	2.42	0.67
22:JB:3176:A:OP1	53:J7:206:LYS:CE	2.41	0.67
22:JB:320:A:H5''	22:JB:341:A:H61	1.60	0.67
22:JB:79:G:H2'	22:JB:80:A:H8	1.60	0.67
22:JB:2558:C:H4'	25:JE:132:LYS:HB2	1.75	0.67
25:JE:23:VAL:HG11	25:JE:188:ILE:HB	1.76	0.67
22:JB:508:G:H21	42:JV:56:LYS:CG	2.05	0.67
1:AA:426:G:H1'	4:AD:42:GLN:HE21	1.59	0.67
3:AC:24:ALA:HA	10:AJ:95:GLU:HB2	1.77	0.67
4:AD:61:LYS:HD3	4:AD:206:PHE:HE2	1.59	0.67
1:AA:1240:U:O4	7:AG:116:ALA:CB	2.41	0.67
12:AL:11:VAL:CG1	17:AQ:29:HIS:HD2	2.06	0.67
12:AL:11:VAL:CG2	17:AQ:29:HIS:CB	2.72	0.67
12:AL:46:LYS:HG2	12:AL:47:LYS:H	1.59	0.67
1:AA:1228:C:C4	13:AM:120:LYS:HD3	2.30	0.67
1:AA:1231:G:C4	13:AM:126:LYS:CD	2.78	0.67
1:AA:741:G:C2	15:AO:51:HIS:CB	2.76	0.67
51:B5:7:HIS:HA	51:B5:10:ALA:HB3	1.77	0.67
22:BB:1235:C:C5	39:BS:71:ILE:HD13	2.29	0.67
22:BB:334:G:P	26:BF:162:ARG:NH1	2.68	0.67
27:BG:107:GLY:O	27:BG:111:ILE:HG12	1.95	0.67
22:BB:2284:U:H1'	27:BG:152:MET:CE	2.25	0.67
22:BB:6:A:H5'	31:BK:162:LYS:HE3	1.77	0.67
1:CA:1231:G:C4	13:CM:126:LYS:CG	2.77	0.67
1:CA:1317:C:C6	14:CN:16:PHE:CE2	2.82	0.67
1:CA:429:U:H1'	1:CA:430:A:H5''	1.76	0.67
1:CA:673:G:H4'	18:CR:75:ILE:HA	1.75	0.67
2:CB:50:GLU:HG3	2:CB:200:ILE:HB	1.76	0.67
22:DB:2745:A:C4	22:DB:2746:G:C8	2.82	0.67
22:DB:676:G:O2'	22:DB:950:G:O2'	2.09	0.67
27:DG:127:ASN:HB3	27:DG:157:VAL:HG13	1.76	0.67
31:DK:33:ILE:HD12	31:DK:34:PRO:HD2	1.77	0.67
34:DN:61:ARG:CA	43:DW:112:LEU:HD21	2.25	0.67
43:DW:94:VAL:HG11	43:DW:125:PRO:HG2	1.77	0.67
1:EA:1220:G:N2	19:ES:54:GLY:O	2.26	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:EA:1320:C:N3	19:ES:36:ARG:CB	2.57	0.67
1:EA:28:G:O2'	1:EA:296:U:H5'	1.94	0.67
1:EA:429:U:H1'	1:EA:430:A:H5''	1.76	0.67
1:EA:907:A:H2'	1:EA:908:A:O4'	1.94	0.67
2:EB:178:ARG:HH12	2:EB:183:PRO:HG3	1.59	0.67
1:EA:1092:A:H5''	7:EG:4:ARG:HD3	1.76	0.67
10:EJ:62:HIS:CG	14:EN:61:TRP:HH2	2.11	0.67
1:EA:450:G:H21	16:EP:42:ARG:HH12	1.42	0.67
22:FB:2591:C:C1'	48:F2:2:ALA:HB3	2.22	0.67
22:FB:1762:C:H4'	22:FB:1921:A:H62	1.59	0.67
22:FB:1887:G:H3'	22:FB:1888:C:OP2	1.94	0.67
22:FB:236:C:C1'	22:FB:632:A:O2'	2.40	0.67
22:FB:2810:A:C8	37:FQ:6:LYS:HG2	2.12	0.67
22:FB:79:G:H2'	22:FB:80:A:H8	1.60	0.67
24:FD:72:LYS:HA	24:FD:72:LYS:HE2	1.76	0.67
27:FG:107:GLY:O	27:FG:111:ILE:HG12	1.95	0.67
37:FQ:70:LYS:N	37:FQ:71:ILE:HD12	2.06	0.67
41:FU:15:LYS:HA	41:FU:18:SER:HB3	1.76	0.67
44:FX:43:THR:HG23	44:FX:74:LYS:HB2	1.75	0.67
1:GA:198:G:N7	1:GA:220:G:H1'	2.10	0.67
1:GA:877:C:O4'	8:GH:3:THR:O	2.11	0.67
1:GA:8:A:O4'	5:GE:107:ARG:NH2	2.28	0.67
1:GA:921:U:O2	5:GE:19:MET:CG	2.42	0.67
1:GA:17:U:C2'	5:GE:14:ARG:NH2	2.54	0.67
5:GE:31:LEU:HD22	5:GE:43:LEU:HD13	1.76	0.67
1:GA:718:G:C2	11:GK:116:HIS:CE1	2.83	0.67
13:GM:66:LEU:HA	13:GM:70:LEU:HD12	1.76	0.67
22:HB:2063:A:H5'	47:H1:33:VAL:CG2	2.25	0.67
22:HB:420:C:P	53:H7:197:GLU:HG3	2.34	0.67
22:HB:1402:G:C6	22:HB:1412:C:C4	2.83	0.67
22:HB:1040:A:H1'	22:HB:2465:G:C4'	2.24	0.67
22:HB:2470:U:O2	22:HB:2548:G:O3'	2.12	0.67
22:HB:419:G:H5'	53:H7:1:MET:CG	2.24	0.67
22:HB:79:G:H2'	22:HB:80:A:H8	1.60	0.67
22:HB:1805:G:N2	24:HD:52:ARG:HD3	2.10	0.67
27:HG:117:ILE:HB	27:HG:177:PHE:HA	1.75	0.67
22:HB:494:A:H1'	42:HV:56:LYS:HG3	1.60	0.67
43:HW:94:VAL:HG11	43:HW:125:PRO:HG2	1.77	0.67
1:IA:1514:C:H2'	1:IA:1515:C:H6	1.60	0.67
1:IA:1228:C:N4	13:IM:104:ARG:HG3	2.03	0.67
1:IA:238:G:H5''	17:IQ:38:ARG:HH12	1.60	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
48:J2:45:ILE:HD11	48:J2:52:TYR:HD2	1.60	0.67
22:JB:2325:A:N1	49:J3:27:ASN:ND2	2.41	0.67
22:JB:1169:C:H4'	46:JZ:29:GLY:HA3	1.77	0.67
22:JB:1363:C:H1'	22:JB:1588:A:H1'	1.76	0.67
22:JB:226:C:N3	22:JB:2374:C:H5'	2.10	0.67
22:JB:528:G:N3	40:JT:96:TYR:CB	2.56	0.67
22:JB:892:A:N7	22:JB:912:A:C2	2.61	0.67
26:JF:104:LEU:HD21	26:JF:180:ILE:HG21	1.75	0.67
26:JF:119:ALA:H	26:JF:189:ASP:HB2	1.59	0.67
22:JB:592:G:C3'	38:JR:5:LYS:CD	2.72	0.67
22:JB:593:C:OP1	38:JR:5:LYS:N	2.28	0.67
22:JB:593:C:P	38:JR:6:THR:N	2.67	0.67
22:JB:1238:A:H5'	39:JS:73:LYS:CG	2.24	0.67
22:JB:1201:G:O2'	39:JS:81:ARG:NH1	2.28	0.67
1:AA:918:A:H2	1:AA:1079:G:N2	1.89	0.67
1:AA:1350:A:H62	9:AI:118:LYS:CE	2.08	0.67
1:AA:1432:G:H2'	1:AA:1467:G:O6	1.94	0.67
1:AA:1279:A:N6	10:AJ:43:ARG:NH2	2.43	0.67
6:AF:48:LEU:CD2	18:AR:76:LEU:O	2.43	0.67
1:AA:1457:A:H5''	20:AT:27:LYS:HB3	1.76	0.67
22:BB:1043:A:H3'	52:B6:16:VAL:HG12	1.74	0.67
22:BB:1080:A:H5''	30:BJ:11:GLN:OE1	1.93	0.67
22:BB:1453:A:OP2	22:BB:1454:U:C4	2.47	0.67
22:BB:2223:U:H2'	22:BB:2224:U:O4'	1.94	0.67
22:BB:320:A:H5''	22:BB:341:A:H61	1.60	0.67
22:BB:332:C:C4'	26:BF:160:ALA:HB2	2.24	0.67
27:BG:108:LEU:HA	27:BG:114:PHE:HD2	1.59	0.67
23:BA:92:G:C2	34:BN:23:LYS:CG	2.75	0.67
1:CA:1320:C:N3	19:CS:36:ARG:HG3	2.10	0.67
1:CA:815:A:N7	1:CA:1529:G:C5	2.62	0.67
1:CA:258:G:H5'	20:CT:83:ARG:HH22	1.60	0.67
11:CK:123:LYS:HD3	11:CK:123:LYS:H	1.59	0.67
19:CS:36:ARG:NH2	19:CS:53:ASN:HA	2.09	0.67
52:D6:22:ARG:HD2	52:D6:36:GLN:HG2	1.77	0.67
53:D7:149:ASN:HB3	53:D7:153:ARG:HH12	1.60	0.67
22:DB:1223:G:H4'	22:DB:1224:A:O5'	1.95	0.67
22:DB:1468:A:H62	35:DO:63:ARG:NH2	1.90	0.67
22:DB:1681:A:H2	32:DL:79:HIS:CE1	2.13	0.67
22:DB:2218:G:O3'	24:DD:230:ASP:HB3	1.94	0.67
22:DB:2438:A:N6	22:DB:2472:U:O4	2.28	0.67
22:DB:2463:G:C4	34:DN:120:ARG:NH2	2.62	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:DB:7:G:H1'	31:DK:163:PRO:HG2	1.75	0.67
22:DB:79:G:H2'	22:DB:80:A:H8	1.60	0.67
22:DB:950:G:H2'	22:DB:951:G:O4'	1.95	0.67
22:DB:2219:U:OP1	24:DD:229:VAL:HG13	1.95	0.67
22:DB:1675:C:H6	25:DE:134:TRP:CZ2	2.13	0.67
32:DL:91:PHE:CZ	37:DQ:79:ARG:HG3	2.30	0.67
40:DT:67:PRO:HA	40:DT:71:VAL:HG23	1.76	0.67
34:DN:106:GLU:O	43:DW:100:THR:OG1	2.12	0.67
1:EA:1227:A:H3'	13:EM:111:LYS:HZ3	1.56	0.67
1:EA:793:U:O4	1:EA:1516:G:O3'	2.13	0.67
1:EA:392:G:H5''	16:EP:12:LYS:CG	2.24	0.67
1:EA:973:G:C4'	10:EJ:54:PHE:CE2	2.64	0.67
2:EB:108:ILE:O	2:EB:112:VAL:HG23	1.94	0.67
1:EA:1081:G:C5'	5:EE:18:ARG:HA	2.25	0.67
9:EI:47:LEU:HB2	9:EI:50:LEU:HD12	1.77	0.67
1:EA:450:G:N2	16:EP:42:ARG:HH12	1.92	0.67
23:FA:10:U:H1'	36:FP:49:GLN:HB3	1.76	0.67
22:FB:1827:G:H2'	22:FB:1828:C:C5	2.26	0.67
22:FB:1841:G:H2'	22:FB:1842:G:H8	1.59	0.67
22:FB:3877:A:N6	22:FB:1862:C:C4	2.63	0.67
22:FB:2370:G:O6	49:F3:2:ALA:HB2	1.94	0.67
22:FB:2462:C:HO2'	34:FN:50:ALA:HB3	1.47	0.67
22:FB:2533:U:C3'	22:FB:2534:U:P	2.82	0.67
22:FB:320:A:H5''	22:FB:341:A:H61	1.60	0.67
22:FB:565:A:N3	31:FK:74:MET:HG2	2.09	0.67
22:FB:818:G:OP1	33:FM:45:LYS:HD3	1.95	0.67
22:FB:1072:U:N1	30:FJ:11:GLN:HG3	2.09	0.67
22:FB:8:A:C5'	31:FK:79:PHE:CZ	2.71	0.67
22:FB:2542:U:C5'	32:FL:40:GLY:HA3	2.25	0.67
22:FB:2461:G:H21	34:FN:53:ILE:HD12	1.59	0.67
32:FL:112:GLY:C	37:FQ:75:GLU:HB3	2.15	0.67
22:FB:590:C:C5'	38:FR:32:TYR:HB2	2.24	0.67
38:FR:3:ARG:NE	38:FR:4:ALA:H	1.89	0.67
22:FB:24:G:C4'	40:FT:98:ASP:CG	2.60	0.67
1:GA:1226:C:C5	13:GM:104:ARG:CA	2.77	0.67
1:GA:266:G:H5'	17:GQ:66:SER:CB	2.24	0.67
4:GD:107:ARG:NH2	4:GD:114:ARG:HH21	1.92	0.67
13:GM:87:TYR:HB2	19:GS:73:GLU:HA	1.71	0.67
22:HB:2861:A:N1	48:H2:31:THR:HB	2.09	0.67
22:HB:1841:G:H2'	22:HB:1842:G:H8	1.58	0.67
22:HB:2224:U:H3'	22:HB:2225:G:H5'	1.75	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:HB:3167:U:C4	53:H7:101:LYS:NZ	2.63	0.67
25:HE:199:ARG:NH1	25:HE:200:SER:H	1.91	0.67
26:HF:104:LEU:HD22	26:HF:180:ILE:HD13	1.77	0.67
27:HG:84:PRO:O	27:HG:85:VAL:HG22	1.95	0.67
28:HH:77:LYS:HA	28:HH:81:ASP:HB3	1.77	0.67
31:HK:116:ARG:HH22	31:HK:126:VAL:HG11	1.59	0.67
32:HL:85:ASP:C	37:HQ:84:ALA:HB3	2.13	0.67
22:HB:1256:C:O2'	33:HM:17:LYS:HA	1.95	0.67
34:HN:73:LYS:CB	34:HN:94:TRP:H	2.05	0.67
22:HB:1019:U:C2'	38:HR:59:ARG:HD2	2.24	0.67
22:HB:1996:A:C4'	40:HT:116:ILE:HG22	2.22	0.67
40:HT:50:VAL:HA	40:HT:54:GLU:HB2	1.77	0.67
41:HU:88:ILE:HG23	41:HU:89:GLU:N	2.09	0.67
43:HW:3:LEU:HD22	43:HW:34:LEU:HD11	1.75	0.67
1:IA:1463:C:OP1	37:JQ:117:ILE:CA	2.41	0.67
1:IA:597:G:H22	8:IH:131:GLY:HA2	0.67	0.67
1:IA:125:U:H5''	1:IA:605:U:O2'	1.94	0.67
1:IA:927:G:C8	1:IA:1503:A:OP1	2.48	0.67
4:ID:104:VAL:HA	4:ID:107:ARG:HB2	1.75	0.67
1:IA:511:C:O5'	4:ID:43:HIS:HE1	1.75	0.67
22:JB:2789:U:H1'	48:J2:30:LEU:CD1	2.24	0.67
22:JB:1357:U:C4	22:JB:1416:A:N1	2.63	0.67
22:JB:1692:C:H2'	22:JB:1693:A:O4'	1.94	0.67
22:JB:1781:C:C3'	24:JD:213:ARG:HH12	2.05	0.67
22:JB:2224:U:H3'	22:JB:2225:G:H5'	1.75	0.67
22:JB:2339:A:H1'	22:JB:2407:G:N1	2.09	0.67
22:JB:2615:U:P	25:JE:79:ARG:HG3	2.35	0.67
22:JB:501:G:H2'	22:JB:502:A:H8	1.60	0.67
22:JB:1820:G:O6	24:JD:221:GLN:HB3	1.94	0.67
22:JB:2490:U:H5'	25:JE:124:GLY:CA	2.25	0.67
27:JG:107:GLY:O	27:JG:111:ILE:HG12	1.95	0.67
22:JB:567:G:C4'	31:JK:73:ASN:C	2.57	0.67
33:JM:91:ASP:H	33:JM:121:HIS:HB3	1.60	0.67
34:JN:47:GLN:HE22	34:JN:121:LEU:HB3	1.59	0.67
22:JB:63:A:C1'	41:JU:62:ARG:HD3	2.24	0.67
22:JB:470:U:O2'	41:JU:68:PHE:CG	2.44	0.67
22:JB:2241:U:H5	44:JX:14:ARG:CA	2.06	0.67
22:JB:2241:U:C5	44:JX:14:ARG:N	2.63	0.67
22:JB:941:U:C2	46:JZ:22:ALA:O	2.48	0.67
1:AA:1350:A:OP1	9:AI:121:ARG:CG	2.42	0.67
1:AA:477:G:H1	1:AA:479:C:N4	1.93	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:907:A:H2'	1:AA:908:A:O4'	1.94	0.67
1:AA:970:C:OP1	10:AJ:57:LYS:HD3	1.95	0.67
2:AB:108:ILE:O	2:AB:112:VAL:HG23	1.94	0.67
2:AB:166:ASP:HB3	2:AB:169:LYS:HB3	1.75	0.67
9:AI:111:ARG:CD	14:AN:61:TRP:CZ2	2.78	0.67
1:AA:1346:A:H5'	9:AI:120:ARG:NH1	2.08	0.67
18:AR:51:LEU:HD13	18:AR:56:THR:HA	1.76	0.67
48:B2:45:ILE:HD11	48:B2:52:TYR:HD2	1.60	0.67
51:B5:28:GLY:H	51:B5:30:ARG:HH22	1.42	0.67
22:BB:1050:G:H5'	43:BW:37:LYS:HE3	1.77	0.67
22:BB:1142:G:C4'	31:BK:110:LEU:C	2.63	0.67
22:BB:1374:G:O3'	47:B1:53:GLU:OE2	2.12	0.67
22:BB:1819:U:H2'	22:BB:1820:G:O4'	1.94	0.67
22:BB:2503:G:H21	22:BB:2721:A:H1'	1.59	0.67
25:BE:92:ASN:HD21	25:BE:175:ILE:HD11	1.58	0.67
33:BM:91:ASP:H	33:BM:121:HIS:HB3	1.60	0.67
22:BB:964:A:O3'	34:BN:18:MET:HB3	1.95	0.67
37:BQ:36:ASP:CG	37:BQ:37:THR:H	1.97	0.67
42:BV:23:ILE:HG22	42:BV:24:VAL:H	1.59	0.67
43:BW:48:THR:HB	43:BW:130:ILE:O	1.94	0.67
45:BY:48:ARG:HD2	45:BY:52:GLN:HB3	1.77	0.67
45:BY:48:ARG:HD3	45:BY:51:ALA:HB3	1.77	0.67
1:CA:1514:C:H2'	1:CA:1515:C:H6	1.60	0.67
1:CA:907:A:H2'	1:CA:908:A:O4'	1.94	0.67
1:CA:644:G:C5'	8:CH:89:PRO:CB	2.73	0.67
1:CA:1118:C:P	9:CI:9:ARG:HH21	2.18	0.67
13:CM:66:LEU:HA	13:CM:70:LEU:HD12	1.76	0.67
17:CQ:21:VAL:HG12	17:CQ:22:LEU:H	1.60	0.67
22:DB:2351:G:H4'	49:D3:47:HIS:NE2	2.10	0.67
22:DB:1398:G:H5"	22:DB:1416:A:N3	2.09	0.67
22:DB:1481:U:H4'	22:DB:1561:A:C6	2.30	0.67
22:DB:2223:U:H2'	22:DB:2224:U:O4'	1.94	0.67
27:DG:107:GLY:O	27:DG:111:ILE:HG12	1.95	0.67
27:DG:127:ASN:HB3	27:DG:157:VAL:HG22	1.76	0.67
29:DI:30:ILE:HD13	29:DI:35:ALA:HA	1.77	0.67
32:DL:119:ARG:CZ	37:DQ:43:ASN:HD22	2.00	0.67
43:DW:3:LEU:HD22	43:DW:34:LEU:HD11	1.75	0.67
1:EA:1374:A:N3	7:EG:29:LYS:CE	2.58	0.67
1:EA:589:C:H4'	8:EH:29:SER:C	2.15	0.67
1:EA:1104:G:C1'	2:EB:111:ARG:CZ	2.66	0.67
1:EA:1081:G:H5"	5:EE:18:ARG:HG3	1.77	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:EF:87:ARG:HD2	18:ER:75:ILE:HG22	1.76	0.67
1:EA:1368:G:H5''	10:EJ:62:HIS:HE1	1.58	0.67
15:EO:87:ILE:HG22	15:EO:88:ARG:HG2	1.74	0.67
18:ER:54:ARG:HD3	18:ER:54:ARG:H	1.60	0.67
19:ES:36:ARG:NH2	19:ES:53:ASN:HA	2.09	0.67
22:FB:1399:C:H1'	22:FB:1484:G:N3	2.10	0.67
22:FB:1819:U:H2'	22:FB:1820:G:O4'	1.94	0.67
22:FB:2186:G:C2'	24:FD:150:GLY:HA3	2.24	0.67
22:FB:457:C:C5'	38:FR:3:ARG:HG2	2.24	0.67
26:FF:15:ILE:HG23	26:FF:16:GLU:N	2.08	0.67
1:GA:1229:A:H5''	13:GM:116:THR:CG2	2.25	0.67
1:GA:1432:G:H2'	1:GA:1467:G:O6	1.94	0.67
1:GA:190:A:C2	20:GT:105:SER:OG	2.47	0.67
1:GA:815:A:O2'	1:GA:1526:G:N3	2.27	0.67
1:GA:1251:A:C5'	9:GI:12:GLU:OE2	2.43	0.67
3:GC:29:TYR:CZ	10:GJ:11:PHE:HZ	2.11	0.67
1:GA:1229:A:O5'	13:GM:119:GLY:N	2.28	0.67
1:GA:740:U:O2	15:GO:46:HIS:HD2	1.78	0.67
12:GL:11:VAL:CA	17:GQ:32:TYR:CG	2.77	0.67
1:GA:264:U:C2'	17:GQ:63:ARG:C	2.63	0.67
19:GS:36:ARG:NH2	19:GS:53:ASN:HA	2.09	0.67
49:H3:24:THR:CG2	51:H5:33:ASN:CG	2.64	0.67
53:H7:149:ASN:HB3	53:H7:153:ARG:HH12	1.60	0.67
22:HB:1261:G:N3	38:HR:3:ARG:HD2	2.09	0.67
22:HB:1265:G:OP1	38:HR:14:HIS:HE1	1.67	0.67
22:HB:1397:A:C2	22:HB:1418:C:N4	2.63	0.67
22:HB:2558:C:C2'	25:HE:132:LYS:NZ	2.32	0.67
22:HB:2034:A:N6	22:HB:2595:C:H41	1.93	0.67
22:HB:699:G:C6	50:H4:5:TYR:HB2	2.29	0.67
22:HB:2558:C:C2'	25:HE:132:LYS:CD	2.71	0.67
25:HE:23:VAL:HG11	25:HE:188:ILE:HB	1.76	0.67
1:GA:339:C:C3'	32:HL:109:ARG:NE	2.44	0.67
32:HL:119:ARG:HH22	37:HQ:44:ARG:HA	1.59	0.67
33:HM:91:ASP:H	33:HM:121:HIS:HB3	1.60	0.67
34:HN:24:GLY:HA3	34:HN:98:VAL:HB	1.76	0.67
40:HT:67:PRO:HA	40:HT:71:VAL:HG23	1.76	0.67
42:HV:23:ILE:HG22	42:HV:24:VAL:H	1.59	0.67
1:IA:110:C:H2'	1:IA:111:G:O4'	1.95	0.67
1:IA:1115:C:P	14:IN:61:TRP:HB3	2.30	0.67
1:IA:247:G:O6	17:IQ:96:GLN:HG2	1.94	0.67
22:JB:3119:A:C6	53:J7:101:LYS:NZ	2.56	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:JB:1972:G:H2'	22:JB:1973:C:O4'	1.95	0.67
22:JB:872:G:N3	22:JB:2247:A:C2	2.63	0.67
22:JB:2261:G:H5'	22:JB:2368:G:H1'	1.76	0.67
22:JB:236:C:C1'	22:JB:632:A:HO2'	1.82	0.67
22:JB:2823:G:H1'	22:JB:2843:A:H61	1.59	0.67
22:JB:2042:A:OP1	26:JF:65:GLY:N	2.28	0.67
22:JB:953:G:OP1	33:JM:38:LYS:HG3	1.95	0.67
22:JB:1744:G:H1	37:JQ:126:LYS:C	1.97	0.67
22:JB:1007:A:H5''	38:JR:93:LYS:CE	2.24	0.67
40:JT:67:PRO:HA	40:JT:71:VAL:HG23	1.76	0.67
44:JX:67:VAL:HG13	44:JX:68:VAL:HG22	1.77	0.67
1:AA:1292:U:H5'	9:AI:38:GLN:OE1	1.95	0.67
1:AA:1383:C:P	7:AG:79:ARG:NH2	2.66	0.67
1:AA:16:A:C2	1:AA:1080:A:H1'	2.30	0.67
1:AA:171:A:H2'	1:AA:172:A:H8	1.60	0.67
1:AA:426:G:H4'	4:AD:42:GLN:H	0.87	0.67
1:AA:668:G:N9	15:AO:46:HIS:N	2.35	0.67
22:BB:1790:G:OP1	24:BD:258:LYS:CG	2.40	0.67
22:BB:2033:C:OP1	25:BE:137:ARG:NH2	2.28	0.67
22:BB:2063:A:P	47:B1:20:VAL:HG21	2.35	0.67
22:BB:38:G:H5'	26:BF:45:THR:HG21	1.77	0.67
22:BB:1073:G:H21	30:BJ:133:SER:HB2	1.59	0.67
32:BL:85:ASP:OD1	37:BQ:87:LEU:HD22	1.94	0.67
22:BB:506:G:H1'	40:BT:82:ASN:HA	1.77	0.67
41:BU:15:LYS:HA	41:BU:18:SER:HB3	1.76	0.67
22:BB:887:G:N9	43:BW:167:THR:CG2	2.42	0.67
1:CA:1256:A:N6	3:CC:26:LYS:HD3	2.09	0.67
1:CA:1515:C:H1'	1:CA:1521:G:H22	1.60	0.67
1:CA:234:C:OP1	17:CQ:64:PRO:CG	2.42	0.67
1:CA:28:G:O2'	1:CA:296:U:H5'	1.94	0.67
1:CA:477:G:H1	1:CA:479:C:N4	1.93	0.67
1:CA:656:C:H2'	1:CA:657:G:C8	2.30	0.67
1:CA:667:G:O3'	15:CO:48:LYS:O	2.13	0.67
1:CA:739:C:C2	15:CO:46:HIS:CD2	2.83	0.67
4:CD:61:LYS:HZ1	4:CD:62:GLN:HA	1.59	0.67
10:CJ:63:PHE:HA	14:CN:58:LYS:CA	2.25	0.67
1:CA:273:A:H2	17:CQ:16:GLN:H	1.29	0.67
22:DB:15:G:O4'	48:D2:21:SER:HB2	1.95	0.67
22:DB:2324:G:C5'	49:D3:40:TYR:CE1	2.77	0.67
22:DB:1006:C:H2'	38:DR:97:ASP:OD1	1.95	0.67
22:DB:1142:G:C2	31:DK:103:TYR:HA	2.30	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:DB:2256:G:H1'	34:DN:14:PHE:CZ	2.23	0.67
22:DB:2474:G:H5''	34:DN:82:THR:HA	1.75	0.67
25:DE:151:TYR:HD2	31:DK:106:TYR:HD1	0.77	0.67
22:DB:2659:C:C2	25:DE:187:ALA:HB2	2.29	0.67
26:DF:104:LEU:HD21	26:DF:180:ILE:HG21	1.75	0.67
22:DB:1991:C:O2'	35:DO:105:GLY:O	2.11	0.67
23:DA:117:G:H5'	36:DP:52:ALA:HA	1.72	0.67
34:DN:65:ILE:HG13	43:DW:117:VAL:HG21	1.76	0.67
1:EA:110:C:H2'	1:EA:111:G:O4'	1.95	0.67
1:EA:1343:G:H1'	9:EI:121:ARG:NH2	2.10	0.67
1:EA:782:A:OP1	1:EA:1521:G:N2	2.28	0.67
1:EA:171:A:H2'	1:EA:172:A:H8	1.60	0.67
1:EA:477:G:H1	1:EA:479:C:N4	1.93	0.67
1:EA:402:G:C4'	4:ED:135:LEU:HD11	2.19	0.67
1:EA:589:C:C3'	8:EH:29:SER:HB2	2.25	0.67
13:EM:66:LEU:HA	13:EM:70:LEU:HD12	1.76	0.67
1:EA:1318:A:C4'	19:ES:10:PHE:CG	2.71	0.67
33:FM:61:PRO:CB	51:F5:12:ARG:HD2	2.24	0.67
22:FB:3876:A:C1'	53:F7:45:ASP:OD1	2.41	0.67
22:FB:2277:A:H5''	27:FG:71:LYS:HD3	1.75	0.67
22:FB:2614:A:H5''	25:FE:78:LEU:HD12	1.77	0.67
22:FB:2647:G:H4'	28:FH:111:HIS:HD1	1.59	0.67
22:FB:413:G:C8	47:F1:63:PHE:CE1	2.83	0.67
15:EO:89:GLY:OXT	22:FB:729:A:P	2.53	0.67
22:FB:950:G:H2'	22:FB:951:G:O4'	1.95	0.67
25:FE:92:ASN:HD21	25:FE:175:ILE:HD11	1.58	0.67
34:FN:47:GLN:HE22	34:FN:121:LEU:HB3	1.59	0.67
22:FB:2474:G:H4'	34:FN:83:ARG:HD3	1.76	0.67
1:GA:1202:G:C6	10:GJ:54:PHE:CE1	2.82	0.67
1:GA:1248:A:H1'	9:GI:70:LYS:HE2	1.62	0.67
1:GA:824:C:C2'	8:GH:2:LEU:CD2	2.68	0.67
13:GM:87:TYR:HB2	19:GS:73:GLU:CB	2.25	0.67
22:HB:1972:G:H2'	22:HB:1973:C:O4'	1.95	0.67
22:HB:2398:U:H2'	22:HB:2399:C:C6	2.29	0.67
22:HB:818:G:H5'	33:HM:41:SER:HA	1.75	0.67
35:HO:45:ARG:HB3	35:HO:46:PRO:HD3	1.76	0.67
1:IA:767:A:N3	1:IA:1523:G:N2	2.43	0.67
1:IA:597:G:C2	8:IH:94:TYR:CD2	2.83	0.67
12:IL:19:ARG:CB	12:IL:20:LYS:N	2.58	0.67
1:IA:452:A:H1'	16:IP:72:ARG:NE	2.10	0.67
1:IA:247:G:C5'	17:IQ:100:LYS:CD	2.38	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:IR:54:ARG:H	18:IR:54:ARG:HD3	1.60	0.67
19:IS:36:ARG:NH2	19:IS:53:ASN:HA	2.10	0.67
22:JB:1819:U:H2'	22:JB:1820:G:O4'	1.93	0.67
22:JB:3877:A:C2	22:JB:1862:C:H1'	2.30	0.67
22:JB:2262:C:P	49:J3:3:LYS:NZ	2.68	0.67
22:JB:2487:G:C5'	22:JB:2534:U:H5'	2.24	0.67
22:JB:2034:A:N6	22:JB:2595:C:H41	1.93	0.67
22:JB:2603:G:N9	48:J2:22:HIS:NE2	2.42	0.67
22:JB:51:A:N6	22:JB:115:G:H2'	2.08	0.67
22:JB:588:G:H8	22:JB:2000:U:H3	1.43	0.67
22:JB:846:A:O2'	33:JM:53:ARG:HB2	1.95	0.67
22:JB:953:G:OP1	33:JM:38:LYS:HG2	1.93	0.67
24:JD:72:LYS:HA	24:JD:72:LYS:HE2	1.77	0.67
22:JB:2558:C:C4'	25:JE:132:LYS:CB	2.72	0.67
22:JB:2491:C:O2'	25:JE:141:ILE:CG2	2.42	0.67
22:JB:1468:A:C6	35:JO:80:MET:HB2	2.29	0.67
22:JB:2852:G:OP1	37:JQ:8:ASN:HB2	1.95	0.67
40:JT:50:VAL:HA	40:JT:54:GLU:HB2	1.77	0.67
42:JV:23:ILE:HG22	42:JV:24:VAL:H	1.59	0.67
7:AG:51:GLN:HB2	7:AG:58:PRO:HD3	1.77	0.66
1:AA:1228:C:N3	13:AM:120:LYS:CD	2.57	0.66
22:BB:1376:C:C6	47:B1:55:ARG:NH1	2.63	0.66
22:BB:2338:C:OP1	51:B5:50:LEU:HD22	1.95	0.66
22:BB:2470:U:N3	22:BB:2548:G:C2'	2.58	0.66
22:BB:340:G:N2	22:BB:511:A:H8	1.93	0.66
22:BB:5:A:H2	22:BB:2872:U:O2	1.79	0.66
22:BB:813:A:N3	22:BB:813:A:H2'	2.08	0.66
22:BB:857:U:H1'	22:BB:946:U:H1'	1.76	0.66
24:BD:106:LEU:HB2	24:BD:192:THR:HG21	1.77	0.66
35:BO:29:LEU:HB3	35:BO:74:ASP:HB3	1.77	0.66
37:BQ:16:ILE:HA	37:BQ:19:ASP:HB2	1.77	0.66
25:BE:176:ARG:CD	37:BQ:19:ASP:OD2	2.39	0.66
42:BV:90:LYS:HG3	42:BV:110:SER:HB3	1.75	0.66
22:BB:887:G:O4'	43:BW:167:THR:C	2.33	0.66
1:CA:1432:G:H2'	1:CA:1467:G:O6	1.94	0.66
1:CA:780:A:C3'	1:CA:1523:G:C5'	2.56	0.66
1:CA:171:A:H2'	1:CA:172:A:H8	1.60	0.66
1:CA:407:G:H5''	4:CD:115:ARG:HB2	1.75	0.66
1:CA:919:A:H1'	1:CA:1079:G:H1	1.59	0.66
1:CA:620:C:O2'	4:CD:138:TYR:HD1	1.74	0.66
1:CA:437:U:C5'	4:CD:155:LEU:HD13	2.05	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:CG:51:GLN:HB2	7:CG:58:PRO:HD3	1.77	0.66
1:CA:1308:U:OP1	13:CM:109:THR:CG2	2.44	0.66
22:DB:1041:G:N3	52:D6:5:SER:HB3	2.08	0.66
22:DB:165:G:P	47:D1:36:TRP:CH2	2.88	0.66
22:DB:177:U:P	47:D1:31:ILE:CG2	2.83	0.66
22:DB:2786:G:H4'	25:DE:59:VAL:CA	2.24	0.66
22:DB:810:U:C5	26:DF:56:ARG:NH1	2.63	0.66
22:DB:88:G:H3'	22:DB:90:G:OP1	1.95	0.66
26:DF:39:ARG:HE	26:DF:40:ARG:H	1.43	0.66
27:DG:131:GLY:HA3	27:DG:154:ILE:HD12	1.77	0.66
28:DH:77:LYS:HA	28:DH:81:ASP:HB3	1.77	0.66
35:DO:29:LEU:HB3	35:DO:74:ASP:HB3	1.78	0.66
37:DQ:16:ILE:HA	37:DQ:19:ASP:HB2	1.77	0.66
23:DA:78:A:OP1	43:DW:8:ARG:O	2.13	0.66
22:DB:868:U:O2	44:DX:25:LYS:CD	2.38	0.66
44:DX:67:VAL:HG13	44:DX:68:VAL:HG22	1.77	0.66
1:EA:1114:C:C1'	14:EN:61:TRP:CB	2.73	0.66
1:EA:1439:C:OP1	20:ET:34:LYS:CG	2.41	0.66
1:EA:928:G:H4'	1:EA:1533:C:N4	2.10	0.66
1:EA:583:A:H4'	17:EQ:90:ILE:CG1	2.25	0.66
1:EA:656:C:H2'	1:EA:657:G:C8	2.31	0.66
1:EA:538:G:OP2	12:EL:113:ARG:NH1	2.27	0.66
1:EA:1318:A:O2'	19:ES:10:PHE:CD2	2.42	0.66
1:EA:1318:A:C4'	19:ES:10:PHE:HB2	2.25	0.66
1:EA:1448:C:H1'	20:ET:25:ARG:HH12	1.60	0.66
23:FA:57:U:C1'	27:FG:26:MET:HE1	2.24	0.66
22:FB:1291:G:H4'	35:FO:33:ARG:O	1.95	0.66
22:FB:2679:G:N2	35:FO:68:GLN:CD	2.49	0.66
22:FB:311:A:OP2	42:FV:91:ALA:HB3	1.78	0.66
22:FB:340:G:C5	42:FV:28:LYS:HB2	2.27	0.66
22:FB:501:G:H2'	22:FB:502:A:H8	1.60	0.66
22:FB:575:U:C4	39:FS:80:TYR:O	2.47	0.66
22:FB:88:G:H3'	22:FB:90:G:OP1	1.95	0.66
22:FB:95:G:H4'	45:FY:39:GLN:C	2.13	0.66
29:FI:30:ILE:HD13	29:FI:35:ALA:HA	1.78	0.66
33:FM:91:ASP:H	33:FM:121:HIS:HB3	1.60	0.66
22:FB:1307:U:O2	35:FO:23:ALA:HA	1.95	0.66
37:FQ:16:ILE:HA	37:FQ:19:ASP:HB2	1.77	0.66
37:FQ:55:ILE:CD1	37:FQ:55:ILE:H	2.07	0.66
38:FR:88:ILE:HD11	39:FS:52:GLY:O	1.95	0.66
39:FS:69:ILE:HD11	39:FS:88:GLN:HE21	1.59	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:GA:1249:C:O2'	9:GI:69:GLY:C	2.32	0.66
1:GA:689:C:P	11:GK:51:LYS:NZ	2.67	0.66
9:GI:43:ALA:HA	9:GI:74:ILE:HD13	1.76	0.66
13:GM:84:ILE:HB	19:GS:66:MET:HB3	1.76	0.66
1:GA:958:A:H61	19:GS:77:THR:HG23	1.58	0.66
49:H3:43:VAL:HG23	49:H3:44:ALA:H	1.59	0.66
22:HB:1020:A:O3'	38:HR:62:ILE:HB	1.94	0.66
22:HB:2075:U:HO3'	22:HB:3093:C:P	2.01	0.66
22:HB:234:C:C2	33:HM:104:ARG:NH2	2.61	0.66
22:HB:2448:A:C3'	34:HN:57:ARG:CZ	2.73	0.66
22:HB:2606:G:H1'	22:HB:2757:G:N1	2.10	0.66
22:HB:501:G:H2'	22:HB:502:A:H8	1.61	0.66
22:HB:950:G:H2'	22:HB:951:G:O4'	1.95	0.66
34:HN:63:GLY:N	43:HW:111:GLY:H	1.92	0.66
45:HY:48:ARG:HD2	45:HY:52:GLN:HB3	1.77	0.66
1:IA:1151:A:C5'	10:IJ:42:THR:CA	2.74	0.66
1:IA:1515:C:H1'	1:IA:1521:G:H22	1.61	0.66
1:IA:247:G:H5'	17:IQ:100:LYS:CE	2.25	0.66
1:IA:579:G:H1'	15:IO:54:ARG:HE	1.60	0.66
1:IA:641:U:C6	8:IH:116:LYS:HG2	2.30	0.66
1:IA:1123:A:H4'	10:IJ:38:ILE:HG23	1.76	0.66
12:IL:11:VAL:CB	17:IQ:34:LYS:HD2	2.24	0.66
1:IA:718:G:O6	18:IR:81:PHE:CZ	2.47	0.66
51:J5:28:GLY:H	51:J5:30:ARG:HH22	1.42	0.66
22:JB:2506:C:H5''	52:J6:33:LYS:H	1.59	0.66
22:JB:1129:A:H5'	43:JW:76:ARG:CZ	2.25	0.66
22:JB:1197:U:C4	22:JB:1198:C:C2	2.83	0.66
22:JB:1781:C:OP1	24:JD:220:HIS:C	2.33	0.66
22:JB:2492:G:C2	22:JB:2549:G:O6	2.48	0.66
22:JB:2034:A:H61	22:JB:2595:C:H41	1.41	0.66
22:JB:3121:G:OP1	53:J7:130:PRO:CD	2.43	0.66
22:JB:539:A:O3'	22:JB:540:G:O5'	2.08	0.66
22:JB:539:A:H3'	22:JB:540:G:P	2.32	0.66
22:JB:742:G:P	24:JD:211:ARG:HH22	2.18	0.66
22:JB:871:U:O2'	22:JB:2248:A:C5'	2.43	0.66
22:JB:950:G:H2'	22:JB:951:G:O4'	1.95	0.66
22:JB:1813:A:C5'	24:JD:202:LYS:HZ1	2.02	0.66
22:JB:2550:C:O3'	25:JE:144:ARG:HG2	1.94	0.66
26:JF:104:LEU:HD22	26:JF:180:ILE:HD13	1.77	0.66
22:JB:491:A:H5'	42:JV:72:ARG:HG2	1.73	0.66
22:JB:308:C:H5''	42:JV:93:ARG:HH21	1.60	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:JN:107:VAL:O	43:JW:114:ASP:C	2.34	0.66
1:AA:656:C:H2'	1:AA:657:G:C8	2.31	0.66
1:AA:691:G:O5'	11:AK:26:ASN:ND2	2.27	0.66
12:AL:11:VAL:CG2	17:AQ:29:HIS:HD2	2.03	0.66
6:AF:99:ALA:HA	18:AR:62:GLU:OE2	1.96	0.66
33:BM:61:PRO:HG2	51:B5:12:ARG:HD3	1.76	0.66
53:B7:85:ILE:HG22	53:B7:86:THR:H	1.59	0.66
22:BB:1003:C:C4	22:BB:1173:G:N1	2.60	0.66
22:BB:1036:G:H1'	22:BB:1145:C:C4'	2.13	0.66
22:BB:2505:G:H5'	22:BB:2722:C:C5'	2.25	0.66
22:BB:501:G:H2'	22:BB:502:A:H8	1.60	0.66
22:BB:923:A:N3	22:BB:2243:C:O2'	2.28	0.66
22:BB:950:G:H2'	22:BB:951:G:O4'	1.95	0.66
25:BE:23:VAL:HG11	25:BE:188:ILE:HB	1.76	0.66
27:BG:127:ASN:HB3	27:BG:157:VAL:HG13	1.76	0.66
27:BG:131:GLY:HA3	27:BG:154:ILE:HD12	1.77	0.66
32:BL:77:THR:H	32:BL:90:ARG:NH2	1.93	0.66
33:BM:37:GLN:HE21	33:BM:38:LYS:H	1.43	0.66
44:BX:43:THR:HG23	44:BX:74:LYS:HB2	1.75	0.66
1:CA:1442:G:H21	1:CA:1443:G:H3'	1.60	0.66
1:CA:15:G:H22	1:CA:1080:A:C2'	2.08	0.66
2:CB:108:ILE:O	2:CB:112:VAL:HG23	1.94	0.66
1:CA:8:A:H5''	5:CE:121:LYS:HD2	1.76	0.66
1:CA:691:G:P	11:CK:26:ASN:CG	2.74	0.66
12:CL:46:LYS:HG2	12:CL:47:LYS:H	1.59	0.66
1:CA:741:G:O2'	15:CO:55:GLY:CA	2.44	0.66
22:DB:1804:U:O4'	24:DD:46:ARG:HG2	1.93	0.66
22:DB:1819:U:H2'	22:DB:1820:G:O4'	1.94	0.66
22:DB:910:U:H3'	22:DB:911:A:C8	2.29	0.66
24:DD:45:ASN:HB3	24:DD:50:THR:HA	1.78	0.66
25:DE:23:VAL:HG11	25:DE:188:ILE:HB	1.76	0.66
27:DG:72:LYS:HZ1	27:DG:73:SER:N	1.93	0.66
22:DB:608:G:C5'	33:DM:20:GLY:HA3	2.25	0.66
34:DN:102:ARG:H	34:DN:104:MET:HE1	1.60	0.66
34:DN:24:GLY:HA3	34:DN:98:VAL:HB	1.76	0.66
38:DR:94:VAL:HG11	39:DS:11:GLN:N	2.09	0.66
44:DX:45:PHE:H	44:DX:76:ALA:HA	1.61	0.66
1:EA:643:C:C6	8:EH:113:SER:OG	2.48	0.66
1:EA:778:G:H21	11:EK:120:ARG:HB2	1.59	0.66
40:FT:56:LEU:CA	48:F2:28:PRO:HD3	1.84	0.66
22:FB:1235:C:P	39:FS:68:LYS:CD	2.82	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:FB:1321:A:O2'	50:F4:8:ASN:HB2	1.95	0.66
22:FB:2056:C:C5'	24:FD:229:VAL:CG2	2.67	0.66
22:FB:2470:U:O2	22:FB:2548:G:O3'	2.12	0.66
22:FB:2687:G:H1'	35:FO:68:GLN:HB3	1.77	0.66
25:FE:23:VAL:HG11	25:FE:188:ILE:HB	1.76	0.66
30:FJ:125:ASN:H	30:FJ:125:ASN:HD22	1.43	0.66
32:FL:77:THR:H	32:FL:90:ARG:NH2	1.93	0.66
38:FR:44:THR:CG2	39:FS:77:GLY:H	2.07	0.66
43:FW:88:TYR:H	43:FW:90:GLU:N	1.93	0.66
1:GA:1374:A:O5'	7:GG:31:MET:HE1	1.93	0.66
1:GA:7:G:H2'	5:GE:101:ILE:CG2	2.25	0.66
1:GA:251:G:C2'	17:GQ:67:LYS:HZ2	2.07	0.66
22:HB:1197:U:OP1	46:HZ:26:ARG:CZ	2.43	0.66
22:HB:127:C:O4'	22:HB:1360:G:N2	2.27	0.66
22:HB:1828:C:O2'	22:HB:1911:A:O3'	2.12	0.66
22:HB:2034:A:H61	22:HB:2595:C:H41	1.42	0.66
22:HB:3167:U:C4	53:H7:98:ARG:CZ	2.70	0.66
22:HB:51:A:N6	22:HB:115:G:H2'	2.08	0.66
22:HB:60:A:C4'	45:HY:29:ARG:HH22	1.89	0.66
22:HB:965:G:H5''	34:HN:18:MET:CE	2.24	0.66
25:HE:143:GLN:HB2	25:HE:144:ARG:HH11	1.59	0.66
22:HB:2494:C:H5'	25:HE:151:TYR:HH	1.60	0.66
22:HB:2747:C:C4'	31:HK:114:THR:CG2	2.71	0.66
36:HP:43:ILE:HD13	36:HP:49:GLN:HA	1.77	0.66
38:HR:33:ARG:HH21	38:HR:34:ASN:HD21	1.43	0.66
22:HB:2235:G:O2'	44:HX:8:GLY:C	2.33	0.66
1:IA:1420:C:N4	1:IA:1480:G:H1	1.93	0.66
1:IA:247:G:OP2	17:IQ:101:ARG:N	2.28	0.66
3:IC:5:ILE:HG23	10:IJ:51:ARG:HH11	1.57	0.66
8:IH:1:MET:HG2	8:IH:2:LEU:H	1.60	0.66
13:IM:86:CYS:HB2	19:IS:74:PHE:CE2	2.30	0.66
22:JB:2210:C:O5'	47:J1:39:VAL:CG2	2.39	0.66
22:JB:1998:A:HO2'	48:J2:3:LYS:HB2	1.56	0.66
22:JB:2791:C:C4'	48:J2:43:HIS:ND1	2.58	0.66
22:JB:477:A:C5'	50:J4:16:HIS:HE1	1.81	0.66
51:J5:7:HIS:HA	51:J5:10:ALA:HB3	1.77	0.66
22:JB:1003:C:H4'	39:JS:74:TYR:HB2	1.67	0.66
22:JB:2311:U:H4'	22:JB:2315:A:N6	2.10	0.66
22:JB:2406:C:H5''	22:JB:2408:G:C1'	2.25	0.66
22:JB:2724:G:N2	28:JH:143:GLN:CD	2.43	0.66
22:JB:597:U:H1'	26:JF:84:PHE:CD2	2.21	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:JB:746:G:N1	22:JB:774:A:H2'	2.09	0.66
27:JG:131:GLY:HA3	27:JG:154:ILE:HD12	1.77	0.66
22:JB:2708:U:P	32:JL:82:LYS:HE3	2.35	0.66
1:AA:1220:G:H21	19:AS:55:LYS:N	1.94	0.66
1:AA:1420:C:N4	1:AA:1480:G:H1	1.93	0.66
1:AA:1442:G:H21	1:AA:1443:G:H3'	1.60	0.66
1:AA:15:G:C2'	5:AE:17:ALA:CB	2.37	0.66
1:AA:28:G:O2'	1:AA:296:U:H5'	1.94	0.66
1:AA:265:G:C2	17:AQ:64:PRO:HB3	2.30	0.66
6:AF:49:ALA:HB2	18:AR:78:LEU:C	2.14	0.66
23:BA:59:A:N9	27:BG:24:SER:OG	2.20	0.66
22:BB:1136:G:N7	52:B6:4:ARG:HG2	2.11	0.66
22:BB:2358:C:OP1	36:BP:19:THR:HG23	1.94	0.66
22:BB:2769:C:C2	22:BB:2867:G:N2	2.62	0.66
22:BB:506:G:O4'	40:BT:82:ASN:O	2.07	0.66
22:BB:597:U:H5'	33:BM:28:LYS:CG	2.24	0.66
22:BB:88:G:H3'	22:BB:90:G:OP1	1.95	0.66
22:BB:1816:G:H22	24:BD:252:LYS:CD	2.02	0.66
26:BF:39:ARG:HE	26:BF:40:ARG:H	1.43	0.66
38:BR:94:VAL:CG1	39:BS:10:LYS:HD2	2.11	0.66
1:CA:110:C:H2'	1:CA:111:G:O4'	1.95	0.66
1:CA:1279:A:HO2'	1:CA:1281:U:H5''	1.61	0.66
1:CA:9:G:O5'	5:CE:122:GLU:CD	2.34	0.66
1:CA:599:C:H5''	8:CH:96:GLY:CA	2.22	0.66
13:CM:83:ASP:OD1	22:DB:900(A):A:H5'	1.94	0.66
18:CR:51:LEU:HD13	18:CR:56:THR:HA	1.76	0.66
22:DB:475:U:H4'	50:D4:5:TYR:CG	2.29	0.66
53:D7:213:VAL:HG12	53:D7:214:LYS:H	1.59	0.66
53:D7:36:PHE:H	53:D7:163:PRO:HB2	1.60	0.66
22:DB:82:G:H21	22:DB:101:A:H62	1.39	0.66
22:DB:1044:U:H6	52:D6:16:VAL:HG11	1.58	0.66
22:DB:1675:C:H6	25:DE:134:TRP:CH2	2.13	0.66
22:DB:24:G:O4'	40:DT:98:ASP:CG	2.34	0.66
22:DB:501:G:H2'	22:DB:502:A:H8	1.60	0.66
30:DJ:53:ILE:HG23	30:DJ:72:PRO:HG2	1.76	0.66
25:DE:151:TYR:CE2	31:DK:106:TYR:HD1	2.11	0.66
22:DB:2494:C:H5''	31:DK:108:GLY:C	2.15	0.66
32:DL:113:PRO:HG3	37:DQ:76:GLY:HA3	1.76	0.66
34:DN:61:ARG:HB2	43:DW:112:LEU:CD2	2.26	0.66
37:DQ:36:ASP:HA	37:DQ:94:VAL:HB	1.78	0.66
22:DB:456:C:H5'	38:DR:2:PRO:O	1.96	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:EA:1104:G:C1'	2:EB:111:ARG:HD3	2.15	0.66
1:EA:1187:G:N2	14:EN:61:TRP:HA	2.10	0.66
1:EA:878:G:C5'	8:EH:88:LYS:HG2	2.25	0.66
1:EA:450:G:H1'	16:EP:42:ARG:HD2	1.77	0.66
22:FB:219:G:C5'	51:F5:62:LEU:HD12	2.19	0.66
22:FB:874:A:O2'	23:FA:81:C:C5'	2.43	0.66
22:FB:123:A:H4'	50:F4:23:LYS:HZ1	1.60	0.66
22:FB:114:C:H4'	22:FB:124:A:H4'	1.75	0.66
22:FB:121:G:H5''	22:FB:1388:C:O2'	1.95	0.66
22:FB:1399:C:N4	22:FB:1414:G:N1	2.44	0.66
22:FB:1583:A:H61	24:FD:89:SER:CA	2.08	0.66
22:FB:1674:C:O5'	25:FE:134:TRP:HB3	1.94	0.66
22:FB:1752:U:O2'	22:FB:1753:A:H5'	1.95	0.66
22:FB:2742:G:H21	28:FH:150:LYS:HE2	1.59	0.66
22:FB:2773:G:C2	22:FB:2780:A:C1'	2.68	0.66
22:FB:1269:G:C2	26:FF:76:THR:HA	2.25	0.66
27:FG:131:GLY:HA3	27:FG:154:ILE:HD12	1.78	0.66
31:FK:116:ARG:HH22	31:FK:126:VAL:HG11	1.59	0.66
25:FE:26:VAL:HG21	37:FQ:3:THR:OG1	1.94	0.66
22:FB:455:A:C2'	38:FR:2:PRO:CD	2.73	0.66
22:FB:1164:C:C4'	38:FR:76:TYR:HE2	1.99	0.66
22:FB:2240:C:H5	44:FX:13:GLY:O	1.79	0.66
44:FX:45:PHE:H	44:FX:76:ALA:HA	1.61	0.66
1:GA:1514:C:H2'	1:GA:1515:C:H6	1.59	0.66
1:GA:338:A:H2'	1:GA:339:C:O4'	1.96	0.66
10:GJ:64:GLU:CG	14:GN:58:LYS:HA	2.10	0.66
1:GA:735:C:C6	18:GR:75:ILE:HD11	2.28	0.66
1:GA:223:U:N1	20:GT:68:LYS:NZ	2.43	0.66
48:H2:57:VAL:HG12	48:H2:58:LEU:H	1.61	0.66
51:H5:7:HIS:HA	51:H5:10:ALA:HB3	1.77	0.66
22:HB:1070:G:O2'	30:HJ:127:VAL:HG22	1.95	0.66
22:HB:1749:G:C6	22:HB:2674:C:H4'	2.29	0.66
22:HB:1819:U:H2'	22:HB:1820:G:O4'	1.94	0.66
22:HB:2398:U:H5''	51:H5:33:ASN:C	2.16	0.66
22:HB:2646:C:C2	28:HH:109:TYR:CA	2.76	0.66
22:HB:3197:U:O2	22:HB:2203:G:N1	2.29	0.66
22:HB:215:G:C4'	22:HB:617:U:O2'	2.44	0.66
29:HI:30:ILE:HD13	29:HI:35:ALA:HA	1.77	0.66
31:HK:41:TRP:HE1	31:HK:164:GLN:HB2	1.59	0.66
22:HB:2540:A:O2'	32:HL:23:ARG:HG3	1.96	0.66
33:HM:62:LYS:HD2	51:H5:31:HIS:NE2	2.09	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:HN:100:PRO:HG2	34:HN:102:ARG:NH1	2.09	0.66
37:HQ:16:ILE:HA	37:HQ:19:ASP:HB2	1.77	0.66
22:HB:2237:C:C5	44:HX:2:ALA:HB1	2.23	0.66
1:IA:1380:U:C5	7:IG:3:ARG:HG3	2.31	0.66
1:IA:1441:G:O6	20:IT:31:SER:HB2	1.95	0.66
1:IA:589:C:C5'	8:IH:31:PHE:CB	2.72	0.66
5:IE:31:LEU:HD22	5:IE:43:LEU:HD13	1.76	0.66
1:IA:1123:A:O4'	10:IJ:37:PRO:O	2.13	0.66
10:IJ:64:GLU:CG	14:IN:59:ALA:CB	2.74	0.66
12:IL:46:LYS:HG2	12:IL:47:LYS:H	1.59	0.66
13:IM:81:LEU:O	13:IM:92:HIS:NE2	2.27	0.66
1:IA:718:G:O6	18:IR:81:PHE:CG	2.48	0.66
22:JB:1452:U:H2'	22:JB:1453:A:H8	1.61	0.66
22:JB:2260:C:H3'	22:JB:2261:G:P	2.34	0.66
22:JB:2857:C:OP1	35:JO:98:LEU:HD11	1.94	0.66
22:JB:348:U:O2	42:JV:11:ASN:ND2	2.28	0.66
22:JB:567:G:H4'	31:JK:73:ASN:O	1.95	0.66
31:JK:156:HIS:O	31:JK:157:PRO:C	2.31	0.66
35:JO:29:LEU:HB3	35:JO:74:ASP:HB3	1.78	0.66
22:JB:1996:A:O3'	40:JT:116:ILE:HB	1.94	0.66
45:JY:48:ARG:HD3	45:JY:51:ALA:HB3	1.78	0.66
1:AA:105:G:O6	20:AT:14:LYS:NZ	2.29	0.66
1:AA:110:C:H2'	1:AA:111:G:O4'	1.95	0.66
1:AA:1127:G:H1'	9:AI:16:ARG:HH22	1.60	0.66
1:AA:1349:A:P	9:AI:118:LYS:O	2.54	0.66
1:AA:690:G:OP1	11:AK:27:ASN:HB3	1.95	0.66
4:AD:107:ARG:NH2	4:AD:114:ARG:HH21	1.92	0.66
4:AD:100:ARG:HH22	4:AD:137:SER:HB3	1.60	0.66
1:AA:946:A:C5'	13:AM:114:ARG:HH22	2.08	0.66
1:AA:1229:A:C6	13:AM:120:LYS:CB	2.78	0.66
1:AA:751:U:H1'	15:AO:23:GLY:O	1.95	0.66
1:AA:332:G:H4'	20:AT:13:LEU:HD11	0.77	0.66
48:B2:57:VAL:HG12	48:B2:58:LEU:H	1.61	0.66
52:B6:22:ARG:HD2	52:B6:36:GLN:HG2	1.76	0.66
22:BB:82:G:H21	22:BB:101:A:H62	1.39	0.66
22:BB:1127:C:HO3'	22:BB:1128:G:P	2.18	0.66
22:BB:1488:G:C5	22:BB:1536:G:N2	2.63	0.66
22:BB:1289:A:OP2	22:BB:1662:G:C2	2.49	0.66
22:BB:18:U:O2	22:BB:563:U:H4'	1.96	0.66
22:BB:2543:A:N6	22:BB:2625:U:HO2'	1.83	0.66
22:BB:3176:A:O2'	53:B7:35:THR:CG2	2.42	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:BI:30:ILE:HD13	29:BI:35:ALA:HA	1.77	0.66
31:BK:156:HIS:O	31:BK:157:PRO:C	2.31	0.66
22:BB:674:U:O2	33:BM:23:PRO:CA	2.41	0.66
22:BB:969:U:C4	34:BN:20:GLY:CA	2.78	0.66
22:BB:29:U:O2'	38:BR:8:ILE:HG21	1.95	0.66
22:BB:494:A:C4	42:BV:56:LYS:HG3	2.30	0.66
43:BW:94:VAL:HG11	43:BW:125:PRO:HG2	1.77	0.66
1:CA:1420:C:N4	1:CA:1480:G:H1	1.93	0.66
1:CA:589:C:P	8:CH:5:PRO:HG2	2.36	0.66
22:DB:2338:C:H5'	51:D5:50:LEU:CD2	2.25	0.66
22:DB:1044:U:C5	52:D6:16:VAL:CG2	2.79	0.66
22:DB:1584:G:O6	24:DD:84:TYR:OH	2.13	0.66
28:DH:97:LYS:O	28:DH:103:LEU:HA	1.95	0.66
32:DL:132:GLU:CG	37:DQ:75:GLU:OE1	2.38	0.66
38:DR:33:ARG:HH21	38:DR:34:ASN:HD21	1.43	0.66
23:DA:78:A:O3'	43:DW:13:LYS:CD	2.42	0.66
45:DY:48:ARG:HD2	45:DY:52:GLN:HB3	1.77	0.66
1:EA:1002:G:N3	1:EA:1002:G:H2'	2.11	0.66
1:EA:1432:G:H2'	1:EA:1467:G:O6	1.94	0.66
1:EA:439:A:O2'	4:ED:122:ARG:NH2	2.19	0.66
1:EA:932:C:H5''	7:EG:3:ARG:CD	2.17	0.66
2:EB:50:GLU:HG3	2:EB:200:ILE:HB	1.76	0.66
1:EA:436:C:C5'	4:ED:156:GLU:CB	2.57	0.66
48:F2:57:VAL:HG12	48:F2:58:LEU:H	1.61	0.66
22:FB:2003:A:N6	48:F2:9:LYS:HD3	1.99	0.66
22:FB:2063:A:H4'	47:F1:32:HIS:O	1.94	0.66
22:FB:2258:G:H1'	22:FB:2306:A:C2'	2.24	0.66
22:FB:2292:C:H5'	27:FG:87:ILE:HD12	1.67	0.66
22:FB:2637:C:H5''	28:FH:158:HIS:CE1	2.31	0.66
22:FB:2856:U:H4'	35:FO:93:GLY:CA	2.25	0.66
22:FB:813:A:H2'	22:FB:813:A:N3	2.08	0.66
24:FD:45:ASN:HB3	24:FD:50:THR:HA	1.77	0.66
22:FB:1269:G:C2	26:FF:76:THR:CG2	2.55	0.66
27:FG:84:PRO:O	27:FG:85:VAL:HG22	1.95	0.66
22:FB:2541:U:H4'	32:FL:24:VAL:O	1.95	0.66
35:FO:29:LEU:HB3	35:FO:74:ASP:HB3	1.78	0.66
38:FR:33:ARG:HH21	38:FR:34:ASN:HD21	1.43	0.66
22:FB:57:G:C4'	41:FU:75:ARG:NH2	2.52	0.66
44:FX:67:VAL:HG13	44:FX:68:VAL:HG22	1.76	0.66
1:GA:828:A:OP1	8:GH:21:LYS:CD	2.42	0.66
1:GA:17:U:C5'	5:GE:14:ARG:NE	2.58	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:GF:23:LYS:HA	6:GF:26:ILE:HD12	1.78	0.66
18:GR:54:ARG:H	18:GR:54:ARG:HD3	1.61	0.66
22:HB:1135:C:O2'	52:H6:4:ARG:HA	1.92	0.66
22:HB:1041:G:H5''	34:HN:119:PHE:HE2	1.54	0.66
22:HB:2311:U:H4'	22:HB:2315:A:N6	2.10	0.66
22:HB:494:A:N3	42:HV:56:LYS:CD	2.58	0.66
26:HF:22:VAL:HG22	26:HF:23:ASN:N	2.10	0.66
26:HF:39:ARG:HE	26:HF:40:ARG:H	1.44	0.66
35:HO:29:LEU:HB3	35:HO:74:ASP:HB3	1.78	0.66
41:HU:15:LYS:HA	41:HU:18:SER:HB3	1.76	0.66
45:HY:48:ARG:HD3	45:HY:51:ALA:HB3	1.78	0.66
1:IA:477:G:H1	1:IA:479:C:N4	1.93	0.66
2:IB:108:ILE:O	2:IB:112:VAL:HG23	1.94	0.66
7:IG:16:LEU:HG	9:II:42:ARG:HD2	1.78	0.66
1:IA:640:A:C2'	8:IH:127:LEU:HD12	2.17	0.66
1:IA:1013:G:OP2	19:IS:17:GLU:OE1	2.13	0.66
1:IA:191:G:H21	20:IT:56:MET:HE1	1.59	0.66
53:J7:85:ILE:HG22	53:J7:86:THR:H	1.59	0.66
22:JB:541:C:OP1	22:JB:2004:U:O4	2.14	0.66
22:JB:217:U:C5'	22:JB:634:G:H5'	2.25	0.66
22:JB:2259:G:H22	22:JB:2367:A:H1'	1.60	0.66
22:JB:644:A:C2	22:JB:2382:C:H4'	2.30	0.66
22:JB:341:A:H62	42:JV:27:GLY:HA2	1.60	0.66
22:JB:493:A:O2'	42:JV:56:LYS:HG3	1.94	0.66
1:AA:1002:G:H2'	1:AA:1002:G:N3	2.11	0.66
1:AA:1374:A:OP2	7:AG:36:LYS:NZ	2.28	0.66
1:AA:276:G:C2	17:AQ:68:ARG:NH2	2.64	0.66
6:AF:23:LYS:HA	6:AF:26:ILE:HD12	1.77	0.66
1:AA:981:U:OP1	14:AN:6:LEU:CD2	2.43	0.66
18:AR:54:ARG:H	18:AR:54:ARG:HD3	1.60	0.66
1:AA:1318:A:H2	19:AS:37:ARG:NH1	1.94	0.66
22:BB:167:A:P	47:B1:36:TRP:HE1	2.18	0.66
22:BB:2343:C:O2'	44:BX:66:LYS:HD2	1.95	0.66
22:BB:582:G:H2'	22:BB:583:C:H3'	1.78	0.66
24:BD:45:ASN:HB3	24:BD:50:THR:HA	1.77	0.66
22:BB:2558:C:H5'	25:BE:132:LYS:CB	2.25	0.66
27:BG:127:ASN:HB3	27:BG:157:VAL:HG22	1.76	0.66
22:BB:2291:U:OP1	27:BG:70:ALA:HB2	1.94	0.66
22:BB:1142:G:C8	31:BK:110:LEU:HD22	2.29	0.66
32:BL:21:CYS:HA	32:BL:54:SER:N	2.09	0.66
32:BL:85:ASP:OD2	37:BQ:87:LEU:HD22	1.95	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:BM:45:LYS:HZ2	33:BM:45:LYS:HB2	1.59	0.66
34:BN:100:PRO:HG2	34:BN:102:ARG:NH1	2.10	0.66
34:BN:73:LYS:HE3	34:BN:94:TRP:N	2.09	0.66
22:BB:63:A:O2'	41:BU:69:ILE:HG22	1.96	0.66
1:CA:1002:G:N3	1:CA:1002:G:H2'	2.11	0.66
1:CA:1345:U:O5'	9:CI:120:ARG:CZ	2.43	0.66
4:CD:205:GLU:HA	5:CE:101:ILE:HG23	1.76	0.66
8:CH:1:MET:HG2	8:CH:2:LEU:H	1.60	0.66
9:CI:47:LEU:HB2	9:CI:50:LEU:HD12	1.77	0.66
22:DB:2324:G:H5'	49:D3:40:TYR:CE1	2.30	0.66
51:D5:7:HIS:HA	51:D5:10:ALA:HB3	1.77	0.66
22:DB:1175:A:N1	22:DB:1198:C:N3	2.43	0.66
22:DB:1481:U:C5'	22:DB:1561:A:N1	2.59	0.66
22:DB:2492:G:C2'	22:DB:2493:U:C5	2.78	0.66
22:DB:2628:C:O3'	32:DL:29:ILE:HD12	1.93	0.66
22:DB:7:G:H5'	31:DK:160:ALA:O	1.95	0.66
22:DB:813:A:H2'	22:DB:813:A:N3	2.08	0.66
25:DE:176:ARG:CG	37:DQ:16:ILE:HD12	2.17	0.66
26:DF:149:LEU:HB3	26:DF:187:VAL:H	1.59	0.66
29:DI:2:GLN:HB2	29:DI:4:ILE:HD11	1.78	0.66
34:DN:73:LYS:HE3	34:DN:94:TRP:N	2.09	0.66
22:DB:574:C:P	39:DS:80:TYR:H	2.17	0.66
40:DT:50:VAL:HA	40:DT:54:GLU:HB2	1.77	0.66
41:DU:15:LYS:HA	41:DU:18:SER:HB3	1.76	0.66
1:EA:1102:A:N1	2:EB:104:ASN:ND2	2.43	0.66
1:EA:1442:G:H21	1:EA:1443:G:H3'	1.61	0.66
3:EC:167:TRP:CE2	5:EE:25:ARG:NH2	2.51	0.66
7:EG:51:GLN:HB2	7:EG:58:PRO:HD3	1.77	0.66
1:EA:740:U:OP2	15:EO:3:ILE:HD13	1.94	0.66
1:EA:44:G:OP1	16:EP:11:SER:HB3	1.95	0.66
22:FB:1399:C:N4	22:FB:1414:G:C6	2.63	0.66
22:FB:1452:U:H2'	22:FB:1453:A:H8	1.61	0.66
22:FB:1468:A:N6	35:FO:57:GLY:O	2.28	0.66
22:FB:2260:C:C4'	22:FB:2368:G:H21	2.08	0.66
22:FB:2464:G:HO2'	34:FN:122:ALA:C	1.94	0.66
22:FB:582:G:H2'	22:FB:583:C:H3'	1.78	0.66
24:FD:106:LEU:HB2	24:FD:192:THR:HG21	1.77	0.66
26:FF:104:LEU:HD21	26:FF:180:ILE:HG21	1.75	0.66
22:FB:1269:G:H2'	26:FF:76:THR:HG21	1.76	0.66
22:FB:2282:G:N3	27:FG:129:ASN:HB2	2.10	0.66
27:FG:72:LYS:HZ1	27:FG:73:SER:N	1.93	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:FQ:12:LEU:HA	37:FQ:16:ILE:HB	1.78	0.66
22:FB:2240:C:O4'	44:FX:14:ARG:CG	2.44	0.66
1:GA:171:A:H2'	1:GA:172:A:H8	1.60	0.66
1:GA:426:G:H5'	4:GD:45:GLN:NE2	2.10	0.66
1:GA:429:U:H1'	1:GA:430:A:H5''	1.76	0.66
1:GA:676:A:C2	11:GK:118:GLY:O	2.47	0.66
4:GD:100:ARG:HH22	4:GD:137:SER:HB3	1.60	0.66
8:GH:1:MET:HG2	8:GH:2:LEU:H	1.60	0.66
10:GJ:64:GLU:O	14:GN:56:VAL:O	2.13	0.66
22:HB:1376:C:C5	47:H1:55:ARG:NE	2.45	0.66
51:H5:28:GLY:H	51:H5:30:ARG:HH22	1.42	0.66
22:HB:2398:U:C5'	51:H5:33:ASN:N	2.58	0.66
22:HB:1452:U:H2'	22:HB:1453:A:H8	1.61	0.66
22:HB:2181:A:N3	29:HI:24:TYR:HE2	1.92	0.66
22:HB:2490:U:C2	25:HE:138:PRO:O	2.44	0.66
22:HB:497:C:H1'	40:HT:80:LEU:CB	2.21	0.66
22:HB:498:C:C6	40:HT:77:ALA:HB1	2.29	0.66
22:HB:57:G:C2'	22:HB:72:A:C6	2.61	0.66
22:HB:746:G:N1	22:HB:774:A:H2'	2.10	0.66
22:HB:910:U:C6	22:HB:911:A:OP1	2.49	0.66
24:HD:106:LEU:HB2	24:HD:192:THR:HG21	1.77	0.66
25:HE:29:GLY:HA2	25:HE:90:SER:H	1.61	0.66
22:HB:460:U:H2'	26:HF:78:VAL:CG2	2.26	0.66
27:HG:107:GLY:O	27:HG:111:ILE:HG12	1.95	0.66
27:HG:127:ASN:HB3	27:HG:157:VAL:HG22	1.76	0.66
28:HH:24:PHE:N	28:HH:35:VAL:HG21	2.09	0.66
22:HB:2760:G:H22	31:HK:150:VAL:HG13	1.60	0.66
22:HB:633:G:OP2	33:HM:101:ARG:NH2	2.28	0.66
25:HE:195:LEU:CD2	37:HQ:2:GLN:O	2.43	0.66
22:HB:490:A:P	42:HV:5:SER:HB2	2.34	0.66
41:HU:92:ALA:CB	45:HY:27:GLU:CB	2.60	0.66
1:IA:1147:C:C1'	9:II:16:ARG:CZ	2.48	0.66
1:IA:171:A:H2'	1:IA:172:A:H8	1.60	0.66
1:IA:449:C:O3'	16:IP:42:ARG:N	2.01	0.66
1:IA:967:C:C6	9:II:128:ARG:OXT	2.49	0.66
4:ID:153:ARG:HA	4:ID:158:ILE:HG21	1.78	0.66
1:IA:1369:C:OP2	9:II:112:LYS:HB3	1.95	0.66
13:IM:87:TYR:HB3	19:IS:73:GLU:C	2.16	0.66
1:IA:1226:C:HO2'	19:IS:80:TYR:HE2	0.70	0.66
22:JB:114:C:C1'	50:J4:19:ARG:NH2	2.51	0.66
22:JB:1949:A:N3	22:JB:2571:G:O2'	2.23	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:JB:1996:A:O3'	40:JT:116:ILE:C	2.33	0.66
22:JB:2638:G:H2'	22:JB:2640:G:OP2	1.96	0.66
22:JB:75:C:C1'	45:JY:55:THR:CA	2.68	0.66
36:JP:43:ILE:HD13	36:JP:49:GLN:HA	1.77	0.66
1:AA:742:G:H5'	15:AO:58:MET:HE3	1.75	0.66
1:AA:273:A:O2'	17:AQ:15:MET:HA	1.94	0.66
17:AQ:21:VAL:HG12	17:AQ:22:LEU:H	1.60	0.66
53:B7:203:ILE:HG22	53:B7:215:VAL:HG21	1.78	0.66
22:BB:115:G:N7	22:BB:117:A:C5	2.63	0.66
22:BB:2063:A:OP1	47:B1:20:VAL:CG1	2.43	0.66
22:BB:2344:G:H5'	44:BX:41:ARG:C	2.16	0.66
22:BB:2523:G:O4'	22:BB:2624:G:C8	2.49	0.66
22:BB:1091:C:H5''	30:BJ:125:ASN:HB2	1.76	0.66
22:BB:2007:G:C2	31:BK:103:TYR:HE1	1.87	0.66
32:BL:29:ILE:HG21	32:BL:32:LYS:HB2	1.78	0.66
36:BP:43:ILE:HD13	36:BP:49:GLN:HA	1.78	0.66
22:BB:1235:C:OP1	39:BS:69:ILE:HG22	1.96	0.66
43:BW:18:MET:H	43:BW:36:ARG:NH1	1.94	0.66
1:CA:1195:C:H3'	1:CA:1196:U:C5'	2.25	0.66
1:CA:335:C:O2	1:CA:1434:A:H2	1.79	0.66
1:CA:521:G:OP1	12:CL:53:ARG:HG3	1.88	0.66
1:CA:588:G:H5''	8:CH:5:PRO:CD	2.24	0.66
3:CC:132:ARG:HH22	4:CD:47:ARG:CZ	2.05	0.66
8:CH:51:VAL:HG12	8:CH:52:ASP:H	1.59	0.66
22:DB:1397:A:C6	22:DB:1418:C:N3	2.64	0.66
22:DB:2658:A:O2'	25:DE:187:ALA:CA	2.43	0.66
22:DB:582:G:H2'	22:DB:583:C:H3'	1.78	0.66
22:DB:827:C:H5'	39:DS:85:GLY:N	2.11	0.66
22:DB:876:A:H2'	22:DB:877:G:O4'	1.96	0.66
22:DB:742:G:C5'	24:DD:18:THR:OG1	2.39	0.66
25:DE:8:LYS:HG2	37:DQ:3:THR:O	1.96	0.66
32:DL:89:ILE:CA	37:DQ:81:PHE:HB3	2.11	0.66
34:DN:47:GLN:HE22	34:DN:121:LEU:HB3	1.59	0.66
37:DQ:36:ASP:CG	37:DQ:37:THR:H	1.97	0.66
42:DV:101:GLY:HA2	42:DV:104:VAL:HG13	1.78	0.66
34:DN:106:GLU:HB3	43:DW:100:THR:OG1	1.95	0.66
1:EA:1195:C:H3'	1:EA:1196:U:C5'	2.25	0.66
1:EA:640:A:C3'	8:EH:116:LYS:HD3	2.26	0.66
1:EA:487:A:C2	4:ED:131:ARG:CZ	2.79	0.66
7:EG:49:ILE:HG12	7:EG:53:LYS:HZ3	1.59	0.66
12:EL:16:GLU:CD	12:EL:19:ARG:HH21	1.96	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:FB:82:G:H21	22:FB:101:A:H62	1.39	0.66
22:FB:1047:G:C5	22:FB:1048:U:C2	2.83	0.66
22:FB:50:G:N3	22:FB:117:A:C2	2.64	0.66
22:FB:1636:G:O4'	50:F4:1:MET:HE3	1.96	0.66
22:FB:1887:G:H3'	22:FB:1888:C:P	2.34	0.66
22:FB:1972:G:H2'	22:FB:1973:C:O4'	1.95	0.66
22:FB:2240:C:OP2	44:FX:14:ARG:HD3	1.90	0.66
22:FB:2463:G:N3	34:FN:120:ARG:CG	2.49	0.66
22:FB:2034:A:N6	22:FB:2595:C:H41	1.93	0.66
22:FB:2661:G:N9	25:FE:11:MET:SD	2.69	0.66
22:FB:332:C:OP1	26:FF:129:LYS:CD	2.43	0.66
1:GA:335:C:H5'	1:GA:1434:A:O2'	1.96	0.66
1:GA:1515:C:H1'	1:GA:1521:G:H22	1.61	0.66
1:GA:439:A:H4'	4:GD:122:ARG:HH22	1.60	0.66
1:GA:1131:G:C4'	9:GI:2:GLU:HB2	2.25	0.66
10:GJ:51:ARG:CB	14:GN:45:ARG:CZ	2.73	0.66
22:HB:2063:A:O2'	47:H1:33:VAL:HA	1.96	0.66
22:HB:2343:C:O2	44:HX:66:LYS:CE	2.44	0.66
22:HB:2500:C:O2'	22:HB:2543:A:N3	2.26	0.66
22:HB:2638:G:H2'	22:HB:2640:G:OP2	1.96	0.66
22:HB:1090:C:C1'	30:HJ:132:ARG:HE	2.09	0.66
32:HL:91:PHE:HA	37:HQ:79:ARG:NE	2.09	0.66
22:HB:1307:U:C2'	35:HO:23:ALA:CB	2.73	0.66
44:HX:45:PHE:H	44:HX:76:ALA:HA	1.61	0.66
1:IA:782:A:H5''	1:IA:1515:C:O2'	1.95	0.66
1:IA:262:A:OP1	20:IT:74:LYS:HD2	1.96	0.66
1:IA:338:A:H2'	1:IA:339:C:O4'	1.96	0.66
1:IA:1189:C:C2'	3:IC:176:HIS:CE1	2.79	0.66
9:II:47:LEU:HB2	9:II:50:LEU:HD12	1.77	0.66
11:IK:51:LYS:HA	11:IK:55:LYS:HB2	1.78	0.66
13:IM:82:MET:CA	13:IM:92:HIS:HD2	1.97	0.66
1:IA:222:U:O2'	20:IT:68:LYS:CE	2.43	0.66
23:JA:10:U:C2	36:JP:49:GLN:CG	2.66	0.66
22:JB:1356:G:N1	22:JB:1417:C:N3	2.44	0.66
22:JB:2662:C:C4	22:JB:2707:G:O2'	2.49	0.66
22:JB:311:A:H2'	22:JB:344:G:H21	1.60	0.66
22:JB:394:U:O4'	47:J1:13:LYS:NZ	2.27	0.66
22:JB:475:U:O5'	50:J4:5:TYR:HD1	1.77	0.66
22:JB:510:G:H2'	22:JB:512:A:OP2	1.95	0.66
22:JB:603:C:N3	22:JB:677:G:C2	2.61	0.66
26:JF:22:VAL:HG22	26:JF:23:ASN:N	2.10	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:JF:39:ARG:HE	26:JF:40:ARG:H	1.43	0.66
34:JN:98:VAL:HG22	34:JN:99:LYS:N	2.08	0.66
22:JB:529:U:O2'	40:JT:94:GLU:HB3	1.95	0.66
1:AA:1515:C:H1'	1:AA:1521:G:H22	1.61	0.66
1:AA:262:A:H5'	20:AT:74:LYS:HZ2	1.61	0.66
1:AA:338:A:H2'	1:AA:339:C:O4'	1.95	0.66
1:AA:26:A:N6	4:AD:209:ARG:HH21	1.94	0.66
10:AJ:63:PHE:HE2	14:AN:48:ALA:C	1.99	0.66
12:AL:11:VAL:HG22	17:AQ:29:HIS:HD2	1.45	0.66
22:BB:1377:G:N7	47:B1:3:LYS:CB	2.55	0.66
23:BA:107:C:H4'	43:BW:88:TYR:O	1.91	0.66
23:BA:78:A:H1'	43:BW:22:VAL:HB	1.78	0.66
22:BB:1134:C:C1'	52:B6:21:GLY:CA	2.71	0.66
22:BB:1236:G:H1	39:BS:73:LYS:CD	2.09	0.66
22:BB:540:G:N7	22:BB:2019:C:OP1	2.29	0.66
22:BB:2464:G:O2'	34:BN:122:ALA:C	2.33	0.66
22:BB:505:G:C4'	40:BT:78:ASN:CB	2.64	0.66
22:BB:677:G:H1'	22:BB:951:G:P	2.35	0.66
22:BB:717:G:H2'	22:BB:739:G:H22	1.61	0.66
26:BF:15:ILE:HG23	26:BF:16:GLU:N	2.07	0.66
44:BX:45:PHE:H	44:BX:76:ALA:HA	1.61	0.66
1:CA:1222:G:OP1	19:CS:77:THR:HB	1.96	0.66
1:CA:621:A:OP1	4:CD:139:ARG:NH1	2.27	0.66
1:CA:407:G:N2	4:CD:157:LEU:CD1	2.59	0.66
1:CA:1077:G:N2	5:CE:45:PHE:HZ	1.94	0.66
1:CA:941:G:C2	9:CI:121:ARG:NH2	2.64	0.66
1:CA:1220:G:H21	19:CS:54:GLY:C	1.99	0.66
22:DB:1398:G:N2	22:DB:1416:A:N7	2.44	0.66
22:DB:930:A:C1'	23:DA:82:U:HO2'	2.09	0.66
22:DB:969:U:O4	34:DN:20:GLY:HA2	1.96	0.66
36:DP:43:ILE:HD13	36:DP:49:GLN:HA	1.77	0.66
22:DB:545:C:O4'	38:DR:53:LYS:HE3	1.95	0.66
43:DW:84:TYR:CZ	43:DW:128:ARG:CG	2.76	0.66
1:EA:1514:C:H2'	1:EA:1515:C:H6	1.60	0.66
1:EA:439:A:C4'	4:ED:122:ARG:NH2	2.58	0.66
10:EJ:51:ARG:HH21	10:EJ:61:GLU:HB2	1.59	0.66
17:EQ:21:VAL:HG12	17:EQ:22:LEU:H	1.60	0.66
22:FB:2328:G:H8	51:F5:42:ARG:HD2	1.59	0.66
22:FB:1613:G:OP2	22:FB:1614:C:OP1	2.14	0.66
22:FB:231:G:C6	51:F5:4:MET:CA	2.75	0.66
22:FB:2701:A:C6	22:FB:2848:A:C6	2.84	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:FB:2766:U:OP1	25:FE:67:PHE:HB3	1.96	0.66
22:FB:63:A:C5'	41:FU:62:ARG:CD	2.74	0.66
22:FB:7:G:O4'	31:FK:162:LYS:NZ	2.29	0.66
26:FF:149:LEU:HB3	26:FF:187:VAL:H	1.59	0.66
26:FF:39:ARG:HE	26:FF:40:ARG:H	1.43	0.66
28:FH:97:LYS:O	28:FH:103:LEU:HA	1.95	0.66
22:FB:3197:U:H4'	29:FI:28:TRP:CZ2	2.31	0.66
22:FB:1041:G:H5''	34:FN:119:PHE:CZ	2.22	0.66
38:FR:72:HIS:HB2	38:FR:74:MET:HE3	1.78	0.66
22:FB:29:U:C2'	38:FR:8:ILE:HG12	2.26	0.66
40:FT:67:PRO:HA	40:FT:71:VAL:HG23	1.76	0.66
45:FY:48:ARG:HD3	45:FY:51:ALA:HB3	1.78	0.66
22:FB:980:G:C5'	46:FZ:12:ARG:C	2.64	0.66
1:GA:125:U:H4'	1:GA:605:U:O2	1.96	0.66
1:GA:1398:A:C8	5:GE:22:GLY:N	2.56	0.66
2:GB:97:TRP:HB3	2:GB:172:ILE:HD12	1.76	0.66
1:GA:877:C:O4'	8:GH:4:ASP:HB2	1.96	0.66
11:GK:51:LYS:HA	11:GK:55:LYS:HB2	1.78	0.66
1:GA:376:G:O4'	16:GP:28:ARG:NH2	1.93	0.66
18:GR:32:ARG:CZ	18:GR:69:THR:HG23	2.26	0.66
48:H2:45:ILE:HD11	48:H2:52:TYR:HD2	1.60	0.66
22:HB:1998:A:N1	48:H2:7:PRO:HD3	2.10	0.66
52:H6:22:ARG:HD2	52:H6:36:GLN:HG2	1.77	0.66
22:HB:1437:A:C2	22:HB:1438:G:C6	2.83	0.66
22:HB:1793:A:N6	22:HB:1806:G:H2'	2.11	0.66
22:HB:57:G:H2'	22:HB:72:A:N7	2.11	0.66
27:HG:131:GLY:HA3	27:HG:154:ILE:HD12	1.77	0.66
28:HH:97:LYS:O	28:HH:103:LEU:HA	1.95	0.66
32:HL:77:THR:H	32:HL:90:ARG:NH2	1.93	0.66
22:HB:647:G:N1	33:HM:109:LEU:HD13	2.11	0.66
22:HB:596:C:OP1	33:HM:28:LYS:HG3	1.94	0.66
32:HL:85:ASP:C	37:HQ:84:ALA:CB	2.63	0.66
22:HB:1261:G:H2'	38:HR:3:ARG:N	2.11	0.66
1:IA:864:A:C5'	1:IA:1078:U:O2	2.43	0.66
1:EA:1263:C:O3'	1:IA:1263:C:C1'	2.42	0.66
1:IA:450:G:N2	16:IP:13:HIS:ND1	2.42	0.66
1:IA:676:A:H4'	11:IK:114:VAL:C	2.15	0.66
1:IA:827:U:C4'	8:IH:15:ASN:HB3	2.26	0.66
6:IF:23:LYS:HA	6:IF:26:ILE:HD12	1.78	0.66
1:IA:1240:U:C5	7:IG:119:ARG:NH1	2.63	0.66
1:IA:1123:A:C1'	10:IJ:38:ILE:HA	2.25	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:IA:1151:A:C5'	10:IJ:42:THR:CB	2.69	0.66
53:J7:36:PHE:H	53:J7:163:PRO:HB2	1.60	0.66
22:JB:1045:G:N2	22:JB:1131:G:H22	1.90	0.66
22:JB:1289:A:N7	22:JB:1662:G:C6	2.63	0.66
22:JB:1996:A:H4'	40:JT:116:ILE:CA	2.25	0.66
22:JB:2637:C:C5	28:JH:180:GLY:N	2.56	0.66
22:JB:2791:C:C5'	48:J2:43:HIS:ND1	2.59	0.66
22:JB:320:A:H2'	42:JV:25:LEU:CD1	2.14	0.66
22:JB:891:A:C6	22:JB:909:C:C4	2.83	0.66
22:JB:600:G:P	26:JF:92:ASP:OD1	2.53	0.66
28:JH:97:LYS:O	28:JH:103:LEU:HA	1.96	0.66
29:JI:30:ILE:HD13	29:JI:35:ALA:HA	1.77	0.66
45:JY:48:ARG:HD2	45:JY:52:GLN:HB3	1.77	0.66
22:JB:74:G:O2'	45:JY:55:THR:CG2	2.44	0.66
1:AA:1094:G:H5''	1:AA:1095:U:C5	2.29	0.66
1:AA:276:G:H5''	17:AQ:43:LEU:HD21	1.77	0.66
1:AA:529:G:C6	12:AL:47:LYS:HG3	2.30	0.66
1:AA:529:G:O6	12:AL:46:LYS:CG	2.43	0.66
1:AA:402:G:H5'	1:AA:621:A:H1'	1.76	0.66
1:AA:970:C:C2	13:AM:126:LYS:CD	2.76	0.66
1:AA:1350:A:C1'	7:AG:33:ASP:O	2.38	0.66
1:AA:1249:C:C3'	9:AI:68:GLY:O	2.43	0.66
22:BB:2860:C:O4'	48:B2:53:ASP:CG	2.33	0.66
53:B7:64:VAL:HG21	53:B7:111:LEU:HD12	1.78	0.66
22:BB:1143:A:C1'	31:BK:111:LYS:HE3	2.20	0.66
22:BB:115:G:C8	22:BB:117:A:N7	2.63	0.66
22:BB:3176:A:HO2'	53:B7:35:THR:HG22	1.61	0.66
22:BB:720:A:N6	22:BB:738:G:C1'	2.59	0.66
22:BB:743:A:H5''	24:BD:17:THR:HG21	1.77	0.66
22:BB:828:C:C5'	39:BS:86:HIS:CD2	2.76	0.66
22:BB:1142:G:C1'	31:BK:110:LEU:HD22	2.14	0.66
22:BB:1041:G:C5'	34:BN:119:PHE:CZ	2.78	0.66
22:BB:2474:G:C4'	34:BN:83:ARG:HG2	1.97	0.66
22:BB:2334:C:C1'	44:BX:32:LYS:HD2	2.13	0.66
1:CA:323:U:C5'	20:CT:15:ARG:HH22	2.05	0.66
1:CA:408:A:H2'	1:CA:409:G:C8	2.31	0.66
1:CA:544:G:N2	1:CA:549:C:H4'	2.10	0.66
1:CA:981:U:OP1	14:CN:6:LEU:CD2	2.40	0.66
6:CF:12:PRO:HA	6:CF:19:LEU:HD12	1.78	0.66
10:CJ:51:ARG:HH21	10:CJ:61:GLU:HB2	1.59	0.66
18:CR:54:ARG:HD3	18:CR:54:ARG:H	1.60	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
48:D2:57:VAL:HG12	48:D2:58:LEU:H	1.61	0.66
22:DB:1043:A:P	52:D6:8:LYS:HA	2.29	0.66
23:DA:92:G:N3	34:DN:21:ASP:HB3	2.11	0.66
22:DB:2034:A:N6	22:DB:2595:C:H41	1.93	0.66
22:DB:2039:G:O2'	48:D2:5:PRO:CB	2.44	0.66
22:DB:2728:A:O4'	28:DH:67:LEU:HD21	1.91	0.66
25:DE:143:GLN:HB2	25:DE:144:ARG:HH11	1.59	0.66
26:DF:22:VAL:HG22	26:DF:23:ASN:N	2.10	0.66
27:DG:132:ILE:HG13	27:DG:152:MET:O	1.96	0.66
32:DL:77:THR:H	32:DL:90:ARG:NH2	1.93	0.66
38:DR:47:TYR:HA	39:DS:74:TYR:HA	1.77	0.66
22:DB:503:G:C4'	40:DT:29:LYS:HD2	2.23	0.66
1:EA:740:U:OP2	15:EO:3:ILE:HG12	1.94	0.66
2:EB:69:LEU:HB3	2:EB:162:ILE:HG12	1.78	0.66
4:ED:204:ILE:CG2	5:EE:101:ILE:HD11	2.26	0.66
1:EA:1061:G:C4'	10:EJ:56:HIS:HD2	1.59	0.66
48:F2:33:CYS:HA	48:F2:40:LYS:HB2	1.78	0.66
52:F6:22:ARG:HD2	52:F6:36:GLN:HG2	1.76	0.66
22:FB:1001:A:H4'	46:FZ:27:LYS:NZ	2.10	0.66
22:FB:1142:G:H1'	31:FK:111:LYS:NZ	2.11	0.66
22:FB:1673:C:H3'	25:FE:136:ARG:CD	2.25	0.66
22:FB:2035:G:C4'	25:FE:142:GLY:HA2	2.25	0.66
22:FB:2627:G:HO2'	32:FL:38:GLY:C	1.92	0.66
22:FB:311:A:H2'	22:FB:344:G:H21	1.61	0.66
29:FI:30:ILE:H	29:FI:31:PRO:HD3	1.60	0.66
31:FK:33:ILE:HD12	31:FK:34:PRO:HD2	1.77	0.66
34:FN:131:LYS:NZ	43:FW:69:VAL:HG11	2.10	0.66
22:FB:503:G:O3'	40:FT:29:LYS:NZ	2.29	0.66
22:FB:64:C:H41	41:FU:64:ARG:CB	2.08	0.66
44:FX:66:LYS:HZ2	44:FX:66:LYS:HB2	1.61	0.66
13:GM:86:CYS:CB	19:GS:74:PHE:CE2	2.78	0.66
22:HB:1223:G:H4'	22:HB:1224:A:O5'	1.95	0.66
22:HB:1450:G:H1'	22:HB:1493:A:C2	2.30	0.66
22:HB:1531:C:H2'	22:HB:1532:A:H8	1.61	0.66
22:HB:2241:U:H1'	22:HB:2307:A:C1'	2.24	0.66
22:HB:88:G:H3'	22:HB:90:G:OP1	1.95	0.66
24:HD:45:ASN:HB3	24:HD:50:THR:HA	1.77	0.66
1:IA:597:G:C2	8:IH:94:TYR:HD2	2.14	0.66
1:IA:1148:U:H1'	9:II:66:ARG:HD3	1.78	0.66
8:IH:91:ARG:HG2	12:IL:8:ASN:HD21	1.60	0.66
13:IM:82:MET:SD	13:IM:92:HIS:HB3	2.35	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:IA:740:U:H5''	15:IO:35:ARG:CZ	2.22	0.66
1:IA:375:U:H4'	16:IP:17:TYR:CE2	2.30	0.66
1:IA:636:U:OP1	17:IQ:5:VAL:CB	2.44	0.66
1:IA:186:C:H5'	20:IT:81:LYS:HB3	1.76	0.66
22:JB:2375:G:N2	51:J5:32:GLN:HE22	1.93	0.66
53:J7:203:ILE:HG22	53:J7:215:VAL:HG21	1.78	0.66
22:JB:3166:G:C2'	53:J7:98:ARG:H	2.09	0.66
22:JB:1040:A:C1'	22:JB:2465:G:H4'	2.25	0.66
22:JB:1744:G:OP2	37:JQ:122:SER:O	2.14	0.66
22:JB:1793:A:N6	22:JB:1806:G:H2'	2.11	0.66
22:JB:1999:U:H5'	48:J2:3:LYS:CB	2.26	0.66
22:JB:234:C:C3'	33:JM:103:ASN:HD21	1.96	0.66
22:JB:2637:C:C2'	28:JH:178:ALA:O	2.43	0.66
22:JB:2852:G:C5'	37:JQ:8:ASN:CB	2.73	0.66
22:JB:348:U:O2	42:JV:11:ASN:HB2	1.96	0.66
22:JB:88:G:H3'	22:JB:90:G:OP1	1.95	0.66
25:JE:29:GLY:HA2	25:JE:90:SER:H	1.61	0.66
27:JG:84:PRO:O	27:JG:85:VAL:HG22	1.95	0.66
32:JL:29:ILE:HG21	32:JL:32:LYS:HB2	1.78	0.66
1:AA:1224:G:H3'	19:AS:78:ARG:NH2	2.11	0.66
1:AA:1348:U:OP1	9:AI:110:GLU:HB3	1.91	0.66
1:AA:1373:G:H5''	7:AG:36:LYS:HB3	1.75	0.66
1:AA:426:G:C4'	4:AD:42:GLN:CA	2.72	0.66
1:AA:428:G:H4'	1:AA:429:U:H4'	1.78	0.66
1:AA:720:C:C5'	18:AR:52:PRO:CG	2.70	0.66
5:AE:143:ARG:CG	8:AH:138:TRP:OXT	2.44	0.66
1:AA:932:C:OP1	7:AG:3:ARG:C	2.35	0.66
22:BB:1043:A:C3'	52:B6:16:VAL:CG1	2.72	0.66
22:BB:1071:U:OP1	30:BJ:75:SER:CB	2.36	0.66
22:BB:1586:A:H3'	22:BB:1587:A:P	2.36	0.66
22:BB:1669:A:O2'	22:BB:2797:G:C2	2.49	0.66
22:BB:1826:U:O2'	22:BB:1952:A:H2'	1.96	0.66
22:BB:1972:G:H2'	22:BB:1973:C:O4'	1.96	0.66
22:BB:1948:C:N4	22:BB:2571:G:H1'	2.08	0.66
22:BB:2034:A:N6	22:BB:2595:C:H41	1.93	0.66
22:BB:533:C:C5'	22:BB:550:C:H1'	2.26	0.66
22:BB:543:G:C2	22:BB:570:G:N3	2.64	0.66
22:BB:718:A:H61	22:BB:739:G:C1'	2.08	0.66
22:BB:876:A:H2'	22:BB:877:G:O4'	1.96	0.66
27:BG:132:ILE:HG13	27:BG:152:MET:O	1.96	0.66
27:BG:84:PRO:O	27:BG:85:VAL:HG22	1.95	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:275:G:H4'	17:CQ:15:MET:N	2.11	0.66
1:CA:428:G:H4'	1:CA:429:U:H4'	1.78	0.66
6:CF:80:ARG:NH2	6:CF:87:ARG:HA	2.11	0.66
1:CA:1231:G:C5'	9:CI:126:SER:HB3	2.25	0.66
1:CA:689:C:C3'	11:CK:51:LYS:NZ	2.59	0.66
22:DB:2039:G:N2	48:D2:3:LYS:N	2.44	0.66
48:D2:45:ILE:HD11	48:D2:52:TYR:HD2	1.60	0.66
22:DB:1004:A:H5''	38:DR:51:ARG:HB2	1.78	0.66
22:DB:1135:C:C4'	52:D6:4:ARG:CG	2.73	0.66
22:DB:1452:U:H2'	22:DB:1453:A:H8	1.61	0.66
22:DB:1808:C:H5'	24:DD:63:ARG:CD	2.25	0.66
22:DB:311:A:H2'	22:DB:344:G:H21	1.61	0.66
22:DB:811:G:C6	26:DF:56:ARG:NH1	2.58	0.66
22:DB:916:U:C2	43:DW:163:ASP:O	2.49	0.66
22:DB:3093:C:H5''	29:DI:20:VAL:C	2.14	0.66
37:DQ:12:LEU:HA	37:DQ:16:ILE:HB	1.78	0.66
22:DB:1237:G:OP2	39:DS:89:ASN:OD1	2.14	0.66
43:DW:18:MET:H	43:DW:36:ARG:NH1	1.93	0.66
1:EA:1094:G:H5''	1:EA:1095:U:C5	2.29	0.66
1:EA:338:A:H2'	1:EA:339:C:O4'	1.96	0.66
1:EA:544:G:N2	1:EA:549:C:H4'	2.11	0.66
1:EA:8:A:H3'	5:EE:121:LYS:NZ	2.09	0.66
6:EF:80:ARG:NH2	6:EF:87:ARG:HA	2.11	0.66
18:ER:32:ARG:CZ	18:ER:69:THR:HG23	2.26	0.66
22:FB:2350:G:H4'	49:F3:46:LYS:CD	2.25	0.66
22:FB:419:G:H5''	53:F7:1:MET:HE3	1.78	0.66
53:F7:205:VAL:HG22	53:F7:215:VAL:HG22	1.78	0.66
22:FB:1265:G:H5'	38:FR:14:HIS:HD2	1.53	0.66
22:FB:1269:G:N3	26:FF:76:THR:HG21	2.04	0.66
22:FB:2577:A:P	24:FD:235:GLY:O	2.53	0.66
22:FB:876:A:H2'	22:FB:877:G:O4'	1.96	0.66
24:FD:94:LEU:C	24:FD:95:LEU:HD13	2.17	0.66
22:FB:756:C:H5''	25:FE:130:GLY:H	1.61	0.66
25:FE:176:ARG:HD2	37:FQ:20:HIS:NE2	2.11	0.66
36:FP:43:ILE:HD13	36:FP:49:GLN:HA	1.77	0.66
22:FB:455:A:O2'	38:FR:2:PRO:HD2	1.95	0.66
22:FB:73:A:C4'	45:FY:44:ARG:HH22	2.08	0.66
1:GA:815:A:C4	1:GA:1508:G:N2	2.64	0.66
1:GA:408:A:H2'	1:GA:409:G:C8	2.31	0.66
1:GA:477:G:H1	1:GA:479:C:N4	1.93	0.66
1:GA:656:C:H2'	1:GA:657:G:C8	2.30	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:GG:46:ALA:HA	7:GG:49:ILE:HD12	1.78	0.66
1:GA:502:G:OP1	12:GL:115:LYS:C	2.33	0.66
13:GM:88:ARG:CA	13:GM:98:VAL:CG1	2.73	0.66
49:H3:24:THR:CG2	51:H5:33:ASN:ND2	2.59	0.66
22:HB:699:G:N9	50:H4:5:TYR:HA	2.03	0.66
52:H6:23:VAL:HG12	52:H6:36:GLN:HE22	1.61	0.66
22:HB:1045:G:N2	22:HB:1131:G:H22	1.91	0.66
22:HB:123:A:O4'	50:H4:13:ALA:HB1	1.95	0.66
22:HB:1483:G:H2'	22:HB:1484:G:C4	2.30	0.66
22:HB:2714:A:N7	25:HE:204:ALA:HB1	2.10	0.66
22:HB:796:A:H2'	22:HB:797:A:H4'	1.77	0.66
22:HB:227:G:O5'	33:HM:59:ARG:CZ	2.44	0.66
22:HB:542:A:P	38:HR:25:TRP:HB3	2.36	0.66
22:HB:1338:G:N2	40:HT:106:LEU:HG	2.07	0.66
22:HB:95:G:C1'	45:HY:45:GLN:OE1	2.24	0.66
1:IA:1187:G:C4'	9:II:113:LYS:CG	2.66	0.66
1:IA:429:U:H1'	1:IA:430:A:H5''	1.76	0.66
1:IA:511:C:O5'	4:ID:43:HIS:CE1	2.49	0.66
1:IA:656:C:H2'	1:IA:657:G:C8	2.30	0.66
1:IA:8:A:C2'	4:ID:209:ARG:CZ	2.73	0.66
13:IM:66:LEU:HA	13:IM:70:LEU:HD12	1.77	0.66
1:IA:637:G:C4'	17:IQ:2:PRO:CG	2.74	0.66
1:IA:958:A:C6	19:IS:56:GLN:CG	2.78	0.66
1:IA:186:C:H4'	20:IT:81:LYS:HB3	1.75	0.66
48:J2:15:LYS:HZ2	48:J2:16:ARG:N	1.94	0.66
22:JB:474:G:N2	50:J4:12:ARG:HH21	1.92	0.66
52:J6:22:ARG:HD2	52:J6:36:GLN:HG2	1.77	0.66
53:J7:149:ASN:HB3	53:J7:153:ARG:HH12	1.60	0.66
22:JB:1049:C:C2	22:JB:1129:A:C2	2.84	0.66
22:JB:1260:A:H4'	38:JR:2:PRO:N	2.10	0.66
22:JB:1760:G:C4'	22:JB:1941:C:H5''	2.25	0.66
22:JB:2003:A:O3'	38:JR:25:TRP:CZ2	2.45	0.66
22:JB:3119:A:N6	53:J7:101:LYS:HZ1	1.92	0.66
22:JB:427:C:OP1	22:JB:1862:C:O2'	2.14	0.66
22:JB:465:C:C2	50:J4:39:ARG:CD	2.64	0.66
22:JB:687:G:C5'	26:JF:70:GLY:CA	2.74	0.66
22:JB:720:A:C6	22:JB:738:G:H1'	2.31	0.66
22:JB:929:A:C5'	22:JB:2247:A:H61	2.07	0.66
24:JD:63:ARG:HG2	24:JD:87:ASN:H	1.61	0.66
25:JE:143:GLN:HB2	25:JE:144:ARG:HH11	1.59	0.66
38:JR:15:LYS:HD3	38:JR:18:LEU:HB3	1.75	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:JN:61:ARG:CG	43:JW:109:GLN:O	2.43	0.66
43:JW:64:ALA:C	43:JW:128:ARG:HH11	1.98	0.66
1:AA:1065:U:H4'	1:AA:1066:C:H5'	1.78	0.66
1:AA:919:A:C2	1:AA:1080:A:C2	2.84	0.66
1:AA:1195:C:H3'	1:AA:1196:U:C5'	2.26	0.66
1:AA:1429:C:O2'	22:BB:1720:G:H4'	1.96	0.66
1:AA:544:G:N2	1:AA:549:C:H4'	2.10	0.66
3:AC:18:TRP:HE1	14:AN:53:LEU:H	1.44	0.66
13:AM:96:LEU:HB3	13:AM:97:PRO:HD2	1.78	0.66
1:AA:1309:G:C5	13:AM:99:ARG:NH1	2.64	0.66
20:AT:100:ILE:HG22	1:GA:179:A:C2'	2.25	0.66
1:AA:194:C:C4'	20:AT:65:LYS:O	2.25	0.66
23:BA:59:A:H5''	27:BG:23:SER:CB	2.18	0.66
22:BB:988:G:N2	22:BB:1012:A:H1'	2.11	0.66
22:BB:1378:A:H5''	47:B1:40:HIS:HE1	1.58	0.66
22:BB:1401:G:N2	22:BB:1412:C:C2	2.64	0.66
22:BB:1452:U:H2'	22:BB:1453:A:H8	1.61	0.66
22:BB:1879:G:H2'	22:BB:1880:G:C8	2.31	0.66
22:BB:588:G:H8	22:BB:2000:U:H3	1.42	0.66
22:BB:2332:G:N2	44:BX:66:LYS:HE2	2.11	0.66
22:BB:48:A:N1	22:BB:153:A:C5	2.63	0.66
22:BB:1508:G:P	24:BD:100:GLY:HA3	2.36	0.66
24:BD:63:ARG:HG2	24:BD:87:ASN:H	1.61	0.66
26:BF:149:LEU:HB3	26:BF:187:VAL:H	1.60	0.66
22:BB:1109:A:C2'	30:BJ:7:ILE:CD1	2.48	0.66
22:BB:1140:A:O3'	31:BK:107:GLN:HG2	1.96	0.66
22:BB:1338:G:N2	40:BT:107:ILE:O	2.29	0.66
23:BA:95:U:O3'	43:BW:14:LEU:HB3	1.96	0.66
1:CA:1457:A:O2'	20:CT:24:LEU:CB	2.35	0.66
1:CA:546:G:OP1	4:CD:73:ARG:N	2.28	0.66
1:CA:1081:G:H8	5:CE:18:ARG:NE	1.94	0.66
1:CA:1147:C:C2'	9:CI:16:ARG:NH2	2.56	0.66
1:CA:529:G:N7	12:CL:48:PRO:HG3	2.10	0.66
13:CM:96:LEU:HB3	13:CM:97:PRO:HD2	1.78	0.66
1:CA:720:C:C5'	18:CR:52:PRO:HB3	2.09	0.66
1:CA:1456:A:O5'	20:CT:28:ALA:HB1	1.95	0.66
48:D2:33:CYS:HA	48:D2:40:LYS:HB2	1.78	0.66
22:DB:57:G:H2'	22:DB:72:A:N6	2.11	0.66
22:DB:742:G:C6	24:DD:18:THR:CA	2.79	0.66
31:DK:41:TRP:HE1	31:DK:164:GLN:HB2	1.59	0.66
22:DB:25:U:C5'	40:DT:100:GLY:C	2.62	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:EA:1065:U:H4'	1:EA:1066:C:H5'	1.78	0.66
1:EA:130:A:N7	17:EQ:63:ARG:HG3	2.07	0.66
1:EA:198:G:N7	1:EA:220:G:H1'	2.10	0.66
1:EA:402:G:H4'	4:ED:135:LEU:HD11	1.78	0.66
1:EA:408:A:H2'	1:EA:409:G:C8	2.31	0.66
1:EA:752:G:P	15:EO:69:TYR:OH	2.54	0.66
1:EA:391:G:C4'	16:EP:8:ARG:NH2	2.57	0.66
19:ES:51:VAL:HG12	19:ES:52:TYR:H	1.61	0.66
22:FB:2240:C:OP2	44:FX:14:ARG:NH2	2.28	0.66
22:FB:2542:U:C5'	32:FL:40:GLY:CA	2.70	0.66
22:FB:3125:G:H5''	53:F7:26:PHE:HZ	1.61	0.66
22:FB:409:G:C4'	47:F1:39:VAL:CG2	2.66	0.66
22:FB:470:U:P	50:F4:40:HIS:HE2	2.19	0.66
34:FN:24:GLY:HA3	34:FN:98:VAL:HB	1.76	0.66
22:FB:1238:A:OP1	39:FS:87:ARG:HG3	1.96	0.66
42:FV:101:GLY:HA2	42:FV:104:VAL:HG13	1.78	0.66
23:FA:85:G:O2'	46:FZ:49:HIS:CD2	2.47	0.66
1:GA:1065:U:H4'	1:GA:1066:C:H5'	1.78	0.66
1:GA:1250:A:H5'	9:GI:68:GLY:CA	2.22	0.66
1:GA:962:C:H1'	1:GA:1201:A:N1	2.10	0.66
6:GF:80:ARG:NH2	6:GF:87:ARG:HA	2.10	0.66
13:GM:96:LEU:HB3	13:GM:97:PRO:HD2	1.78	0.66
1:GA:658:G:C4'	15:GO:8:LYS:NZ	2.58	0.66
48:H2:33:CYS:HA	48:H2:40:LYS:HB2	1.78	0.66
22:HB:1256:C:O3'	33:HM:17:LYS:CD	2.43	0.66
22:HB:1468:A:C8	35:HO:77:ARG:HD2	2.27	0.66
22:HB:1879:G:H2'	22:HB:1880:G:C8	2.31	0.66
22:HB:311:A:H2'	22:HB:344:G:H21	1.61	0.66
22:HB:486:U:H5'	22:HB:519:C:H2'	1.78	0.66
22:HB:887:G:H5''	43:HW:170:SER:OG	1.96	0.66
22:HB:941:U:C6	46:HZ:22:ALA:O	2.49	0.66
32:HL:29:ILE:HG21	32:HL:32:LYS:HB2	1.77	0.66
1:IA:127:G:H2'	1:IA:128:G:H8	1.60	0.66
1:IA:1373:G:H5''	7:IG:36:LYS:N	2.09	0.66
1:IA:815:A:N3	1:IA:1527:C:H1'	2.11	0.66
1:IA:44:G:OP2	16:IP:11:SER:HA	1.96	0.66
1:IA:589:C:H5'	8:IH:31:PHE:CA	2.25	0.66
1:IA:933:G:H2'	1:IA:934:C:H4'	1.77	0.66
1:IA:958:A:C4'	19:IS:55:LYS:NZ	2.59	0.66
4:ID:121:VAL:HB	4:ID:136:PRO:HG3	1.78	0.66
5:IE:127:ASN:ND2	5:IE:130:ASN:HD22	1.94	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:IG:46:ALA:HA	7:IG:49:ILE:HD12	1.78	0.66
1:IA:826:C:O2'	8:IH:15:ASN:CG	2.34	0.66
1:IA:246:A:N3	17:IQ:97:SER:O	2.29	0.66
22:JB:394:U:C1'	47:J1:13:LYS:NZ	2.59	0.66
48:J2:57:VAL:HG12	48:J2:58:LEU:H	1.61	0.66
22:JB:2375:G:H22	51:J5:32:GLN:NE2	1.91	0.66
22:JB:1581:C:H2'	22:JB:1583:A:H5'	1.78	0.66
22:JB:1744:G:C6	37:JQ:124:VAL:HG21	2.23	0.66
22:JB:1888:C:O2	22:JB:1913:G:C5	2.49	0.66
22:JB:2747:C:O2'	31:JK:112:THR:HG23	1.96	0.66
22:JB:2823:G:H8	37:JQ:104:LEU:C	1.99	0.66
22:JB:1741:G:C2	22:JB:2835:A:H2	2.14	0.66
22:JB:796:A:H2'	22:JB:797:A:H4'	1.77	0.66
22:JB:997:C:H4'	23:JA:86:A:H5''	1.77	0.66
22:JB:1508:G:H5'	24:JD:100:GLY:HA2	1.77	0.66
24:JD:106:LEU:HB2	24:JD:192:THR:HG21	1.76	0.66
24:JD:45:ASN:HB3	24:JD:50:THR:HA	1.77	0.66
22:JB:1815:G:H5''	24:JD:52:ARG:HG2	1.76	0.66
27:JG:132:ILE:HG13	27:JG:152:MET:O	1.96	0.66
22:JB:3187:U:OP1	29:JI:11:LEU:CG	2.43	0.66
29:JI:30:ILE:H	29:JI:31:PRO:HD3	1.60	0.66
32:JL:77:THR:H	32:JL:90:ARG:NH2	1.93	0.66
22:JB:1040:A:C3'	34:JN:125:LYS:CE	2.73	0.66
1:AA:127:G:H2'	1:AA:128:G:H8	1.60	0.65
1:AA:1298:C:N4	7:AG:115:ARG:HD3	2.11	0.65
1:AA:1330:U:H5''	13:AM:23:TYR:CE1	2.31	0.65
1:AA:521:G:H8	12:AL:53:ARG:HH11	1.42	0.65
1:AA:689:C:O2'	1:AA:705:U:H4'	1.97	0.65
1:AA:735:C:H1'	18:AR:75:ILE:HD12	1.75	0.65
2:AB:178:ARG:HH21	8:AH:72:PRO:HA	1.61	0.65
10:AJ:21:GLN:HA	10:AJ:24:VAL:HB	1.78	0.65
1:AA:1227:A:OP1	19:AS:80:TYR:HE2	1.79	0.65
47:B1:5:LEU:HB3	47:B1:7:PRO:HD2	1.78	0.65
22:BB:1135:C:H4'	52:B6:36:GLN:HB2	1.78	0.65
53:B7:85:ILE:HB	53:B7:90:LEU:HD22	1.78	0.65
22:BB:2781:G:H2'	22:BB:2782:G:H8	1.61	0.65
22:BB:311:A:H2'	22:BB:344:G:H21	1.61	0.65
22:BB:568:G:C4	22:BB:569:C:O2	2.49	0.65
22:BB:675:C:H5'	33:BM:26:THR:HA	1.78	0.65
28:BH:77:LYS:HA	28:BH:81:ASP:HB3	1.77	0.65
31:BK:33:ILE:HD12	31:BK:34:PRO:HD2	1.77	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:127:G:H2'	1:CA:128:G:H8	1.60	0.65
1:CA:338:A:H2'	1:CA:339:C:O4'	1.95	0.65
1:CA:689:C:O2'	1:CA:705:U:H4'	1.97	0.65
4:CD:121:VAL:HB	4:CD:136:PRO:HG3	1.78	0.65
1:CA:436:C:C1'	4:CD:157:LEU:HD13	2.22	0.65
1:CA:827:U:C5'	8:CH:21:LYS:CE	2.50	0.65
48:D2:15:LYS:HZ2	48:D2:16:ARG:N	1.94	0.65
22:DB:1972:G:H2'	22:DB:1973:C:O4'	1.96	0.65
22:DB:2492:G:C2'	22:DB:2493:U:C4	2.80	0.65
25:DE:29:GLY:HA2	25:DE:90:SER:H	1.61	0.65
22:DB:2728:A:C2'	28:DH:67:LEU:HD13	2.26	0.65
31:DK:116:ARG:HH22	31:DK:126:VAL:HG11	1.59	0.65
31:DK:61:ARG:NE	31:DK:78:ASP:HB2	2.12	0.65
35:DO:45:ARG:HB3	35:DO:46:PRO:HD3	1.76	0.65
22:DB:1261:G:C6	38:DR:3:ARG:CZ	2.76	0.65
22:DB:348:U:H1'	42:DV:11:ASN:CB	2.26	0.65
22:DB:2237:C:P	44:DX:10:SER:HB3	2.36	0.65
1:EA:428:G:H4'	1:EA:429:U:H4'	1.79	0.65
4:ED:121:VAL:HB	4:ED:136:PRO:HG3	1.78	0.65
1:EA:778:G:N2	11:EK:120:ARG:HB2	2.11	0.65
1:EA:685:G:H5'	11:EK:40:ILE:O	1.96	0.65
12:EL:39:VAL:HG12	12:EL:41:ARG:HB2	1.79	0.65
1:EA:128:G:C4'	17:EQ:61:GLU:HB3	2.25	0.65
1:EA:259:G:P	20:ET:83:ARG:NH1	2.68	0.65
22:FB:1236:G:O6	39:FS:71:ILE:CG1	2.44	0.65
22:FB:1338:G:H21	40:FT:107:ILE:CD1	2.06	0.65
22:FB:575:U:O4	39:FS:80:TYR:O	2.14	0.65
22:FB:588:G:H8	22:FB:2000:U:H3	1.42	0.65
22:FB:94:C:O4'	45:FY:36:GLN:HB2	1.96	0.65
24:FD:214:TRP:HB3	24:FD:215:LEU:HD12	1.78	0.65
26:FF:22:VAL:HG22	26:FF:23:ASN:N	2.10	0.65
35:FO:45:ARG:HB3	35:FO:46:PRO:HD3	1.76	0.65
22:FB:25:U:C4'	40:FT:100:GLY:O	2.43	0.65
40:FT:50:VAL:HA	40:FT:54:GLU:HB2	1.77	0.65
43:FW:18:MET:H	43:FW:36:ARG:NH1	1.93	0.65
23:FA:84:G:H4'	46:FZ:46:THR:O	1.95	0.65
1:GA:927:G:OP2	1:GA:1503:A:H2'	1.95	0.65
9:GI:47:LEU:HB2	9:GI:50:LEU:HD12	1.77	0.65
1:GA:550:G:N3	12:GL:118:SER:CB	2.53	0.65
12:GL:46:LYS:HG2	12:GL:47:LYS:H	1.59	0.65
11:GK:116:HIS:CD2	18:GR:81:PHE:HE2	2.14	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
48:H2:15:LYS:HZ2	48:H2:16:ARG:N	1.94	0.65
23:HA:59:A:C4'	27:HG:23:SER:CB	2.74	0.65
22:HB:1040:A:H1'	34:HN:123:GLY:O	1.94	0.65
22:HB:2399:C:O5'	51:H5:32:GLN:CG	2.43	0.65
22:HB:2470:U:H1'	22:HB:2549:G:OP1	1.96	0.65
22:HB:1476:G:N3	22:HB:2681:A:H2	1.94	0.65
22:HB:2606:G:C1'	22:HB:2757:G:N1	2.60	0.65
22:HB:3876:A:N7	53:H7:45:ASP:CG	2.50	0.65
22:HB:634:G:N7	33:HM:98:LEU:CD2	2.59	0.65
30:HJ:125:ASN:H	30:HJ:125:ASN:HD22	1.43	0.65
22:HB:1070:G:H1'	30:HJ:126:THR:HG22	1.78	0.65
22:HB:1148:G:O3'	31:HK:134:MET:SD	2.54	0.65
33:HM:37:GLN:HE21	33:HM:38:LYS:H	1.44	0.65
22:HB:502:A:N3	40:HT:28:ALA:O	2.27	0.65
1:IA:684:A:H1'	11:IK:38:ASN:C	2.17	0.65
52:J6:23:VAL:HG12	52:J6:36:GLN:HE22	1.61	0.65
22:JB:2570:C:N4	24:JD:237:GLU:OE2	2.29	0.65
22:JB:2701:A:C8	22:JB:2848:A:N7	2.64	0.65
22:JB:2826:C:C1'	35:JO:61:HIS:CB	2.73	0.65
31:JK:116:ARG:HH22	31:JK:126:VAL:HG11	1.59	0.65
22:JB:1744:G:N1	37:JQ:126:LYS:O	2.25	0.65
42:JV:48:VAL:HG22	42:JV:49:GLU:H	1.61	0.65
34:JN:36:ILE:HD11	43:JW:74:ARG:CZ	2.27	0.65
41:JU:9:ALA:HA	45:JY:26:MET:CG	2.26	0.65
1:AA:1307:U:C5'	13:AM:109:THR:HG22	2.26	0.65
1:AA:198:G:N7	1:AA:220:G:H1'	2.10	0.65
1:AA:43:C:H3'	16:AP:12:LYS:HZ1	1.61	0.65
1:AA:529:G:N3	12:AL:49:ASN:ND2	2.45	0.65
6:AF:80:ARG:NH2	6:AF:87:ARG:HA	2.10	0.65
1:AA:273:A:C2'	17:AQ:14:LYS:O	2.44	0.65
22:BB:1136:G:C8	52:B6:4:ARG:CB	2.79	0.65
22:BB:1143:A:H2	31:BK:103:TYR:N	1.94	0.65
22:BB:1673:C:OP1	25:BE:117:MET:CE	2.44	0.65
22:BB:2638:G:H2'	22:BB:2640:G:OP2	1.95	0.65
28:BH:97:LYS:O	28:BH:103:LEU:HA	1.95	0.65
22:BB:539:A:OP1	31:BK:139:ARG:HB2	1.96	0.65
37:BQ:12:LEU:HA	37:BQ:16:ILE:HB	1.78	0.65
40:BT:50:VAL:HA	40:BT:54:GLU:HB2	1.77	0.65
22:BB:1050:G:H4'	43:BW:37:LYS:CG	2.26	0.65
1:CA:1205:U:C5'	3:CC:195:VAL:CG2	2.70	0.65
1:CA:279:A:C4	17:CQ:95:TYR:O	2.48	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:583:A:N9	17:CQ:91:ARG:CD	2.52	0.65
1:CA:718:G:H2'	11:CK:116:HIS:ND1	2.11	0.65
19:CS:51:VAL:HG12	19:CS:52:TYR:H	1.62	0.65
1:CA:332:G:OP1	20:CT:9:ASN:N	2.30	0.65
22:DB:1290:A:C4'	35:DO:24:GLN:CG	2.75	0.65
22:DB:1666:G:H21	35:DO:106:ASP:CG	1.97	0.65
22:DB:1879:G:H2'	22:DB:1880:G:C8	2.32	0.65
22:DB:2463:G:H4'	34:DN:47:GLN:CD	2.12	0.65
22:DB:2635:U:H2'	22:DB:2636:A:H8	1.62	0.65
22:DB:2638:G:H2'	22:DB:2640:G:OP2	1.96	0.65
24:DD:106:LEU:HB2	24:DD:192:THR:HG21	1.77	0.65
35:DO:79:VAL:HA	35:DO:83:VAL:HB	1.77	0.65
22:DB:528:G:C5'	40:DT:35:PRO:O	2.45	0.65
22:DB:916:U:C6	43:DW:163:ASP:O	2.49	0.65
1:EA:793:U:C4	1:EA:1516:G:O3'	2.49	0.65
1:EA:1515:C:H1'	1:EA:1521:G:H22	1.61	0.65
1:EA:689:C:O2'	1:EA:705:U:H4'	1.97	0.65
4:ED:61:LYS:HZ1	4:ED:62:GLN:HA	1.60	0.65
6:EF:36:ARG:HB2	6:EF:36:ARG:HH11	1.61	0.65
1:EA:1148:U:C3'	9:EI:66:ARG:HD3	2.12	0.65
23:FA:118:G:P	36:FP:53:ALA:N	2.69	0.65
22:FB:1879:G:H2'	22:FB:1880:G:C8	2.32	0.65
22:FB:506:G:OP1	40:FT:22:LYS:CA	2.44	0.65
22:FB:603:C:O2	22:FB:677:G:C2	2.48	0.65
22:FB:845:U:H5'	33:FM:41:SER:HB3	1.77	0.65
38:FR:28:ARG:HD2	38:FR:38:THR:HG21	1.78	0.65
38:FR:44:THR:CG2	39:FS:76:SER:HA	2.26	0.65
1:GA:583:A:N7	17:GQ:105:ALA:HB1	2.11	0.65
1:GA:309:G:H1'	1:GA:608:A:N6	2.11	0.65
1:GA:129:U:C5	17:GQ:3:LYS:HE3	2.31	0.65
22:HB:2184:C:P	47:H1:43:TRP:CZ3	2.88	0.65
22:HB:1020:A:H5''	38:HR:62:ILE:HD13	1.76	0.65
22:HB:1043:A:O3'	52:H6:16:VAL:HG12	1.96	0.65
22:HB:1119:U:C3'	22:HB:1120:C:OP1	2.44	0.65
22:HB:1388:C:H2'	22:HB:1389:C:O4'	1.97	0.65
22:HB:1829:C:O2'	22:HB:1910:A:C1'	2.45	0.65
1:GA:1418:A:C2	22:HB:1942:G:H1'	2.31	0.65
22:HB:2241:U:H4'	22:HB:2307:A:N3	2.11	0.65
22:HB:2448:A:H4'	34:HN:57:ARG:CD	2.09	0.65
22:HB:2492:G:H2'	22:HB:2493:U:C5	2.31	0.65
22:HB:2594:U:O4	48:H2:9:LYS:CD	2.44	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:HB:603:C:C2	22:HB:604:U:C2	2.84	0.65
22:HB:677:G:C2'	22:HB:678:G:C8	2.79	0.65
22:HB:6:A:O2'	31:HK:161:GLN:NE2	2.29	0.65
27:HG:132:ILE:HG13	27:HG:152:MET:O	1.96	0.65
22:HB:2448:A:H4'	34:HN:57:ARG:CG	2.24	0.65
42:HV:101:GLY:HA2	42:HV:104:VAL:HG13	1.78	0.65
42:HV:48:VAL:HG22	42:HV:49:GLU:H	1.61	0.65
41:HU:4:TYR:OH	45:HY:18:ILE:HG21	1.90	0.65
1:IA:1195:C:H3'	1:IA:1196:U:C5'	2.25	0.65
1:EA:1263:C:C2	1:IA:1264:C:H5'	2.30	0.65
1:IA:363:A:N6	12:IL:30:ALA:HB2	2.11	0.65
1:IA:408:A:H2'	1:IA:409:G:C8	2.31	0.65
1:IA:973:G:C1'	10:IJ:54:PHE:CE2	2.79	0.65
1:IA:1205:U:H5''	3:IC:190:ARG:HH21	1.60	0.65
7:IG:51:GLN:HB2	7:IG:58:PRO:HD3	1.77	0.65
1:IA:1130:A:H1'	9:II:18:PHE:CZ	2.29	0.65
22:JB:2324:G:C5'	49:J3:40:TYR:HD1	2.09	0.65
22:JB:1047:G:C2'	22:JB:1048:U:H5'	2.27	0.65
22:JB:1363:C:O2	22:JB:1588:A:H1'	1.96	0.65
22:JB:1484:G:O6	22:JB:1537:U:C5	2.49	0.65
22:JB:1879:G:H2'	22:JB:1880:G:C8	2.32	0.65
22:JB:2057:U:OP1	24:JD:230:ASP:CA	2.41	0.65
22:JB:2339:A:N3	22:JB:2407:G:O6	2.29	0.65
22:JB:704:G:H4'	24:JD:44:ASN:CG	2.17	0.65
32:JL:11:ALA:HB2	32:JL:19:ILE:HD13	1.78	0.65
22:JB:2810:A:C2'	37:JQ:6:LYS:HG3	2.18	0.65
1:AA:408:A:H2'	1:AA:409:G:C8	2.31	0.65
1:AA:50:A:H4'	1:AA:51:A:H5'	1.79	0.65
6:AF:48:LEU:HD22	18:AR:77:GLY:CA	2.26	0.65
1:AA:939:G:OP1	7:AG:102:ARG:NE	2.28	0.65
1:AA:735:C:C1'	18:AR:75:ILE:HD12	2.26	0.65
19:AS:51:VAL:HG12	19:AS:52:TYR:H	1.61	0.65
22:BB:177:U:H5''	47:B1:31:ILE:HG12	1.73	0.65
53:B7:149:ASN:HB3	53:B7:153:ARG:HH12	1.60	0.65
22:BB:2062:U:O2'	47:B1:32:HIS:CD2	2.49	0.65
22:BB:3093:C:C2	22:BB:2181:A:N6	2.65	0.65
22:BB:2366:U:H4'	44:BX:38:VAL:CG2	2.26	0.65
22:BB:3093:C:H1'	22:BB:2181:A:N6	2.11	0.65
22:BB:699:G:C1'	50:B4:6:GLN:HB2	2.26	0.65
22:BB:1809:G:C5'	24:BD:63:ARG:HH12	1.78	0.65
28:BH:9:ILE:HB	28:BH:69:ARG:NH1	2.12	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:BB:2814:G:C2	35:BO:92:GLY:N	2.65	0.65
42:BV:101:GLY:HA2	42:BV:104:VAL:HG13	1.78	0.65
22:BB:1169:C:C5'	46:BZ:27:LYS:HZ1	2.10	0.65
1:CA:17:U:O2	1:CA:1079:G:C2	2.50	0.65
1:CA:1094:G:H5''	1:CA:1095:U:C5	2.30	0.65
1:CA:1221:G:O3'	19:CS:77:THR:OG1	2.15	0.65
1:CA:1229:A:H62	13:CM:120:LYS:CB	2.08	0.65
1:CA:1344:C:O3'	9:CI:120:ARG:HD3	1.95	0.65
1:CA:1456:A:C5'	20:CT:28:ALA:HB2	2.16	0.65
1:CA:520:A:C5'	12:CL:52:LEU:C	2.62	0.65
1:CA:939:G:O2'	7:CG:29:LYS:HD2	1.97	0.65
1:CA:18:C:H5''	5:CE:130:ASN:HD21	1.61	0.65
10:CJ:21:GLN:HA	10:CJ:24:VAL:HB	1.78	0.65
11:CK:25:TYR:O	11:CK:89:ALA:HB2	1.97	0.65
12:CL:39:VAL:HG12	12:CL:41:ARG:HB2	1.78	0.65
1:CA:253:U:H2'	17:CQ:16:GLN:O	1.97	0.65
1:CA:663:A:H5''	18:CR:64:ARG:HH12	1.61	0.65
22:DB:1007:A:N6	22:DB:1171:A:C6	2.64	0.65
22:DB:2490:U:C5'	25:DE:122:PHE:CZ	2.68	0.65
22:DB:2542:U:OP1	32:DL:25:LEU:CD2	2.42	0.65
22:DB:29:U:C5'	38:DR:8:ILE:N	2.57	0.65
22:DB:917:U:N1	43:DW:166:LEU:CD1	2.59	0.65
27:DG:108:LEU:HD23	27:DG:117:ILE:HD11	1.78	0.65
27:DG:6:THR:C	27:DG:8:TYR:H	1.99	0.65
22:DB:2856:U:H5'	35:DO:93:GLY:O	1.96	0.65
32:DL:86:GLY:C	37:DQ:83:PHE:C	2.54	0.65
1:EA:246:A:H4'	1:EA:247:G:H4'	1.78	0.65
5:EE:31:LEU:HD22	5:EE:43:LEU:HD13	1.76	0.65
7:EG:13:GLN:CB	9:EI:42:ARG:CZ	2.73	0.65
10:EJ:48:THR:HA	10:EJ:62:HIS:HA	1.79	0.65
1:EA:958:A:N3	19:ES:56:GLN:NE2	2.21	0.65
22:FB:1049:C:N4	22:FB:1129:A:N6	2.44	0.65
22:FB:1290:A:C1'	35:FO:24:GLN:CA	2.58	0.65
22:FB:1826:U:O4'	22:FB:1952:A:C2	2.49	0.65
22:FB:2311:U:H4'	44:FX:70:ILE:HG21	1.78	0.65
22:FB:2635:U:H2'	22:FB:2636:A:H8	1.62	0.65
22:FB:2579:A:N6	24:FD:237:GLU:HG3	2.11	0.65
27:FG:132:ILE:HG13	27:FG:152:MET:O	1.96	0.65
29:FI:1:MET:HG2	47:F1:66:SER:CA	2.26	0.65
34:FN:27:TYR:CE1	43:FW:73:LYS:N	2.62	0.65
22:FB:1670:G:N1	35:FO:11:ASN:CA	2.55	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:FQ:36:ASP:HA	37:FQ:94:VAL:HB	1.78	0.65
22:FB:1020:A:H4'	38:FR:62:ILE:O	1.96	0.65
22:FB:504:G:H22	40:FT:78:ASN:ND2	1.93	0.65
22:FB:2237:C:C5'	44:FX:12:ASN:HD21	2.08	0.65
1:GA:1195:C:H3'	1:GA:1196:U:C5'	2.25	0.65
1:GA:766:A:H61	1:GA:1511:G:H1'	1.60	0.65
1:GA:405:U:H5''	1:GA:406:G:H5'	1.76	0.65
1:GA:428:G:H4'	1:GA:429:U:H4'	1.78	0.65
1:GA:544:G:N2	1:GA:549:C:H4'	2.11	0.65
1:GA:689:C:O2'	1:GA:705:U:H4'	1.97	0.65
1:GA:1190:G:O5'	3:GC:4:LYS:HA	1.96	0.65
1:GA:254:G:H1'	17:GQ:17:LYS:C	2.03	0.65
22:HB:128:C:H5'	22:HB:1361:G:H21	1.61	0.65
22:HB:1336:G:H5'	40:HT:103:LEU:HB3	1.75	0.65
22:HB:1401:G:O6	22:HB:1413:U:O4	2.15	0.65
22:HB:1463:A:H61	22:HB:1477:C:N4	1.95	0.65
22:HB:1581:C:H2'	22:HB:1583:A:H5'	1.78	0.65
22:HB:2356:A:H1'	36:HP:114:PHE:CZ	2.32	0.65
22:HB:2823:G:H1'	22:HB:2843:A:H61	1.60	0.65
22:HB:652:C:O2'	51:H5:42:ARG:NH1	2.23	0.65
22:HB:941:U:O4'	46:HZ:24:GLY:CA	2.45	0.65
22:HB:2627:G:N2	32:HL:39:GLY:HA3	2.11	0.65
22:HB:542:A:N3	38:HR:41:ASN:ND2	2.44	0.65
39:HS:40:VAL:HG13	39:HS:51:ALA:HB1	1.79	0.65
1:IA:1002:G:N3	1:IA:1002:G:H2'	2.11	0.65
1:IA:1065:U:H4'	1:IA:1066:C:H5'	1.78	0.65
1:IA:1100:C:H2'	2:IB:98:LEU:HD21	1.76	0.65
1:IA:1195:C:C4'	1:IA:1398:A:N6	2.58	0.65
1:IA:654:G:O2'	8:IH:1:MET:O	2.14	0.65
1:IA:689:C:O2'	1:IA:705:U:H4'	1.97	0.65
1:IA:620:C:H1'	4:ID:135:LEU:HD22	1.77	0.65
1:IA:636:U:OP1	17:IQ:5:VAL:HB	1.96	0.65
22:JB:1630:A:C5'	50:J4:3:ARG:HD3	2.26	0.65
22:JB:3171:A:H8	53:J7:101:LYS:CD	2.06	0.65
22:JB:1223:G:H4'	22:JB:1224:A:O5'	1.95	0.65
22:JB:1388:C:H2'	22:JB:1389:C:O4'	1.97	0.65
22:JB:1463:A:H61	22:JB:1477:C:N4	1.95	0.65
22:JB:1531:C:H2'	22:JB:1532:A:H8	1.61	0.65
22:JB:2182:A:C1'	47:J1:44:THR:OG1	2.44	0.65
22:JB:2258:G:N2	22:JB:2306:A:C5	2.64	0.65
22:JB:2701:A:C5	22:JB:2848:A:N7	2.64	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:JB:486:U:H5'	22:JB:519:C:H2'	1.79	0.65
22:JB:542:A:H4'	38:JR:24:PHE:CB	2.05	0.65
22:JB:704:G:H4'	24:JD:44:ASN:CB	2.27	0.65
24:JD:27:LYS:O	24:JD:28:ARG:HG2	1.97	0.65
22:JB:597:U:O2'	26:JF:84:PHE:CE2	2.47	0.65
22:JB:2635:U:C3'	28:JH:181:GLY:HA3	2.26	0.65
22:JB:2629:U:C5'	32:JL:29:ILE:CD1	2.74	0.65
22:JB:1003:C:C4'	39:JS:74:TYR:CB	2.44	0.65
40:JT:36:ARG:HH21	48:J2:16:ARG:HH11	1.42	0.65
22:JB:489:A:C5'	42:JV:5:SER:OG	2.44	0.65
22:JB:309:G:OP1	42:JV:93:ARG:HB3	1.96	0.65
1:AA:1131:G:H4'	9:AI:2:GLU:HG2	1.74	0.65
1:AA:1240:U:C4	7:AG:116:ALA:HB2	2.31	0.65
5:AE:80:ILE:HD13	8:AH:138:TRP:HZ3	1.59	0.65
7:AG:46:ALA:HA	7:AG:49:ILE:HD12	1.78	0.65
1:AA:1348:U:P	9:AI:110:GLU:H	2.18	0.65
11:AK:25:TYR:O	11:AK:89:ALA:HB2	1.96	0.65
1:AA:1318:A:H2	19:AS:37:ARG:HH12	1.45	0.65
22:BB:2039:G:H2'	48:B2:5:PRO:HG3	1.78	0.65
22:BB:2599:U:H1'	25:BE:156:MET:CB	2.26	0.65
22:BB:2823:G:H1'	22:BB:2843:A:H61	1.59	0.65
32:BL:11:ALA:HB2	32:BL:19:ILE:HD13	1.78	0.65
33:BM:95:ALA:HB2	33:BM:100:ARG:HB2	1.79	0.65
34:BN:73:LYS:CB	34:BN:94:TRP:H	2.05	0.65
37:BQ:36:ASP:HA	37:BQ:94:VAL:HB	1.78	0.65
38:BR:33:ARG:HH21	38:BR:34:ASN:HD21	1.43	0.65
1:CA:1057:G:C5'	3:CC:154:SER:HB2	2.25	0.65
1:CA:1065:U:H4'	1:CA:1066:C:H5'	1.79	0.65
1:CA:1220:G:N3	19:CS:54:GLY:HA2	2.11	0.65
1:CA:1318:A:N3	19:CS:37:ARG:NH1	2.44	0.65
1:CA:50:A:H4'	1:CA:51:A:H5'	1.79	0.65
1:CA:867:G:H21	1:CA:873:A:H2	1.44	0.65
5:CE:31:LEU:HD22	5:CE:43:LEU:HD13	1.76	0.65
1:CA:1092:A:H5'	7:CG:4:ARG:HD2	1.78	0.65
1:CA:1350:A:P	9:CI:121:ARG:HG3	2.35	0.65
1:CA:970:C:H41	9:CI:128:ARG:NH1	1.94	0.65
22:DB:1004:A:OP2	38:DR:51:ARG:CB	2.45	0.65
22:DB:1010:U:C2	22:DB:1168:G:C2	2.85	0.65
22:DB:1816:G:H21	24:DD:252:LYS:HD2	1.55	0.65
22:DB:2395:C:OP2	33:DM:62:LYS:CG	2.43	0.65
22:DB:487:G:H2'	22:DB:489:A:N7	2.11	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:DB:486:U:H5'	22:DB:519:C:H2'	1.79	0.65
22:DB:793:G:OP2	24:DD:53:PHE:HZ	1.78	0.65
22:DB:1683:G:O2'	32:DL:5:GLN:HG3	1.96	0.65
1:EA:50:A:H4'	1:EA:51:A:H5'	1.79	0.65
1:EA:597:G:O6	8:EH:115:SER:HB2	1.95	0.65
4:ED:153:ARG:HA	4:ED:158:ILE:HG21	1.78	0.65
5:EE:127:ASN:ND2	5:EE:130:ASN:HD22	1.94	0.65
6:EF:23:LYS:HA	6:EF:26:ILE:HD12	1.78	0.65
1:EA:135:C:O2	16:EP:1:MET:HB3	1.97	0.65
22:FB:2733:A:N3	52:F6:15:LYS:HD3	2.12	0.65
22:FB:1586:A:N7	22:FB:1587:A:C4	2.64	0.65
22:FB:2241:U:H1'	22:FB:2307:A:C1'	2.21	0.65
22:FB:2773:G:O2'	22:FB:2780:A:H2'	1.95	0.65
22:FB:503:G:H2'	22:FB:504:G:H8	1.61	0.65
22:FB:486:U:H5'	22:FB:519:C:H2'	1.78	0.65
25:FE:143:GLN:HB2	25:FE:144:ARG:HH11	1.59	0.65
1:GA:1279:A:HO2'	1:GA:1281:U:H5''	1.61	0.65
1:GA:1196:U:C5	1:GA:1397:C:N4	2.65	0.65
1:GA:1420:C:N4	1:GA:1480:G:H1	1.93	0.65
1:GA:520:A:H62	1:GA:529:G:H21	1.44	0.65
1:GA:126:G:C5'	1:GA:604:G:H21	2.08	0.65
1:GA:1350:A:OP2	9:GI:121:ARG:HG3	1.96	0.65
9:GI:6:GLY:HA3	9:GI:80:GLY:O	1.97	0.65
1:GA:127:G:O2'	17:GQ:2:PRO:O	2.15	0.65
22:HB:418:C:H5	53:H7:192:ASN:N	1.94	0.65
22:HB:1381:G:O6	47:H1:1:MET:O	2.14	0.65
22:HB:1711:C:O2'	22:HB:1712:G:H5''	1.97	0.65
22:HB:922:A:H2	22:HB:2244:C:O4'	1.79	0.65
22:HB:760:U:H4'	40:HT:111:ARG:O	1.56	0.65
22:HB:1885:C:O2'	24:HD:242:ALA:CB	2.44	0.65
22:HB:2250:G:OP2	44:HX:18:PRO:CG	2.44	0.65
22:HB:2250:G:OP2	44:HX:18:PRO:HG2	1.96	0.65
1:IA:1104:G:H1'	2:IB:111:ARG:CD	2.27	0.65
1:IA:1130:A:H1'	9:II:18:PHE:HZ	1.61	0.65
1:IA:1392:G:N2	1:IA:1502:A:H5''	2.06	0.65
1:IA:405:U:H5''	1:IA:406:G:H5'	1.76	0.65
1:IA:687:A:H5'	11:IK:42:TRP:CZ2	2.31	0.65
48:J2:33:CYS:HA	48:J2:40:LYS:HB2	1.78	0.65
22:JB:1217:U:N1	33:JM:14:LYS:HE2	2.11	0.65
22:JB:2374:C:OP1	33:JM:65:PHE:CE2	2.49	0.65
22:JB:2487:G:H5''	22:JB:2534:U:H5'	1.77	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:JB:2683:C:H2'	22:JB:2684:A:C8	2.32	0.65
22:JB:3167:U:C2	53:J7:98:ARG:HD2	2.32	0.65
22:JB:474:G:C2'	50:J4:5:TYR:CG	2.79	0.65
22:JB:50:G:N2	22:JB:117:A:C4	2.64	0.65
22:JB:2041:A:O3'	26:JF:64:THR:O	2.15	0.65
28:JH:167:GLU:HB2	28:JH:169:ILE:HG13	1.79	0.65
22:JB:1154:A:N6	31:JK:52:GLY:O	2.28	0.65
22:JB:2685:A:O2'	35:JO:64:ARG:CD	2.45	0.65
23:JA:119:G:C5'	36:JP:39:TYR:OH	2.44	0.65
41:JU:17:TYR:H	41:JU:20:MET:HB2	1.61	0.65
43:JW:94:VAL:HG11	43:JW:125:PRO:HG2	1.77	0.65
1:AA:1375:A:OP1	7:AG:12:LEU:HD21	1.95	0.65
1:AA:17:U:H5'	5:AE:16:THR:HG21	1.75	0.65
1:AA:323:U:O2'	20:AT:15:ARG:CZ	2.45	0.65
1:AA:694:A:H5'	11:AK:53:SER:CA	2.27	0.65
1:AA:509:A:H5'	4:AD:54:TYR:HB3	1.76	0.65
13:AM:88:ARG:HB3	13:AM:98:VAL:HG22	1.79	0.65
22:BB:1581:C:OP1	24:BD:25:THR:OG1	2.13	0.65
22:BB:1581:C:H2'	22:BB:1583:A:H5'	1.78	0.65
22:BB:3093:C:O2	22:BB:2181:A:N6	2.28	0.65
22:BB:2284:U:H3'	22:BB:2286:G:C8	2.32	0.65
22:BB:2635:U:H2'	22:BB:2636:A:H8	1.62	0.65
22:BB:2859:U:H6	48:B2:52:TYR:CZ	2.12	0.65
22:BB:2768:C:O2'	22:BB:2866:A:C2	2.49	0.65
22:BB:486:U:H5'	22:BB:519:C:H2'	1.78	0.65
22:BB:1805:G:C3'	24:BD:44:ASN:N	2.58	0.65
22:BB:7:G:O4'	31:BK:163:PRO:HG2	1.96	0.65
22:BB:8:A:OP1	31:BK:79:PHE:HE1	1.79	0.65
1:CA:1381:U:O2'	7:CG:79:ARG:HB2	1.94	0.65
1:CA:198:G:N7	1:CA:220:G:H1'	2.10	0.65
1:CA:408:A:C5'	4:CD:112:VAL:HB	2.26	0.65
1:CA:520:A:H62	1:CA:529:G:H21	1.44	0.65
1:CA:588:G:N7	8:CH:1:MET:HG2	2.11	0.65
6:CF:36:ARG:HH11	6:CF:36:ARG:HB2	1.61	0.65
1:CA:932:C:H3'	7:CG:3:ARG:NE	2.11	0.65
7:CG:46:ALA:HA	7:CG:49:ILE:HD12	1.78	0.65
1:CA:1297:C:P	13:CM:13:LYS:NZ	2.69	0.65
22:DB:124:A:H62	50:D4:45:SER:HB2	1.58	0.65
53:D7:64:VAL:HG21	53:D7:111:LEU:HD12	1.78	0.65
22:DB:1149:G:OP1	31:DK:55:ALA:HB2	1.96	0.65
22:DB:1382:G:O2'	24:DD:48:ARG:HD3	1.96	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:DB:1581:C:H2'	22:DB:1583:A:H5'	1.78	0.65
22:DB:1834:G:C4'	24:DD:244:ARG:HG2	2.24	0.65
22:DB:588:G:H8	22:DB:2000:U:H3	1.42	0.65
22:DB:505:G:N2	40:DT:82:ASN:CG	2.49	0.65
22:DB:720:A:N6	22:DB:738:G:H1'	2.11	0.65
24:DD:63:ARG:HG2	24:DD:87:ASN:H	1.61	0.65
27:DG:84:PRO:O	27:DG:85:VAL:HG22	1.95	0.65
28:DH:167:GLU:HB2	28:DH:169:ILE:HG13	1.79	0.65
28:DH:9:ILE:HB	28:DH:69:ARG:NH1	2.12	0.65
33:DM:95:ALA:HB2	33:DM:100:ARG:HB2	1.79	0.65
22:DB:613:A:N6	33:DM:97:ARG:CG	2.51	0.65
22:DB:1237:G:C5'	39:DS:87:ARG:CB	2.52	0.65
22:DB:1275:A:OP2	40:DT:120:ARG:NH1	2.30	0.65
43:DW:84:TYR:CE2	43:DW:128:ARG:NE	2.44	0.65
43:DW:84:TYR:CZ	43:DW:91:PRO:HG3	2.30	0.65
45:DY:48:ARG:HD3	45:DY:51:ALA:HB3	1.78	0.65
1:EA:643:C:O4'	8:EH:113:SER:CB	2.45	0.65
6:EF:12:PRO:HA	6:EF:19:LEU:HD12	1.78	0.65
1:EA:644:G:O5'	8:EH:132:GLU:OE1	2.14	0.65
14:EN:47:LEU:HA	14:EN:50:LYS:HD2	1.79	0.65
1:EA:1187:G:N3	14:EN:61:TRP:OXT	2.30	0.65
1:EA:1456:A:C5'	20:ET:28:ALA:CB	2.56	0.65
52:F6:23:VAL:HG12	52:F6:36:GLN:HE22	1.61	0.65
22:FB:1762:C:H5'	22:FB:1921:A:C8	2.31	0.65
22:FB:1985:G:H5'	35:FO:14:SER:OG	1.95	0.65
22:FB:2043:A:H3'	26:FF:62:LYS:NZ	2.12	0.65
22:FB:2259:G:N2	22:FB:2367:A:H1'	2.12	0.65
22:FB:863:C:O2	46:FZ:40:VAL:HA	1.96	0.65
24:FD:27:LYS:O	24:FD:28:ARG:HG2	1.97	0.65
24:FD:63:ARG:HG2	24:FD:87:ASN:H	1.61	0.65
22:FB:2551:A:N6	25:FE:144:ARG:C	2.50	0.65
27:FG:108:LEU:HD23	27:FG:117:ILE:HD11	1.78	0.65
28:FH:167:GLU:HB2	28:FH:169:ILE:HG13	1.79	0.65
29:FI:2:GLN:HB2	29:FI:4:ILE:HD11	1.78	0.65
22:FB:1338:G:N2	40:FT:107:ILE:CD1	2.60	0.65
43:FW:51:LEU:HD13	43:FW:128:ARG:HH21	0.83	0.65
1:GA:1109:C:P	3:GC:176:HIS:CE1	2.90	0.65
1:GA:127:G:H2'	1:GA:128:G:H8	1.60	0.65
1:GA:1494:G:O2'	22:HB:1895:A:H2'	1.97	0.65
1:GA:815:A:C3'	1:GA:1526:G:N2	2.60	0.65
4:GD:153:ARG:HA	4:GD:158:ILE:HG21	1.78	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:GM:88:ARG:CA	13:GM:98:VAL:HG12	2.27	0.65
19:GS:51:VAL:HG12	19:GS:52:TYR:H	1.61	0.65
1:GA:192:U:C5'	20:GT:103:GLY:HA3	2.26	0.65
22:HB:2399:C:O5'	51:H5:32:GLN:CB	2.38	0.65
22:HB:1340:C:OP1	40:HT:119:LYS:CD	2.32	0.65
22:HB:1455:C:C2	22:HB:1567:A:C2	2.84	0.65
22:HB:2343:C:O2'	44:HX:66:LYS:CG	2.44	0.65
22:HB:490:A:C5'	42:HV:3:ARG:CA	2.74	0.65
22:HB:2372:A:O3'	33:HM:61:PRO:O	2.13	0.65
22:HB:2463:G:H5'	34:HN:47:GLN:HA	1.78	0.65
34:HN:59:PHE:HE2	43:HW:112:LEU:HD21	1.61	0.65
32:HL:87:SER:CB	37:HQ:82:PRO:O	2.44	0.65
1:IA:1196:U:H4'	1:IA:1197:G:OP2	1.95	0.65
1:IA:247:G:O3'	17:IQ:100:LYS:HE2	1.96	0.65
1:IA:375:U:C4'	16:IP:17:TYR:CE2	2.80	0.65
1:IA:438:G:H1'	1:IA:495:U:O4	1.97	0.65
1:IA:544:G:N2	1:IA:549:C:H4'	2.11	0.65
2:IB:178:ARG:HH12	2:IB:183:PRO:HG3	1.59	0.65
2:IB:69:LEU:HB3	2:IB:162:ILE:HG12	1.79	0.65
1:IA:1373:G:O2'	7:IG:31:MET:HE3	1.96	0.65
9:II:6:GLY:HA3	9:II:80:GLY:O	1.97	0.65
23:JA:118:G:OP1	36:JP:52:ALA:HB1	1.97	0.65
22:JB:1018:C:O2'	31:JK:136:PRO:CA	2.44	0.65
22:JB:1333:G:N2	22:JB:1344:C:H41	1.95	0.65
22:JB:2186:G:O3'	24:JD:70:ARG:NE	2.26	0.65
22:JB:2265:A:C8	49:J3:31:THR:CG2	2.80	0.65
22:JB:63:A:C6	22:JB:89:A:N6	2.64	0.65
22:JB:965:G:OP1	34:JN:18:MET:CB	2.41	0.65
22:JB:626:A:C4	26:JF:172:VAL:HG11	2.24	0.65
29:JI:2:GLN:HB2	29:JI:4:ILE:HD11	1.78	0.65
31:JK:61:ARG:NE	31:JK:78:ASP:HB2	2.12	0.65
32:JL:21:CYS:HA	32:JL:54:SER:N	2.10	0.65
22:JB:2823:G:P	37:JQ:103:LYS:CG	2.85	0.65
34:JN:107:VAL:HG21	43:JW:112:LEU:HB2	0.75	0.65
43:JW:18:MET:H	43:JW:36:ARG:NH1	1.93	0.65
1:AA:1250:A:H2'	1:AA:1251:A:H8	1.60	0.65
1:AA:438:G:H1'	1:AA:495:U:O4	1.97	0.65
1:AA:727:G:H4'	15:AO:51:HIS:HD2	1.61	0.65
1:AA:742:G:OP1	15:AO:55:GLY:C	2.34	0.65
3:AC:181:ASN:ND2	3:AC:204:LEU:HB3	2.12	0.65
1:AA:17:U:H5"	5:AE:14:ARG:NE	2.12	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AK:51:LYS:HA	11:AK:55:LYS:HB2	1.78	0.65
1:AA:273:A:C4	17:AQ:16:GLN:HG3	2.31	0.65
1:AA:264:U:H5''	17:AQ:63:ARG:NH2	2.11	0.65
52:B6:23:VAL:HG12	52:B6:36:GLN:HE22	1.61	0.65
22:BB:163:A:H2'	22:BB:164:G:H8	1.62	0.65
22:BB:2311:U:H4'	22:BB:2315:A:N6	2.10	0.65
22:BB:2342:U:H4'	44:BX:38:VAL:CG1	2.25	0.65
22:BB:2470:U:C2	22:BB:2548:G:C3'	2.79	0.65
22:BB:2542:U:OP1	32:BL:39:GLY:N	2.29	0.65
22:BB:891:A:C1'	22:BB:893:G:C2	2.75	0.65
24:BD:246:PRO:O	24:BD:247:VAL:HG23	1.97	0.65
25:BE:176:ARG:CZ	37:BQ:19:ASP:HB2	2.26	0.65
26:BF:22:VAL:HG22	26:BF:23:ASN:N	2.10	0.65
23:BA:44:C:C2	27:BG:90:THR:N	2.64	0.65
28:BH:167:GLU:HB2	28:BH:169:ILE:HG13	1.79	0.65
1:AA:339:C:H3'	32:BL:109:ARG:CZ	2.27	0.65
35:BO:45:ARG:HB3	35:BO:46:PRO:HD3	1.76	0.65
37:BQ:40:ARG:NH2	37:BQ:50:PHE:HB3	2.12	0.65
23:BA:78:A:H4'	43:BW:31:SER:OG	1.96	0.65
1:CA:1225:A:C8	13:CM:104:ARG:NH2	2.63	0.65
1:CA:1374:A:O4'	7:CG:31:MET:CE	2.44	0.65
1:CA:438:G:H1'	1:CA:495:U:O4	1.97	0.65
1:CA:794:A:P	1:CA:1521:G:HO2'	2.19	0.65
1:CA:968:A:H1'	10:CJ:56:HIS:CE1	2.27	0.65
5:CE:127:ASN:ND2	5:CE:130:ASN:HD22	1.94	0.65
1:CA:136:C:HO2'	16:CP:63:GLY:HA2	1.58	0.65
22:DB:226:C:H6	47:D1:28:ARG:NH2	1.68	0.65
53:D7:205:VAL:HG22	53:D7:215:VAL:HG22	1.78	0.65
22:DB:163:A:H2'	22:DB:164:G:H8	1.62	0.65
22:DB:2284:U:H3'	22:DB:2286:G:C8	2.32	0.65
22:DB:2448:A:H1'	34:DN:57:ARG:CG	2.26	0.65
22:DB:2683:C:H2'	22:DB:2684:A:C8	2.32	0.65
22:DB:2745:A:N6	22:DB:2746:G:C4	2.64	0.65
22:DB:2781:G:H2'	22:DB:2782:G:H8	1.62	0.65
22:DB:503:G:H2'	22:DB:504:G:H8	1.61	0.65
22:DB:910:U:H3'	22:DB:911:A:N7	2.10	0.65
24:DD:27:LYS:O	24:DD:28:ARG:HG2	1.97	0.65
32:DL:11:ALA:HB2	32:DL:19:ILE:HD13	1.78	0.65
34:DN:36:ILE:HG13	43:DW:74:ARG:H	1.59	0.65
22:DB:1307:U:O3'	35:DO:71:HIS:CD2	2.49	0.65
32:DL:85:ASP:C	37:DQ:84:ALA:H	1.88	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:DR:47:TYR:CA	39:DS:74:TYR:HD1	2.09	0.65
1:EA:1349:A:OP1	9:EI:121:ARG:CG	2.44	0.65
1:EA:402:G:O3'	4:ED:135:LEU:HD11	1.95	0.65
1:EA:537:G:H5''	12:EL:113:ARG:HH21	1.49	0.65
1:EA:958:A:C5	19:ES:56:GLN:CD	2.70	0.65
3:EC:181:ASN:ND2	3:EC:204:LEU:HB3	2.12	0.65
1:EA:1367:C:H1'	10:EJ:60:ARG:HH22	1.58	0.65
1:EA:391:G:H5'	16:EP:8:ARG:HE	1.62	0.65
47:F1:5:LEU:HB3	47:F1:7:PRO:HD2	1.78	0.65
22:FB:220:U:OP1	51:F5:5:LYS:N	2.29	0.65
53:F7:64:VAL:HG21	53:F7:111:LEU:HD12	1.78	0.65
22:FB:1581:C:H2'	22:FB:1583:A:H5'	1.79	0.65
22:FB:163:A:H2'	22:FB:164:G:H8	1.62	0.65
22:FB:2311:U:H5''	44:FX:70:ILE:CG2	2.06	0.65
22:FB:3177:C:O2'	53:F7:163:PRO:CD	2.45	0.65
22:FB:1673:C:O5'	25:FE:136:ARG:CZ	2.44	0.65
22:FB:2006:G:C1'	25:FE:149:ARG:NH1	2.57	0.65
29:FI:1:MET:HG3	47:F1:68:ARG:NH2	2.01	0.65
41:FU:17:TYR:H	41:FU:20:MET:HB2	1.61	0.65
43:FW:88:TYR:N	43:FW:90:GLU:O	2.29	0.65
1:GA:106:C:H42	20:GT:14:LYS:CD	2.09	0.65
1:GA:1250:A:H2'	1:GA:1251:A:H8	1.60	0.65
1:GA:13:U:H1'	1:GA:914:A:H3'	1.79	0.65
1:GA:438:G:H1'	1:GA:495:U:O4	1.97	0.65
1:GA:50:A:H4'	1:GA:51:A:H5'	1.79	0.65
1:GA:1373:G:O4'	7:GG:34:GLY:O	2.14	0.65
10:GJ:47:PHE:HE1	14:GN:56:VAL:HG13	1.60	0.65
1:GA:1320:C:H5'	19:GS:3:ARG:HD3	1.71	0.65
22:HB:1261:G:H2'	38:HR:3:ARG:H	1.61	0.65
22:HB:1333:G:N2	22:HB:1344:C:H41	1.95	0.65
22:HB:1992:G:C5'	40:HT:62:ARG:NH2	2.60	0.65
22:HB:2236:U:H5'	44:HX:9:SER:O	1.94	0.65
22:HB:2335:U:C5'	44:HX:19:LYS:HD2	2.27	0.65
22:HB:1040:A:C1'	22:HB:2465:G:H5'	2.21	0.65
22:HB:2683:C:H2'	22:HB:2684:A:C8	2.32	0.65
22:HB:741:G:C4'	24:HD:17:THR:O	2.44	0.65
24:HD:63:ARG:HG2	24:HD:87:ASN:H	1.61	0.65
22:HB:2857:C:H5''	35:HO:98:LEU:HG	1.76	0.65
37:HQ:36:ASP:HA	37:HQ:94:VAL:HB	1.78	0.65
1:IA:962:C:H1'	1:IA:1201:A:N1	2.10	0.65
1:IA:1316:G:H1	19:IS:5:LEU:HB2	1.61	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:IA:1321:C:H4'	13:IM:87:TYR:CG	2.31	0.65
1:IA:1396:A:C2	5:IE:19:MET:HE3	2.32	0.65
18:IR:32:ARG:CZ	18:IR:69:THR:HG23	2.26	0.65
47:J1:5:LEU:HB3	47:J1:7:PRO:HD2	1.78	0.65
53:J7:64:VAL:HG21	53:J7:111:LEU:HD12	1.78	0.65
22:JB:1197:U:C5	22:JB:1198:C:C2	2.84	0.65
1:IA:1428:A:H4'	22:JB:1704:G:H4'	1.79	0.65
22:JB:1711:C:O2'	22:JB:1712:G:H5''	1.97	0.65
22:JB:2001:G:H1'	38:JR:33:ARG:NE	2.11	0.65
22:JB:2324:G:H5'	49:J3:40:TYR:HD1	1.62	0.65
22:JB:847:C:HO2'	22:JB:2337:A:H1'	1.60	0.65
22:JB:2573:C:N4	24:JD:239:ARG:NE	2.45	0.65
27:JG:6:THR:C	27:JG:8:TYR:H	1.99	0.65
22:JB:2372:A:O3'	33:JM:62:LYS:HA	1.96	0.65
37:JQ:70:LYS:N	37:JQ:71:ILE:HD12	2.06	0.65
38:JR:72:HIS:HB2	38:JR:74:MET:HE3	1.77	0.65
42:JV:101:GLY:HA2	42:JV:104:VAL:HG13	1.78	0.65
1:AA:1374:A:H8	7:AG:31:MET:HE1	1.61	0.65
1:AA:264:U:O2	17:AQ:64:PRO:CA	2.45	0.65
1:AA:625:G:P	16:AP:10:GLY:CA	2.84	0.65
1:AA:867:G:H21	1:AA:873:A:H2	1.44	0.65
1:AA:8:A:N6	4:AD:205:GLU:HB2	2.10	0.65
3:AC:23:TYR:CG	10:AJ:94:VAL:HA	2.31	0.65
4:AD:153:ARG:HA	4:AD:158:ILE:HG21	1.78	0.65
1:AA:741:G:N3	15:AO:51:HIS:CB	2.60	0.65
1:AA:262:A:C5'	20:AT:74:LYS:NZ	2.56	0.65
22:BB:697:G:OP1	50:B4:16:HIS:CB	2.44	0.65
22:BB:1140:A:H2	22:BB:2549:G:C4'	1.94	0.65
22:BB:1140:A:H5'	31:BK:107:GLN:HG2	1.74	0.65
22:BB:1141:U:C6	31:BK:106:TYR:CD1	2.85	0.65
22:BB:1805:G:N2	24:BD:52:ARG:CG	2.59	0.65
22:BB:1829:C:C6	22:BB:1911:A:O2'	2.50	0.65
22:BB:2683:C:H2'	22:BB:2684:A:C8	2.32	0.65
22:BB:79:G:N3	22:BB:305:A:H2	1.94	0.65
22:BB:503:G:H2'	22:BB:504:G:H8	1.62	0.65
22:BB:540:G:N3	22:BB:2018:G:H5'	2.12	0.65
22:BB:543:G:N9	22:BB:570:G:N2	2.43	0.65
22:BB:569:C:P	31:BK:137:LYS:HZ1	2.18	0.65
22:BB:887:G:C2	43:BW:165:GLU:HG3	2.31	0.65
22:BB:1805:G:N1	24:BD:52:ARG:HD2	2.11	0.65
27:BG:108:LEU:HD23	27:BG:117:ILE:HD11	1.79	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:BG:6:THR:C	27:BG:8:TYR:H	1.99	0.65
27:BG:72:LYS:HZ1	27:BG:73:SER:N	1.94	0.65
32:BL:5:GLN:HG3	32:BL:6:SER:H	1.62	0.65
22:BB:511:A:N3	40:BT:12:LYS:HB3	2.04	0.65
22:BB:2365:U:P	44:BX:39:ARG:HH12	2.20	0.65
1:CA:1309:G:C5'	13:CM:88:ARG:NH1	2.59	0.65
1:CA:280:C:O2	17:CQ:40:LYS:CA	2.41	0.65
1:CA:331:G:P	20:CT:10:LEU:HD21	2.37	0.65
9:CI:117:HIS:NE2	9:CI:123:PRO:HD3	2.12	0.65
11:CK:51:LYS:HA	11:CK:55:LYS:HB2	1.78	0.65
1:CA:1320:C:C1'	19:CS:73:GLU:N	2.49	0.65
22:DB:1397:A:C4	22:DB:1418:C:C5	2.84	0.65
22:DB:2237:C:OP2	44:DX:4:LYS:HG2	1.97	0.65
22:DB:2716:G:N2	22:DB:2749:A:H1'	2.12	0.65
22:DB:318:G:H5'	40:DT:12:LYS:HE2	1.64	0.65
22:DB:885:A:HO2'	43:DW:118:HIS:CE1	2.01	0.65
29:DI:30:ILE:H	29:DI:31:PRO:HD3	1.60	0.65
32:DL:21:CYS:HA	32:DL:54:SER:N	2.10	0.65
33:DM:60:LEU:HD23	51:D5:27:SER:OG	1.95	0.65
41:DU:17:TYR:H	41:DU:20:MET:HB2	1.61	0.65
22:DB:2343:C:H5''	44:DX:39:ARG:HA	1.78	0.65
1:EA:1196:U:H4'	1:EA:1197:G:OP2	1.95	0.65
1:EA:127:G:H2'	1:EA:128:G:H8	1.60	0.65
1:EA:1298:C:C5	7:EG:114:ARG:CG	2.72	0.65
1:EA:1318:A:O2'	19:ES:10:PHE:CB	2.43	0.65
1:EA:922:G:C2	1:EA:1396:A:N1	2.64	0.65
1:EA:438:G:H1'	1:EA:495:U:O4	1.97	0.65
1:EA:520:A:H62	1:EA:529:G:H21	1.44	0.65
1:EA:867:G:H21	1:EA:873:A:H2	1.44	0.65
7:EG:16:LEU:CB	9:EI:41:VAL:HG13	2.22	0.65
1:EA:111:G:P	16:EP:27:LYS:HG2	2.36	0.65
22:FB:2284:U:H3'	22:FB:2286:G:C8	2.32	0.65
22:FB:2461:G:N2	34:FN:53:ILE:CD1	2.44	0.65
22:FB:2781:G:H2'	22:FB:2782:G:H8	1.62	0.65
22:FB:2701:A:N7	22:FB:2848:A:N6	2.45	0.65
22:FB:311:A:OP1	42:FV:91:ALA:HB3	1.97	0.65
22:FB:811:G:OP1	26:FF:53:LYS:NZ	2.28	0.65
25:FE:29:GLY:HA2	25:FE:90:SER:H	1.60	0.65
33:FM:95:ALA:HB2	33:FM:100:ARG:HB2	1.78	0.65
38:FR:46:GLU:HG2	39:FS:75:LYS:HD2	1.78	0.65
22:FB:2315:A:N7	44:FX:70:ILE:CD1	2.57	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:GA:195:A:OP2	20:GT:65:LYS:CE	2.44	0.65
1:GA:933:G:H2'	1:GA:934:C:H4'	1.78	0.65
1:GA:8:A:N7	4:GD:205:GLU:HB2	2.11	0.65
5:GE:31:LEU:HB3	5:GE:43:LEU:HD22	1.79	0.65
6:GF:4:TYR:HD1	6:GF:92:LYS:HA	1.62	0.65
7:GG:51:GLN:HB2	7:GG:58:PRO:HD3	1.77	0.65
1:GA:1318:A:O3'	19:GS:5:LEU:HD13	1.96	0.65
22:HB:1376:C:N1	47:H1:3:LYS:HA	2.10	0.65
53:H7:205:VAL:HG22	53:H7:215:VAL:HG22	1.78	0.65
23:HA:99:G:H2'	23:HA:100:G:H8	1.62	0.65
22:HB:1453:A:N7	22:HB:1454:U:C5	2.65	0.65
1:GA:1428:A:H4'	22:HB:1704:G:H4'	1.79	0.65
22:HB:2002:A:H5'	38:HR:33:ARG:CG	2.23	0.65
22:HB:2591:C:N3	48:H2:4:HIS:CE1	2.64	0.65
22:HB:48:A:N1	22:HB:153:A:N7	2.45	0.65
22:HB:57:G:H3'	22:HB:72:A:H62	1.13	0.65
22:HB:58:C:N4	22:HB:73:A:C6	2.64	0.65
32:HL:113:PRO:HG3	37:HQ:76:GLY:N	2.11	0.65
1:IA:1484:C:O2'	22:JB:1944:C:H5'	1.97	0.65
1:IA:246:A:H4'	1:IA:247:G:H4'	1.78	0.65
13:IM:86:CYS:N	19:IS:74:PHE:HB3	2.11	0.65
22:JB:2209:G:C1'	47:J1:40:HIS:H	2.08	0.65
22:JB:1087:C:O2'	30:JJ:91:PRO:C	2.34	0.65
22:JB:1197:U:H5''	46:JZ:26:ARG:CZ	2.22	0.65
1:IA:1408:A:O3'	22:JB:1899:A:N1	2.30	0.65
22:JB:2505:G:O2'	52:J6:34:GLN:CA	2.39	0.65
22:JB:2795:A:N7	25:JE:192:ASN:HB3	2.12	0.65
22:JB:631:G:C5	33:JM:96:TYR:CD2	2.85	0.65
28:JH:9:ILE:HB	28:JH:69:ARG:NH1	2.12	0.65
33:JM:95:ALA:HB2	33:JM:100:ARG:HB2	1.78	0.65
22:JB:2685:A:C4'	35:JO:64:ARG:HH22	1.89	0.65
44:JX:45:PHE:H	44:JX:76:ALA:HA	1.61	0.65
1:AA:1320:C:C2	19:AS:72:GLY:C	2.70	0.65
1:AA:1347:G:HO2'	1:AA:1348:U:H6	1.45	0.65
9:AI:47:LEU:HB2	9:AI:50:LEU:HD12	1.77	0.65
12:AL:38:THR:O	12:AL:79:GLU:HG3	1.97	0.65
53:B7:205:VAL:HG22	53:B7:215:VAL:HG22	1.78	0.65
53:B7:36:PHE:H	53:B7:163:PRO:HB2	1.61	0.65
22:BB:3876:A:H1'	53:B7:40:ASP:OD2	1.93	0.65
22:BB:1436:G:N3	22:BB:1508:G:N3	2.45	0.65
22:BB:2063:A:O5'	47:B1:20:VAL:CG2	2.44	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:BB:2553:G:N2	25:BE:140:SER:HG	1.94	0.65
22:BB:2034:A:H5''	22:BB:2557:G:OP2	1.96	0.65
22:BB:2599:U:O2	25:BE:156:MET:CE	2.45	0.65
22:BB:3865:A:O2'	53:B7:43:LYS:CE	2.36	0.65
22:BB:494:A:C4	42:BV:56:LYS:CB	2.79	0.65
22:BB:528:G:O2'	40:BT:95:ALA:O	2.13	0.65
22:BB:827:C:OP1	39:BS:83:ARG:C	2.35	0.65
25:BE:111:LYS:HD3	25:BE:111:LYS:N	2.12	0.65
25:BE:143:GLN:HB2	25:BE:144:ARG:HH11	1.59	0.65
31:BK:61:ARG:NE	31:BK:78:ASP:HB2	2.12	0.65
36:BP:71:VAL:HG12	36:BP:75:LEU:HD12	1.78	0.65
39:BS:40:VAL:HG13	39:BS:51:ALA:HB1	1.79	0.65
22:BB:1236:G:H1	39:BS:73:LYS:HE2	1.61	0.65
1:CA:1092:A:C5'	7:CG:4:ARG:HD2	2.20	0.65
1:CA:254:G:C4	17:CQ:16:GLN:CB	2.70	0.65
3:CC:181:ASN:ND2	3:CC:204:LEU:HB3	2.12	0.65
1:CA:437:U:C5'	4:CD:155:LEU:HD12	2.22	0.65
1:CA:588:G:C5'	8:CH:3:THR:H	2.09	0.65
10:CJ:3:LYS:N	10:CJ:76:ASN:H	1.95	0.65
1:CA:1228:C:C2'	13:CM:118:ALA:O	2.37	0.65
1:CA:980:C:C4'	14:CN:19:ARG:NH2	2.60	0.65
18:CR:32:ARG:CZ	18:CR:69:THR:HG23	2.26	0.65
22:DB:1044:U:H5	52:D6:16:VAL:HG22	1.61	0.65
22:DB:1111:C:H1'	28:DH:168:GLN:HE22	1.56	0.65
22:DB:2186:G:H2'	22:DB:2186:G:N3	2.12	0.65
22:DB:2823:G:H1'	22:DB:2843:A:H61	1.60	0.65
22:DB:3093:C:H4'	29:DI:21:LYS:CB	2.16	0.65
22:DB:575:U:H5	39:DS:80:TYR:C	1.99	0.65
22:DB:606:A:H2	33:DM:23:PRO:CA	2.09	0.65
22:DB:676:G:N3	22:DB:950:G:H4'	2.11	0.65
22:DB:887:G:H8	43:DW:167:THR:HG22	1.55	0.65
25:DE:195:LEU:HD21	37:DQ:2:GLN:HG3	1.78	0.65
34:DN:72:ASP:O	34:DN:73:LYS:HG2	1.97	0.65
37:DQ:40:ARG:NH2	37:DQ:50:PHE:HB3	2.12	0.65
39:DS:40:VAL:HG13	39:DS:51:ALA:HB1	1.79	0.65
22:DB:1172:U:C1'	39:DS:8:GLY:HA2	2.27	0.65
44:DX:49:GLN:HA	44:DX:55:ARG:NE	2.12	0.65
1:EA:962:C:H1'	1:EA:1201:A:N1	2.10	0.65
1:EA:927:G:C2	1:EA:1532:U:H4'	2.30	0.65
1:EA:262:A:H5''	20:ET:74:LYS:HD2	1.65	0.65
1:EA:538:G:H4'	12:EL:114:LYS:CB	2.25	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:EA:538:G:OP1	12:EL:113:ARG:CD	2.44	0.65
1:EA:760:G:N1	17:EQ:105:ALA:N	2.44	0.65
6:EF:4:TYR:HD1	6:EF:92:LYS:HA	1.62	0.65
1:EA:538:G:P	12:EL:113:ARG:CD	2.84	0.65
1:EA:1228:C:H5''	13:EM:104:ARG:O	1.96	0.65
22:FB:465:C:H42	50:F4:39:ARG:HD2	0.82	0.65
22:FB:3175:C:C1'	53:F7:208:THR:O	2.45	0.65
22:FB:10:A:C4	22:FB:2608:A:C4	2.85	0.65
22:FB:1388:C:H2'	22:FB:1389:C:O4'	1.97	0.65
22:FB:1531:C:C1'	22:FB:1572:C:O2	2.43	0.65
22:FB:1782:A:O2'	24:FD:205:VAL:HG23	1.97	0.65
22:FB:2186:G:H2'	22:FB:2186:G:N3	2.12	0.65
22:FB:2311:U:H4'	22:FB:2315:A:N6	2.10	0.65
22:FB:2325:A:H2'	49:F3:25:THR:HB	1.77	0.65
22:FB:2601:C:OP1	25:FE:159:HIS:CD2	2.50	0.65
22:FB:2638:G:H2'	22:FB:2640:G:OP2	1.96	0.65
22:FB:2683:C:H2'	22:FB:2684:A:C8	2.32	0.65
22:FB:2823:G:H1'	22:FB:2843:A:H61	1.60	0.65
22:FB:612:G:C4'	22:FB:613:A:H4'	2.27	0.65
22:FB:2186:G:H1'	24:FD:150:GLY:H	1.59	0.65
25:FE:19:ARG:NH2	37:FQ:65:SER:OG	2.28	0.65
22:FB:2617:G:P	25:FE:81:PHE:HZ	2.20	0.65
22:FB:6:A:H2	31:FK:162:LYS:CE	2.01	0.65
32:FL:91:PHE:CE1	37:FQ:79:ARG:CG	2.80	0.65
35:FO:79:VAL:HA	35:FO:83:VAL:HB	1.76	0.65
39:FS:40:VAL:HG13	39:FS:51:ALA:HB1	1.79	0.65
22:FB:1235:C:P	39:FS:68:LYS:HG2	2.36	0.65
22:FB:2310:G:O2'	44:FX:70:ILE:HB	1.97	0.65
1:GA:1196:U:H4'	1:GA:1197:G:OP2	1.95	0.65
1:GA:16:A:C5'	5:GE:15:ARG:CB	2.47	0.65
1:GA:965:A:O2'	1:GA:966:G:H5''	1.97	0.65
1:GA:439:A:C4'	4:GD:122:ARG:HH12	2.08	0.65
11:GK:116:HIS:HD2	18:GR:81:PHE:CD2	2.13	0.65
53:H7:203:ILE:HG22	53:H7:215:VAL:HG21	1.78	0.65
22:HB:1225:G:O6	40:HT:10:ASN:HA	1.96	0.65
22:HB:1788:C:C5'	24:HD:254:THR:CG2	2.73	0.65
22:HB:2075:U:C3'	22:HB:3093:C:P	2.85	0.65
22:HB:2470:U:C2	22:HB:2548:G:O3'	2.49	0.65
22:HB:503:G:H2'	22:HB:504:G:H8	1.61	0.65
22:HB:55:A:H1'	22:HB:125:A:H2	1.57	0.65
22:HB:582:G:H2'	22:HB:583:C:H3'	1.78	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:HB:699:G:C2	50:H4:5:TYR:CB	2.80	0.65
22:HB:94:C:C2'	45:HY:41:HIS:CE1	2.69	0.65
22:HB:1884:A:O2'	24:HD:244:ARG:NH1	2.29	0.65
25:HE:111:LYS:HD3	25:HE:111:LYS:N	2.12	0.65
28:HH:167:GLU:HB2	28:HH:169:ILE:HG13	1.79	0.65
32:HL:21:CYS:HA	32:HL:54:SER:N	2.10	0.65
34:HN:72:ASP:O	34:HN:73:LYS:HG2	1.97	0.65
37:HQ:36:ASP:CG	37:HQ:37:THR:H	1.97	0.65
1:IA:1190:G:P	3:IC:4:LYS:CB	2.85	0.65
1:IA:1495:U:H1'	22:JB:1902:A:N6	2.07	0.65
1:IA:428:G:H4'	1:IA:429:U:H4'	1.79	0.65
1:IA:50:A:H4'	1:IA:51:A:H5'	1.79	0.65
1:IA:520:A:H62	1:IA:529:G:H21	1.44	0.65
1:IA:620:C:C5'	4:ID:138:TYR:CZ	2.80	0.65
12:IL:11:VAL:HG22	17:IQ:34:LYS:CG	2.27	0.65
22:JB:2791:C:O4'	48:J2:43:HIS:CE1	2.50	0.65
22:JB:1829:C:H1'	22:JB:1910:A:C2	2.32	0.65
22:JB:2601:C:O2'	22:JB:2799:C:N4	2.29	0.65
22:JB:3187:U:O2'	29:JI:20:VAL:HG22	1.97	0.65
22:JB:320:A:O2'	42:JV:25:LEU:HD13	1.97	0.65
22:JB:632:A:H3'	22:JB:633:G:H8	1.62	0.65
22:JB:910:U:O2	22:JB:911:A:H5''	1.96	0.65
25:JE:111:LYS:N	25:JE:111:LYS:HD3	2.12	0.65
22:JB:2550:C:H1'	25:JE:143:GLN:CD	2.17	0.65
31:JK:156:HIS:HB3	31:JK:157:PRO:HD2	1.79	0.65
22:JB:1470:G:H1'	35:JO:60:LEU:HD13	1.79	0.65
22:JB:2823:G:C6	37:JQ:60:SER:OG	2.45	0.65
22:JB:2240:C:H2'	44:JX:14:ARG:O	1.95	0.65
44:JX:49:GLN:HA	44:JX:55:ARG:NE	2.12	0.65
1:AA:1196:U:H4'	1:AA:1197:G:OP2	1.95	0.65
1:AA:483:C:H3'	1:AA:484:G:C8	2.32	0.65
9:AI:46:ALA:HB1	9:AI:77:ILE:HD12	1.79	0.65
18:AR:19:LYS:HG2	18:AR:20:ALA:H	1.62	0.65
18:AR:32:ARG:CZ	18:AR:69:THR:HG23	2.26	0.65
22:BB:1388:C:H2'	22:BB:1389:C:O4'	1.97	0.65
22:BB:1401:G:N2	22:BB:1413:U:N1	2.44	0.65
24:BD:27:LYS:O	24:BD:28:ARG:HG2	1.97	0.65
32:BL:87:SER:OG	37:BQ:82:PRO:C	2.05	0.65
25:BE:52:ALA:HB3	37:BQ:5:ILE:CB	2.27	0.65
1:CA:1186:G:H2'	1:CA:1187:G:C8	2.32	0.65
1:CA:1196:U:H4'	1:CA:1197:G:OP2	1.95	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:1250:A:H2'	1:CA:1251:A:H8	1.60	0.65
1:CA:1347:G:HO2'	1:CA:1348:U:H6	1.45	0.65
1:CA:1373:G:H5''	7:CG:36:LYS:CB	2.23	0.65
1:CA:483:C:H3'	1:CA:484:G:C8	2.32	0.65
4:CD:100:ARG:HH22	4:CD:137:SER:HB3	1.60	0.65
4:CD:204:ILE:CD1	5:CE:99:GLY:HA3	2.27	0.65
6:CF:48:LEU:O	18:CR:78:LEU:O	2.14	0.65
7:CG:69:VAL:CG1	7:CG:100:ALA:HA	2.27	0.65
1:CA:690:G:OP1	11:CK:27:ASN:HB3	1.97	0.65
1:CA:760:G:H1'	17:CQ:97:SER:OG	1.96	0.65
22:DB:225:G:O2'	47:D1:28:ARG:CB	2.44	0.65
22:DB:477:A:H5'	50:D4:12:ARG:NH2	2.12	0.65
22:DB:1072:U:N3	30:DJ:10:LEU:C	2.48	0.65
22:DB:1239:A:P	39:DS:73:LYS:HG3	2.30	0.65
22:DB:1383:C:C5'	24:DD:48:ARG:NE	2.60	0.65
22:DB:1388:C:H2'	22:DB:1389:C:O4'	1.97	0.65
22:DB:1683:G:H4'	32:DL:6:SER:CA	2.25	0.65
22:DB:612:G:C4'	22:DB:613:A:H4'	2.27	0.65
22:DB:845:U:C5'	33:DM:41:SER:HB2	2.25	0.65
22:DB:676:G:C2'	22:DB:950:G:O2'	2.44	0.65
24:DD:214:TRP:HB3	24:DD:215:LEU:HD12	1.78	0.65
22:DB:1797:C:O2'	24:DD:49:ILE:HG21	1.93	0.65
32:DL:5:GLN:HG3	32:DL:6:SER:H	1.62	0.65
22:DB:1163:C:H1'	38:DR:78:THR:OG1	1.97	0.65
23:DA:77:G:H21	43:DW:22:VAL:CG2	2.10	0.65
1:EA:228:A:N1	16:EP:1:MET:N	2.42	0.65
1:EA:238:G:C5'	17:EQ:38:ARG:HH21	2.04	0.65
1:EA:375:U:C4'	16:EP:17:TYR:CE2	2.69	0.65
1:EA:483:C:H3'	1:EA:484:G:C8	2.32	0.65
1:EA:1240:U:OP1	7:EG:115:ARG:HB3	1.97	0.65
10:EJ:63:PHE:CE2	14:EN:58:LYS:CA	2.77	0.65
1:EA:529:G:O6	12:EL:49:ASN:ND2	2.30	0.65
53:F7:149:ASN:HB3	53:F7:153:ARG:HH12	1.60	0.65
22:FB:2277:A:P	27:FG:71:LYS:HZ2	2.19	0.65
22:FB:338:G:O2'	42:FV:7:GLY:HA3	1.95	0.65
28:FH:24:PHE:N	28:FH:35:VAL:HG21	2.09	0.65
22:FB:2494:C:H4'	31:FK:107:GLN:HG2	1.77	0.65
32:FL:29:ILE:HG21	32:FL:32:LYS:HB2	1.78	0.65
43:FW:94:VAL:HG11	43:FW:125:PRO:HG2	1.77	0.65
22:FB:2239:C:H2'	44:FX:14:ARG:HG2	1.79	0.65
1:GA:1002:G:H2'	1:GA:1002:G:N3	2.11	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:GA:37:U:OP1	12:GL:125:PRO:HD2	1.93	0.65
1:GA:1190:G:P	3:GC:5:ILE:H	2.20	0.65
5:GE:127:ASN:ND2	5:GE:130:ASN:HD22	1.94	0.65
1:GA:922:G:O4'	5:GE:20:GLN:HA	1.97	0.65
1:GA:1321:C:OP1	13:GM:100:GLY:CA	2.45	0.65
18:GR:19:LYS:HG2	18:GR:20:ALA:H	1.61	0.65
53:H7:36:PHE:H	53:H7:163:PRO:HB2	1.61	0.65
22:HB:3166:G:H8	53:H7:98:ARG:CD	2.10	0.65
22:HB:1020:A:H4'	38:HR:62:ILE:CG1	2.27	0.65
22:HB:2704:U:H2'	22:HB:2705:A:C8	2.31	0.65
22:HB:402:A:H1'	22:HB:2391:A:O2'	1.97	0.65
22:HB:95:G:C8	45:HY:41:HIS:NE2	2.64	0.65
37:HQ:55:ILE:CD1	37:HQ:55:ILE:H	2.07	0.65
41:HU:17:TYR:H	41:HU:20:MET:HB2	1.61	0.65
1:IA:865:A:C4'	1:IA:1078:U:O4	2.45	0.65
4:ID:108:LEU:HD21	4:ID:174:LEU:HD13	1.79	0.65
6:IF:36:ARG:HH11	6:IF:36:ARG:HB2	1.62	0.65
1:IA:640:A:N3	8:IH:116:LYS:HG3	2.11	0.65
12:IL:38:THR:O	12:IL:79:GLU:HG3	1.97	0.65
49:J3:24:THR:CA	51:J5:35:GLY:CA	2.53	0.65
22:JB:2258:G:O4'	22:JB:2306:A:O2'	2.14	0.65
22:JB:2487:G:H5''	22:JB:2534:U:C5'	2.26	0.65
22:JB:2553:G:N2	25:JE:142:GLY:H	1.95	0.65
22:JB:2573:C:H41	24:JD:239:ARG:NH1	1.94	0.65
22:JB:582:G:H2'	22:JB:583:C:H3'	1.78	0.65
22:JB:682:G:N2	26:JF:49:ALA:CB	2.59	0.65
15:IO:89:GLY:C	22:JB:729:A:OP2	2.34	0.65
22:JB:672:C:H1'	26:JF:95:LEU:HA	1.79	0.65
22:JB:566:U:O2'	31:JK:74:MET:SD	2.45	0.65
22:JB:2464:G:C4'	34:JN:123:GLY:H	1.89	0.65
22:JB:884:C:C5'	34:JN:70:PHE:CE1	2.75	0.65
37:JQ:16:ILE:HA	37:JQ:19:ASP:HB2	1.77	0.65
22:JB:109:A:O4'	45:JY:59:GLU:HA	1.97	0.65
1:AA:1059:C:O2'	10:AJ:51:ARG:O	1.66	0.65
1:AA:1227:A:O2'	13:AM:117:VAL:HG13	1.97	0.65
1:AA:13:U:H1'	1:AA:914:A:H3'	1.78	0.65
1:AA:15:G:C4'	5:AE:24:ARG:HE	2.04	0.65
1:AA:509:A:C1'	4:AD:54:TYR:CD2	2.80	0.65
1:AA:625:G:OP1	16:AP:10:GLY:HA2	1.97	0.65
1:AA:667:G:C1'	15:AO:49:ASP:CB	2.62	0.65
6:AF:12:PRO:HA	6:AF:19:LEU:HD12	1.79	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:AJ:12:ASP:O	10:AJ:16:LEU:HG	1.97	0.65
10:AJ:63:PHE:CD2	14:AN:48:ALA:HB1	2.31	0.65
53:B7:85:ILE:HG21	53:B7:90:LEU:HD13	1.79	0.65
22:BB:1238:A:H5''	39:BS:73:LYS:HB3	1.77	0.65
22:BB:1394:G:N2	22:BB:1588:A:C4	2.61	0.65
22:BB:2007:G:C2	31:BK:103:TYR:CZ	2.83	0.65
22:BB:2186:G:H2'	22:BB:2186:G:N3	2.12	0.65
22:BB:2863:U:O2	48:B2:30:LEU:HD23	1.96	0.65
22:BB:568:G:N7	22:BB:569:C:N3	2.44	0.65
22:BB:612:G:C4'	22:BB:613:A:H4'	2.27	0.65
22:BB:888:G:H1'	43:BW:165:GLU:CG	2.19	0.65
25:BE:29:GLY:HA2	25:BE:90:SER:H	1.60	0.65
22:BB:686:C:C2'	26:BF:68:ARG:NH2	2.60	0.65
22:BB:1140:A:H5'	31:BK:107:GLN:CB	2.26	0.65
32:BL:87:SER:CA	37:BQ:82:PRO:C	2.54	0.65
22:BB:822:G:O6	33:BM:40:ARG:CZ	2.45	0.65
22:BB:2463:G:O2'	34:BN:121:LEU:CB	2.45	0.65
25:BE:181:LEU:HA	37:BQ:12:LEU:HD21	1.78	0.65
38:BR:94:VAL:HG21	39:BS:10:LYS:HB3	1.79	0.65
42:BV:48:VAL:HG22	42:BV:49:GLU:H	1.61	0.65
1:CA:1073:U:H1'	2:CB:107:THR:CG2	2.25	0.65
1:CA:246:A:H4'	1:CA:247:G:H4'	1.78	0.65
1:CA:408:A:C4'	4:CD:112:VAL:HB	2.27	0.65
6:CF:23:LYS:HA	6:CF:26:ILE:HD12	1.78	0.65
1:CA:1374:A:O4'	7:CG:31:MET:HE1	1.96	0.65
1:CA:1349:A:OP2	9:CI:118:LYS:HB3	1.96	0.65
1:CA:236:G:C3'	17:CQ:42:TYR:HH	2.10	0.65
22:DB:1239:A:OP1	39:DS:73:LYS:CG	2.36	0.65
22:DB:1292:A:H5'	35:DO:33:ARG:HB2	0.69	0.65
22:DB:2338:C:H2'	22:DB:2339:A:O4'	1.97	0.65
22:DB:2498:U:C5'	22:DB:2546:G:N2	2.45	0.65
22:DB:872:G:C2'	22:DB:2247:A:H2	2.10	0.65
25:DE:143:GLN:HE21	25:DE:144:ARG:HE	1.44	0.65
22:DB:2795:A:H8	25:DE:192:ASN:HB2	1.60	0.65
31:DK:156:HIS:O	31:DK:157:PRO:C	2.31	0.65
32:DL:29:ILE:HG21	32:DL:32:LYS:HB2	1.78	0.65
34:DN:127:PRO:N	43:DW:74:ARG:NH1	2.45	0.65
36:DP:71:VAL:HG12	36:DP:75:LEU:HD12	1.79	0.65
38:DR:72:HIS:HB2	38:DR:74:MET:HE3	1.78	0.65
22:DB:29:U:C4'	38:DR:7:GLY:C	2.62	0.65
43:DW:123:VAL:O	43:DW:124:ALA:HB3	1.97	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:EA:1092:A:H5''	7:EG:4:ARG:CD	2.27	0.65
1:EA:1100:C:N4	2:EB:144:ARG:NH2	2.28	0.65
1:EA:1117:G:N1	9:EI:106:ALA:CB	2.58	0.65
1:EA:1239:A:O2'	7:EG:115:ARG:CD	2.44	0.65
1:EA:1074:G:C1'	2:EB:104:ASN:CB	2.66	0.65
4:ED:100:ARG:HH22	4:ED:137:SER:HB3	1.60	0.65
1:EA:939:G:OP1	7:EG:102:ARG:NH2	2.30	0.65
1:EA:522:C:H41	12:EL:53:ARG:HH12	1.45	0.65
1:EA:1225:A:C5'	13:EM:102:ARG:CA	2.75	0.65
20:ET:23:ARG:HA	20:ET:26:ASN:HB2	1.79	0.65
53:F7:36:PHE:H	53:F7:163:PRO:HB2	1.61	0.65
53:F7:85:ILE:HG21	53:F7:90:LEU:HD13	1.79	0.65
22:FB:1034:U:O2	22:FB:1133:G:OP1	2.15	0.65
22:FB:1172:U:O2'	39:FS:22:VAL:CB	2.44	0.65
22:FB:1781:C:H4'	24:FD:209:ALA:CB	2.26	0.65
22:FB:2311:U:H5'	44:FX:70:ILE:CB	2.26	0.65
22:FB:2540:A:HO2'	32:FL:23:ARG:HB3	1.60	0.65
22:FB:2034:A:H5''	22:FB:2557:G:OP2	1.96	0.65
22:FB:2773:G:H21	22:FB:2780:A:H1'	1.59	0.65
22:FB:29:U:O3'	38:FR:8:ILE:HG21	1.97	0.65
22:FB:1265:G:C5'	38:FR:14:HIS:CD2	2.68	0.65
22:FB:1005:U:H6	38:FR:51:ARG:HH12	0.76	0.65
22:FB:63:A:C6	41:FU:64:ARG:CD	2.79	0.65
44:FX:49:GLN:HA	44:FX:55:ARG:NE	2.12	0.65
46:FZ:33:GLU:HG2	46:FZ:34:VAL:H	1.62	0.65
1:GA:1169:A:H2'	1:GA:1169:A:N3	2.12	0.65
1:GA:246:A:H4'	1:GA:247:G:H4'	1.78	0.65
1:GA:918:A:C2	1:GA:1079:G:N2	2.51	0.65
3:GC:23:TYR:HE2	10:GJ:9:ARG:CG	2.07	0.65
1:GA:26:A:N6	4:GD:209:ARG:NH2	2.45	0.65
1:GA:1199:U:O2'	10:GJ:54:PHE:CE2	2.50	0.65
1:GA:37:U:O5'	12:GL:124:LYS:CD	2.43	0.65
1:GA:740:U:H4'	15:GO:42:HIS:ND1	2.12	0.65
22:HB:2444:C:C5'	52:H6:3:VAL:HG13	2.27	0.65
22:HB:122:G:H5''	22:HB:1390:G:OP1	1.97	0.65
22:HB:2040:A:H4'	48:H2:8:LYS:HZ1	1.60	0.65
22:HB:2334:C:O4'	44:HX:32:LYS:HD2	1.97	0.65
22:HB:2034:A:H5''	22:HB:2557:G:OP2	1.96	0.65
22:HB:2628:C:O4'	32:HL:38:GLY:O	2.14	0.65
22:HB:632:A:H3'	22:HB:633:G:H8	1.62	0.65
24:HD:246:PRO:O	24:HD:247:VAL:HG23	1.97	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:HI:2:GLN:HB2	29:HI:4:ILE:HD11	1.78	0.65
22:HB:1075:C:OP1	30:HJ:84:ILE:HG13	1.96	0.65
22:HB:2618:A:O2'	31:HK:125:ARG:HG3	1.97	0.65
1:IA:1250:A:H2'	1:IA:1251:A:H8	1.60	0.65
1:IA:1279:A:HO2'	1:IA:1281:U:H5''	1.61	0.65
5:IE:98:THR:HG21	5:IE:119:LEU:HG	1.79	0.65
1:IA:653:A:C2	8:IH:27:PRO:HB3	2.32	0.65
1:IA:824:C:O4'	8:IH:3:THR:CB	2.45	0.65
1:IA:751:U:H2'	15:IO:69:TYR:OH	1.93	0.65
22:JB:2074:U:C1'	47:J1:43:TRP:C	2.56	0.65
22:JB:2261:G:C4'	49:J3:3:LYS:NZ	2.59	0.65
23:JA:99:G:H2'	23:JA:100:G:H8	1.62	0.65
22:JB:1088:A:H5''	30:JJ:92:ASN:HB2	1.74	0.65
22:JB:1364:C:H1'	22:JB:1587:A:O2'	1.96	0.65
22:JB:1385:C:N4	22:JB:1386:A:H62	1.94	0.65
22:JB:2372:A:HO2'	33:JM:63:ARG:NH1	1.94	0.65
22:JB:2034:A:H5''	22:JB:2557:G:OP2	1.96	0.65
22:JB:2570:C:N4	24:JD:237:GLU:CD	2.51	0.65
22:JB:2722:C:H5	52:J6:35:ARG:NH1	1.62	0.65
22:JB:47:G:H1'	22:JB:155:G:C2	2.32	0.65
22:JB:503:G:H2'	22:JB:504:G:H8	1.61	0.65
38:JR:28:ARG:HD2	38:JR:38:THR:HG21	1.78	0.65
38:JR:47:TYR:CD1	39:JS:75:LYS:N	2.60	0.65
22:JB:311:A:OP2	42:JV:91:ALA:CB	2.44	0.65
1:AA:962:C:H1'	1:AA:1201:A:N1	2.10	0.64
1:AA:1345:U:H5''	9:AI:120:ARG:NH1	2.06	0.64
1:AA:246:A:H4'	1:AA:247:G:H4'	1.78	0.64
1:AA:958:A:C2	19:AS:56:GLN:NE2	2.53	0.64
6:AF:36:ARG:HH11	6:AF:36:ARG:HB2	1.62	0.64
6:AF:4:TYR:HD1	6:AF:92:LYS:HA	1.62	0.64
1:AA:741:G:C4'	15:AO:52:SER:O	2.39	0.64
22:BB:1041:G:N2	52:B6:5:SER:N	2.29	0.64
22:BB:1674:C:OP2	25:BE:136:ARG:HD3	1.97	0.64
22:BB:2330:G:H21	22:BB:2345:A:H62	1.45	0.64
22:BB:2639:A:H2'	22:BB:2639:A:N3	2.12	0.64
22:BB:2766:U:C4'	25:BE:64:GLN:CB	2.50	0.64
22:BB:632:A:H3'	22:BB:633:G:H8	1.62	0.64
22:BB:2277:A:OP1	27:BG:71:LYS:CD	2.46	0.64
28:BH:22:GLY:HA2	28:BH:37:TYR:HB2	1.80	0.64
32:BL:23:ARG:HD3	32:BL:24:VAL:N	2.12	0.64
34:BN:72:ASP:O	34:BN:73:LYS:HG2	1.97	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BN:99:LYS:HG3	43:BW:73:LYS:HZ3	1.62	0.64
38:BR:25:TRP:HH2	48:B2:14:SER:OG	1.70	0.64
1:CA:234:C:O3'	17:CQ:70:ARG:CB	2.45	0.64
1:CA:489:C:OP1	4:CD:132:ARG:HG3	1.97	0.64
1:CA:941:G:N2	9:CI:121:ARG:NH2	2.45	0.64
10:CJ:48:THR:HA	10:CJ:62:HIS:HA	1.79	0.64
18:CR:19:LYS:HG2	18:CR:20:ALA:H	1.62	0.64
22:DB:641:G:OP1	51:D5:46:LYS:CE	2.45	0.64
53:D7:203:ILE:HG22	53:D7:215:VAL:HG21	1.78	0.64
22:DB:1333:G:N2	22:DB:1344:C:H41	1.95	0.64
22:DB:1861:G:O6	53:D7:199:ASN:CB	2.30	0.64
22:DB:426:C:H4'	22:DB:1862:C:H2'	1.79	0.64
22:DB:541:C:N4	22:DB:572:G:C8	2.65	0.64
22:DB:632:A:H3'	22:DB:633:G:H8	1.62	0.64
24:DD:246:PRO:O	24:DD:247:VAL:HG23	1.97	0.64
28:DH:24:PHE:N	28:DH:35:VAL:HG21	2.09	0.64
34:DN:73:LYS:CB	34:DN:94:TRP:H	2.05	0.64
23:DA:10:U:O2	36:DP:49:GLN:CG	2.44	0.64
1:EA:1468:A:H3'	1:EA:1469:G:H8	1.62	0.64
1:EA:329:A:H61	20:ET:16:HIS:CD2	2.15	0.64
1:EA:407:G:H4'	4:ED:116:GLN:CA	2.27	0.64
1:EA:664:G:N2	1:EA:741:G:H1	1.88	0.64
1:EA:965:A:O2'	1:EA:966:G:H5''	1.97	0.64
5:EE:98:THR:HG21	5:EE:119:LEU:HG	1.79	0.64
7:EG:69:VAL:CG1	7:EG:100:ALA:HA	2.27	0.64
12:EL:75:HIS:HB2	12:EL:108:ALA:HB3	1.79	0.64
22:FB:2399:C:C5	51:F5:31:HIS:C	2.70	0.64
22:FB:1793:A:N6	22:FB:1806:G:H2'	2.11	0.64
22:FB:2258:G:N3	22:FB:2306:A:C4	2.64	0.64
22:FB:2338:C:H2'	22:FB:2339:A:O4'	1.97	0.64
22:FB:2701:A:N9	22:FB:2848:A:N7	2.44	0.64
22:FB:3866:A:C1'	53:F7:195:LYS:CD	2.56	0.64
22:FB:533:C:C5'	22:FB:550:C:H1'	2.28	0.64
22:FB:680:U:H5''	33:FM:48:PHE:CE1	2.32	0.64
22:FB:93:A:C2'	45:FY:37:LEU:CD2	2.67	0.64
31:FK:156:HIS:O	31:FK:157:PRO:C	2.31	0.64
22:FB:338:G:HO2'	42:FV:7:GLY:HA2	1.60	0.64
43:FW:123:VAL:O	43:FW:124:ALA:HB3	1.97	0.64
1:GA:1186:G:H2'	1:GA:1187:G:C8	2.32	0.64
2:GB:69:LEU:HB3	2:GB:162:ILE:HG12	1.78	0.64
4:GD:108:LEU:HD21	4:GD:174:LEU:HD13	1.79	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:GK:25:TYR:O	11:GK:89:ALA:HB2	1.96	0.64
47:H1:5:LEU:HB3	47:H1:7:PRO:HD2	1.79	0.64
22:HB:1289:A:OP2	22:HB:1662:G:N3	2.29	0.64
22:HB:1385:C:HO2'	22:HB:2193:C:N4	1.94	0.64
22:HB:1707:A:C2	22:HB:1758:C:H5''	2.32	0.64
22:HB:2062:U:HO2'	47:H1:32:HIS:HD1	0.66	0.64
22:HB:2330:G:H21	22:HB:2345:A:H62	1.45	0.64
22:HB:3:U:C2	22:HB:2875:C:O2	2.50	0.64
22:HB:64:C:N3	22:HB:88:G:N1	2.44	0.64
22:HB:75:C:O2'	45:HY:56:VAL:HG13	1.97	0.64
24:HD:94:LEU:C	24:HD:95:LEU:HD13	2.17	0.64
27:HG:141:ILE:HG13	27:HG:142:THR:H	1.63	0.64
32:HL:119:ARG:HH22	37:HQ:44:ARG:CA	2.08	0.64
22:HB:596:C:C5	33:HM:29:THR:HG21	2.29	0.64
34:HN:102:ARG:H	34:HN:104:MET:HE1	1.63	0.64
34:HN:106:GLU:HG2	43:HW:114:ASP:C	2.17	0.64
34:HN:68:ARG:NH2	43:HW:117:VAL:CB	2.61	0.64
22:HB:511:A:N6	40:HT:12:LYS:HB3	2.12	0.64
22:HB:57:G:H5'	41:HU:75:ARG:NH1	2.13	0.64
1:IA:1240:U:O4	7:IG:119:ARG:CZ	2.45	0.64
1:IA:1374:A:O2'	7:IG:29:LYS:HE3	1.95	0.64
1:IA:1392:G:H22	1:IA:1502:A:H5'	1.61	0.64
1:IA:708:C:C5'	11:IK:20:TYR:CE2	2.69	0.64
1:IA:867:G:H21	1:IA:873:A:H2	1.44	0.64
1:IA:958:A:H1'	19:IS:55:LYS:CD	2.28	0.64
14:IN:47:LEU:HA	14:IN:50:LYS:HD2	1.79	0.64
1:IA:1320:C:H1'	19:IS:73:GLU:OE1	1.96	0.64
22:JB:2264:C:H5	49:J3:28:ARG:HB2	1.62	0.64
23:JA:40:C:H2'	23:JA:41:A:H5'	1.79	0.64
22:JB:2638:G:C8	28:JH:179:THR:HA	2.28	0.64
22:JB:576:A:C5'	33:JM:40:ARG:CZ	2.74	0.64
22:JB:2764:U:H5''	25:JE:36:ARG:HH22	1.61	0.64
22:JB:3094:A:C4'	29:JI:28:TRP:CZ3	2.65	0.64
22:JB:761:G:O6	40:JT:111:ARG:NH1	2.30	0.64
22:JB:1128:G:O2'	43:JW:76:ARG:CD	2.43	0.64
1:AA:1186:G:H2'	1:AA:1187:G:C8	2.32	0.64
1:AA:780:A:O2'	1:AA:1523:G:H4'	1.97	0.64
1:AA:254:G:O3'	17:AQ:45:HIS:ND1	2.29	0.64
3:AC:8:ILE:HA	3:AC:11:ARG:NH1	2.12	0.64
5:AE:127:ASN:ND2	5:AE:130:ASN:HD22	1.94	0.64
10:AJ:3:LYS:N	10:AJ:76:ASN:H	1.95	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:AL:39:VAL:HG12	12:AL:41:ARG:HB2	1.79	0.64
1:AA:1309:G:H5''	13:AM:81:LEU:CD1	2.25	0.64
1:AA:668:G:C4	15:AO:46:HIS:ND1	2.65	0.64
48:B2:33:CYS:HA	48:B2:40:LYS:HB2	1.78	0.64
23:BA:99:G:H2'	23:BA:100:G:H8	1.62	0.64
22:BB:1238:A:H5''	39:BS:73:LYS:C	2.17	0.64
22:BB:1333:G:N2	22:BB:1344:C:H41	1.95	0.64
22:BB:922:A:H2	22:BB:2243:C:H2'	1.56	0.64
22:BB:2338:C:H2'	22:BB:2339:A:O4'	1.97	0.64
26:BF:22:VAL:HG13	26:BF:23:ASN:N	2.10	0.64
31:BK:156:HIS:HB3	31:BK:157:PRO:HD2	1.80	0.64
22:BB:2474:G:C4'	34:BN:83:ARG:N	2.47	0.64
22:BB:1300:A:C8	35:BO:103:ARG:HD3	2.33	0.64
1:CA:962:C:H1'	1:CA:1201:A:N1	2.10	0.64
1:CA:8:A:H1'	5:CE:104:ALA:N	2.12	0.64
1:CA:619:U:N1	4:CD:133:VAL:HG22	2.11	0.64
4:CD:153:ARG:HA	4:CD:158:ILE:HG21	1.78	0.64
5:CE:98:THR:HG21	5:CE:119:LEU:HG	1.79	0.64
1:CA:1077:G:C2	5:CE:45:PHE:HZ	2.15	0.64
6:CF:4:TYR:HD1	6:CF:92:LYS:HA	1.62	0.64
10:CJ:12:ASP:O	10:CJ:16:LEU:HG	1.97	0.64
12:CL:75:HIS:HB2	12:CL:108:ALA:HB3	1.79	0.64
13:CM:87:TYR:CE2	13:CM:91:ARG:HG3	2.33	0.64
22:DB:1437:A:H2'	22:DB:1438:G:N7	2.12	0.64
22:DB:1670:G:P	22:DB:2797:G:H1	2.19	0.64
22:DB:2218:G:H4'	24:DD:230:ASP:CB	2.26	0.64
22:DB:2311:U:H4'	22:DB:2315:A:N6	2.10	0.64
22:DB:2646:C:C6	28:DH:109:TYR:CG	2.85	0.64
22:DB:3197:U:O2'	22:DB:2181:A:P	2.54	0.64
22:DB:1238:A:OP2	39:DS:87:ARG:CD	2.42	0.64
1:EA:1136:U:C5	1:IA:1136:U:O4'	2.50	0.64
1:EA:438:G:P	4:ED:125:HIS:NE2	2.71	0.64
1:EA:632:A:O2'	17:EQ:30:PRO:O	2.15	0.64
1:EA:753:A:N1	8:EH:2:LEU:N	2.32	0.64
10:EJ:55:LYS:HZ3	10:EJ:55:LYS:HB2	1.62	0.64
10:EJ:63:PHE:C	14:EN:59:ALA:CB	2.46	0.64
3:EC:18:TRP:CD1	14:EN:53:LEU:N	2.63	0.64
22:FB:409:G:O4'	47:F1:39:VAL:HG21	1.97	0.64
53:F7:85:ILE:HB	53:F7:90:LEU:HD22	1.78	0.64
22:FB:1238:A:P	39:FS:87:ARG:HD3	2.38	0.64
22:FB:1241:G:OP2	38:FR:16:LYS:NZ	2.29	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:FB:53:G:N2	22:FB:124:A:H2	1.94	0.64
22:FB:1411:C:C1'	22:FB:1412:C:C5	2.81	0.64
22:FB:1398:G:C6	22:FB:1415:C:C4	2.85	0.64
22:FB:2039:G:H22	48:F2:2:ALA:CA	2.10	0.64
22:FB:1742:G:O2'	22:FB:2836:U:C4'	2.45	0.64
22:FB:632:A:H3'	22:FB:633:G:H8	1.62	0.64
22:FB:2764:U:C5'	25:FE:36:ARG:HH22	2.01	0.64
31:FK:156:HIS:HB3	31:FK:157:PRO:HD2	1.79	0.64
33:FM:108:LEU:HB3	33:FM:129:ALA:HB3	1.79	0.64
34:FN:102:ARG:H	34:FN:104:MET:HE1	1.62	0.64
38:FR:91:ASN:ND2	39:FS:10:LYS:CE	2.59	0.64
1:GA:1468:A:H3'	1:GA:1469:G:H8	1.62	0.64
2:GB:53:ARG:CZ	8:GH:68:ARG:HH12	2.07	0.64
10:GJ:12:ASP:O	10:GJ:16:LEU:HG	1.97	0.64
11:GK:91:ARG:H	11:GK:91:ARG:HD2	1.63	0.64
1:GA:1320:C:C4'	19:GS:3:ARG:HH11	1.90	0.64
22:HB:1385:C:N4	22:HB:1386:A:H62	1.95	0.64
22:HB:1398:G:N1	22:HB:1416:A:C6	2.64	0.64
22:HB:1788:C:P	24:HD:254:THR:HG23	2.38	0.64
22:HB:1851:A:H2'	22:HB:1852:G:O4'	1.98	0.64
22:HB:2685:A:H4'	35:HO:64:ARG:HH22	1.55	0.64
22:HB:470:U:O2'	41:HU:69:ILE:HD13	1.96	0.64
22:HB:879:A:C4	22:HB:2298:U:O4	2.50	0.64
31:HK:61:ARG:NE	31:HK:78:ASP:HB2	2.12	0.64
22:HB:596:C:H3'	33:HM:29:THR:HG1	1.60	0.64
22:HB:2002:A:O4'	38:HR:33:ARG:NE	2.31	0.64
22:HB:2343:C:O2	44:HX:66:LYS:CD	2.45	0.64
1:IA:1254:C:H5"	1:IA:1357:A:OP1	1.97	0.64
1:IA:483:C:H3'	1:IA:484:G:C8	2.32	0.64
1:IA:778:G:C1'	11:IK:119:CYS:HB3	2.28	0.64
1:IA:965:A:O2'	1:IA:966:G:H5"	1.97	0.64
1:IA:1396:A:C2	5:IE:19:MET:CE	2.81	0.64
13:IM:87:TYR:N	19:IS:74:PHE:N	2.34	0.64
1:IA:452:A:H1'	16:IP:72:ARG:CZ	2.28	0.64
22:JB:1629:G:O3'	50:J4:3:ARG:HD3	1.94	0.64
22:JB:1356:G:C6	22:JB:1416:A:N6	2.65	0.64
22:JB:3170:A:HO2'	53:J7:128:LEU:HA	1.61	0.64
22:JB:490:A:C5'	42:JV:3:ARG:HH12	2.09	0.64
22:JB:491:A:OP1	42:JV:72:ARG:NE	2.28	0.64
24:JD:94:LEU:C	24:JD:95:LEU:HD13	2.17	0.64
27:JG:141:ILE:HG13	27:JG:142:THR:H	1.63	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:JK:33:ILE:HD12	31:JK:34:PRO:HD2	1.77	0.64
32:JL:23:ARG:HD3	32:JL:24:VAL:N	2.12	0.64
33:JM:108:LEU:HB3	33:JM:129:ALA:HB3	1.79	0.64
33:JM:35:LYS:HB2	33:JM:35:LYS:HZ2	1.61	0.64
23:JA:118:G:P	36:JP:53:ALA:H	2.19	0.64
23:JA:54:U:OP1	36:JP:62:GLY:CA	2.45	0.64
22:JB:2364:C:O2	44:JX:37:LEU:CD2	2.46	0.64
1:AA:296:U:H2'	1:AA:297:G:H5'	1.80	0.64
1:AA:761:G:N2	17:AQ:104:LYS:C	2.50	0.64
1:AA:965:A:O2'	1:AA:966:G:H5''	1.97	0.64
5:AE:31:LEU:HB3	5:AE:43:LEU:HD22	1.79	0.64
5:AE:75:THR:N	5:AE:117:ASP:HB2	2.12	0.64
5:AE:98:THR:HG21	5:AE:119:LEU:HG	1.79	0.64
7:AG:115:ARG:HD3	7:AG:115:ARG:H	1.62	0.64
9:AI:117:HIS:NE2	9:AI:123:PRO:HD3	2.12	0.64
22:BB:106:G:H1'	22:BB:357:A:N1	2.13	0.64
22:BB:1463:A:H61	22:BB:1477:C:N4	1.95	0.64
22:BB:1793:A:N6	22:BB:1806:G:H2'	2.11	0.64
22:BB:1376:C:H4'	22:BB:1801:C:N4	2.12	0.64
22:BB:1851:A:H2'	22:BB:1852:G:O4'	1.98	0.64
24:BD:214:TRP:HB3	24:BD:215:LEU:HD12	1.78	0.64
25:BE:76:ARG:NH2	37:BQ:2:GLN:OE1	2.30	0.64
29:BI:2:GLN:HB2	29:BI:4:ILE:HD11	1.78	0.64
34:BN:38:MET:HA	43:BW:74:ARG:HG3	1.78	0.64
22:BB:2463:G:H5''	34:BN:46:ASN:O	1.97	0.64
25:BE:52:ALA:HB3	37:BQ:5:ILE:HD13	1.79	0.64
43:BW:51:LEU:CD1	43:BW:129:ARG:HH21	2.09	0.64
23:BA:106:U:O2'	43:BW:88:TYR:HA	1.97	0.64
22:BB:863:C:H5''	46:BZ:18:LYS:HZ3	1.62	0.64
1:CA:296:U:H2'	1:CA:297:G:H5'	1.80	0.64
1:CA:965:A:O2'	1:CA:966:G:H5''	1.97	0.64
3:CC:8:ILE:HA	3:CC:11:ARG:NH1	2.12	0.64
4:CD:108:LEU:HD21	4:CD:174:LEU:HD13	1.80	0.64
13:CM:20:THR:HG23	13:CM:26:GLY:HA2	1.80	0.64
1:CA:719:C:C2	18:CR:50:ILE:HG13	2.32	0.64
22:DB:1237:G:H4'	39:DS:87:ARG:CA	2.26	0.64
22:DB:1793:A:N6	22:DB:1806:G:H2'	2.11	0.64
22:DB:2330:G:H21	22:DB:2345:A:H62	1.45	0.64
22:DB:2034:A:H5''	22:DB:2557:G:OP2	1.96	0.64
24:DD:142:VAL:HA	24:DD:193:ILE:HA	1.79	0.64
22:DB:742:G:C6	24:DD:18:THR:CB	2.81	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:DD:94:LEU:C	24:DD:95:LEU:HD13	2.17	0.64
34:DN:99:LYS:CG	43:DW:73:LYS:CD	2.75	0.64
38:DR:91:ASN:HD21	39:DS:10:LYS:CG	2.10	0.64
42:DV:48:VAL:HG22	42:DV:49:GLU:H	1.61	0.64
43:DW:134:LEU:HD11	43:DW:152:ILE:HD12	1.79	0.64
46:DZ:33:GLU:HG2	46:DZ:34:VAL:H	1.62	0.64
1:EA:1250:A:H2'	1:EA:1251:A:H8	1.60	0.64
1:EA:933:G:H2'	1:EA:934:C:H4'	1.77	0.64
4:ED:101:LEU:HD23	4:ED:136:PRO:HA	1.79	0.64
1:EA:1373:G:H4'	7:EG:34:GLY:C	2.18	0.64
9:EI:117:HIS:NE2	9:EI:123:PRO:HD3	2.12	0.64
48:F2:45:ILE:HD11	48:F2:52:TYR:HD2	1.60	0.64
51:F5:5:LYS:HG2	51:F5:60:LEU:HD12	1.80	0.64
51:F5:7:HIS:HA	51:F5:10:ALA:HB3	1.77	0.64
22:FB:1164:C:H5'	38:FR:77:SER:CA	2.27	0.64
22:FB:1256:C:H1'	33:FM:15:ASP:CA	2.17	0.64
22:FB:1333:G:N2	22:FB:1344:C:H41	1.95	0.64
22:FB:1711:C:O2'	22:FB:1712:G:H5''	1.97	0.64
22:FB:1376:C:H4'	22:FB:1801:C:N4	2.13	0.64
22:FB:2003:A:H5'	38:FR:25:TRP:CZ2	2.32	0.64
22:FB:2056:C:H5''	24:FD:229:VAL:HA	1.77	0.64
22:FB:2241:U:C4	22:FB:2306:A:H2	2.16	0.64
22:FB:2330:G:H21	22:FB:2345:A:H62	1.45	0.64
22:FB:10:A:C6	22:FB:2608:A:N9	2.65	0.64
22:FB:597:U:H5'	33:FM:28:LYS:NZ	2.13	0.64
22:FB:828:C:H5'	39:FS:86:HIS:HE1	1.52	0.64
22:FB:940:G:C2	46:FZ:37:THR:CB	2.75	0.64
24:FD:246:PRO:O	24:FD:247:VAL:HG23	1.97	0.64
22:FB:2708:U:H5'	25:FE:21:ILE:CD1	2.26	0.64
22:FB:2283:G:H2'	27:FG:153:ASP:HB3	1.77	0.64
30:FJ:21:PRO:HB2	30:FJ:22:PRO:CD	2.28	0.64
22:FB:845:U:OP1	33:FM:41:SER:CB	2.45	0.64
36:FP:71:VAL:HG12	36:FP:75:LEU:HD12	1.79	0.64
1:GA:1442:G:H21	1:GA:1443:G:H3'	1.61	0.64
20:AT:102:GLY:O	1:GA:181:G:OP2	2.15	0.64
1:GA:483:C:H3'	1:GA:484:G:C8	2.32	0.64
1:GA:689:C:H2'	1:GA:690:G:O4'	1.97	0.64
5:GE:98:THR:HG21	5:GE:119:LEU:HG	1.79	0.64
12:GL:38:THR:O	12:GL:79:GLU:HG3	1.97	0.64
22:HB:1376:C:C4	47:H1:3:LYS:HB2	2.32	0.64
22:HB:1007:A:N1	22:HB:1171:A:C4	2.66	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:HB:1376:C:H4'	22:HB:1801:C:N4	2.13	0.64
22:HB:1992:G:C5'	40:HT:62:ARG:HH21	2.09	0.64
22:HB:227:G:O5'	33:HM:59:ARG:NH2	2.30	0.64
22:HB:2503:G:N2	22:HB:2720:A:H2	1.95	0.64
22:HB:2781:G:H2'	22:HB:2782:G:H8	1.62	0.64
22:HB:876:A:H2'	22:HB:877:G:O4'	1.96	0.64
24:HD:214:TRP:HB3	24:HD:215:LEU:HD12	1.78	0.64
25:HE:143:GLN:HE21	25:HE:144:ARG:HE	1.44	0.64
30:HJ:21:PRO:HB2	30:HJ:22:PRO:CD	2.27	0.64
22:HB:567:G:H5'	31:HK:73:ASN:CG	2.18	0.64
22:HB:574:C:OP2	39:HS:79:GLN:HA	1.98	0.64
41:HU:10:PRO:HD2	45:HY:26:MET:SD	2.37	0.64
1:IA:1151:A:H5''	10:IJ:42:THR:CB	2.26	0.64
1:IA:1186:G:H2'	1:IA:1187:G:C8	2.32	0.64
1:IA:1321:C:C4'	13:IM:87:TYR:CE1	2.77	0.64
1:IA:1468:A:H3'	1:IA:1469:G:H8	1.61	0.64
1:IA:1392:G:H4'	1:IA:1530:G:C4'	2.26	0.64
1:IA:247:G:C6	17:IQ:96:GLN:HG2	2.33	0.64
1:IA:126:G:OP1	1:IA:605:U:O4'	2.15	0.64
1:IA:403:C:OP1	4:ID:3:ARG:NH2	2.31	0.64
10:IJ:12:ASP:O	10:IJ:16:LEU:HG	1.98	0.64
11:IK:25:TYR:O	11:IK:89:ALA:HB2	1.97	0.64
12:IL:75:HIS:HB2	12:IL:108:ALA:HB3	1.79	0.64
12:IL:72:GLY:HA3	12:IL:102:ARG:HH11	1.63	0.64
1:IA:186:C:C5'	20:IT:81:LYS:HB3	2.28	0.64
22:JB:1861:G:O6	53:J7:196:VAL:CG1	2.45	0.64
53:J7:205:VAL:HG22	53:J7:215:VAL:HG22	1.78	0.64
22:JB:1376:C:H2'	22:JB:1377:G:H8	1.62	0.64
22:JB:217:U:H5''	22:JB:634:G:C4'	2.26	0.64
22:JB:220:U:H5''	51:J5:60:LEU:CD1	2.27	0.64
22:JB:2403:C:O2	22:JB:2409:A:OP1	2.15	0.64
22:JB:2636:A:O2'	28:JH:158:HIS:CE1	2.50	0.64
22:JB:444:U:H2'	22:JB:445:A:H8	1.62	0.64
22:JB:608:G:H21	26:JF:29:GLU:CD	1.99	0.64
22:JB:93:A:N3	45:JY:41:HIS:CD2	2.65	0.64
22:JB:786:U:O3'	24:JD:48:ARG:CB	2.37	0.64
22:JB:2372:A:H5'	33:JM:62:LYS:HZ3	1.61	0.64
37:JQ:40:ARG:NH2	37:JQ:50:PHE:HB3	2.12	0.64
37:JQ:36:ASP:HA	37:JQ:94:VAL:HB	1.78	0.64
1:AA:675:A:H2'	1:AA:676:A:H5'	1.80	0.64
5:AE:145:LYS:O	8:AH:107:LEU:HD13	1.98	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1227:A:H2'	13:AM:117:VAL:HG13	1.76	0.64
14:AN:47:LEU:HA	14:AN:50:LYS:HD2	1.79	0.64
1:AA:264:U:C5'	17:AQ:63:ARG:NH2	2.55	0.64
1:AA:958:A:C5	19:AS:56:GLN:CG	2.79	0.64
48:B2:15:LYS:HZ2	48:B2:16:ARG:N	1.96	0.64
22:BB:2790:C:C3'	48:B2:42:SER:O	2.46	0.64
51:B5:5:LYS:HG2	51:B5:60:LEU:HD12	1.80	0.64
22:BB:1356:G:C2'	22:BB:1613:G:C8	2.78	0.64
22:BB:1954:A:H62	24:BD:239:ARG:CB	2.10	0.64
22:BB:2646:C:C1'	28:BH:111:HIS:CE1	2.48	0.64
22:BB:2725:C:H4'	28:BH:142:GLY:CA	2.28	0.64
22:BB:348:U:C5'	42:BV:13:LYS:CE	2.75	0.64
22:BB:1163:C:C4'	38:BR:80:ILE:HB	2.27	0.64
39:BS:63:HIS:HA	39:BS:95:ILE:HD13	1.79	0.64
22:BB:511:A:N1	40:BT:12:LYS:HB3	2.01	0.64
44:BX:49:GLN:HA	44:BX:55:ARG:NE	2.12	0.64
1:CA:1343:G:H4'	9:CI:122:ALA:H	1.62	0.64
1:CA:1468:A:H3'	1:CA:1469:G:H8	1.61	0.64
1:CA:973:G:C4'	14:CN:41:ARG:NH2	2.60	0.64
4:CD:201:GLN:CD	5:CE:116:THR:HB	2.18	0.64
5:CE:31:LEU:HB3	5:CE:43:LEU:HD22	1.79	0.64
9:CI:48:GLU:HB2	9:CI:78:LYS:HZ1	1.61	0.64
14:CN:47:LEU:HA	14:CN:50:LYS:HD2	1.79	0.64
52:D6:23:VAL:HG12	52:D6:36:GLN:HE22	1.61	0.64
53:D7:85:ILE:HB	53:D7:90:LEU:HD22	1.78	0.64
23:DA:99:G:H2'	23:DA:100:G:H8	1.62	0.64
22:DB:1583:A:N6	24:DD:89:SER:OG	2.29	0.64
22:DB:574:C:H5''	39:DS:82:ARG:HH12	1.60	0.64
25:DE:91:VAL:HG22	25:DE:93:VAL:N	2.10	0.64
22:DB:2795:A:C4'	35:DO:5:LYS:HG2	2.26	0.64
22:DB:308:C:H5'	42:DV:93:ARG:NH2	2.08	0.64
1:EA:130:A:N6	17:EQ:64:PRO:CG	2.60	0.64
1:EA:448:A:H2	16:EP:44:THR:CG2	2.10	0.64
1:EA:675:A:H2'	1:EA:676:A:H5'	1.80	0.64
1:EA:1205:U:H5''	3:EC:190:ARG:HH21	1.63	0.64
1:EA:599:C:OP1	8:EH:99:GLU:HG3	1.96	0.64
10:EJ:3:LYS:N	10:EJ:76:ASN:H	1.95	0.64
13:EM:96:LEU:HB3	13:EM:97:PRO:HD2	1.79	0.64
22:FB:1290:A:H1'	35:FO:24:GLN:CG	2.27	0.64
22:FB:2701:A:N7	22:FB:2848:A:N7	2.46	0.64
22:FB:2769:C:H2'	22:FB:2867:G:N1	2.12	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:FB:3125:G:H5''	53:F7:26:PHE:CZ	2.32	0.64
22:FB:1583:A:N9	24:FD:84:TYR:CE1	2.64	0.64
25:FE:111:LYS:HD3	25:FE:111:LYS:N	2.12	0.64
22:FB:1673:C:C3'	25:FE:136:ARG:CG	2.75	0.64
28:FH:151:VAL:HG23	28:FH:152:ARG:H	1.63	0.64
32:FL:23:ARG:HD3	32:FL:24:VAL:N	2.12	0.64
25:FE:18:ASP:OD1	32:FL:85:ASP:N	2.31	0.64
33:FM:37:GLN:HE21	33:FM:38:LYS:H	1.43	0.64
22:FB:1469:U:N3	35:FO:60:LEU:HA	2.12	0.64
43:FW:64:ALA:CA	43:FW:128:ARG:NH1	2.51	0.64
22:FB:998:C:O3'	46:FZ:7:ARG:HG2	1.96	0.64
1:GA:339:C:C3'	32:HL:109:ARG:HE	2.08	0.64
4:GD:121:VAL:HB	4:GD:136:PRO:HG3	1.78	0.64
1:GA:412:A:C2	4:GD:30:LYS:HA	2.32	0.64
12:GL:39:VAL:HG12	12:GL:41:ARG:HB2	1.78	0.64
22:HB:2789:U:O4'	48:H2:30:LEU:HD12	1.54	0.64
51:H5:52:LYS:N	51:H5:52:LYS:HE3	2.13	0.64
22:HB:1004:A:H1'	22:HB:1173:G:H22	1.59	0.64
22:HB:1374:G:C5'	47:H1:52:THR:O	2.45	0.64
22:HB:643:A:C2	22:HB:2382:C:C1'	2.72	0.64
22:HB:2:G:N2	22:HB:2876:C:C6	2.62	0.64
22:HB:444:U:H2'	22:HB:445:A:H8	1.62	0.64
22:HB:602:C:C1'	51:H5:2:PRO:HD2	2.26	0.64
22:HB:1789:U:C5'	24:HD:257:LEU:CD1	2.18	0.64
24:HD:27:LYS:O	24:HD:28:ARG:HG2	1.97	0.64
22:HB:6:A:H4'	31:HK:162:LYS:HZ3	1.63	0.64
22:HB:2825:A:N3	35:HO:61:HIS:CD2	2.65	0.64
37:HQ:12:LEU:HA	37:HQ:16:ILE:HB	1.79	0.64
43:HW:18:MET:H	43:HW:36:ARG:NH1	1.94	0.64
1:IA:689:C:H2'	1:IA:690:G:O4'	1.97	0.64
1:IA:13:U:O2	1:IA:914:A:H3'	1.97	0.64
3:IC:181:ASN:ND2	3:IC:204:LEU:HB3	2.12	0.64
4:ID:101:LEU:HD23	4:ID:136:PRO:HA	1.79	0.64
4:ID:100:ARG:HH22	4:ID:137:SER:HB3	1.60	0.64
6:IF:80:ARG:NH2	6:IF:87:ARG:HA	2.11	0.64
9:II:117:HIS:NE2	9:II:123:PRO:HD3	2.12	0.64
1:IA:561:U:H4'	12:IL:18:VAL:CG2	2.26	0.64
53:J7:85:ILE:HG21	53:J7:90:LEU:HD13	1.79	0.64
22:JB:3165:G:OP1	53:J7:99:PRO:CB	2.45	0.64
23:JA:10:U:C1'	36:JP:28:ARG:HH22	2.10	0.64
22:JB:1376:C:H4'	22:JB:1801:C:N4	2.13	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:JB:1851:A:H2'	22:JB:1852:G:O4'	1.98	0.64
22:JB:2073:A:N3	47:J1:58:LYS:HG3	2.11	0.64
22:JB:2338:C:H2'	22:JB:2339:A:O4'	1.97	0.64
22:JB:2781:G:H2'	22:JB:2782:G:H8	1.62	0.64
22:JB:2848:A:H1'	35:JO:6:ALA:O	1.97	0.64
22:JB:3175:C:O2'	53:J7:33:ILE:HD11	1.97	0.64
27:JG:72:LYS:HZ1	27:JG:73:SER:N	1.94	0.64
22:JB:2292:C:H5'	27:JG:87:ILE:HD11	1.80	0.64
22:JB:2652:G:C4'	32:JL:46:HIS:HE1	1.98	0.64
22:JB:969:U:O4	34:JN:21:ASP:CA	2.44	0.64
34:JN:73:LYS:HG3	34:JN:93:TYR:CD2	2.33	0.64
38:JR:88:ILE:HG21	39:JS:40:VAL:CG2	2.25	0.64
22:JB:70:A:H62	41:JU:30:SER:HB2	1.58	0.64
46:JZ:33:GLU:HG2	46:JZ:34:VAL:H	1.62	0.64
1:AA:1350:A:OP1	9:AI:121:ARG:CZ	2.46	0.64
1:AA:1381:U:C5	7:AG:77:SER:C	2.70	0.64
1:AA:339:C:C3'	32:BL:109:ARG:CZ	2.76	0.64
4:AD:101:LEU:HD23	4:AD:136:PRO:HA	1.80	0.64
4:AD:108:LEU:HD21	4:AD:174:LEU:HD13	1.79	0.64
1:AA:965:A:H5'	10:AJ:55:LYS:HE2	1.79	0.64
1:AA:1049:U:H5	14:AN:3:ARG:HB2	1.61	0.64
1:AA:254:G:C3'	17:AQ:45:HIS:CE1	2.79	0.64
1:AA:323:U:O2'	20:AT:19:SER:HB3	1.97	0.64
22:BB:801:A:HO2'	50:B4:4:THR:CB	2.10	0.64
51:B5:5:LYS:HE2	51:B5:62:LEU:HB2	1.80	0.64
22:BB:1291:G:H2'	22:BB:1292:A:H8	1.63	0.64
22:BB:1535:C:C5	22:BB:1536:G:H1'	2.33	0.64
22:BB:1711:C:O2'	22:BB:1712:G:H5''	1.97	0.64
22:BB:1652:G:N2	22:BB:1752:U:C1'	2.60	0.64
22:BB:2265:A:C2	49:B3:38:LYS:NZ	2.65	0.64
22:BB:2372:A:H4'	33:BM:60:LEU:O	1.98	0.64
22:BB:1949:A:O2'	22:BB:2572:U:H5'	1.98	0.64
22:BB:569:C:OP2	31:BK:137:LYS:NZ	2.28	0.64
22:BB:857:U:O4	22:BB:943:U:O4	2.15	0.64
22:BB:1805:G:C4	24:BD:52:ARG:NE	2.63	0.64
42:BV:90:LYS:HB3	42:BV:108:VAL:HG21	1.80	0.64
1:CA:1292:U:H5'	9:CI:38:GLN:OE1	1.97	0.64
1:CA:408:A:C4'	4:CD:112:VAL:CB	2.75	0.64
1:CA:430:A:OP2	4:CD:8:VAL:CG2	2.39	0.64
4:CD:101:LEU:HD23	4:CD:136:PRO:HA	1.80	0.64
1:CA:623:C:N4	4:CD:139:ARG:HH22	1.84	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:CG:115:ARG:HD3	7:CG:115:ARG:H	1.63	0.64
12:CL:38:THR:O	12:CL:79:GLU:HG3	1.97	0.64
1:CA:1456:A:OP1	20:CT:28:ALA:HA	1.97	0.64
53:D7:85:ILE:HG21	53:D7:90:LEU:HD13	1.79	0.64
23:DA:77:G:H1'	43:DW:29:ASN:CG	2.17	0.64
22:DB:1463:A:H61	22:DB:1477:C:N4	1.95	0.64
22:DB:1376:C:H4'	22:DB:1801:C:N4	2.13	0.64
22:DB:1807:A:H1'	22:DB:1808:C:H4'	1.80	0.64
22:DB:2639:A:H2'	22:DB:2639:A:N3	2.13	0.64
22:DB:575:U:C5	39:DS:80:TYR:HA	2.03	0.64
22:DB:1583:A:C4	24:DD:84:TYR:HD1	2.11	0.64
25:DE:151:TYR:N	31:DK:106:TYR:HE1	1.95	0.64
26:DF:22:VAL:HG13	26:DF:23:ASN:N	2.10	0.64
28:DH:22:GLY:HA2	28:DH:37:TYR:HB2	1.79	0.64
32:DL:88:THR:OG1	37:DQ:81:PHE:HA	1.97	0.64
23:DA:77:G:HO2'	43:DW:31:SER:N	1.93	0.64
1:EA:632:A:O2'	17:EQ:30:PRO:C	2.35	0.64
1:EA:639:G:H21	8:EH:128:GLY:HA3	1.63	0.64
4:ED:108:LEU:HD21	4:ED:174:LEU:HD13	1.79	0.64
3:EC:167:TRP:NE1	5:EE:25:ARG:NH2	2.45	0.64
7:EG:46:ALA:HA	7:EG:49:ILE:HD12	1.78	0.64
9:EI:111:ARG:HD2	14:EN:61:TRP:C	2.18	0.64
12:EL:38:THR:O	12:EL:79:GLU:HG3	1.97	0.64
13:EM:20:THR:HG23	13:EM:26:GLY:HA2	1.80	0.64
13:EM:83:ASP:HB3	22:FB:900(A):A:OP2	1.96	0.64
19:ES:39:THR:HG23	19:ES:69:HIS:HA	1.80	0.64
22:FB:409:G:P	47:F1:10:VAL:CG1	2.86	0.64
49:F3:48:VAL:HG22	49:F3:49:VAL:H	1.63	0.64
23:FA:99:G:H2'	23:FA:100:G:H8	1.62	0.64
22:FB:1290:A:H1'	35:FO:24:GLN:CB	2.26	0.64
22:FB:1291:G:H5'	35:FO:35:GLN:N	2.12	0.64
22:FB:1364:C:H5'	22:FB:1588:A:C5'	2.26	0.64
22:FB:1463:A:H61	22:FB:1477:C:N4	1.95	0.64
22:FB:1851:A:H2'	22:FB:1852:G:O4'	1.98	0.64
22:FB:2064:U:OP1	47:F1:33:VAL:HG11	1.98	0.64
22:FB:616:U:OP1	26:FF:97:ARG:HB2	1.97	0.64
23:FA:44:C:H5'	27:FG:66:ILE:HD11	1.79	0.64
31:FK:61:ARG:NE	31:FK:78:ASP:HB2	2.11	0.64
22:FB:2256:G:HO2'	34:FN:14:PHE:HZ	0.67	0.64
34:FN:99:LYS:CA	43:FW:74:ARG:HG2	2.27	0.64
22:FB:25:U:H4'	40:FT:100:GLY:O	1.98	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:FV:48:VAL:HG22	42:FV:49:GLU:H	1.61	0.64
23:FA:98:C:C5	43:FW:11:LYS:CD	2.76	0.64
1:GA:1107:C:OP1	3:GC:174:PRO:CA	2.45	0.64
1:GA:1254:C:H5''	1:GA:1357:A:OP1	1.97	0.64
1:GA:867:G:H21	1:GA:873:A:H2	1.44	0.64
1:GA:969:A:N1	13:GM:126:LYS:CE	2.59	0.64
53:H7:85:ILE:HG21	53:H7:90:LEU:HD13	1.79	0.64
22:HB:1140:A:O3'	31:HK:107:GLN:HG3	1.96	0.64
22:HB:1453:A:C5	22:HB:1454:U:C5	2.85	0.64
22:HB:1456:C:OP1	22:HB:1643:A:O2'	2.15	0.64
22:HB:2063:A:O3'	47:H1:33:VAL:CG2	2.44	0.64
22:HB:2209:G:H5''	47:H1:39:VAL:HG22	1.78	0.64
22:HB:3177:C:H4'	53:H7:163:PRO:HG3	1.70	0.64
22:HB:857:U:O2	22:HB:946:U:N3	2.30	0.64
24:HD:64:ILE:HD12	24:HD:104:TYR:OH	1.98	0.64
22:HB:2577:A:H5''	24:HD:235:GLY:HA3	1.77	0.64
28:HH:151:VAL:HG23	28:HH:152:ARG:H	1.63	0.64
28:HH:9:ILE:HB	28:HH:69:ARG:NH1	2.12	0.64
1:GA:345:C:N4	37:HQ:47:SER:OG	2.31	0.64
38:HR:72:HIS:HB2	38:HR:74:MET:HE3	1.79	0.64
22:HB:1248:G:C5	40:HT:11:LYS:HG3	2.32	0.64
1:IA:125:U:O3'	1:IA:605:U:C1'	2.46	0.64
1:IA:1442:G:H21	1:IA:1443:G:H3'	1.61	0.64
1:IA:684:A:H1'	11:IK:39:PRO:CG	2.24	0.64
1:IA:1206:G:H5'	3:IC:192:THR:C	2.18	0.64
6:IF:4:TYR:HD1	6:IF:92:LYS:HA	1.61	0.64
12:IL:12:ARG:N	17:IQ:36:ILE:HD13	2.12	0.64
13:IM:20:THR:HG23	13:IM:26:GLY:HA2	1.80	0.64
1:IA:1115:C:O5'	14:IN:61:TRP:HB2	1.96	0.64
19:IS:39:THR:HG23	19:IS:69:HIS:HA	1.80	0.64
20:IT:23:ARG:HA	20:IT:26:ASN:HB2	1.79	0.64
33:JM:62:LYS:HD2	51:J5:30:ARG:NE	2.11	0.64
22:JB:223:C:H41	51:J5:8:LYS:HG2	1.59	0.64
22:JB:1762:C:C5'	22:JB:1921:A:N7	2.59	0.64
22:JB:2074:U:C2'	22:JB:2182:A:H1'	2.24	0.64
22:JB:2362:G:N1	49:J3:26:LYS:O	2.31	0.64
22:JB:2551:A:P	25:JE:144:ARG:CB	2.79	0.64
22:JB:410:A:H2'	22:JB:411:C:O4'	1.97	0.64
22:JB:671:A:C2	26:JF:96:PRO:CG	2.64	0.64
22:JB:2541:U:H4'	32:JL:24:VAL:O	1.97	0.64
37:JQ:12:LEU:HA	37:JQ:16:ILE:HB	1.78	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1080:A:O3'	5:AE:18:ARG:HB2	1.77	0.64
1:AA:1119:C:H2'	1:AA:1120:G:H8	1.62	0.64
1:AA:1308:U:H5''	13:AM:97:PRO:CA	2.06	0.64
1:AA:1441:G:O6	20:AT:27:LYS:HE3	1.98	0.64
1:AA:125:U:H1'	1:AA:633:G:N2	2.09	0.64
1:AA:808:C:H2'	1:AA:809:G:C8	2.33	0.64
1:AA:877:C:C1'	8:AH:3:THR:OG1	2.45	0.64
3:AC:57:ILE:HA	3:AC:66:VAL:HA	1.80	0.64
4:AD:121:VAL:HB	4:AD:136:PRO:HG3	1.78	0.64
1:AA:509:A:C1'	4:AD:54:TYR:HD2	2.10	0.64
1:AA:875:C:C2'	8:AH:11:THR:HG21	2.27	0.64
13:AM:20:THR:HG23	13:AM:26:GLY:HA2	1.80	0.64
1:AA:378:G:P	16:AP:25:ARG:HG2	2.37	0.64
20:AT:55:ILE:HA	20:AT:58:LYS:HB3	1.80	0.64
22:BB:2861:A:H1'	48:B2:34:PRO:N	2.12	0.64
22:BB:1376:C:H2'	22:BB:1377:G:H8	1.62	0.64
22:BB:657:A:HO2'	22:BB:2330:G:H5''	1.63	0.64
22:BB:539:A:C3'	22:BB:540:G:P	2.85	0.64
22:BB:568:G:C3'	22:BB:569:C:O4'	2.46	0.64
22:BB:685:U:O2'	26:BF:74:VAL:HG12	1.96	0.64
22:BB:2462:C:C2	34:BN:54:VAL:HG11	2.28	0.64
38:BR:72:HIS:HB2	38:BR:74:MET:HE3	1.80	0.64
41:BU:17:TYR:H	41:BU:20:MET:HB2	1.62	0.64
43:BW:134:LEU:HD11	43:BW:152:ILE:HD12	1.80	0.64
44:BX:32:LYS:HA	44:BX:66:LYS:HZ1	1.62	0.64
1:CA:1081:G:OP1	5:CE:18:ARG:NH1	2.30	0.64
1:CA:1119:C:H2'	1:CA:1120:G:H8	1.62	0.64
1:CA:309:G:H21	1:CA:607:A:H62	1.46	0.64
1:CA:559:A:P	5:CE:124:GLY:H	2.20	0.64
8:CH:59:LEU:HB3	8:CH:61:VAL:HG23	1.80	0.64
1:CA:1188:A:H5''	10:CJ:51:ARG:HH22	1.62	0.64
1:CA:127:G:H22	17:CQ:61:GLU:CD	2.01	0.64
47:D1:5:LEU:HB3	47:D1:7:PRO:HD2	1.79	0.64
22:DB:1291:G:H2'	22:DB:1292:A:H8	1.63	0.64
22:DB:1535:C:C5	22:DB:1536:G:H1'	2.33	0.64
22:DB:1670:G:OP1	22:DB:2797:G:N1	2.29	0.64
22:DB:2324:G:C4'	49:D3:40:TYR:CE1	2.79	0.64
22:DB:2679:G:H2'	22:DB:2680:U:H5''	1.80	0.64
22:DB:2728:A:C4'	28:DH:67:LEU:HD11	2.01	0.64
22:DB:66:U:C5	22:DB:87:G:N2	2.65	0.64
22:DB:887:G:O2'	43:DW:149:ALA:C	2.34	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:DE:53:PRO:HG2	25:DE:73:ALA:HB1	1.80	0.64
22:DB:2653:A:O2'	32:DL:41:ASN:OD1	2.15	0.64
22:DB:886:A:N1	43:DW:166:LEU:HA	2.06	0.64
22:DB:2236:U:C3'	44:DX:10:SER:CB	2.74	0.64
1:EA:1092:A:H5''	7:EG:4:ARG:NE	2.13	0.64
1:EA:296:U:H2'	1:EA:297:G:H5'	1.80	0.64
1:EA:808:C:H2'	1:EA:809:G:C8	2.32	0.64
11:EK:25:TYR:O	11:EK:89:ALA:HB2	1.97	0.64
18:ER:19:LYS:HG2	18:ER:20:ALA:H	1.62	0.64
22:FB:2208:U:C2	47:F1:42:PHE:HE1	2.15	0.64
53:F7:203:ILE:HG22	53:F7:215:VAL:HG21	1.78	0.64
22:FB:1291:G:H2'	22:FB:1292:A:H8	1.63	0.64
22:FB:2023:C:OP1	31:FK:132:PHE:HD2	1.78	0.64
22:FB:2062:U:H2'	22:FB:2063:A:C8	2.33	0.64
22:FB:2398:U:OP1	51:F5:34:THR:HB	1.96	0.64
22:FB:2492:G:H3'	22:FB:2493:U:C5	2.33	0.64
22:FB:2738:A:O2'	28:FH:64:LEU:HD11	1.98	0.64
22:FB:2616:U:C5'	25:FE:81:PHE:CD1	2.79	0.64
32:FL:11:ALA:HB2	32:FL:19:ILE:HD13	1.78	0.64
22:FB:2372:A:N3	33:FM:59:ARG:CG	2.60	0.64
34:FN:74:PRO:HB3	34:FN:90:ALA:HB2	1.80	0.64
25:FE:181:LEU:HD21	37:FQ:12:LEU:HD21	1.80	0.64
1:GA:296:U:H2'	1:GA:297:G:H5'	1.79	0.64
1:GA:1240:U:OP1	7:GG:115:ARG:CB	2.45	0.64
9:GI:117:HIS:NE2	9:GI:123:PRO:HD3	2.12	0.64
10:GJ:3:LYS:N	10:GJ:76:ASN:H	1.95	0.64
3:GC:60:ALA:N	10:GJ:92:THR:CG2	2.26	0.64
1:AA:179:A:N9	20:GT:99:LEU:O	2.30	0.64
22:HB:1166:A:C4	22:HB:1168:G:C8	2.85	0.64
22:HB:1238:A:OP1	39:HS:87:ARG:HB2	1.96	0.64
22:HB:1402:G:N1	22:HB:1412:C:C4	2.66	0.64
22:HB:2365:U:H1'	44:HX:37:LEU:CD1	2.12	0.64
22:HB:2635:U:H2'	22:HB:2636:A:H8	1.62	0.64
22:HB:2639:A:H2'	22:HB:2639:A:N3	2.12	0.64
22:HB:2692:A:O2'	35:HO:14:SER:HB2	1.96	0.64
22:HB:1750:A:C5'	22:HB:2695:C:H1'	2.28	0.64
22:HB:71:A:H1'	45:HY:54:ASN:C	2.18	0.64
22:HB:80:A:H2'	22:HB:81:C:O4'	1.97	0.64
27:HG:72:LYS:HZ1	27:HG:73:SER:N	1.95	0.64
22:HB:1078:A:H2	30:HJ:23:VAL:HA	1.62	0.64
32:HL:11:ALA:HB2	32:HL:19:ILE:HD13	1.78	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:HN:106:GLU:OE1	43:HW:115:ILE:HD13	1.96	0.64
34:HN:59:PHE:CE2	43:HW:112:LEU:HD21	2.33	0.64
34:HN:63:GLY:C	43:HW:112:LEU:HD23	2.18	0.64
1:IA:1106:G:O2'	3:IC:169:ALA:HB1	1.97	0.64
1:IA:1169:A:N3	1:IA:1169:A:H2'	2.12	0.64
1:IA:808:C:H2'	1:IA:809:G:C8	2.33	0.64
2:IB:215:LEU:HA	2:IB:218:ALA:HB3	1.80	0.64
1:IA:877:C:C5'	8:IH:88:LYS:HG2	2.26	0.64
18:IR:19:LYS:HG2	18:IR:20:ALA:H	1.62	0.64
22:JB:1040:A:O3'	34:JN:125:LYS:CD	2.44	0.64
22:JB:15:G:O5'	48:J2:20:ARG:O	2.15	0.64
22:JB:1808:C:C4	24:JD:65:ILE:HG21	2.31	0.64
22:JB:2328:G:OP1	51:J5:42:ARG:NH2	2.30	0.64
22:JB:2635:U:H2'	22:JB:2636:A:H8	1.62	0.64
22:JB:2813:G:C4'	35:JO:42:LYS:NZ	2.60	0.64
22:JB:80:A:H2'	22:JB:81:C:O4'	1.97	0.64
22:JB:876:A:H2'	22:JB:877:G:O4'	1.96	0.64
27:JG:108:LEU:HD23	27:JG:117:ILE:HD11	1.78	0.64
22:JB:1090:C:C1'	30:JJ:132:ARG:NE	2.44	0.64
34:JN:45:SER:C	34:JN:47:GLN:H	2.01	0.64
22:JB:348:U:C3'	42:JV:13:LYS:CD	2.31	0.64
1:AA:1169:A:H2'	1:AA:1169:A:N3	2.12	0.64
1:AA:1172:C:H2'	1:AA:1173:G:H8	1.63	0.64
1:AA:815:A:N9	1:AA:1529:G:C6	2.66	0.64
1:AA:275:G:H2'	1:AA:276:G:H8	1.62	0.64
1:AA:346:G:OP1	37:BQ:51:GLU:HG3	1.98	0.64
1:AA:536:C:H2'	1:AA:537:G:H8	1.63	0.64
9:AI:6:GLY:HA3	9:AI:80:GLY:O	1.97	0.64
1:AA:331:G:C2	20:AT:8:ARG:N	2.65	0.64
22:BB:106:G:O2'	22:BB:358:C:O2	2.13	0.64
22:BB:1531:C:H2'	22:BB:1532:A:H8	1.61	0.64
22:BB:2591:C:H42	48:B2:4:HIS:CE1	2.15	0.64
22:BB:2612:G:H5'	22:BB:2786:G:O2'	1.96	0.64
22:BB:2856:U:C4'	35:BO:94:TYR:H	2.10	0.64
22:BB:476:G:O3'	50:B4:12:ARG:NH2	2.31	0.64
22:BB:625:A:C6	26:BF:176:ASN:HB2	2.31	0.64
22:BB:968:C:O5'	34:BN:92:GLU:OE2	2.16	0.64
25:BE:143:GLN:HE21	25:BE:144:ARG:HE	1.44	0.64
25:BE:28:ALA:HB2	37:BQ:9:ARG:HH22	1.62	0.64
22:BB:1143:A:N1	31:BK:103:TYR:HB2	2.11	0.64
38:BR:28:ARG:HD2	38:BR:38:THR:HG21	1.78	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:1057:G:H5''	3:CC:154:SER:HB2	1.79	0.64
1:CA:1172:C:H2'	1:CA:1173:G:H8	1.63	0.64
1:CA:1186:G:O3'	9:CI:113:LYS:NZ	2.29	0.64
1:CA:407:G:C2	4:CD:157:LEU:CD1	2.81	0.64
1:CA:407:G:N2	4:CD:157:LEU:HD11	2.13	0.64
1:CA:808:C:H2'	1:CA:809:G:C8	2.33	0.64
1:CA:933:G:H2'	1:CA:934:C:H4'	1.77	0.64
1:CA:940:C:H4'	7:CG:29:LYS:HZ3	1.61	0.64
1:CA:620:C:C3'	4:CD:138:TYR:HE1	1.87	0.64
10:CJ:63:PHE:O	14:CN:59:ALA:HB2	1.98	0.64
22:DB:225:G:O3'	47:D1:28:ARG:CD	2.46	0.64
22:DB:123:A:P	50:D4:14:LYS:CB	2.75	0.64
22:DB:1290:A:C1'	35:DO:24:GLN:CA	2.23	0.64
22:DB:1711:C:O2'	22:DB:1712:G:H5''	1.97	0.64
22:DB:2039:G:C2'	48:D2:5:PRO:N	2.61	0.64
22:DB:2716:G:H22	22:DB:2749:A:H1'	1.63	0.64
22:DB:3093:C:C3'	29:DI:20:VAL:O	2.46	0.64
22:DB:589:C:H4'	38:DR:33:ARG:HG3	1.74	0.64
22:DB:80:A:H2'	22:DB:81:C:O4'	1.97	0.64
22:DB:742:G:C8	24:DD:18:THR:HB	2.20	0.64
22:DB:460:U:C2'	26:DF:78:VAL:HG21	2.11	0.64
32:DL:88:THR:OG1	37:DQ:82:PRO:HD2	1.97	0.64
35:DO:99:ARG:HB2	48:D2:44:HIS:HD2	1.56	0.64
39:DS:63:HIS:HA	39:DS:95:ILE:HD13	1.79	0.64
43:DW:68:ALA:N	43:DW:128:ARG:HH12	1.96	0.64
1:EA:1098:C:OP1	2:EB:144:ARG:CG	2.45	0.64
1:EA:332:G:H5''	20:ET:10:LEU:HG	1.78	0.64
9:EI:6:GLY:HA3	9:EI:80:GLY:O	1.97	0.64
10:EJ:21:GLN:HA	10:EJ:24:VAL:HB	1.79	0.64
11:EK:51:LYS:HA	11:EK:55:LYS:HB2	1.78	0.64
13:EM:72:ALA:CB	27:FG:113:ASP:CB	2.68	0.64
22:FB:409:G:C3'	47:F1:39:VAL:HG11	2.27	0.64
22:FB:659:G:N2	51:F5:46:LYS:HZ3	1.90	0.64
22:FB:1760:G:O2'	22:FB:1941:C:OP1	2.16	0.64
22:FB:2241:U:OP2	44:FX:14:ARG:O	2.15	0.64
22:FB:2623:A:H2'	22:FB:2624:G:C5	2.32	0.64
22:FB:2639:A:N3	22:FB:2639:A:H2'	2.13	0.64
22:FB:501:G:H2'	22:FB:502:A:C8	2.32	0.64
22:FB:641:G:N7	51:F5:15:LYS:HG3	2.12	0.64
22:FB:686:C:O3'	26:FF:73:SER:CB	2.46	0.64
22:FB:2617:G:P	25:FE:81:PHE:CZ	2.90	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:FG:141:ILE:HG13	27:FG:142:THR:H	1.63	0.64
34:FN:67:ILE:HG13	34:FN:102:ARG:HA	1.80	0.64
34:FN:72:ASP:O	34:FN:73:LYS:HG2	1.97	0.64
23:FA:9:G:O4'	36:FP:32:TYR:OH	2.16	0.64
38:FR:98:ILE:HD11	39:FS:12:TYR:O	1.97	0.64
39:FS:63:HIS:HA	39:FS:95:ILE:HD13	1.79	0.64
22:FB:63:A:C3'	41:FU:70:GLY:O	2.35	0.64
43:FW:51:LEU:CD2	43:FW:128:ARG:HH21	2.10	0.64
1:GA:111:G:OP1	16:GP:27:LYS:CE	2.36	0.64
1:GA:1291:G:H5''	7:GG:41:ARG:HH11	0.81	0.64
1:GA:334:C:H1'	1:GA:1435:G:C5'	2.27	0.64
1:GA:668:G:C1'	15:GO:45:VAL:HG12	2.22	0.64
1:GA:979:C:H2'	1:GA:980:C:O4'	1.98	0.64
4:GD:101:LEU:HD23	4:GD:136:PRO:HA	1.80	0.64
4:GD:50:ARG:CZ	5:GE:10:MET:SD	2.85	0.64
7:GG:115:ARG:HD3	7:GG:115:ARG:H	1.63	0.64
10:GJ:48:THR:HA	10:GJ:62:HIS:HA	1.79	0.64
10:GJ:7:LYS:HG2	10:GJ:9:ARG:HH12	1.62	0.64
12:GL:75:HIS:HB2	12:GL:108:ALA:HB3	1.79	0.64
22:HB:602:C:O2'	51:H5:2:PRO:O	2.16	0.64
22:HB:3197:U:N1	22:HB:2203:G:O6	2.30	0.64
22:HB:227:G:O5'	33:HM:59:ARG:NH1	2.30	0.64
22:HB:2398:U:H2'	51:H5:32:GLN:NE2	2.11	0.64
22:HB:2553:G:N2	25:HE:140:SER:C	2.48	0.64
22:HB:506:G:P	40:HT:83:ASP:HA	2.37	0.64
22:HB:647:G:OP2	33:HM:127:ALA:O	2.16	0.64
22:HB:68:C:H4'	22:HB:74:G:N1	2.12	0.64
22:HB:2725:C:HO2'	28:HH:141:VAL:HG22	1.62	0.64
34:HN:45:SER:C	34:HN:47:GLN:H	2.01	0.64
37:HQ:40:ARG:NH2	37:HQ:50:PHE:HB3	2.12	0.64
3:IC:154:SER:OG	3:IC:196:LEU:HB3	1.98	0.64
5:IE:75:THR:N	5:IE:117:ASP:HB2	2.12	0.64
8:IH:59:LEU:HB3	8:IH:61:VAL:HG23	1.80	0.64
1:IA:764:C:OP1	15:IO:50:HIS:ND1	2.29	0.64
1:IA:720:C:H1'	18:IR:50:ILE:HD12	1.79	0.64
19:IS:51:VAL:HG12	19:IS:52:TYR:H	1.62	0.64
1:IA:1440:C:P	20:IT:38:LYS:HZ1	2.21	0.64
22:JB:1291:G:H2'	22:JB:1292:A:H8	1.63	0.64
22:JB:2262:C:O5'	49:J3:3:LYS:NZ	2.30	0.64
22:JB:423:G:N2	22:JB:2386:G:C2	2.65	0.64
22:JB:2399:C:H3'	51:J5:32:GLN:C	2.17	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:JB:2606:G:H1'	22:JB:2757:G:C2	2.32	0.64
22:JB:2639:A:N3	22:JB:2639:A:H2'	2.13	0.64
22:JB:73:A:C5'	45:JY:48:ARG:CZ	2.76	0.64
22:JB:75:C:O3'	45:JY:56:VAL:HG21	1.74	0.64
24:JD:142:VAL:HA	24:JD:193:ILE:HA	1.79	0.64
36:JP:38:ILE:HD12	36:JP:71:VAL:HG13	1.80	0.64
37:JQ:55:ILE:H	37:JQ:55:ILE:CD1	2.07	0.64
39:JS:40:VAL:HG13	39:JS:51:ALA:HB1	1.79	0.64
22:JB:320:A:HO2'	42:JV:25:LEU:HA	1.61	0.64
22:JB:2240:C:C2'	44:JX:15:ASP:N	2.50	0.64
22:JB:74:G:C4'	45:JY:52:GLN:HB2	2.27	0.64
1:AA:1110:A:N3	1:AA:1110:A:H2'	2.13	0.64
1:AA:1228:C:O2	13:AM:120:LYS:HA	1.96	0.64
1:AA:1468:A:H3'	1:AA:1469:G:H8	1.61	0.64
1:AA:1393:U:HO2'	1:AA:1501:C:HO2'	1.43	0.64
6:AF:46:ARG:NH2	18:AR:35:ARG:NH1	2.46	0.64
22:BB:1135:C:O5'	52:B6:4:ARG:HD2	1.95	0.64
22:BB:1681:A:C2	22:BB:2706:U:C6	2.84	0.64
22:BB:501:G:H2'	22:BB:502:A:C8	2.32	0.64
22:BB:887:G:O4'	43:BW:167:THR:CB	2.45	0.64
24:BD:94:LEU:C	24:BD:95:LEU:HD13	2.17	0.64
27:BG:141:ILE:HG13	27:BG:142:THR:H	1.63	0.64
34:BN:73:LYS:HG3	34:BN:93:TYR:CD2	2.33	0.64
36:BP:69:ALA:HA	36:BP:103:LEU:HA	1.80	0.64
25:BE:51:TYR:HD1	37:BQ:5:ILE:HG12	1.56	0.64
1:CA:1169:A:H2'	1:CA:1169:A:N3	2.12	0.64
1:CA:1229:A:H8	13:CM:119:GLY:O	1.81	0.64
1:CA:8:A:O2'	4:CD:209:ARG:NH1	2.30	0.64
1:CA:546:G:O6	4:CD:4:TYR:HA	1.98	0.64
6:CF:42:GLU:HG2	6:CF:44:GLY:H	1.62	0.64
1:CA:704:A:H61	11:CK:42:TRP:HH2	1.45	0.64
1:CA:377:G:H5'	16:CP:5:ARG:NH1	2.13	0.64
19:CS:39:THR:HG23	19:CS:69:HIS:HA	1.80	0.64
22:DB:2000:U:H4'	48:D2:8:LYS:CA	2.24	0.64
49:D3:48:VAL:HG22	49:D3:49:VAL:H	1.63	0.64
22:DB:1029:C:H4'	22:DB:1131:G:N2	2.13	0.64
22:DB:1325:U:OP1	41:DU:68:PHE:HE1	1.74	0.64
22:DB:1376:C:H2'	22:DB:1377:G:H8	1.63	0.64
22:DB:176:A:C3'	47:D1:31:ILE:CG2	2.74	0.64
22:DB:1851:A:H2'	22:DB:1852:G:O4'	1.98	0.64
22:DB:2062:U:H2'	22:DB:2063:A:C8	2.33	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:DB:2773:G:C2	22:DB:2780:A:H1'	2.31	0.64
22:DB:501:G:H2'	22:DB:502:A:C8	2.32	0.64
22:DB:644:A:OP1	33:DM:70:THR:HG22	1.90	0.64
22:DB:700:C:H42	22:DB:800:U:H4'	1.63	0.64
1:EA:1119:C:H2'	1:EA:1120:G:H8	1.62	0.64
1:EA:536:C:H2'	1:EA:537:G:H8	1.63	0.64
1:EA:1100:C:C4	2:EB:98:LEU:HD11	2.29	0.64
3:EC:8:ILE:HA	3:EC:11:ARG:NH1	2.12	0.64
22:FB:1493:A:N1	22:FB:1573:G:C4	2.63	0.64
22:FB:1535:C:C5	22:FB:1536:G:H1'	2.33	0.64
22:FB:712:A:H5''	22:FB:1570:C:H42	1.62	0.64
22:FB:1807:A:H1'	22:FB:1808:C:H4'	1.80	0.64
22:FB:1949:A:C2	22:FB:2571:G:H2'	2.33	0.64
22:FB:2464:G:C1'	34:FN:120:ARG:O	2.45	0.64
22:FB:444:U:H2'	22:FB:445:A:H8	1.62	0.64
22:FB:538:A:H8	31:FK:139:ARG:NH2	1.96	0.64
22:FB:80:A:H2'	22:FB:81:C:O4'	1.97	0.64
22:FB:2661:G:N2	25:FE:21:ILE:O	2.31	0.64
25:FE:53:PRO:HG2	25:FE:73:ALA:HB1	1.80	0.64
37:FQ:40:ARG:NH2	37:FQ:50:PHE:HB3	2.12	0.64
1:GA:60:A:N6	20:GT:12:ALA:N	2.46	0.64
1:GA:808:C:H2'	1:GA:809:G:C8	2.33	0.64
13:GM:20:THR:HG23	13:GM:26:GLY:HA2	1.80	0.64
13:GM:88:ARG:NH2	13:GM:99:ARG:CG	2.61	0.64
1:GA:583:A:C8	17:GQ:105:ALA:OXT	2.51	0.64
20:GT:55:ILE:HA	20:GT:58:LYS:HB3	1.80	0.64
22:HB:1074:G:H21	30:HJ:88:SER:HB2	1.63	0.64
22:HB:221:A:H2'	22:HB:222:G:O4'	1.98	0.64
22:HB:2234:G:H2'	22:HB:2235:G:O4'	1.98	0.64
22:HB:2284:U:H3'	22:HB:2286:G:C8	2.32	0.64
22:HB:2338:C:H2'	22:HB:2339:A:O4'	1.97	0.64
22:HB:2553:G:H21	25:HE:142:GLY:CA	2.10	0.64
22:HB:2558:C:O2'	25:HE:132:LYS:NZ	2.28	0.64
22:HB:1749:G:N2	22:HB:2675:U:H5'	2.13	0.64
22:HB:410:A:H2'	22:HB:411:C:O4'	1.97	0.64
22:HB:965:G:OP1	34:HN:18:MET:SD	2.56	0.64
27:HG:108:LEU:HD23	27:HG:117:ILE:HD11	1.78	0.64
1:IA:1374:A:C1'	7:IG:29:LYS:HE3	2.28	0.64
1:IA:237:C:H4'	17:IQ:27:PHE:CE2	2.30	0.64
6:IF:12:PRO:HA	6:IF:19:LEU:HD12	1.78	0.64
1:IA:1147:C:O2'	9:II:66:ARG:NH2	2.31	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:IJ:48:THR:HA	10:IJ:62:HIS:HA	1.79	0.64
11:IK:91:ARG:HD2	11:IK:91:ARG:H	1.63	0.64
13:IM:6:GLY:CA	27:JG:110:ARG:HH21	2.10	0.64
23:JA:14:C:N3	44:JX:52:GLY:N	2.46	0.64
22:JB:1268:U:N1	26:JF:66:ASN:HB3	2.12	0.64
22:JB:1807:A:H1'	22:JB:1808:C:H4'	1.80	0.64
22:JB:221:A:H2'	22:JB:222:G:O4'	1.98	0.64
22:JB:2241:U:C5	44:JX:14:ARG:CA	2.81	0.64
22:JB:2284:U:H3'	22:JB:2286:G:C8	2.32	0.64
22:JB:2330:G:H21	22:JB:2345:A:H62	1.45	0.64
22:JB:2614:A:O2'	25:JE:79:ARG:NE	2.27	0.64
22:JB:868:U:O3'	44:JX:57:HIS:CG	2.48	0.64
22:JB:2599:U:C2'	25:JE:157:ALA:O	2.46	0.64
31:JK:101:THR:HA	31:JK:111:LYS:HG3	1.80	0.64
22:JB:2372:A:O2'	33:JM:63:ARG:NH2	2.30	0.64
34:JN:74:PRO:HB3	34:JN:90:ALA:HB2	1.80	0.64
35:JO:45:ARG:HH22	35:JO:94:TYR:H	1.46	0.64
34:JN:33:TYR:H	43:JW:117:VAL:HG21	1.62	0.64
1:AA:1260:C:H4'	1:AA:1284:C:H5'	1.80	0.64
1:AA:1311:G:N7	19:AS:2:PRO:CA	2.57	0.64
1:AA:1433:A:C4'	37:BQ:116:ARG:NH1	2.59	0.64
1:AA:180:U:C3'	20:GT:98:PRO:HG3	2.17	0.64
1:AA:339:C:P	32:BL:109:ARG:HD2	2.38	0.64
1:AA:546:G:P	4:AD:71:SER:HB2	2.37	0.64
1:AA:928:G:C4'	1:AA:1533:C:H41	2.10	0.64
22:BB:2328:G:OP1	51:B5:41:ILE:HD11	1.97	0.64
22:BB:1042:G:H2'	52:B6:23:VAL:HG21	0.78	0.64
23:BA:40:C:H2'	23:BA:41:A:H5'	1.79	0.64
22:BB:1401:G:C6	22:BB:1413:U:N3	2.58	0.64
22:BB:1795:C:H2'	22:BB:1796:A:H8	1.63	0.64
22:BB:1861:G:O6	53:B7:199:ASN:C	2.35	0.64
22:BB:2062:U:H2'	22:BB:2063:A:C8	2.33	0.64
22:BB:2489:C:H1'	25:BE:126:PRO:CD	2.26	0.64
22:BB:2491:C:OP1	25:BE:120:TRP:NE1	2.31	0.64
22:BB:2557:G:O2'	25:BE:133:LYS:HE3	1.98	0.64
22:BB:2679:G:H2'	22:BB:2680:U:H5''	1.80	0.64
22:BB:444:U:H2'	22:BB:445:A:H8	1.62	0.64
22:BB:80:A:H2'	22:BB:81:C:O4'	1.97	0.64
22:BB:625:A:C6	26:BF:176:ASN:CB	2.81	0.64
22:BB:1256:C:C1'	33:BM:15:ASP:HA	2.26	0.64
32:BL:86:GLY:N	37:BQ:84:ALA:CB	2.59	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:BB:940:G:N2	46:BZ:22:ALA:HB1	2.13	0.64
1:CA:675:A:H2'	1:CA:676:A:H5'	1.80	0.64
1:CA:940:C:C4'	7:CG:29:LYS:NZ	2.60	0.64
2:CB:69:LEU:HB3	2:CB:162:ILE:HG12	1.79	0.64
1:CA:1105:A:O3'	3:CC:172:ARG:NH1	2.31	0.64
13:CM:82:MET:HA	13:CM:92:HIS:O	1.97	0.64
1:CA:332:G:O5'	20:CT:10:LEU:HB2	1.96	0.64
22:DB:2063:A:O5'	47:D1:20:VAL:HG11	1.97	0.64
51:D5:5:LYS:HG2	51:D5:60:LEU:HD12	1.80	0.64
22:DB:1041:G:C2	52:D6:5:SER:CB	2.50	0.64
22:DB:1165:G:P	38:DR:76:TYR:OH	2.56	0.64
22:DB:1237:G:H5''	39:DS:87:ARG:CG	2.26	0.64
22:DB:1816:G:OP1	24:DD:54:ILE:HD11	1.97	0.64
22:DB:1887:G:C8	22:DB:1888:C:C5	2.86	0.64
22:DB:712:A:H5''	22:DB:1570:C:H42	1.62	0.64
22:DB:788:G:H5''	22:DB:789:G:H4'	1.79	0.64
25:DE:152:LYS:N	31:DK:106:TYR:CZ	2.65	0.64
22:DB:642:A:N3	33:DM:66:ASN:OD1	2.31	0.64
34:DN:73:LYS:HG3	34:DN:93:TYR:CD2	2.33	0.64
22:DB:1468:A:H61	35:DO:63:ARG:HH21	1.39	0.64
22:DB:917:U:C1'	43:DW:166:LEU:HD22	2.28	0.64
1:EA:1172:C:H2'	1:EA:1173:G:H8	1.63	0.64
1:EA:926:G:C6	1:EA:1505:G:N2	2.65	0.64
1:EA:958:A:C6	19:ES:56:GLN:CD	2.71	0.64
5:EE:31:LEU:HB3	5:EE:43:LEU:HD22	1.79	0.64
1:EA:588:G:N9	8:EH:2:LEU:HD12	2.08	0.64
11:EK:91:ARG:HD2	11:EK:91:ARG:H	1.62	0.64
1:EA:583:A:C4'	17:EQ:90:ILE:HD13	2.28	0.64
50:F4:8:ASN:ND2	50:F4:10:ARG:HE	1.96	0.64
22:FB:1376:C:H2'	22:FB:1377:G:H8	1.63	0.64
22:FB:1531:C:H2'	22:FB:1532:A:H8	1.60	0.64
22:FB:1750:A:H5'	22:FB:2695:C:HO2'	1.60	0.64
22:FB:1762:C:H4'	22:FB:1921:A:N7	2.12	0.64
22:FB:1795:C:H2'	22:FB:1796:A:H8	1.63	0.64
22:FB:2464:G:H5'	34:FN:47:GLN:NE2	2.13	0.64
22:FB:2552:C:OP1	22:FB:2553:G:H5''	1.97	0.64
22:FB:533:C:H5''	22:FB:550:C:H1'	1.80	0.64
22:FB:538:A:N7	31:FK:139:ARG:NH1	2.22	0.64
22:FB:788:G:H5''	22:FB:789:G:H4'	1.79	0.64
24:FD:64:ILE:HD12	24:FD:104:TYR:OH	1.98	0.64
25:FE:143:GLN:HE21	25:FE:144:ARG:HE	1.44	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:FH:9:ILE:HB	28:FH:69:ARG:NH1	2.12	0.64
22:FB:1234:C:O3'	39:FS:68:LYS:HD2	1.95	0.64
1:GA:1119:C:H2'	1:GA:1120:G:H8	1.62	0.64
1:GA:1172:C:H2'	1:GA:1173:G:H8	1.63	0.64
1:GA:449:C:O2	16:GP:42:ARG:NH2	2.24	0.64
1:GA:620:C:H4'	4:GD:138:TYR:CE1	2.32	0.64
1:GA:648:A:H2'	1:GA:649:G:C8	2.33	0.64
1:GA:675:A:H2'	1:GA:676:A:H5'	1.79	0.64
1:GA:18:C:C4'	5:GE:130:ASN:HD21	2.06	0.64
5:GE:75:THR:N	5:GE:117:ASP:HB2	2.12	0.64
6:GF:36:ARG:HB2	6:GF:36:ARG:HH11	1.61	0.64
1:GA:1248:A:N3	9:GI:70:LYS:HD2	2.12	0.64
6:GF:49:ALA:HB3	18:GR:77:GLY:O	1.97	0.64
22:HB:696:U:H5''	50:H4:16:HIS:HE1	1.62	0.64
51:H5:5:LYS:HG2	51:H5:60:LEU:HD12	1.80	0.64
53:H7:64:VAL:HG21	53:H7:111:LEU:HD12	1.78	0.64
22:HB:1070:G:C1'	30:HJ:126:THR:HG22	2.28	0.64
22:HB:1291:G:H2'	22:HB:1292:A:H8	1.63	0.64
22:HB:2002:A:C4'	38:HR:33:ARG:HG3	2.28	0.64
22:HB:2633:A:H4'	22:HB:2634:G:H4'	1.78	0.64
22:HB:3094:A:H5''	29:HI:21:LYS:HD2	1.80	0.64
31:HK:156:HIS:HB3	31:HK:157:PRO:HD2	1.79	0.64
32:HL:23:ARG:HD3	32:HL:24:VAL:N	2.12	0.64
22:HB:1263:G:O4'	38:HR:6:THR:HG21	1.97	0.64
1:IA:1119:C:H2'	1:IA:1120:G:H8	1.62	0.64
1:IA:814:A:O4'	1:IA:1511:G:H4'	1.97	0.64
1:IA:383:A:H2'	1:IA:384:G:H5'	1.80	0.64
8:IH:114:THR:HG21	8:IH:119:LEU:HB2	1.80	0.64
1:IA:644:G:C5'	8:IH:92:ARG:CZ	2.76	0.64
12:IL:39:VAL:HG12	12:IL:41:ARG:HB2	1.79	0.64
12:IL:11:VAL:CB	17:IQ:36:ILE:HG21	1.99	0.64
22:JB:1356:G:H1	22:JB:1416:A:N6	1.94	0.64
22:JB:1470:G:N3	35:JO:60:LEU:HD11	2.13	0.64
22:JB:712:A:H5''	22:JB:1570:C:H42	1.62	0.64
22:JB:1743:C:C5'	22:JB:2836:U:O3'	2.45	0.64
22:JB:2074:U:H2'	22:JB:2182:A:C1'	2.25	0.64
22:JB:2206:C:H4'	24:JD:262:LYS:CG	2.27	0.64
22:JB:2258:G:O2'	22:JB:2306:A:C4'	2.46	0.64
22:JB:836:G:N2	22:JB:2337:A:C8	2.66	0.64
22:JB:1140:A:O2'	22:JB:2548:G:N2	2.30	0.64
22:JB:2636:A:OP2	28:JH:181:GLY:HA2	1.91	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:JB:491:A:O5'	42:JV:55:THR:CG2	2.37	0.64
22:JB:603:C:C3'	22:JB:604:U:P	2.86	0.64
22:JB:60:A:C5'	45:JY:29:ARG:NH2	2.60	0.64
24:JD:214:TRP:HB3	24:JD:215:LEU:HD12	1.78	0.64
22:JB:1780:A:O3'	24:JD:222:ARG:NH1	2.30	0.64
24:JD:246:PRO:O	24:JD:247:VAL:HG23	1.96	0.64
25:JE:53:PRO:HG2	25:JE:73:ALA:HB1	1.80	0.64
22:JB:672:C:H1'	26:JF:95:LEU:CA	2.28	0.64
32:JL:5:GLN:HG3	32:JL:6:SER:H	1.62	0.64
22:JB:2309:G:O2'	44:JX:36:ILE:HD11	1.98	0.64
1:AA:26:A:H61	4:AD:209:ARG:NH2	1.96	0.64
12:AL:72:GLY:HA3	12:AL:102:ARG:HH11	1.63	0.64
13:AM:86:CYS:CB	13:AM:92:HIS:CD2	2.81	0.64
22:BB:158:A:H5'	50:B4:36:ALA:O	1.98	0.64
22:BB:219:G:O6	51:B5:2:PRO:CA	2.46	0.64
51:B5:52:LYS:N	51:B5:52:LYS:HE3	2.13	0.64
22:BB:1861:G:N2	53:B7:199:ASN:OD1	2.31	0.64
22:BB:1050:G:H4'	43:BW:37:LYS:CD	2.26	0.64
22:BB:712:A:H5''	22:BB:1570:C:H42	1.63	0.64
22:BB:1744:G:O6	37:BQ:125:MET:C	2.36	0.64
22:BB:1807:A:H1'	22:BB:1808:C:H4'	1.80	0.64
22:BB:1141:U:H5''	22:BB:2494:C:O2'	1.96	0.64
22:BB:410:A:H2'	22:BB:411:C:O4'	1.97	0.64
22:BB:525:A:H4'	38:BR:31:GLN:O	1.98	0.64
22:BB:55:A:H1'	22:BB:125:A:C2	2.32	0.64
22:BB:57:G:C4	22:BB:72:A:C6	2.86	0.64
22:BB:788:G:H5''	22:BB:789:G:H4'	1.80	0.64
22:BB:923:A:H2	22:BB:2243:C:H1'	1.62	0.64
30:BJ:21:PRO:HB2	30:BJ:22:PRO:CD	2.28	0.64
22:BB:1109:A:C4'	30:BJ:7:ILE:CD1	2.67	0.64
32:BL:85:ASP:C	37:BQ:84:ALA:HB3	2.18	0.64
22:BB:828:C:P	39:BS:84:THR:HG22	2.38	0.64
1:CA:648:A:H2'	1:CA:649:G:C8	2.33	0.64
1:CA:664:G:N2	1:CA:741:G:H1	1.89	0.64
3:CC:57:ILE:HA	3:CC:66:VAL:HA	1.80	0.64
1:CA:7:G:O6	5:CE:92:LYS:CD	2.46	0.64
6:CF:48:LEU:HD21	18:CR:76:LEU:O	1.98	0.64
1:CA:1318:A:H4'	19:CS:10:PHE:CD1	2.33	0.64
20:CT:55:ILE:HA	20:CT:58:LYS:HB3	1.80	0.64
22:DB:124:A:H2'	22:DB:125:A:N3	2.13	0.64
22:DB:1416:A:H4'	22:DB:1485:U:C4'	2.26	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:DB:2407:G:H4'	22:DB:2408:G:N7	2.12	0.64
22:DB:2633:A:H4'	22:DB:2634:G:H4'	1.78	0.64
22:DB:2653:A:C2'	32:DL:41:ASN:ND2	2.61	0.64
22:DB:2708:U:H4'	25:DE:21:ILE:HD11	1.79	0.64
22:DB:444:U:H2'	22:DB:445:A:H8	1.62	0.64
22:DB:238:G:H4'	22:DB:620:G:H5'	1.80	0.64
22:DB:886:A:N3	43:DW:166:LEU:CA	2.53	0.64
22:DB:918:A:OP1	43:DW:120:LEU:CA	2.44	0.64
36:DP:69:ALA:HA	36:DP:103:LEU:HA	1.80	0.64
23:DA:96:C:P	43:DW:14:LEU:CB	2.85	0.64
1:EA:1035:A:H2'	1:EA:1036:G:H21	1.63	0.64
1:EA:1056:U:H5'	3:EC:163:ALA:N	2.12	0.64
1:EA:522:C:C5	12:EL:53:ARG:NH2	2.65	0.64
1:EA:599:C:H4'	8:EH:100:ILE:HG13	1.80	0.64
1:EA:18:C:O2	1:EA:864:A:H1'	1.98	0.64
1:EA:973:G:HO2'	10:EJ:54:PHE:HZ	1.44	0.64
1:EA:673:G:OP1	6:EF:87:ARG:NH2	2.31	0.64
1:EA:640:A:C3'	8:EH:116:LYS:HB3	2.27	0.64
7:EG:13:GLN:HB3	9:EI:42:ARG:HH12	0.49	0.64
10:EJ:7:LYS:HG2	10:EJ:9:ARG:HH12	1.62	0.64
22:FB:231:G:C6	51:F5:4:MET:HA	2.33	0.64
23:FA:117:G:O3'	36:FP:52:ALA:HA	1.98	0.64
22:FB:1006:C:H4'	38:FR:93:LYS:NZ	2.13	0.64
22:FB:1238:A:OP1	39:FS:87:ARG:CG	2.46	0.64
22:FB:2264:C:H3'	49:F3:28:ARG:HB3	1.78	0.64
22:FB:503:G:O3'	40:FT:29:LYS:CE	2.45	0.64
22:FB:524:A:H5'	38:FR:30:LYS:HD3	1.79	0.64
22:FB:575:U:C5	39:FS:80:TYR:O	2.51	0.64
22:FB:63:A:H5'	41:FU:62:ARG:HD2	1.79	0.64
22:FB:700:C:H42	22:FB:800:U:H4'	1.63	0.64
22:FB:676:G:O2'	22:FB:950:G:O2'	2.13	0.64
22:FB:792:U:OP1	24:FD:50:THR:HG21	1.98	0.64
34:FN:73:LYS:HG3	34:FN:93:TYR:CD2	2.33	0.64
22:FB:1468:A:N6	35:FO:80:MET:CG	2.61	0.64
22:FB:1173:G:C1'	39:FS:22:VAL:HG12	2.27	0.64
22:FB:2315:A:N3	44:FX:70:ILE:CD1	2.58	0.64
22:FB:1001:A:H4'	46:FZ:27:LYS:HZ2	1.63	0.64
22:FB:864:C:C4'	46:FZ:42:GLY:CA	2.72	0.64
6:GF:12:PRO:HA	6:GF:19:LEU:HD12	1.78	0.64
9:GI:46:ALA:HB1	9:GI:77:ILE:HD12	1.80	0.64
14:GN:47:LEU:HA	14:GN:50:LYS:HD2	1.79	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:GT:23:ARG:HA	20:GT:26:ASN:HB2	1.79	0.64
22:HB:1072:U:O4	30:HJ:54:PRO:HB2	1.96	0.64
22:HB:707:U:H5''	22:HB:1585:A:N6	2.13	0.64
22:HB:1652:G:N2	22:HB:1752:U:H1'	2.13	0.64
22:HB:2399:C:OP2	51:H5:32:GLN:CG	2.42	0.64
22:HB:60:A:C5	22:HB:93:A:C2	2.86	0.64
24:HD:142:VAL:HA	24:HD:193:ILE:HA	1.79	0.64
26:HF:87:LYS:O	26:HF:89:ARG:HG3	1.98	0.64
27:HG:6:THR:C	27:HG:8:TYR:H	1.99	0.64
34:HN:73:LYS:HG3	34:HN:93:TYR:CD2	2.33	0.64
39:HS:63:HIS:HA	39:HS:95:ILE:HD13	1.79	0.64
43:HW:123:VAL:O	43:HW:124:ALA:HB3	1.97	0.64
43:HW:134:LEU:HD11	43:HW:152:ILE:HD12	1.80	0.64
46:HZ:10:ILE:HD12	46:HZ:10:ILE:H	1.63	0.64
1:IA:1172:C:H2'	1:IA:1173:G:H8	1.63	0.64
1:IA:1431:C:H2'	1:IA:1432:G:O4'	1.98	0.64
1:IA:536:C:H2'	1:IA:537:G:H8	1.63	0.64
1:IA:126:G:OP1	1:IA:605:U:H4'	1.98	0.64
1:IA:648:A:H2'	1:IA:649:G:C8	2.33	0.64
3:IC:28:GLN:HG3	3:IC:32:LEU:HD13	1.80	0.64
6:IF:42:GLU:HG2	6:IF:44:GLY:H	1.62	0.64
1:IA:589:C:C5'	8:IH:30:ARG:HB2	2.28	0.64
10:IJ:21:GLN:HA	10:IJ:24:VAL:HB	1.79	0.64
10:IJ:3:LYS:HA	10:IJ:75:ILE:HG12	1.80	0.64
1:IA:363:A:C5	12:IL:30:ALA:HB2	2.32	0.64
13:IM:96:LEU:HB3	13:IM:97:PRO:HD2	1.79	0.64
22:JB:2861:A:H1'	48:J2:31:THR:HG23	1.79	0.64
23:JA:49:C:OP1	36:JP:94:TYR:CZ	2.51	0.64
22:JB:1795:C:H2'	22:JB:1796:A:H8	1.63	0.64
22:JB:1996:A:O3'	40:JT:116:ILE:N	2.31	0.64
22:JB:2234:G:H2'	22:JB:2235:G:O4'	1.98	0.64
22:JB:47:G:N3	22:JB:155:G:N1	2.46	0.64
22:JB:599:A:OP1	26:JF:89:ARG:HG2	1.97	0.64
27:JG:68:THR:HG22	27:JG:69:LYS:H	1.63	0.64
22:JB:1018:C:O3'	31:JK:136:PRO:HG3	1.98	0.64
34:JN:72:ASP:O	34:JN:73:LYS:HG2	1.98	0.64
22:JB:1996:A:HO2'	40:JT:115:ASN:HA	1.61	0.64
42:JV:90:LYS:HB3	42:JV:108:VAL:HG21	1.80	0.64
1:AA:1441:G:O6	20:AT:27:LYS:NZ	2.30	0.63
2:AB:69:LEU:HB3	2:AB:162:ILE:HG12	1.78	0.63
6:AF:42:GLU:HG2	6:AF:44:GLY:H	1.63	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:AH:59:LEU:HB3	8:AH:61:VAL:HG23	1.80	0.63
1:AA:964:A:O3'	10:AJ:55:LYS:HD2	1.98	0.63
10:AJ:63:PHE:CZ	14:AN:48:ALA:CB	2.81	0.63
23:BA:106:U:C4'	43:BW:88:TYR:CD2	2.74	0.63
22:BB:124:A:H2'	22:BB:125:A:N3	2.14	0.63
22:BB:1416:A:H4'	22:BB:1485:U:C3'	2.23	0.63
22:BB:2244:C:H3'	22:BB:2245:A:C5'	2.28	0.63
22:BB:967:G:C5'	34:BN:78:LYS:HE3	2.28	0.63
25:BE:53:PRO:HG2	25:BE:73:ALA:HB1	1.80	0.63
46:BZ:10:ILE:HD12	46:BZ:10:ILE:H	1.63	0.63
1:CA:1035:A:H2'	1:CA:1036:G:H21	1.63	0.63
1:CA:111:G:H5'	16:CP:27:LYS:CG	2.27	0.63
1:CA:1322:C:OP1	19:CS:78:ARG:NH2	2.31	0.63
6:CF:49:ALA:HB3	18:CR:79:LEU:CA	2.25	0.63
9:CI:46:ALA:HB1	9:CI:77:ILE:HD12	1.80	0.63
1:CA:973:G:H4'	14:CN:41:ARG:HH21	1.63	0.63
22:DB:2394:G:C1'	33:DM:64:GLY:HA2	2.27	0.63
22:DB:2713:A:C3'	22:DB:2714:A:P	2.85	0.63
22:DB:410:A:H2'	22:DB:411:C:O4'	1.97	0.63
22:DB:503:G:C5'	40:DT:30:TYR:HH	2.12	0.63
22:DB:1797:C:O2	24:DD:49:ILE:HB	1.98	0.63
22:DB:687:G:C8	26:DF:68:ARG:CZ	2.81	0.63
1:EA:1169:A:H2'	1:EA:1169:A:N3	2.12	0.63
1:EA:1237:C:H3'	1:EA:1238:A:H5'	1.80	0.63
1:EA:1254:C:H5''	1:EA:1357:A:OP1	1.97	0.63
1:EA:1273:G:N2	1:IA:1264:C:C5'	2.45	0.63
1:EA:1431:C:H2'	1:EA:1432:G:O4'	1.98	0.63
1:EA:589:C:O4'	8:EH:29:SER:CB	2.45	0.63
1:EA:648:A:H2'	1:EA:649:G:C8	2.33	0.63
3:EC:154:SER:OG	3:EC:196:LEU:HB3	1.98	0.63
6:EF:42:GLU:HG2	6:EF:44:GLY:H	1.62	0.63
1:EA:538:G:C5'	12:EL:114:LYS:N	2.43	0.63
1:EA:1308:U:C3'	13:EM:99:ARG:HH12	1.79	0.63
1:EA:583:A:N3	17:EQ:91:ARG:HD3	2.14	0.63
23:FA:40:C:H2'	23:FA:41:A:H5'	1.79	0.63
22:FB:1021:A:C5'	38:FR:66:ASN:CG	2.50	0.63
22:FB:124:A:H2'	22:FB:125:A:N3	2.14	0.63
22:FB:1266:G:N2	38:FR:37:GLN:HG3	2.13	0.63
22:FB:1887:G:C3'	22:FB:1888:C:OP2	2.46	0.63
22:FB:410:A:H2'	22:FB:411:C:O4'	1.97	0.63
22:FB:594:G:P	26:FF:82:VAL:HG11	2.37	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:FB:672:C:H1'	26:FF:96:PRO:CD	2.20	0.63
22:FB:980:G:H5''	46:FZ:12:ARG:O	1.97	0.63
22:FB:704:G:H4'	24:FD:44:ASN:ND2	2.12	0.63
22:FB:2637:C:H5'	28:FH:158:HIS:CE1	2.33	0.63
32:FL:5:GLN:HG3	32:FL:6:SER:H	1.62	0.63
38:FR:54:LYS:HE2	38:FR:93:LYS:NZ	2.13	0.63
1:GA:1251:A:C5'	9:GI:12:GLU:OE1	2.43	0.63
1:GA:1431:C:H2'	1:GA:1432:G:O4'	1.98	0.63
1:GA:536:C:H2'	1:GA:537:G:H8	1.63	0.63
1:GA:426:G:H1'	4:GD:42:GLN:HB2	1.79	0.63
8:GH:114:THR:HG21	8:GH:119:LEU:HB2	1.80	0.63
13:GM:82:MET:SD	13:GM:92:HIS:HA	2.38	0.63
15:GO:62:GLN:HE22	15:GO:66:LEU:HG	1.63	0.63
1:GA:835:U:H5'	18:GR:64:ARG:CZ	2.26	0.63
22:HB:1376:C:H3'	47:H1:55:ARG:NH2	2.13	0.63
22:HB:2859:U:C3'	48:H2:52:TYR:O	2.38	0.63
22:HB:1135:C:O2'	52:H6:5:SER:N	2.30	0.63
22:HB:712:A:H5''	22:HB:1570:C:H42	1.63	0.63
1:GA:1429:C:O2'	22:HB:1720:G:H4'	1.97	0.63
22:HB:1795:C:H2'	22:HB:1796:A:H8	1.63	0.63
22:HB:1807:A:H1'	22:HB:1808:C:H4'	1.80	0.63
22:HB:512:A:O5'	40:HT:16:GLN:NE2	2.29	0.63
27:HG:68:THR:HG22	27:HG:69:LYS:H	1.63	0.63
23:HA:53:G:OP1	36:HP:62:GLY:O	2.15	0.63
46:HZ:33:GLU:HG2	46:HZ:34:VAL:H	1.62	0.63
1:IA:675:A:H2'	1:IA:676:A:H5'	1.80	0.63
1:IA:979:C:H2'	1:IA:980:C:O4'	1.98	0.63
11:IK:40:ILE:HG22	11:IK:41:THR:HG23	1.80	0.63
20:IT:55:ILE:HA	20:IT:58:LYS:HB3	1.80	0.63
22:JB:707:U:H5''	22:JB:1585:A:N6	2.13	0.63
22:JB:2042:A:OP1	26:JF:65:GLY:CA	2.46	0.63
22:JB:2259:G:N2	22:JB:2367:A:C1'	2.61	0.63
22:JB:2633:A:H4'	22:JB:2634:G:H4'	1.79	0.63
22:JB:2685:A:C1'	35:JO:64:ARG:HD2	2.25	0.63
22:JB:3093:C:O2'	29:JI:28:TRP:CZ3	2.51	0.63
26:JF:87:LYS:O	26:JF:89:ARG:HG3	1.99	0.63
28:JH:69:ARG:NH1	28:JH:69:ARG:HB3	2.14	0.63
22:JB:846:A:C4'	33:JM:52:GLY:C	2.61	0.63
43:JW:65:LEU:N	43:JW:128:ARG:HH11	1.96	0.63
1:AA:1035:A:H2'	1:AA:1036:G:H21	1.63	0.63
1:AA:1254:C:H5''	1:AA:1357:A:OP1	1.97	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:280:C:H1'	17:AQ:38:ARG:HA	1.79	0.63
1:AA:43:C:H5''	16:AP:12:LYS:CG	2.28	0.63
1:AA:666:G:H21	15:AO:49:ASP:CA	1.96	0.63
1:AA:664:G:N2	1:AA:741:G:H1	1.89	0.63
1:AA:933:G:H2'	1:AA:934:C:H4'	1.77	0.63
8:AH:39:LEU:HD12	8:AH:45:ILE:HG12	1.81	0.63
10:AJ:3:LYS:HA	10:AJ:75:ILE:HG12	1.80	0.63
11:AK:40:ILE:HG22	11:AK:41:THR:HG23	1.80	0.63
1:AA:43:C:C5'	16:AP:12:LYS:HB3	2.16	0.63
22:BB:1042:G:C5'	52:B6:8:LYS:CG	2.45	0.63
22:BB:1007:A:O3'	38:BR:93:LYS:CG	2.45	0.63
22:BB:2334:C:H5'	44:BX:21:LEU:HD12	1.72	0.63
22:BB:2365:U:H4'	44:BX:37:LEU:CD1	2.28	0.63
22:BB:2461:G:N1	34:BN:53:ILE:HG13	2.02	0.63
22:BB:2792:C:O3'	35:BO:42:LYS:HE3	1.97	0.63
22:BB:700:C:H42	22:BB:800:U:H4'	1.64	0.63
24:BD:91:ARG:HB2	24:BD:91:ARG:HH21	1.63	0.63
22:BB:626:A:O3'	26:BF:33:TRP:HH2	1.78	0.63
32:BL:85:ASP:O	37:BQ:84:ALA:HB3	1.98	0.63
34:BN:74:PRO:HB3	34:BN:90:ALA:HB2	1.80	0.63
22:BB:490:A:C2'	42:BV:3:ARG:NH1	2.58	0.63
43:BW:67:LYS:HB2	43:BW:84:TYR:HB2	1.81	0.63
1:CA:1350:A:H62	9:CI:118:LYS:HE3	1.62	0.63
1:CA:436:C:C1'	4:CD:157:LEU:CB	2.76	0.63
1:CA:536:C:H2'	1:CA:537:G:H8	1.63	0.63
1:CA:620:C:H5''	4:CD:138:TYR:HH	1.61	0.63
4:CD:61:LYS:HZ3	4:CD:65:ARG:HD3	1.62	0.63
9:CI:6:GLY:N	9:CI:84:ALA:HB2	2.14	0.63
9:CI:6:GLY:HA3	9:CI:80:GLY:O	1.97	0.63
11:CK:18:ARG:HA	11:CK:81:ASP:HB3	1.80	0.63
12:CL:54:LYS:H	12:CL:54:LYS:HD2	1.64	0.63
20:CT:23:ARG:HA	20:CT:26:ASN:HB2	1.79	0.63
22:DB:2328:G:C5'	51:D5:42:ARG:CZ	2.70	0.63
33:DM:58:ALA:CA	51:D5:9:MET:SD	2.83	0.63
22:DB:1214:C:H2'	22:DB:1215:A:H8	1.64	0.63
22:DB:1795:C:H2'	22:DB:1796:A:H8	1.63	0.63
22:DB:18:U:O2'	22:DB:563:U:H5'	1.97	0.63
22:DB:524:A:OP1	38:DR:30:LYS:CD	2.35	0.63
22:DB:2713:A:H62	25:DE:203:LYS:HB3	0.82	0.63
27:DG:141:ILE:HG13	27:DG:142:THR:H	1.63	0.63
34:DN:131:LYS:HE3	43:DW:69:VAL:CG1	2.28	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:DB:2461:G:O6	34:DN:54:VAL:HG12	1.98	0.63
22:DB:1006:C:C2	38:DR:57:PHE:HD2	2.16	0.63
38:DR:54:LYS:HE2	38:DR:93:LYS:NZ	2.13	0.63
1:EA:1313:U:H3'	19:ES:6:LYS:CD	2.08	0.63
1:EA:375:U:H4'	16:EP:17:TYR:CE2	2.09	0.63
2:EB:215:LEU:HA	2:EB:218:ALA:HB3	1.80	0.63
2:EB:68:ILE:HG23	2:EB:161:ALA:HB3	1.81	0.63
1:EA:958:A:N9	19:ES:55:LYS:HD3	2.13	0.63
48:F2:15:LYS:HZ2	48:F2:16:ARG:N	1.95	0.63
22:FB:1197:U:H2'	22:FB:1198:C:O4'	1.97	0.63
22:FB:1827:G:C2	22:FB:1828:C:N4	2.65	0.63
22:FB:2753:C:OP1	25:FE:164:ARG:HG3	1.96	0.63
22:FB:456:C:O3'	38:FR:3:ARG:CB	2.46	0.63
22:FB:461:A:N6	22:FB:466:A:H62	1.97	0.63
22:FB:50:G:N2	22:FB:117:A:N3	2.47	0.63
22:FB:2661:G:C1'	25:FE:11:MET:HE3	2.21	0.63
22:FB:2285:U:N1	27:FG:40:LEU:HD21	2.13	0.63
27:FG:6:THR:C	27:FG:8:TYR:H	1.99	0.63
22:FB:2541:U:O2'	32:FL:23:ARG:NH2	2.21	0.63
22:FB:227:G:C4'	33:FM:55:ARG:HE	2.05	0.63
36:FP:38:ILE:HD12	36:FP:71:VAL:HG13	1.80	0.63
22:FB:1351:G:O2'	41:FU:15:LYS:HB2	1.98	0.63
34:FN:27:TYR:CD1	43:FW:73:LYS:HB2	2.32	0.63
1:GA:718:G:N7	18:GR:81:PHE:HZ	1.93	0.63
3:GC:154:SER:OG	3:GC:196:LEU:HB3	1.98	0.63
1:GA:1202:G:C6	10:GJ:54:PHE:HE1	2.15	0.63
10:GJ:64:GLU:HG2	14:GN:59:ALA:N	2.13	0.63
14:GN:4:LYS:HB3	14:GN:7:ILE:HD12	1.81	0.63
22:HB:2338:C:O2'	51:H5:49:VAL:HG11	1.98	0.63
22:HB:1535:C:C5	22:HB:1536:G:H1'	2.33	0.63
22:HB:238:G:O2'	22:HB:620:G:P	2.56	0.63
22:HB:3121:G:C4'	53:H7:160:LYS:NZ	2.61	0.63
22:HB:684:C:C6	33:HM:45:LYS:HB3	2.34	0.63
24:HD:46:ARG:HG3	24:HD:47:GLY:N	2.13	0.63
25:HE:53:PRO:HG2	25:HE:73:ALA:HB1	1.80	0.63
28:HH:22:GLY:HA2	28:HH:37:TYR:HB2	1.80	0.63
22:HB:6:A:O2'	31:HK:163:PRO:HG2	1.98	0.63
38:HR:28:ARG:HD2	38:HR:38:THR:HG21	1.79	0.63
43:HW:67:LYS:HB2	43:HW:84:TYR:HB2	1.80	0.63
1:IA:521:G:OP1	12:IL:72:GLY:C	2.36	0.63
1:IA:958:A:H1'	19:IS:55:LYS:HD2	1.80	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:IA:16:A:HO2'	5:IE:16:THR:CB	2.11	0.63
1:IA:779:C:H1'	11:IK:120:ARG:NE	2.13	0.63
1:IA:262:A:O3'	20:IT:75:ASN:CG	2.28	0.63
22:JB:3178:C:C2'	53:J7:39:ILE:HG13	2.28	0.63
22:JB:1173:G:H2'	39:JS:89:ASN:C	1.69	0.63
22:JB:1535:C:C5	22:JB:1536:G:H1'	2.33	0.63
22:JB:1856:U:C2	22:JB:3865:A:C5	2.85	0.63
22:JB:542:A:OP2	38:JR:25:TRP:CE3	2.49	0.63
27:JG:78:LYS:HE2	27:JG:80:ARG:HH22	1.63	0.63
22:JB:512:A:HO2'	40:JT:15:LYS:HG3	1.64	0.63
22:JB:57:G:H3'	41:JU:75:ARG:HH12	1.61	0.63
23:JA:14:C:C2	44:JX:52:GLY:HA2	2.32	0.63
22:JB:2344:G:H4'	44:JX:66:LYS:HG2	1.80	0.63
1:AA:1257:U:OP1	3:AC:27:LYS:CE	2.47	0.63
1:AA:1431:C:H2'	1:AA:1432:G:O4'	1.98	0.63
1:AA:1471:G:H5'	32:BL:17:ARG:HH11	1.62	0.63
1:AA:648:A:H2'	1:AA:649:G:C8	2.33	0.63
3:AC:154:SER:OG	3:AC:196:LEU:HB3	1.98	0.63
4:AD:61:LYS:HZ3	4:AD:65:ARG:HD3	1.63	0.63
1:AA:1374:A:H8	7:AG:31:MET:CE	2.11	0.63
8:AH:114:THR:HG21	8:AH:119:LEU:HB2	1.80	0.63
10:AJ:7:LYS:HG2	10:AJ:9:ARG:HH12	1.62	0.63
1:AA:1187:G:C2'	14:AN:60:SER:OG	2.42	0.63
1:AA:108:G:C1'	20:AT:12:ALA:CB	2.75	0.63
22:BB:1214:C:H2'	22:BB:1215:A:H8	1.64	0.63
22:BB:2240:C:P	44:BX:14:ARG:HG2	2.38	0.63
22:BB:2558:C:H5''	25:BE:132:LYS:CG	2.27	0.63
22:BB:2793:G:OP2	35:BO:42:LYS:HG2	1.98	0.63
22:BB:461:A:N6	22:BB:466:A:H62	1.97	0.63
22:BB:1815:G:C5'	24:BD:54:ILE:HG13	2.29	0.63
22:BB:2619:G:OP1	31:BK:122:HIS:NE2	2.31	0.63
22:BB:6:A:H4'	31:BK:162:LYS:HE2	1.81	0.63
33:BM:108:LEU:HB3	33:BM:129:ALA:HB3	1.80	0.63
22:BB:1008:G:P	38:BR:93:LYS:CG	2.82	0.63
38:BR:54:LYS:HE2	38:BR:93:LYS:NZ	2.14	0.63
1:CA:1092:A:H5''	7:CG:4:ARG:NE	2.11	0.63
1:CA:1205:U:H4'	3:CC:195:VAL:CG2	2.29	0.63
1:CA:1260:C:H4'	1:CA:1284:C:H5'	1.80	0.63
1:CA:1254:C:H5''	1:CA:1357:A:OP1	1.97	0.63
1:CA:1374:A:H4'	7:CG:28:ASN:CG	2.17	0.63
1:CA:253:U:O2'	17:CQ:16:GLN:O	2.14	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:276:G:C5'	17:CQ:18:THR:HG23	2.16	0.63
1:CA:275:G:H2'	1:CA:276:G:H8	1.63	0.63
1:CA:667:G:H1'	15:CO:51:HIS:N	2.13	0.63
22:DB:465:C:H42	50:D4:39:ARG:HH11	1.45	0.63
23:DA:40:C:H2'	23:DA:41:A:H5'	1.79	0.63
22:DB:1531:C:H2'	22:DB:1532:A:H8	1.61	0.63
22:DB:2244:C:H3'	22:DB:2245:A:H5''	1.80	0.63
22:DB:2355:A:C2	36:DP:114:PHE:CE1	2.86	0.63
22:DB:2765:C:O2	25:DE:65:GLY:HA3	1.97	0.63
22:DB:37:C:H2'	22:DB:38:G:C8	2.34	0.63
22:DB:461:A:N6	22:DB:466:A:H62	1.97	0.63
24:DD:121:PRO:HG3	24:DD:131:LEU:HA	1.81	0.63
22:DB:1797:C:HO2'	24:DD:49:ILE:HD12	1.62	0.63
25:DE:111:LYS:HD3	25:DE:111:LYS:N	2.12	0.63
22:DB:1674:C:OP1	25:DE:134:TRP:C	2.37	0.63
31:DK:101:THR:HA	31:DK:111:LYS:HG3	1.80	0.63
37:DQ:63:ARG:HE	37:DQ:63:ARG:HA	1.64	0.63
1:EA:125:U:O2'	1:EA:605:U:O2	2.15	0.63
1:EA:1260:C:H4'	1:EA:1284:C:H5'	1.80	0.63
1:EA:275:G:H2'	1:EA:276:G:H8	1.63	0.63
1:EA:598:U:O2'	8:EH:130:GLY:HA2	1.97	0.63
1:EA:684:A:O2'	11:EK:40:ILE:CA	2.47	0.63
4:ED:59:ARG:HH12	4:ED:66:ARG:CZ	2.12	0.63
6:EF:37:VAL:HG12	6:EF:38:GLU:H	1.62	0.63
1:EA:1298:C:H5	7:EG:114:ARG:HH11	0.70	0.63
7:EG:16:LEU:CB	9:EI:41:VAL:CG1	2.77	0.63
10:EJ:12:ASP:O	10:EJ:16:LEU:HG	1.97	0.63
1:EA:538:G:H5''	12:EL:114:LYS:HB2	1.77	0.63
1:EA:658:G:C4'	15:EO:22:THR:O	2.46	0.63
1:EA:668:G:C2'	15:EO:46:HIS:CD2	2.81	0.63
22:FB:1214:C:H2'	22:FB:1215:A:H8	1.64	0.63
22:FB:1531:C:O2'	22:FB:1572:C:C2	2.21	0.63
22:FB:2612:G:H1'	25:FE:62:PRO:HG2	1.76	0.63
22:FB:2679:G:H2'	22:FB:2680:U:H5''	1.80	0.63
22:FB:3124:G:N2	53:F7:209:MSE:SE	2.82	0.63
22:FB:590:C:H5''	38:FR:32:TYR:CG	2.33	0.63
24:FD:46:ARG:HG3	24:FD:47:GLY:N	2.13	0.63
37:FQ:63:ARG:HA	37:FQ:63:ARG:HE	1.64	0.63
22:FB:1006:C:H4'	38:FR:93:LYS:HZ1	1.64	0.63
22:FB:760:U:O2	40:FT:109:ARG:HD2	1.99	0.63
1:GA:1110:A:H2'	1:GA:1110:A:N3	2.13	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:GA:331:G:N7	20:GT:10:LEU:HD23	2.14	0.63
1:GA:383:A:H2'	1:GA:384:G:H5'	1.80	0.63
1:GA:658:G:C5'	15:GO:8:LYS:HZ2	1.76	0.63
1:GA:658:G:H5''	15:GO:8:LYS:HE3	1.80	0.63
1:GA:1374:A:H4'	7:GG:28:ASN:CG	2.18	0.63
10:GJ:21:GLN:HA	10:GJ:24:VAL:HB	1.78	0.63
13:GM:84:ILE:HG21	19:GS:65:ASN:C	2.18	0.63
1:GA:580:U:C4'	15:GO:57:LEU:HD23	1.96	0.63
1:GA:377:G:P	16:GP:5:ARG:NH1	2.71	0.63
47:H1:57:ASP:HB2	47:H1:60:ASN:HB2	1.80	0.63
49:H3:48:VAL:HG22	49:H3:49:VAL:H	1.63	0.63
23:HA:40:C:H2'	23:HA:41:A:H5'	1.79	0.63
22:HB:1142:G:O6	31:HK:105:GLY:HA2	1.98	0.63
22:HB:1569:A:H2'	22:HB:1571:G:N7	2.13	0.63
22:HB:2236:U:OP1	44:HX:9:SER:HA	1.99	0.63
22:HB:3121:G:C4'	53:H7:160:LYS:HZ1	2.12	0.63
22:HB:37:C:H2'	22:HB:38:G:C8	2.34	0.63
22:HB:597:U:H1'	26:HF:84:PHE:CE2	2.34	0.63
22:HB:75:C:H1'	45:HY:55:THR:HB	1.80	0.63
22:HB:1977:C:H5'	25:HE:128:SER:HB2	1.80	0.63
28:HH:69:ARG:HB3	28:HH:69:ARG:NH1	2.13	0.63
33:HM:95:ALA:HB2	33:HM:100:ARG:HB2	1.79	0.63
1:IA:587:G:H5''	8:IH:92:ARG:HH12	1.62	0.63
1:IA:653:A:C6	8:IH:29:SER:HB3	2.33	0.63
1:IA:708:C:H5'	11:IK:20:TYR:CZ	2.33	0.63
1:IA:740:U:H5''	15:IO:35:ARG:NE	2.14	0.63
5:IE:31:LEU:HB3	5:IE:43:LEU:HD22	1.79	0.63
1:IA:1367:C:C4'	10:IJ:60:ARG:HH12	2.08	0.63
19:IS:19:VAL:HG13	19:IS:44:MET:SD	2.39	0.63
22:JB:2371:A:OP1	51:J5:29:LYS:CD	2.45	0.63
22:JB:1090:C:C2	30:JJ:132:ARG:HD3	2.33	0.63
22:JB:1569:A:H2'	22:JB:1571:G:N7	2.13	0.63
22:JB:2186:G:H2'	22:JB:2186:G:N3	2.12	0.63
22:JB:2207:G:N3	47:J1:42:PHE:HZ	1.96	0.63
22:JB:2350:G:O3'	49:J3:46:LYS:HD2	1.98	0.63
22:JB:2240:C:H5'	22:JB:2367:A:P	2.38	0.63
22:JB:2533:U:C2'	22:JB:2534:U:C5	2.67	0.63
22:JB:2697:G:N2	22:JB:2822:U:H4'	2.13	0.63
22:JB:37:C:H2'	22:JB:38:G:C8	2.34	0.63
22:JB:63:A:H5'	41:JU:72:ARG:HA	1.76	0.63
22:JB:63:A:N3	41:JU:62:ARG:CD	2.60	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:JB:1834:G:HO2'	24:JD:255:LYS:HZ3	1.45	0.63
25:JE:143:GLN:HE21	25:JE:144:ARG:HE	1.44	0.63
28:JH:22:GLY:HA2	28:JH:37:TYR:HB2	1.79	0.63
22:JB:1086:C:O2	30:JJ:89:SER:O	2.16	0.63
34:JN:67:ILE:HG13	34:JN:102:ARG:HA	1.80	0.63
22:JB:1040:A:H4'	34:JN:125:LYS:HZ3	0.57	0.63
1:AA:953:G:C4'	13:AM:124:PRO:HD3	2.28	0.63
10:AJ:48:THR:HA	10:AJ:62:HIS:HA	1.78	0.63
12:AL:10:LEU:CD1	17:AQ:32:TYR:CZ	2.81	0.63
1:AA:376:G:C4'	16:AP:28:ARG:HH12	2.11	0.63
1:AA:265:G:N9	17:AQ:64:PRO:O	2.31	0.63
22:BB:1831:G:O4'	22:BB:1910:A:O4'	2.16	0.63
22:BB:1829:C:O4'	22:BB:1911:A:O2'	2.01	0.63
22:BB:2063:A:OP1	47:B1:20:VAL:HG11	1.98	0.63
22:BB:2633:A:H4'	22:BB:2634:G:H4'	1.79	0.63
22:BB:2795:A:H1'	35:BO:5:LYS:HD3	1.78	0.63
22:BB:2768:C:O2'	22:BB:2866:A:C6	2.39	0.63
22:BB:3:U:C2	22:BB:2875:C:O2	2.52	0.63
22:BB:464:G:O6	50:B4:39:ARG:HD3	1.97	0.63
22:BB:487:G:H21	22:BB:491:A:H62	0.73	0.63
22:BB:1808:C:C3'	24:BD:63:ARG:HD3	2.28	0.63
24:BD:64:ILE:HD12	24:BD:104:TYR:OH	1.98	0.63
22:BB:1007:A:C5'	38:BR:93:LYS:HG3	2.24	0.63
43:BW:123:VAL:O	43:BW:124:ALA:HB3	1.97	0.63
22:BB:868:U:O2	44:BX:25:LYS:HE2	1.98	0.63
1:CA:1110:A:N3	1:CA:1110:A:H2'	2.13	0.63
1:CA:1237:C:H3'	1:CA:1238:A:H5'	1.80	0.63
1:CA:176:C:OP1	20:CT:69:GLY:HA3	1.98	0.63
1:CA:489:C:OP1	4:CD:132:ARG:CB	2.44	0.63
1:CA:825:G:N2	8:CH:15:ASN:HD21	1.96	0.63
2:CB:165:VAL:HG12	2:CB:205:ASP:HB2	1.81	0.63
3:CC:154:SER:OG	3:CC:196:LEU:HB3	1.98	0.63
6:CF:37:VAL:HG12	6:CF:38:GLU:H	1.62	0.63
7:CG:16:LEU:CD2	9:CI:42:ARG:HH11	2.09	0.63
11:CK:40:ILE:HG22	11:CK:41:THR:HG23	1.80	0.63
1:CA:1309:G:OP1	13:CM:88:ARG:CZ	2.46	0.63
15:CO:62:GLN:HE22	15:CO:66:LEU:HG	1.63	0.63
1:CA:1319:A:H5'	19:CS:70:LYS:CE	2.28	0.63
47:D1:57:ASP:HB2	47:D1:60:ASN:HB2	1.81	0.63
51:D5:5:LYS:HE2	51:D5:62:LEU:HB2	1.81	0.63
22:DB:1385:C:N4	22:DB:1386:A:H62	1.95	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:DB:1674:C:C3'	25:DE:134:TRP:CG	2.82	0.63
22:DB:2206:C:H4'	24:DD:261:ARG:HH22	1.63	0.63
22:DB:2470:U:O2	22:DB:2549:G:OP1	2.16	0.63
22:DB:2646:C:O4'	28:DH:109:TYR:CE1	2.52	0.63
22:DB:2658:A:H4'	25:DE:189:PRO:HA	1.81	0.63
22:DB:673:G:H22	33:DM:22:GLY:CA	2.11	0.63
22:DB:1806:G:H1'	24:DD:52:ARG:NH2	2.14	0.63
22:DB:1073:G:C5'	30:DJ:11:GLN:NE2	2.61	0.63
22:DB:8:A:O3'	31:DK:36:ASN:ND2	2.32	0.63
38:DR:28:ARG:HD2	38:DR:38:THR:HG21	1.78	0.63
34:DN:37:ALA:C	43:DW:74:ARG:HG2	2.18	0.63
46:DZ:10:ILE:HD12	46:DZ:10:ILE:H	1.63	0.63
22:DB:1000:G:OP1	46:DZ:27:LYS:HE2	1.99	0.63
1:EA:383:A:H2'	1:EA:384:G:H5'	1.80	0.63
2:EB:165:VAL:HG12	2:EB:205:ASP:HB2	1.81	0.63
1:EA:1297:C:H1'	7:EG:114:ARG:CZ	2.29	0.63
7:EG:115:ARG:HD3	7:EG:115:ARG:H	1.63	0.63
9:EI:123:PRO:HG3	10:EJ:57:LYS:HD3	1.80	0.63
1:EA:128:G:O2'	17:EQ:62:SER:N	2.31	0.63
1:EA:759:A:C2	17:EQ:98:LEU:HB3	2.33	0.63
22:FB:1636:G:C4'	50:F4:1:MET:CG	2.75	0.63
51:F5:52:LYS:N	51:F5:52:LYS:HE3	2.13	0.63
22:FB:1741:G:N3	22:FB:2835:A:C2	2.66	0.63
22:FB:2042:A:O3'	26:FF:62:LYS:C	2.34	0.63
22:FB:2312:A:H5'	22:FB:2315:A:H61	1.63	0.63
22:FB:2411:A:N1	47:F1:29:PRO:C	2.52	0.63
22:FB:2463:G:N3	34:FN:120:ARG:HG3	2.13	0.63
22:FB:2470:U:O4	22:FB:2548:G:O2'	2.16	0.63
22:FB:999:A:P	46:FZ:8:SER:N	2.71	0.63
24:FD:142:VAL:HA	24:FD:193:ILE:HA	1.79	0.63
22:FB:2186:G:C8	24:FD:149:PRO:HG2	2.34	0.63
32:FL:118:LEU:HB3	32:FL:126:ILE:HG21	1.81	0.63
22:FB:680:U:OP1	33:FM:48:PHE:CG	2.51	0.63
22:FB:507:A:OP1	40:FT:20:LEU:HD23	1.98	0.63
22:FB:23:G:O4'	40:FT:96:TYR:CE2	2.52	0.63
1:GA:968:A:C5	1:GA:1062:U:H4'	2.34	0.63
3:GC:181:ASN:ND2	3:GC:204:LEU:HB3	2.12	0.63
22:HB:2064:U:H5'	47:H1:33:VAL:HG13	1.63	0.63
22:HB:2859:U:O4	48:H2:34:PRO:HG2	1.95	0.63
51:H5:5:LYS:HE2	51:H5:62:LEU:HB2	1.80	0.63
22:HB:1325:U:C5'	41:HU:61:LYS:HE2	2.28	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:HB:1336:G:O4'	40:HT:103:LEU:HD21	1.99	0.63
22:HB:1441:A:O4'	22:HB:1587:A:N6	2.32	0.63
22:HB:2603:G:C1'	48:H2:22:HIS:HA	2.28	0.63
22:HB:1856:U:C2	22:HB:3865:A:C6	2.87	0.63
1:GA:712:A:H4'	24:HD:182:LEU:HD11	1.80	0.63
22:HB:2577:A:OP1	24:HD:235:GLY:C	2.36	0.63
22:HB:1803:G:H1'	24:HD:48:ARG:NH1	2.13	0.63
32:HL:89:ILE:HA	37:HQ:81:PHE:CB	2.28	0.63
33:HM:110:ALA:N	33:HM:129:ALA:HB2	2.14	0.63
34:HN:74:PRO:HB3	34:HN:90:ALA:HB2	1.79	0.63
22:HB:1307:U:C2'	35:HO:23:ALA:HB1	2.28	0.63
22:HB:590:C:OP1	38:HR:32:TYR:CZ	2.52	0.63
38:HR:54:LYS:HE2	38:HR:93:LYS:NZ	2.13	0.63
45:HY:22:LYS:HD3	45:HY:47:ARG:NE	2.13	0.63
22:HB:71:A:C4	45:HY:55:THR:HA	2.32	0.63
1:IA:968:A:C5	1:IA:1062:U:H4'	2.34	0.63
1:IA:1117:G:H4'	9:II:104:ARG:NH2	2.14	0.63
1:IA:247:G:O6	17:IQ:96:GLN:CG	2.46	0.63
1:IA:252:U:H1'	1:IA:275:G:N2	2.14	0.63
1:IA:1206:G:C5'	3:IC:193:TYR:HA	2.25	0.63
6:IF:97:PHE:CE2	18:IR:31:LEU:HD12	2.33	0.63
1:IA:1358:U:H4'	14:IN:31:ARG:O	1.98	0.63
1:IA:483:C:C2	16:IP:13:HIS:NE2	2.65	0.63
47:J1:13:LYS:HZ2	47:J1:13:LYS:HB3	1.62	0.63
22:JB:3167:U:O3'	53:J7:97:LYS:HE3	1.98	0.63
22:JB:1087:C:O2'	30:JJ:91:PRO:CA	2.45	0.63
22:JB:1583:A:N7	24:JD:85:ASP:HA	2.12	0.63
22:JB:2284:U:H1'	27:JG:152:MET:N	2.13	0.63
22:JB:2494:C:C4	22:JB:2548:G:N1	2.59	0.63
22:JB:2558:C:C4'	25:JE:132:LYS:HB2	2.28	0.63
22:JB:409:G:C4'	47:J1:39:VAL:HG11	2.29	0.63
22:JB:474:G:C3'	50:J4:5:TYR:CG	2.82	0.63
22:JB:788:G:H5''	22:JB:789:G:H4'	1.79	0.63
22:JB:923:A:H1'	22:JB:2243:C:O4'	1.98	0.63
22:JB:1812:U:C3'	24:JD:159:ALA:CB	2.68	0.63
38:JR:3:ARG:HE	38:JR:4:ALA:N	1.96	0.63
22:JB:528:G:C1'	40:JT:97:VAL:O	2.46	0.63
1:AA:1151:A:O4'	10:AJ:39:PRO:CG	2.45	0.63
1:AA:22:G:H1'	1:AA:914:A:N6	2.14	0.63
1:AA:234:C:O2	17:AQ:61:GLU:OE2	2.16	0.63
8:AH:44:PHE:O	8:AH:64:LYS:HB3	1.99	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:AL:16:GLU:O	12:AL:17:LYS:CA	2.45	0.63
1:AA:255:G:H5'	17:AQ:45:HIS:HE1	1.64	0.63
19:AS:39:THR:HG23	19:AS:69:HIS:HA	1.80	0.63
22:BB:2332:G:H21	44:BX:30:VAL:HB	1.64	0.63
22:BB:2725:C:O4'	28:BH:143:GLN:CA	2.47	0.63
22:BB:2786:G:H4'	25:BE:59:VAL:CG1	2.29	0.63
22:BB:2608:A:N1	22:BB:2869:U:H1'	2.14	0.63
22:BB:37:C:H2'	22:BB:38:G:C8	2.34	0.63
22:BB:503:G:H2'	22:BB:504:G:C8	2.34	0.63
24:BD:121:PRO:HG3	24:BD:131:LEU:HA	1.81	0.63
24:BD:142:VAL:HA	24:BD:193:ILE:HA	1.79	0.63
22:BB:2614:A:C4'	25:BE:77:ILE:HB	2.24	0.63
27:BG:68:THR:HG22	27:BG:69:LYS:H	1.63	0.63
22:BB:2856:U:H4'	35:BO:94:TYR:C	2.19	0.63
42:BV:42:ARG:HH11	42:BV:42:ARG:HB2	1.63	0.63
43:BW:67:LYS:CA	43:BW:128:ARG:HH12	2.11	0.63
45:BY:22:LYS:HD3	45:BY:47:ARG:NE	2.13	0.63
1:CA:1431:C:H2'	1:CA:1432:G:O4'	1.98	0.63
1:CA:436:C:C4'	4:CD:156:GLU:C	2.66	0.63
4:CD:59:ARG:HH12	4:CD:66:ARG:CZ	2.12	0.63
1:CA:953:G:N2	13:CM:120:LYS:CB	2.40	0.63
10:CJ:63:PHE:CZ	14:CN:58:LYS:CD	2.81	0.63
1:CA:277:C:C5'	17:CQ:43:LEU:HD11	1.80	0.63
22:DB:1042:G:O2'	52:D6:7:VAL:N	2.32	0.63
22:DB:1149:G:P	31:DK:55:ALA:CB	2.87	0.63
22:DB:1292:A:C5'	35:DO:33:ARG:HB3	2.21	0.63
22:DB:1669:A:O2'	22:DB:2797:G:N2	2.29	0.63
22:DB:1685:A:H2'	22:DB:1687:C:C4	2.34	0.63
22:DB:2244:C:H3'	22:DB:2245:A:C5'	2.28	0.63
22:DB:2614:A:H5''	25:DE:77:ILE:H	1.61	0.63
22:DB:2708:U:O4'	25:DE:21:ILE:CD1	2.46	0.63
22:DB:2738:A:N6	28:DH:71:LEU:CD1	2.61	0.63
22:DB:648:A:N6	33:DM:77:LEU:C	2.42	0.63
34:DN:67:ILE:HG13	34:DN:102:ARG:HA	1.80	0.63
22:DB:1274:C:P	40:DT:118:LYS:HG3	2.39	0.63
23:DA:96:C:H5''	43:DW:15:ASP:OD2	1.98	0.63
1:EA:1110:A:H2'	1:EA:1110:A:N3	2.13	0.63
1:EA:278:G:H22	17:EQ:96:GLN:NE2	0.83	0.63
1:EA:520:A:OP1	12:EL:54:LYS:HE3	1.97	0.63
1:EA:668:G:O2'	15:EO:46:HIS:CE1	2.51	0.63
1:EA:403:C:H5''	4:ED:136:PRO:HD2	1.81	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:EE:75:THR:N	5:EE:117:ASP:HB2	2.12	0.63
9:EI:46:ALA:HB1	9:EI:77:ILE:HD12	1.80	0.63
11:EK:18:ARG:HA	11:EK:81:ASP:HB3	1.80	0.63
3:EC:10:PHE:CZ	14:EN:58:LYS:CE	2.81	0.63
19:ES:32:LYS:HD3	19:ES:32:LYS:H	1.63	0.63
22:FB:2262:C:C2'	49:F3:8:ILE:HD13	2.28	0.63
22:FB:1363:C:H2'	22:FB:1588:A:O4'	1.98	0.63
22:FB:1828:C:C2	22:FB:1912:G:C5'	2.76	0.63
22:FB:1999:U:OP1	26:FF:65:GLY:HA3	1.99	0.63
22:FB:221:A:H2'	22:FB:222:G:O4'	1.98	0.63
22:FB:503:G:H2'	22:FB:504:G:C8	2.34	0.63
22:FB:941:U:OP2	46:FZ:34:VAL:HG23	1.98	0.63
22:FB:1671:A:H2	25:FE:113:THR:O	1.81	0.63
22:FB:2659:C:H1'	25:FE:187:ALA:HA	1.79	0.63
27:FG:179:LYS:HD3	1:IA:1021:G:O4'	1.92	0.63
22:FB:2628:C:C2'	32:FL:28:GLY:HA3	2.26	0.63
1:GA:391:G:H2'	1:GA:392:G:O4'	1.99	0.63
4:GD:59:ARG:HH12	4:GD:66:ARG:CZ	2.12	0.63
7:GG:145:ALA:HA	7:GG:148:ASN:HB2	1.81	0.63
10:GJ:50:ILE:O	14:GN:45:ARG:NE	2.30	0.63
12:GL:11:VAL:CB	17:GQ:32:TYR:HB2	2.27	0.63
19:GS:19:VAL:HG13	19:GS:44:MET:SD	2.39	0.63
1:AA:181:G:P	20:GT:102:GLY:CA	2.87	0.63
22:HB:1020:A:H4'	38:HR:62:ILE:CD1	2.28	0.63
22:HB:1861:G:P	22:HB:1862:C:OP2	2.56	0.63
22:HB:2186:G:H2'	22:HB:2186:G:N3	2.12	0.63
22:HB:2826:C:O2'	35:HO:60:LEU:CB	2.43	0.63
22:HB:3123:G:C5'	53:H7:108:GLU:OE1	2.47	0.63
22:HB:418:C:C5	53:H7:191:GLU:C	2.71	0.63
29:HI:45:THR:HA	29:HI:49:GLN:HB2	1.81	0.63
32:HL:5:GLN:HG3	32:HL:6:SER:H	1.62	0.63
34:HN:106:GLU:HG2	43:HW:114:ASP:N	2.13	0.63
22:HB:1300:A:OP1	35:HO:103:ARG:HG3	1.99	0.63
36:HP:38:ILE:HD12	36:HP:71:VAL:HG13	1.80	0.63
32:HL:90:ARG:C	37:HQ:79:ARG:HD3	2.18	0.63
22:HB:1238:A:OP1	39:HS:87:ARG:CB	2.47	0.63
22:HB:1236:G:OP2	39:HS:87:ARG:NH1	2.31	0.63
22:HB:504:G:H22	40:HT:77:ALA:HB3	1.63	0.63
1:IA:1055:A:H2	3:IC:156:ARG:CZ	2.11	0.63
1:IA:1125:U:O4	10:IJ:5:ARG:NH1	2.32	0.63
1:IA:275:G:H2'	1:IA:276:G:H8	1.63	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:IA:816:A:OP2	1:IA:1526:G:C2'	2.45	0.63
1:IA:946:A:H2'	1:IA:947:G:C8	2.33	0.63
1:IA:1057:G:C4'	3:IC:196:LEU:HA	2.29	0.63
3:IC:8:ILE:HA	3:IC:11:ARG:NH1	2.12	0.63
4:ID:59:ARG:HH12	4:ID:66:ARG:CZ	2.12	0.63
8:IH:112:LEU:HD22	8:IH:133:LEU:HA	1.80	0.63
6:IF:43:LEU:HA	18:IR:35:ARG:HD3	1.79	0.63
53:J7:85:ILE:HB	53:J7:90:LEU:HD22	1.78	0.63
22:JB:1363:C:C2'	22:JB:1588:A:C1'	2.76	0.63
22:JB:1486:A:N6	22:JB:1536:G:C5	2.66	0.63
22:JB:2766:U:H4'	25:JE:64:GLN:HB2	1.81	0.63
22:JB:3166:G:C3'	53:J7:98:ARG:N	2.39	0.63
22:JB:501:G:H2'	22:JB:502:A:C8	2.32	0.63
22:JB:631:G:H2'	33:JM:95:ALA:O	1.98	0.63
22:JB:761:G:C6	40:JT:111:ARG:NH1	2.56	0.63
23:JA:116:C:O2'	36:JP:49:GLN:O	2.17	0.63
39:JS:63:HIS:HA	39:JS:95:ILE:HD13	1.79	0.63
43:JW:123:VAL:O	43:JW:124:ALA:HB3	1.97	0.63
46:JZ:10:ILE:HD12	46:JZ:10:ILE:H	1.63	0.63
10:AJ:11:PHE:HE1	14:AN:54:PRO:CG	2.06	0.63
1:AA:973:G:H2'	14:AN:29:ARG:NH2	2.14	0.63
1:AA:720:C:H5''	18:AR:52:PRO:HG3	1.79	0.63
20:AT:23:ARG:HA	20:AT:26:ASN:HB2	1.79	0.63
22:BB:2328:G:C3'	51:B5:42:ARG:HD2	2.23	0.63
22:BB:1385:C:N4	22:BB:1386:A:H62	1.95	0.63
22:BB:1436:G:N2	22:BB:1508:G:C5	2.63	0.63
22:BB:1834:G:O2'	24:BD:244:ARG:HB2	1.98	0.63
22:BB:2234:G:H2'	22:BB:2235:G:O4'	1.98	0.63
22:BB:2244:C:H3'	22:BB:2245:A:H5''	1.80	0.63
22:BB:2523:G:N2	22:BB:2625:U:H4'	2.13	0.63
22:BB:2714:A:O4'	25:BE:205:SER:OXT	2.17	0.63
22:BB:648:A:H2	33:BM:109:LEU:CG	2.05	0.63
22:BB:78:C:H1'	22:BB:357:A:H1'	1.80	0.63
22:BB:811:G:OP2	26:BF:55:GLY:CA	2.45	0.63
35:BO:45:ARG:HH22	35:BO:94:TYR:H	1.46	0.63
22:BB:504:G:C2	40:BT:78:ASN:ND2	2.67	0.63
1:CA:412:A:C2	4:CD:30:LYS:C	2.71	0.63
3:CC:28:GLN:HG3	3:CC:32:LEU:HD13	1.80	0.63
5:CE:75:THR:N	5:CE:117:ASP:HB2	2.12	0.63
22:DB:225:G:C4'	47:D1:28:ARG:CG	2.40	0.63
22:DB:2328:G:O3'	51:D5:42:ARG:HD3	1.99	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
51:D5:52:LYS:HE3	51:D5:52:LYS:N	2.13	0.63
22:DB:1383:C:H5'	24:DD:48:ARG:NE	2.13	0.63
22:DB:1883:A:C6	22:DB:1953:A:C6	2.86	0.63
22:DB:2035:G:C5	25:DE:150:VAL:HG22	2.34	0.63
22:DB:2313:G:O2'	36:DP:15:ARG:CG	2.47	0.63
22:DB:2312:A:H5'	22:DB:2315:A:H61	1.63	0.63
22:DB:2351:G:HO2'	49:D3:47:HIS:CE1	2.16	0.63
22:DB:503:G:H2'	22:DB:504:G:C8	2.34	0.63
22:DB:687:G:H8	26:DF:68:ARG:CZ	2.11	0.63
22:DB:916:U:C6	43:DW:163:ASP:HB2	2.33	0.63
24:DD:64:ILE:HD12	24:DD:104:TYR:OH	1.98	0.63
22:DB:1884:A:C2	24:DD:244:ARG:HD2	2.34	0.63
27:DG:68:THR:HG22	27:DG:69:LYS:H	1.63	0.63
32:DL:23:ARG:HD3	32:DL:24:VAL:N	2.12	0.63
22:DB:2654:A:H5'	32:DL:43:ARG:CZ	2.27	0.63
34:DN:61:ARG:CB	43:DW:112:LEU:HD21	2.28	0.63
32:DL:87:SER:HB3	37:DQ:83:PHE:HA	1.63	0.63
22:DB:1163:C:C4'	38:DR:78:THR:HA	2.22	0.63
22:DB:1234:C:C5'	39:DS:68:LYS:CD	2.75	0.63
22:DB:1173:G:N3	39:DS:90:PHE:CE1	2.66	0.63
22:DB:934:G:C1'	44:DX:23:VAL:HB	2.23	0.63
1:EA:1273:G:H5'	1:IA:1265:G:H3'	0.63	0.63
1:EA:325:A:H61	16:EP:25:ARG:NH1	1.94	0.63
1:EA:689:C:H2'	1:EA:690:G:O4'	1.97	0.63
1:EA:706:A:H1'	11:EK:29:ILE:HD13	1.80	0.63
1:EA:8:A:C4	4:ED:209:ARG:NH1	2.53	0.63
19:ES:19:VAL:HG13	19:ES:44:MET:SD	2.39	0.63
22:FB:1627:C:O2'	50:F4:7:PRO:HD3	1.98	0.63
22:FB:1004:A:H1'	22:FB:1173:G:H22	1.63	0.63
22:FB:1045:G:N2	22:FB:1131:G:H22	1.90	0.63
22:FB:1202:U:H4'	39:FS:81:ARG:HH11	1.63	0.63
22:FB:2244:C:H3'	22:FB:2245:A:C5'	2.28	0.63
22:FB:2283:G:C1'	27:FG:153:ASP:OD1	2.47	0.63
22:FB:2633:A:H4'	22:FB:2634:G:H4'	1.79	0.63
22:FB:1750:A:O2'	22:FB:2694:G:O2'	2.17	0.63
22:FB:37:C:H2'	22:FB:38:G:C8	2.34	0.63
22:FB:954:U:H5	33:FM:39:SER:HB2	1.64	0.63
22:FB:2218:G:H5''	24:FD:248:THR:HG23	1.79	0.63
26:FF:87:LYS:O	26:FF:89:ARG:HG3	1.99	0.63
34:FN:73:LYS:CB	34:FN:94:TRP:H	2.05	0.63
36:FP:69:ALA:HA	36:FP:103:LEU:HA	1.81	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:FB:1007:A:C5'	38:FR:93:LYS:N	2.56	0.63
22:FB:63:A:O2'	41:FU:63:LYS:CA	2.47	0.63
43:FW:86:VAL:HG21	43:FW:128:ARG:HG2	1.81	0.63
1:GA:252:U:H1'	1:GA:275:G:N2	2.14	0.63
1:GA:946:A:H2'	1:GA:947:G:C8	2.34	0.63
2:GB:68:ILE:HG23	2:GB:161:ALA:HB3	1.81	0.63
4:GD:61:LYS:HZ3	4:GD:65:ARG:HD3	1.63	0.63
8:GH:39:LEU:HD12	8:GH:45:ILE:HG12	1.81	0.63
1:GA:1279:A:OP2	10:GJ:99:LYS:NZ	2.31	0.63
1:GA:1223:C:P	19:GS:78:ARG:HH21	2.22	0.63
22:HB:1074:G:N3	30:HJ:88:SER:CB	2.60	0.63
22:HB:1141:U:O4	25:HE:147:PRO:HB2	1.97	0.63
22:HB:5:A:H1'	22:HB:2873:G:H22	1.64	0.63
22:HB:501:G:H2'	22:HB:502:A:C8	2.33	0.63
28:HH:97:LYS:HA	28:HH:125:VAL:HG21	1.80	0.63
34:HN:68:ARG:HH21	43:HW:117:VAL:CB	2.12	0.63
36:HP:71:VAL:HG12	36:HP:75:LEU:HD12	1.79	0.63
38:HR:3:ARG:HE	38:HR:4:ALA:N	1.96	0.63
22:HB:506:G:N9	40:HT:82:ASN:HA	2.14	0.63
42:HV:42:ARG:HB2	42:HV:42:ARG:HH11	1.63	0.63
1:IA:1260:C:H4'	1:IA:1284:C:H5'	1.80	0.63
1:IA:1405:G:N2	22:JB:1902:A:C2	2.66	0.63
1:IA:296:U:H2'	1:IA:297:G:H5'	1.80	0.63
7:IG:14:PRO:HB3	7:IG:21:VAL:HG13	1.81	0.63
1:IA:589:C:C5'	8:IH:31:PHE:CA	2.76	0.63
12:IL:54:LYS:HD2	12:IL:54:LYS:H	1.64	0.63
13:IM:91:ARG:HB2	13:IM:98:VAL:HG22	1.81	0.63
14:IN:4:LYS:HB3	14:IN:7:ILE:HD12	1.81	0.63
15:IO:69:TYR:HH	15:IO:77:ARG:HH22	1.45	0.63
13:IM:87:TYR:N	19:IS:74:PHE:C	2.51	0.63
22:JB:2210:C:P	47:J1:39:VAL:CA	2.87	0.63
22:JB:1074:G:N3	30:JJ:88:SER:C	2.51	0.63
22:JB:2062:U:H2'	22:JB:2063:A:C8	2.33	0.63
22:JB:2312:A:H5'	22:JB:2315:A:H61	1.63	0.63
22:JB:2396:C:O3'	51:J5:42:ARG:NH2	2.31	0.63
22:JB:632:A:C5'	33:JM:101:ARG:HH22	2.11	0.63
22:JB:603:C:C4	22:JB:677:G:C6	2.86	0.63
22:JB:891:A:C6	22:JB:909:C:N3	2.66	0.63
22:JB:1812:U:O4	24:JD:199:ALA:HB1	1.99	0.63
22:JB:2826:C:C1'	35:JO:61:HIS:HB2	2.28	0.63
36:JP:69:ALA:HA	36:JP:103:LEU:HA	1.81	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:JW:36:ARG:HA	43:JW:39:PHE:CG	2.34	0.63
43:JW:48:THR:CB	43:JW:130:ILE:HD13	2.27	0.63
22:JB:980:G:H5'	46:JZ:13:PRO:HA	1.80	0.63
1:AA:1237:C:H3'	1:AA:1238:A:H5'	1.80	0.63
1:AA:1428:A:H5''	22:BB:1704:G:H4'	1.80	0.63
1:AA:182:U:O5'	1:GA:190:A:O2'	2.10	0.63
1:AA:545:C:C5'	4:AD:72:GLU:HB3	2.20	0.63
5:AE:151:LEU:CD1	8:AH:79:VAL:C	2.38	0.63
19:AS:32:LYS:H	19:AS:32:LYS:HD3	1.64	0.63
22:BB:1004:A:C4	22:BB:1173:G:N2	2.66	0.63
22:BB:1685:A:H2'	22:BB:1687:C:C4	2.34	0.63
22:BB:176:A:N3	47:B1:32:HIS:CE1	2.66	0.63
22:BB:1829:C:N1	22:BB:1911:A:O2'	2.32	0.63
22:BB:221:A:H2'	22:BB:222:G:O4'	1.98	0.63
22:BB:2793:G:P	35:BO:42:LYS:CE	2.74	0.63
22:BB:476:G:OP1	50:B4:5:TYR:CZ	2.51	0.63
22:BB:637:G:N2	33:BM:72:TYR:OH	2.32	0.63
22:BB:707:U:H5''	22:BB:1585:A:N6	2.13	0.63
15:AO:88:ARG:HB3	22:BB:727:U:C5	2.33	0.63
22:BB:628:A:OP1	26:BF:100:ARG:CZ	2.46	0.63
22:BB:2725:C:C4'	28:BH:142:GLY:CA	2.75	0.63
34:BN:65:ILE:HG22	43:BW:115:ILE:CD1	2.28	0.63
22:BB:18:U:H4'	38:BR:23:GLY:HA2	1.80	0.63
22:BB:887:G:C4'	43:BW:148:THR:HG21	2.29	0.63
46:BZ:33:GLU:HG2	46:BZ:34:VAL:H	1.62	0.63
1:CA:1265:G:C5'	1:GA:1273:G:C1'	2.74	0.63
1:CA:35:G:N2	12:CL:118:SER:OG	2.31	0.63
1:CA:689:C:H2'	1:CA:690:G:O4'	1.98	0.63
8:CH:39:LEU:HD12	8:CH:45:ILE:HG12	1.81	0.63
49:D3:24:THR:HG23	51:D5:35:GLY:HA3	1.70	0.63
22:DB:1030:U:P	22:DB:1045:G:H21	2.20	0.63
22:DB:1240:G:H2'	22:DB:1241:G:H8	1.64	0.63
22:DB:221:A:H2'	22:DB:222:G:O4'	1.98	0.63
22:DB:2234:G:H2'	22:DB:2235:G:O4'	1.98	0.63
22:DB:2510:A:H61	22:DB:2641:A:H61	1.47	0.63
22:DB:2661:G:C1'	25:DE:12:THR:N	2.62	0.63
22:DB:967:G:H5'	34:DN:78:LYS:NZ	2.13	0.63
22:DB:546:A:C3'	38:DR:57:PHE:HZ	2.11	0.63
43:DW:67:LYS:HB2	43:DW:84:TYR:HB2	1.80	0.63
1:EA:623:C:H41	4:ED:139:ARG:NH2	1.87	0.63
1:EA:654:G:N3	8:EH:1:MET:O	2.31	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:EA:946:A:H2'	1:EA:947:G:C8	2.34	0.63
1:EA:1060:C:P	3:EC:2:GLY:O	2.57	0.63
1:EA:437:U:H5'	4:ED:155:LEU:HD13	1.72	0.63
1:EA:1239:A:O3'	7:EG:115:ARG:CG	2.46	0.63
8:EH:112:LEU:HD22	8:EH:133:LEU:HA	1.80	0.63
1:EA:588:G:C4	8:EH:2:LEU:HD11	2.34	0.63
12:EL:54:LYS:H	12:EL:54:LYS:HD2	1.64	0.63
22:FB:3177:C:O2'	53:F7:163:PRO:CG	2.47	0.63
22:FB:1385:C:N4	22:FB:1386:A:H62	1.95	0.63
22:FB:1685:A:H2'	22:FB:1687:C:C4	2.34	0.63
22:FB:2244:C:H3'	22:FB:2245:A:H5''	1.80	0.63
22:FB:537:C:H2'	31:FK:139:ARG:HH11	1.62	0.63
22:FB:2786:G:H5'	25:FE:59:VAL:HG13	1.74	0.63
28:FH:22:GLY:HA2	28:FH:37:TYR:HB2	1.80	0.63
23:FA:10:U:C2'	36:FP:28:ARG:HH22	2.12	0.63
43:FW:87:THR:CA	43:FW:90:GLU:N	2.61	0.63
46:FZ:10:ILE:HD12	46:FZ:10:ILE:H	1.63	0.63
1:GA:1260:C:H4'	1:GA:1284:C:H5'	1.80	0.63
1:GA:275:G:H2'	1:GA:276:G:H8	1.63	0.63
1:GA:520:A:N6	1:GA:529:G:H21	1.97	0.63
2:GB:215:LEU:HA	2:GB:218:ALA:HB3	1.80	0.63
1:GA:1297:C:C1'	7:GG:114:ARG:NH2	2.59	0.63
9:GI:6:GLY:N	9:GI:84:ALA:HB2	2.13	0.63
53:H7:85:ILE:HB	53:H7:90:LEU:HD22	1.78	0.63
23:HA:92:G:H1	34:HN:39:GLU:HG3	1.62	0.63
22:HB:123:A:O3'	50:H4:18:PHE:CD1	2.41	0.63
22:HB:163:A:H2'	22:HB:164:G:H8	1.62	0.63
22:HB:2062:U:H2'	22:HB:2063:A:C8	2.33	0.63
22:HB:10:A:C2	22:HB:2608:A:C2	2.87	0.63
22:HB:46:C:H2'	22:HB:47:G:O4'	1.99	0.63
22:HB:700:C:H42	22:HB:800:U:H4'	1.63	0.63
22:HB:788:G:H5''	22:HB:789:G:H4'	1.80	0.63
24:HD:253:PRO:HD2	24:HD:255:LYS:HE2	1.80	0.63
35:HO:45:ARG:HH22	35:HO:94:TYR:H	1.46	0.63
36:HP:69:ALA:HA	36:HP:103:LEU:HA	1.81	0.63
44:HX:49:GLN:HA	44:HX:55:ARG:NE	2.12	0.63
22:HB:869:C:C4'	44:HX:57:HIS:H	1.88	0.63
1:IA:1035:A:H2'	1:IA:1036:G:H21	1.63	0.63
1:IA:1190:G:P	3:IC:4:LYS:HB3	2.39	0.63
1:IA:1440:C:P	20:IT:38:LYS:NZ	2.72	0.63
2:IB:68:ILE:HG23	2:IB:161:ALA:HB3	1.81	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:IC:57:ILE:HA	3:IC:66:VAL:HA	1.81	0.63
1:IA:1396:A:N1	5:IE:19:MET:HG3	2.14	0.63
1:IA:687:A:H4'	11:IK:42:TRP:CH2	2.33	0.63
22:JB:163:A:H2'	22:JB:164:G:H8	1.62	0.63
22:JB:1808:C:OP1	24:JD:63:ARG:CG	2.45	0.63
22:JB:2244:C:H3'	22:JB:2245:A:C5'	2.28	0.63
22:JB:592:G:H4'	38:JR:5:LYS:HE2	1.78	0.63
24:JD:64:ILE:HD12	24:JD:104:TYR:OH	1.98	0.63
25:JE:108:SER:HB3	25:JE:162:MET:HA	1.81	0.63
22:JB:2710:C:H4'	25:JE:169:ASN:HB3	1.80	0.63
26:JF:43:ALA:HB1	38:JR:2:PRO:CD	2.28	0.63
22:JB:1018:C:C5'	31:JK:63:ARG:HG3	2.28	0.63
32:JL:78:SER:HA	32:JL:90:ARG:HD3	1.81	0.63
22:JB:2394:G:H5''	33:JM:64:GLY:HA2	1.81	0.63
34:JN:102:ARG:H	34:JN:104:MET:HE1	1.64	0.63
22:JB:1261:G:N2	38:JR:3:ARG:HH11	1.97	0.63
1:AA:1107:C:H5''	3:AC:174:PRO:HA	1.81	0.63
1:AA:227:G:N2	16:AP:62:VAL:HG12	2.14	0.63
1:AA:52:G:H1	1:AA:360:A:H1'	1.63	0.63
1:AA:429:U:C3'	4:AD:8:VAL:CG2	2.77	0.63
1:AA:689:C:H2'	1:AA:690:G:O4'	1.97	0.63
3:AC:28:GLN:HG3	3:AC:32:LEU:HD13	1.80	0.63
8:AH:96:GLY:H	8:AH:99:GLU:HB2	1.64	0.63
1:AA:1146:A:H2	9:AI:5:TYR:CE1	2.16	0.63
50:B4:23:LYS:HD2	50:B4:23:LYS:H	1.64	0.63
22:BB:1045:G:N2	22:BB:1131:G:H22	1.90	0.63
22:BB:1471:G:H21	22:BB:2681:A:H62	1.22	0.63
22:BB:1569:A:H2'	22:BB:1571:G:N7	2.13	0.63
1:AA:1495:U:H4'	22:BB:1895:A:N3	2.14	0.63
22:BB:2523:G:H4'	22:BB:2624:G:C8	2.32	0.63
22:BB:80:A:O2'	22:BB:306:G:H1'	1.99	0.63
22:BB:742:G:OP1	24:BD:18:THR:O	2.17	0.63
22:BB:1886:G:P	24:BD:241:GLY:HA2	2.37	0.63
26:BF:87:LYS:O	26:BF:89:ARG:HG3	1.99	0.63
27:BG:11:GLN:NE2	27:BG:12:VAL:HG13	2.14	0.63
22:BB:887:G:N7	43:BW:167:THR:CG2	2.58	0.63
1:CA:1074:G:C1'	2:CB:104:ASN:CG	2.67	0.63
1:CA:1221:G:O2'	19:CS:77:THR:CG2	2.42	0.63
1:CA:159:G:H1'	1:CA:162:A:N6	2.14	0.63
13:CM:99:ARG:NH2	19:CS:2:PRO:CA	2.29	0.63
1:CA:254:G:N9	17:CQ:16:GLN:HB3	2.12	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:CS:32:LYS:HD3	19:CS:32:LYS:H	1.64	0.63
50:D4:23:LYS:HD2	50:D4:23:LYS:H	1.64	0.63
22:DB:1010:U:O2	22:DB:1168:G:N2	2.31	0.63
22:DB:1364:C:H1'	22:DB:1587:A:O2'	1.97	0.63
22:DB:707:U:H5''	22:DB:1585:A:N6	2.13	0.63
22:DB:2292:C:H5'	27:DG:87:ILE:HD12	1.80	0.63
22:DB:2492:G:C2'	22:DB:2493:U:C2	2.76	0.63
22:DB:60:A:C6	22:DB:92:U:O4	2.51	0.63
25:DE:108:SER:HB3	25:DE:162:MET:HA	1.81	0.63
25:DE:6:GLY:HA3	37:DQ:2:GLN:O	1.97	0.63
28:DH:151:VAL:HG23	28:DH:152:ARG:H	1.63	0.63
28:DH:35:VAL:N	28:DH:36:PRO:HD2	2.14	0.63
22:DB:2728:A:C2'	28:DH:67:LEU:HB2	2.28	0.63
28:DH:69:ARG:HB3	28:DH:69:ARG:NH1	2.14	0.63
30:DJ:52:ILE:HG23	30:DJ:53:ILE:H	1.63	0.63
22:DB:675:C:C3'	33:DM:26:THR:CA	2.59	0.63
23:DA:93:G:C4'	34:DN:22:ALA:HA	2.28	0.63
38:DR:71:LEU:H	38:DR:71:LEU:HD23	1.64	0.63
22:DB:1173:G:H4'	39:DS:23:GLU:C	2.19	0.63
22:DB:504:G:H1'	40:DT:26:ALA:C	2.19	0.63
43:DW:4:THR:HG22	43:DW:57:GLU:HB2	1.81	0.63
1:EA:558:G:O3'	5:EE:121:LYS:CE	2.47	0.63
1:EA:654:G:N9	8:EH:2:LEU:HD23	2.14	0.63
8:EH:44:PHE:O	8:EH:64:LYS:HB3	1.99	0.63
1:EA:645:C:OP2	8:EH:92:ARG:NH2	2.31	0.63
1:EA:967:C:P	9:EI:127:LYS:O	2.57	0.63
9:EI:6:GLY:N	9:EI:84:ALA:HB2	2.14	0.63
11:EK:40:ILE:HG22	11:EK:41:THR:HG23	1.80	0.63
1:EA:1309:G:H5''	13:EM:88:ARG:NH1	2.13	0.63
1:EA:975:A:C8	14:EN:41:ARG:NH1	2.67	0.63
22:FB:1198:C:OP2	46:FZ:26:ARG:NH1	2.25	0.63
22:FB:1569:A:H2'	22:FB:1571:G:N7	2.13	0.63
22:FB:2234:G:H2'	22:FB:2235:G:O4'	1.98	0.63
22:FB:2261:G:N2	22:FB:2404:A:O5'	2.32	0.63
22:FB:24:G:H4'	40:FT:98:ASP:HB2	1.80	0.63
22:FB:2600:A:O2'	25:FE:159:HIS:HB2	1.99	0.63
22:FB:339:U:C1'	42:FV:77:HIS:CE1	2.81	0.63
22:FB:857:U:O2	22:FB:946:U:C2	2.52	0.63
24:FD:121:PRO:HG3	24:FD:131:LEU:HA	1.81	0.63
27:FG:78:LYS:HE2	27:FG:80:ARG:HH22	1.63	0.63
28:FH:97:LYS:HA	28:FH:125:VAL:HG21	1.81	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:FM:63:ARG:NE	51:F5:12:ARG:HD3	2.14	0.63
37:FQ:77:VAL:HG12	37:FQ:78:GLU:HG2	1.81	0.63
22:FB:2309:G:H1'	44:FX:36:ILE:CD1	2.27	0.63
1:GA:1035:A:H2'	1:GA:1036:G:H21	1.63	0.63
1:GA:1226:C:H5''	13:GM:111:LYS:NZ	2.12	0.63
3:GC:8:ILE:HA	3:GC:11:ARG:NH1	2.12	0.63
8:GH:44:PHE:O	8:GH:64:LYS:HB3	1.99	0.63
1:GA:1367:C:H5''	9:GI:114:TYR:CA	2.29	0.63
10:GJ:3:LYS:HA	10:GJ:75:ILE:HG12	1.81	0.63
11:GK:40:ILE:HG22	11:GK:41:THR:HG23	1.80	0.63
1:GA:1308:U:C4'	13:GM:110:ARG:NH2	2.61	0.63
1:GA:195:A:OP2	20:GT:65:LYS:HE2	1.97	0.63
50:H4:8:ASN:ND2	50:H4:10:ARG:HE	1.97	0.63
22:HB:602:C:H1'	51:H5:2:PRO:CD	2.25	0.63
22:HB:1861:G:H1'	53:H7:199:ASN:HB2	0.63	0.63
22:HB:1486:A:C2	22:HB:1535:C:H5	2.17	0.63
22:HB:1566:G:C2	22:HB:1567:A:C5	2.87	0.63
22:HB:166:G:H1'	22:HB:184:A:N6	2.14	0.63
22:HB:2244:C:H3'	22:HB:2245:A:C5'	2.28	0.63
22:HB:2487:G:H4'	22:HB:2534:U:H5'	1.78	0.63
22:HB:2491:C:C2	25:HE:139:GLY:O	2.52	0.63
22:HB:461:A:N6	22:HB:466:A:H62	1.97	0.63
22:HB:759:C:P	40:HT:111:ARG:HG2	2.38	0.63
41:HU:91:LEU:CD1	45:HY:24:GLU:CD	2.54	0.63
1:IA:1408:A:H2	1:IA:1409:C:H41	1.46	0.63
2:IB:165:VAL:HG12	2:IB:205:ASP:HB2	1.81	0.63
1:IA:922:G:H4'	5:IE:20:GLN:HA	1.81	0.63
6:IF:37:VAL:HG12	6:IF:38:GLU:H	1.62	0.63
9:II:46:ALA:HB1	9:II:77:ILE:HD12	1.80	0.63
1:IA:719:C:N3	18:IR:74:ARG:NH1	2.46	0.63
1:IA:719:C:N3	18:IR:74:ARG:NH2	2.46	0.63
49:J3:48:VAL:HG22	49:J3:49:VAL:H	1.63	0.63
51:J5:5:LYS:HE2	51:J5:62:LEU:HB2	1.81	0.63
51:J5:5:LYS:HG2	51:J5:60:LEU:HD12	1.80	0.63
52:J6:14:CYS:HB3	52:J6:26:ILE:H	1.64	0.63
22:JB:110:U:O4'	45:JY:58:ALA:CB	2.46	0.63
22:JB:1376:C:H5'	47:J1:55:ARG:NH1	2.14	0.63
22:JB:166:G:H1'	22:JB:184:A:N6	2.14	0.63
22:JB:2495:G:O6	22:JB:2546:G:O6	2.17	0.63
22:JB:461:A:N6	22:JB:466:A:H62	1.97	0.63
22:JB:46:C:H2'	22:JB:47:G:O4'	1.99	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:JB:761:G:C6	40:JT:111:ARG:NE	2.51	0.63
22:JB:2767:C:H5'	25:JE:64:GLN:OE1	1.97	0.63
22:JB:672:C:H1'	26:JF:95:LEU:H	1.61	0.63
28:JH:151:VAL:HG23	28:JH:152:ARG:H	1.63	0.63
38:JR:88:ILE:CB	39:JS:51:ALA:HB3	2.24	0.63
22:JB:509:U:O3'	42:JV:54:ILE:CB	2.19	0.63
22:JB:339:U:O2	42:JV:78:ALA:C	2.36	0.63
34:JN:33:TYR:N	43:JW:117:VAL:HG21	1.98	0.63
1:AA:180:U:C6	20:GT:100:ILE:C	2.70	0.63
1:AA:669:U:O4'	15:AO:45:VAL:CG1	2.43	0.63
1:AA:946:A:H2'	1:AA:947:G:C8	2.33	0.63
2:AB:165:VAL:HG12	2:AB:205:ASP:HB2	1.81	0.63
1:AA:1349:A:N1	7:AG:33:ASP:O	2.32	0.63
11:AK:18:ARG:HA	11:AK:81:ASP:HB3	1.80	0.63
1:AA:980:C:H1'	14:AN:19:ARG:NE	2.14	0.63
19:AS:19:VAL:HG13	19:AS:44:MET:SD	2.39	0.63
49:B3:48:VAL:HG22	49:B3:49:VAL:H	1.63	0.63
50:B4:8:ASN:ND2	50:B4:10:ARG:HE	1.97	0.63
22:BB:1074:G:C4	30:BJ:133:SER:OG	2.48	0.63
22:BB:1402:G:N1	22:BB:1412:C:C5	2.61	0.63
22:BB:1401:G:C6	22:BB:1412:C:C4	2.87	0.63
22:BB:2557:G:H1'	25:BE:133:LYS:CE	2.26	0.63
22:BB:2523:G:C2	22:BB:2625:U:H4'	2.34	0.63
22:BB:2726:U:H5'	28:BH:138:LYS:NZ	2.10	0.63
22:BB:538:A:H61	22:BB:2026:C:H5''	1.63	0.63
22:BB:700:C:H5''	50:B4:4:THR:HA	1.80	0.63
29:BI:45:THR:HA	29:BI:49:GLN:HB2	1.81	0.63
37:BQ:63:ARG:HA	37:BQ:63:ARG:HE	1.64	0.63
41:BU:53:ILE:HD11	41:BU:78:ALA:HB1	1.81	0.63
1:CA:436:C:H5''	4:CD:156:GLU:H	1.62	0.63
1:CA:558:G:O3'	5:CE:121:LYS:HE3	1.99	0.63
1:CA:946:A:H2'	1:CA:947:G:C8	2.34	0.63
8:CH:112:LEU:HD22	8:CH:133:LEU:HA	1.80	0.63
8:CH:91:ARG:HH21	17:CQ:32:TYR:CB	2.12	0.63
1:CA:234:C:OP1	17:CQ:64:PRO:HG2	1.80	0.63
50:D4:8:ASN:ND2	50:D4:10:ARG:HE	1.97	0.63
23:DA:115:G:H21	36:DP:49:GLN:HE21	1.43	0.63
22:DB:1045:G:N2	22:DB:1131:G:H22	1.90	0.63
22:DB:1163:C:H1'	38:DR:78:THR:CB	2.29	0.63
22:DB:1569:A:H2'	22:DB:1571:G:N7	2.14	0.63
1:CA:270:A:C5'	22:DB:1738:U:H1'	2.29	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:DB:1809:G:O3'	24:DD:157:ARG:CZ	2.47	0.63
22:DB:3123:G:C1'	53:D7:166:GLN:HE22	2.12	0.63
24:DD:253:PRO:HD2	24:DD:255:LYS:HE2	1.81	0.63
25:DE:144:ARG:HD2	25:DE:146:THR:N	2.10	0.63
26:DF:87:LYS:O	26:DF:89:ARG:HG3	1.99	0.63
31:DK:156:HIS:HB3	31:DK:157:PRO:HD2	1.79	0.63
43:DW:67:LYS:HG3	43:DW:128:ARG:NH1	2.12	0.63
43:DW:48:THR:HA	43:DW:65:LEU:HD12	1.81	0.63
1:EA:1509:C:H2'	1:EA:1510:U:O4'	1.99	0.63
1:EA:436:C:O3'	4:ED:155:LEU:HB3	1.99	0.63
1:EA:452:A:H2'	1:EA:453:A:O4'	1.99	0.63
1:EA:876:G:O2'	8:EH:84:ARG:HG3	1.98	0.63
1:EA:111:G:H5'	16:EP:27:LYS:CB	2.29	0.63
20:ET:55:ILE:HA	20:ET:58:LYS:HB3	1.80	0.63
22:FB:2325:A:N6	49:F3:27:ASN:HB3	2.14	0.63
50:F4:23:LYS:HD2	50:F4:23:LYS:H	1.64	0.63
51:F5:9:MET:HB2	51:F5:59:LYS:HD3	1.81	0.63
51:F5:5:LYS:HE2	51:F5:62:LEU:HB2	1.80	0.63
23:FA:116:C:O2'	36:FP:50:THR:CB	2.47	0.63
22:FB:1007:A:H5'	38:FR:93:LYS:O	1.99	0.63
22:FB:707:U:H5''	22:FB:1585:A:N6	2.13	0.63
22:FB:1762:C:C4'	22:FB:1921:A:N7	2.61	0.63
22:FB:2617:G:OP2	25:FE:81:PHE:CE1	2.52	0.63
22:FB:2745:A:C5'	22:FB:2746:G:P	2.87	0.63
22:FB:839:U:H5''	22:FB:2407:G:O3'	1.99	0.63
22:FB:847:C:O2	22:FB:2337:A:C8	2.52	0.63
22:FB:1583:A:N9	24:FD:84:TYR:CD1	2.66	0.63
27:FG:11:GLN:NE2	27:FG:12:VAL:HG13	2.14	0.63
33:FM:110:ALA:N	33:FM:129:ALA:HB2	2.14	0.63
22:FB:1992:G:H1'	35:FO:105:GLY:HA3	1.81	0.63
23:FA:8:C:O2	36:FP:32:TYR:CE2	2.51	0.63
43:FW:64:ALA:HA	43:FW:128:ARG:HH11	1.61	0.63
43:FW:68:ALA:HA	43:FW:119:ASN:O	1.99	0.63
45:FY:22:LYS:HD3	45:FY:47:ARG:NE	2.13	0.63
11:GK:18:ARG:HA	11:GK:81:ASP:HB3	1.80	0.63
12:GL:72:GLY:HA3	12:GL:102:ARG:HH11	1.63	0.63
13:GM:87:TYR:HE2	19:GS:3:ARG:NH2	1.94	0.63
22:HB:1214:C:H2'	22:HB:1215:A:H8	1.64	0.63
22:HB:1797:C:O2	24:HD:49:ILE:CG1	2.41	0.63
22:HB:2312:A:H5'	22:HB:2315:A:H61	1.63	0.63
22:HB:1681:A:C2	22:HB:2706:U:C1'	2.82	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:HB:2848:A:C2'	35:HO:6:ALA:CB	2.76	0.63
22:HB:596:C:O5'	33:HM:29:THR:HB	1.99	0.63
25:HE:108:SER:HB3	25:HE:162:MET:HA	1.81	0.63
32:HL:88:THR:C	37:HQ:81:PHE:CB	2.40	0.63
33:HM:108:LEU:HB3	33:HM:129:ALA:HB3	1.79	0.63
37:HQ:77:VAL:HG12	37:HQ:78:GLU:HG2	1.81	0.63
22:HB:489:A:C4'	42:HV:5:SER:CB	2.58	0.63
43:HW:48:THR:HA	43:HW:65:LEU:HD12	1.81	0.63
1:IA:1110:A:H2'	1:IA:1110:A:N3	2.13	0.63
1:IA:1148:U:C5'	9:II:14:VAL:HG21	2.29	0.63
1:IA:1151:A:H5''	10:IJ:42:THR:CA	2.29	0.63
1:IA:1316:G:H1	19:IS:5:LEU:CB	2.12	0.63
1:IA:52:G:H1	1:IA:360:A:H1'	1.64	0.63
1:IA:371:G:H4'	1:IA:482:A:H5'	1.81	0.63
1:IA:391:G:H2'	1:IA:392:G:O4'	1.99	0.63
1:IA:520:A:N6	1:IA:529:G:H21	1.97	0.63
1:IA:927:G:O2'	1:IA:1532:U:H1'	1.98	0.63
8:IH:96:GLY:H	8:IH:99:GLU:HB2	1.64	0.63
10:IJ:3:LYS:N	10:IJ:76:ASN:H	1.95	0.63
51:J5:34:THR:HA	51:J5:36:LYS:NZ	2.14	0.63
22:JB:1861:G:H1'	53:J7:199:ASN:HD21	0.62	0.63
22:JB:1214:C:H2'	22:JB:1215:A:H8	1.64	0.63
22:JB:1373:G:N2	22:JB:2194:A:N3	2.46	0.63
1:IA:1484:C:C4'	22:JB:1944:C:H4'	2.22	0.63
22:JB:2339:A:C2	22:JB:2407:G:O6	2.52	0.63
22:JB:1040:A:C1'	22:JB:2465:G:C5'	2.70	0.63
22:JB:2725:C:H42	22:JB:2740:C:H42	1.45	0.63
22:JB:969:U:O4	34:JN:21:ASP:C	2.35	0.63
24:JD:121:PRO:HG3	24:JD:131:LEU:HA	1.81	0.63
24:JD:157:ARG:HB3	24:JD:202:LYS:HZ2	1.63	0.63
22:JB:1583:A:N3	24:JD:84:TYR:CD1	2.64	0.63
29:JI:45:THR:HA	29:JI:49:GLN:HB2	1.81	0.63
22:JB:2821:G:H5''	37:JQ:106:TYR:HE2	1.64	0.63
37:JQ:63:ARG:HA	37:JQ:63:ARG:HE	1.64	0.63
22:JB:1173:G:H4'	39:JS:91:THR:HB	1.81	0.63
43:JW:134:LEU:HD11	43:JW:152:ILE:HD12	1.80	0.63
43:JW:4:THR:HG22	43:JW:57:GLU:HB2	1.81	0.63
1:AA:1408:A:H2	1:AA:1409:C:H41	1.46	0.62
1:AA:275:G:C1'	17:AQ:15:MET:HE3	2.24	0.62
1:AA:276:G:C2	17:AQ:68:ARG:NH1	2.67	0.62
1:AA:9:G:H5'	5:AE:104:ALA:HB2	1.80	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AB:8:LYS:HA	2:AB:48:MET:HE2	1.81	0.62
1:AA:1350:A:N3	7:AG:33:ASP:O	2.32	0.62
1:AA:877:C:O4'	8:AH:4:ASP:HB2	1.99	0.62
12:AL:75:HIS:HB2	12:AL:108:ALA:HB3	1.79	0.62
15:AO:45:VAL:HG12	15:AO:46:HIS:H	1.64	0.62
17:AQ:43:LEU:HB3	17:AQ:69:LYS:NZ	2.14	0.62
51:B5:9:MET:HB2	51:B5:59:LYS:HD3	1.81	0.62
23:BA:77:G:H1	23:BA:105:G:N2	1.97	0.62
22:BB:1397:A:C5	22:BB:1418:C:C4	2.87	0.62
22:BB:1397:A:N3	22:BB:1418:C:C5	2.64	0.62
22:BB:2503:G:C2	22:BB:2720:A:C2	2.86	0.62
22:BB:886:A:C2'	43:BW:167:THR:CG2	2.64	0.62
1:AA:1471:G:P	32:BL:17:ARG:HD2	2.39	0.62
22:BB:1236:G:H1	39:BS:73:LYS:CE	2.11	0.62
22:BB:2334:C:C6	44:BX:32:LYS:HE2	2.32	0.62
1:CA:436:C:C5'	4:CD:156:GLU:N	2.62	0.62
1:CA:582:U:H4'	15:CO:68:ARG:CZ	2.24	0.62
2:CB:215:LEU:HA	2:CB:218:ALA:HB3	1.80	0.62
3:CC:6:HIS:NE2	3:CC:8:ILE:HB	2.14	0.62
1:CA:407:G:H4'	4:CD:116:GLN:N	2.14	0.62
1:CA:8:A:H62	4:CD:205:GLU:C	2.02	0.62
4:CD:201:GLN:CD	5:CE:116:THR:OG1	2.38	0.62
8:CH:114:THR:HG21	8:CH:119:LEU:HB2	1.80	0.62
10:CJ:63:PHE:CD2	14:CN:58:LYS:HA	2.34	0.62
12:CL:72:GLY:HA3	12:CL:102:ARG:HH11	1.63	0.62
22:DB:2411:A:C2	47:D1:27:THR:OG1	2.47	0.62
22:DB:1615:C:C5'	41:DU:33:ALA:HB2	2.28	0.62
22:DB:1948:C:H41	22:DB:2571:G:H1'	1.64	0.62
22:DB:863:C:H4'	46:DZ:18:LYS:CB	2.19	0.62
24:DD:213:ARG:HD3	24:DD:219:PRO:HG3	1.81	0.62
27:DG:11:GLN:NE2	27:DG:12:VAL:HG13	2.14	0.62
22:DB:678:G:C5'	33:DM:38:LYS:HE3	2.28	0.62
34:DN:74:PRO:HB3	34:DN:90:ALA:HB2	1.79	0.62
23:DA:117:G:C5'	36:DP:51:LEU:O	2.44	0.62
41:DU:53:ILE:HD11	41:DU:78:ALA:HB1	1.81	0.62
43:DW:84:TYR:HD2	43:DW:128:ARG:HE	1.04	0.62
1:EA:642:A:C2	8:EH:112:LEU:C	2.54	0.62
3:EC:6:HIS:NE2	3:EC:8:ILE:HB	2.14	0.62
1:EA:15:G:C1'	5:EE:24:ARG:HH22	2.12	0.62
8:EH:59:LEU:HB3	8:EH:61:VAL:HG23	1.80	0.62
12:EL:72:GLY:HA3	12:EL:102:ARG:HH11	1.63	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:EN:4:LYS:HB3	14:EN:7:ILE:HD12	1.81	0.62
52:F6:14:CYS:HB3	52:F6:26:ILE:H	1.64	0.62
22:FB:1517:C:H4'	24:FD:78:LYS:HE3	1.79	0.62
22:FB:2725:C:H42	22:FB:2740:C:H42	1.46	0.62
22:FB:66:U:C4	22:FB:87:G:C2	2.86	0.62
22:FB:2786:G:H4'	25:FE:59:VAL:HG22	1.78	0.62
34:FN:45:SER:C	34:FN:47:GLN:H	2.01	0.62
38:FR:71:LEU:H	38:FR:71:LEU:HD23	1.64	0.62
22:FB:1000:G:C6	46:FZ:10:ILE:HG12	2.34	0.62
1:GA:108:G:C6	20:GT:15:ARG:HD3	2.33	0.62
1:GA:1370:G:N7	9:GI:109:VAL:HG11	2.14	0.62
1:GA:1371:G:H2'	1:GA:1372:U:O4'	1.99	0.62
1:GA:52:G:H1	1:GA:360:A:H1'	1.63	0.62
1:GA:922:G:C4'	5:GE:20:GLN:HA	2.29	0.62
7:GG:14:PRO:HB3	7:GG:21:VAL:HG13	1.81	0.62
1:GA:740:U:H1'	15:GO:46:HIS:CD2	2.35	0.62
19:GS:32:LYS:H	19:GS:32:LYS:HD3	1.63	0.62
1:AA:180:U:C5	20:GT:100:ILE:O	2.44	0.62
52:H6:14:CYS:HB3	52:H6:26:ILE:H	1.64	0.62
22:HB:1074:G:C2	30:HJ:88:SER:HB2	2.32	0.62
22:HB:1750:A:H5'	22:HB:2695:C:H1'	1.81	0.62
1:GA:1495:U:C2'	22:HB:1902:A:H61	2.12	0.62
22:HB:2059:U:H2'	22:HB:2060:A:H5''	1.81	0.62
22:HB:2464:G:C4	34:HN:120:ARG:NH1	2.66	0.62
22:HB:2543:A:N6	22:HB:2625:U:O2'	2.32	0.62
22:HB:3167:U:O4	53:H7:101:LYS:CD	2.43	0.62
22:HB:418:C:H6	53:H7:191:GLU:HG2	1.64	0.62
22:HB:923:A:N3	22:HB:2243:C:H1'	2.13	0.62
22:HB:865:A:N6	22:HB:937:C:H42	1.95	0.62
30:HJ:52:ILE:HG23	30:HJ:53:ILE:H	1.63	0.62
32:HL:118:LEU:HB3	32:HL:126:ILE:HG21	1.80	0.62
1:IA:1512:U:H2'	1:IA:1513:A:C8	2.34	0.62
1:IA:392:G:OP1	16:IP:11:SER:C	2.38	0.62
3:IC:114:PRO:HG3	3:IC:184:TYR:C	2.20	0.62
9:II:6:GLY:N	9:II:84:ALA:HB2	2.14	0.62
10:IJ:49:VAL:HG12	14:IN:45:ARG:HG3	1.81	0.62
13:IM:19:LEU:HB3	13:IM:30:ALA:HA	1.81	0.62
1:IA:635:G:O3'	17:IQ:4:LYS:HA	1.98	0.62
50:J4:23:LYS:H	50:J4:23:LYS:HD2	1.64	0.62
22:JB:1172:U:O2'	39:JS:22:VAL:CG1	2.40	0.62
22:JB:2059:U:H2'	22:JB:2060:A:H5''	1.81	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:JB:3103:A:H4'	53:J7:37:LYS:HD3	1.81	0.62
22:JB:500:G:OP1	22:JB:1297:A:O4'	2.17	0.62
22:JB:892:A:H2'	22:JB:893:G:H5'	1.81	0.62
36:JP:71:VAL:HG12	36:JP:75:LEU:HD12	1.79	0.62
22:JB:1238:A:OP1	39:JS:73:LYS:HE2	1.99	0.62
44:JX:72:LYS:HA	44:JX:72:LYS:HE2	1.81	0.62
1:AA:1374:A:P	7:AG:36:LYS:HZ2	2.22	0.62
1:AA:437:U:O2'	4:AD:119:GLN:CD	2.37	0.62
1:AA:618:C:H42	1:AA:622:A:H62	1.46	0.62
1:AA:979:C:H2'	1:AA:980:C:O4'	1.98	0.62
2:AB:215:LEU:HA	2:AB:218:ALA:HB3	1.79	0.62
9:AI:6:GLY:N	9:AI:84:ALA:HB2	2.14	0.62
7:AG:149:ARG:HD3	11:AK:59:TYR:CE2	2.35	0.62
13:AM:83:ASP:C	13:AM:93:ARG:CD	2.60	0.62
1:AA:1313:U:OP2	19:AS:6:LYS:HG2	1.99	0.62
22:BB:219:G:O6	51:B5:2:PRO:HA	1.98	0.62
51:B5:41:ILE:HG23	51:B5:42:ARG:HG2	1.81	0.62
52:B6:14:CYS:HB3	52:B6:26:ILE:H	1.64	0.62
22:BB:1175:A:C2	22:BB:1198:C:H2'	2.33	0.62
22:BB:1401:G:N1	22:BB:1412:C:C4	2.66	0.62
22:BB:177:U:C5'	47:B1:31:ILE:CD1	2.76	0.62
22:BB:2255:G:C5'	34:BN:86:LYS:HB3	2.29	0.62
22:BB:2503:G:C1'	22:BB:2744:A:N3	2.61	0.62
22:BB:2805:G:H21	22:BB:2811:G:N2	1.97	0.62
22:BB:6:A:C5'	31:BK:162:LYS:CE	2.75	0.62
22:BB:720:A:C6	22:BB:738:G:C1'	2.71	0.62
25:BE:144:ARG:HD2	25:BE:146:THR:N	2.10	0.62
36:BP:38:ILE:HD12	36:BP:71:VAL:HG13	1.80	0.62
44:BX:49:GLN:HE21	44:BX:49:GLN:H	1.48	0.62
1:CA:1080:A:C4'	5:CE:17:ALA:O	2.45	0.62
1:CA:1256:A:N6	3:CC:26:LYS:HZ2	1.97	0.62
1:CA:1393:U:OP1	1:CA:1530:G:OP2	2.17	0.62
1:CA:452:A:H2'	1:CA:453:A:O4'	1.99	0.62
1:CA:761:G:C4	17:CQ:104:LYS:CA	2.80	0.62
1:CA:7:G:H2'	5:CE:119:LEU:HB3	1.81	0.62
19:CS:19:VAL:HG13	19:CS:44:MET:SD	2.39	0.62
51:D5:9:MET:HB2	51:D5:59:LYS:HD3	1.81	0.62
22:DB:1135:C:H4'	52:D6:4:ARG:CG	2.28	0.62
22:DB:127:C:H5'	22:DB:1360:G:H22	1.63	0.62
22:DB:2059:U:H2'	22:DB:2060:A:H5''	1.81	0.62
22:DB:2525:U:H1'	22:DB:2544:A:N1	2.14	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:DB:2627:G:N2	32:DL:27:SER:O	2.32	0.62
27:DG:40:LEU:HD22	27:DG:152:MET:HE1	1.80	0.62
22:DB:507:A:OP2	40:DT:21:ARG:HG2	1.98	0.62
41:DU:71:GLN:HG3	41:DU:72:ARG:H	1.64	0.62
42:DV:90:LYS:HB3	42:DV:108:VAL:HG21	1.80	0.62
43:DW:36:ARG:HA	43:DW:39:PHE:CG	2.34	0.62
45:DY:22:LYS:HD3	45:DY:47:ARG:NE	2.13	0.62
1:EA:618:C:H42	1:EA:622:A:H62	1.47	0.62
1:EA:827:U:H4'	8:EH:19:VAL:HG21	1.81	0.62
1:EA:979:C:H2'	1:EA:980:C:O4'	1.98	0.62
22:FB:1240:G:H2'	22:FB:1241:G:H8	1.65	0.62
22:FB:1827:G:N1	22:FB:1913:G:N2	2.47	0.62
22:FB:538:A:H61	22:FB:2026:C:H5''	1.63	0.62
22:FB:2035:G:H5'	25:FE:142:GLY:N	2.02	0.62
22:FB:2623:A:H2'	22:FB:2624:G:C2	2.34	0.62
22:FB:1750:A:H5''	22:FB:2695:C:H4'	1.81	0.62
22:FB:2714:A:C1'	25:FE:205:SER:CB	2.64	0.62
22:FB:94:C:O4'	45:FY:36:GLN:CB	2.44	0.62
22:FB:742:G:C6	24:FD:208:LYS:HD2	2.34	0.62
25:FE:144:ARG:HD2	25:FE:146:THR:N	2.10	0.62
25:FE:91:VAL:HG22	25:FE:93:VAL:N	2.10	0.62
26:FF:22:VAL:HG13	26:FF:23:ASN:N	2.10	0.62
28:FH:154:PRO:HG2	28:FH:162:VAL:HG12	1.80	0.62
29:FI:1:MET:HE2	47:F1:66:SER:CB	2.26	0.62
29:FI:45:THR:HA	29:FI:49:GLN:HB2	1.81	0.62
34:FN:36:ILE:HA	34:FN:100:PRO:O	1.99	0.62
22:FB:63:A:C5'	41:FU:62:ARG:HD3	2.29	0.62
34:FN:36:ILE:CG1	43:FW:74:ARG:CA	2.70	0.62
1:GA:452:A:H2'	1:GA:453:A:O4'	1.99	0.62
1:GA:371:G:H4'	1:GA:482:A:H5'	1.81	0.62
1:GA:663:A:O3'	18:GR:64:ARG:CZ	2.47	0.62
1:GA:508:C:H4'	4:GD:54:TYR:HB2	1.81	0.62
13:GM:91:ARG:HB2	13:GM:98:VAL:HG22	1.81	0.62
22:HB:2184:C:OP1	47:H1:43:TRP:CE3	2.52	0.62
51:H5:7:HIS:HA	51:H5:10:ALA:CB	2.29	0.62
22:HB:1149:G:OP1	31:HK:55:ALA:O	2.17	0.62
22:HB:2398:U:H4'	49:H3:21:TYR:CZ	2.33	0.62
22:HB:2725:C:H42	22:HB:2740:C:H42	1.46	0.62
22:HB:95:G:H1'	45:HY:45:GLN:NE2	2.05	0.62
24:HD:72:LYS:NZ	24:HD:75:VAL:HG21	2.14	0.62
24:HD:91:ARG:HB2	24:HD:91:ARG:HH21	1.63	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:HB:682:G:H1	26:HF:49:ALA:HB2	1.62	0.62
27:HG:78:LYS:HE2	27:HG:80:ARG:HH22	1.63	0.62
22:HB:2760:G:C5'	31:HK:146:THR:CB	2.60	0.62
22:HB:2848:A:H1'	35:HO:7:GLY:N	2.14	0.62
22:HB:593:C:OP1	38:HR:3:ARG:NH2	2.33	0.62
22:HB:575:U:C4	39:HS:79:GLN:CD	2.72	0.62
1:IA:1186:G:C2'	9:II:113:LYS:HE2	2.26	0.62
8:IH:44:PHE:O	8:IH:64:LYS:HB3	1.99	0.62
1:IA:684:A:C2	11:IK:39:PRO:CG	2.71	0.62
1:IA:520:A:C5'	12:IL:73:GLU:HB3	2.29	0.62
22:JB:15:G:C2'	48:J2:18:MET:SD	2.80	0.62
51:J5:52:LYS:N	51:J5:52:LYS:HE3	2.13	0.62
22:JB:3177:C:O3'	53:J7:161:ASP:C	2.14	0.62
22:JB:50:G:C2	22:JB:117:A:C2	2.87	0.62
22:JB:1263:G:H5'	38:JR:6:THR:CG2	2.29	0.62
22:JB:1385:C:H1'	22:JB:2193:C:C4	2.34	0.62
22:JB:2550:C:O3'	25:JE:144:ARG:HG3	1.99	0.62
22:JB:340:G:H21	22:JB:488:A:N6	1.97	0.62
22:JB:572:G:C4	38:JR:33:ARG:NH2	2.66	0.62
22:JB:1710:U:C2'	24:JD:15:GLN:NE2	2.62	0.62
28:JH:154:PRO:HG2	28:JH:162:VAL:HG12	1.81	0.62
38:JR:54:LYS:HE2	38:JR:93:LYS:NZ	2.14	0.62
43:JW:84:TYR:CD1	43:JW:92:VAL:HG22	2.33	0.62
22:JB:941:U:C1'	46:JZ:24:GLY:H	2.12	0.62
1:AA:1447:A:N1	1:AA:1456:A:H1'	2.14	0.62
1:AA:452:A:H2'	1:AA:453:A:O4'	1.99	0.62
1:AA:520:A:N7	12:AL:49:ASN:CA	2.62	0.62
3:AC:6:HIS:NE2	3:AC:8:ILE:HB	2.14	0.62
1:AA:409:G:OP1	4:AD:22:LYS:HD3	2.00	0.62
1:AA:1081:G:OP1	5:AE:18:ARG:NH1	0.75	0.62
7:AG:149:ARG:NE	11:AK:59:TYR:HH	1.95	0.62
11:AK:91:ARG:HD2	11:AK:91:ARG:H	1.63	0.62
1:AA:668:G:N2	15:AO:46:HIS:CE1	2.61	0.62
19:AS:13:ASP:HA	19:AS:16:LEU:HB2	1.81	0.62
22:BB:2398:U:C3'	51:B5:32:GLN:HA	2.25	0.62
51:B5:7:HIS:HA	51:B5:10:ALA:CB	2.30	0.62
22:BB:1163:C:H2'	22:BB:1164:C:C6	2.35	0.62
1:AA:1476:G:OP1	22:BB:1707:A:H5'	2.00	0.62
22:BB:3877:A:N1	22:BB:1862:C:N3	2.47	0.62
22:BB:2474:G:H5'	34:BN:82:THR:HA	1.80	0.62
22:BB:2525:U:H1'	22:BB:2544:A:C2	2.33	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:BB:2797:G:N3	22:BB:2797:G:H2'	2.14	0.62
22:BB:2768:C:O2	22:BB:2866:A:C2	2.52	0.62
22:BB:319:G:OP2	40:BT:12:LYS:HB3	1.99	0.62
22:BB:533:C:H5''	22:BB:550:C:HO2'	1.61	0.62
22:BB:543:G:C5	22:BB:570:G:C2	2.87	0.62
22:BB:2613:A:HO2'	25:BE:77:ILE:CD1	2.12	0.62
25:BE:91:VAL:HG22	25:BE:93:VAL:N	2.10	0.62
28:BH:97:LYS:HA	28:BH:125:VAL:HG21	1.80	0.62
28:BH:24:PHE:N	28:BH:35:VAL:HG21	2.09	0.62
28:BH:69:ARG:HB3	28:BH:69:ARG:NH1	2.13	0.62
22:BB:6:A:H4'	31:BK:162:LYS:NZ	2.13	0.62
35:BO:58:GLY:HA2	35:BO:63:ARG:HE	1.64	0.62
22:BB:512:A:P	40:BT:16:GLN:HE21	2.18	0.62
22:BB:489:A:OP1	42:BV:4:PRO:HB3	1.99	0.62
34:BN:62:GLY:O	43:BW:112:LEU:HD21	2.00	0.62
43:BW:48:THR:HA	43:BW:65:LEU:HD12	1.81	0.62
22:BB:2365:U:C3'	44:BX:37:LEU:HD11	2.27	0.62
22:BB:2310:G:H5''	44:BX:71:ASN:O	2.00	0.62
1:CA:1408:A:H2	1:CA:1409:C:H41	1.46	0.62
1:CA:252:U:H1'	1:CA:275:G:N2	2.14	0.62
1:CA:391:G:H2'	1:CA:392:G:O4'	1.99	0.62
1:CA:618:C:H42	1:CA:622:A:H62	1.47	0.62
8:CH:96:GLY:H	8:CH:99:GLU:HB2	1.64	0.62
8:CH:9:MET:SD	8:CH:26:VAL:HG21	2.39	0.62
12:CL:83:VAL:HB	12:CL:107:ALA:HB3	1.82	0.62
29:DI:26:ARG:HG2	47:D1:73:LYS:C	2.15	0.62
22:DB:2039:G:H2'	48:D2:5:PRO:HD3	1.75	0.62
51:D5:41:ILE:HG23	51:D5:42:ARG:HG2	1.81	0.62
51:D5:7:HIS:HA	51:D5:10:ALA:CB	2.29	0.62
22:DB:1817:U:OP2	24:DD:222:ARG:O	2.17	0.62
22:DB:589:C:H4'	38:DR:33:ARG:CB	2.29	0.62
25:DE:12:THR:HA	25:DE:21:ILE:O	2.00	0.62
29:DI:45:THR:HA	29:DI:49:GLN:HB2	1.81	0.62
22:DB:2760:G:O4'	31:DK:149:LYS:HD2	1.96	0.62
32:DL:86:GLY:CA	37:DQ:84:ALA:CA	2.73	0.62
1:EA:1136:U:C4	1:IA:1136:U:C1'	2.82	0.62
1:EA:1221:G:H4'	19:ES:53:ASN:O	1.97	0.62
1:EA:238:G:C5'	17:EQ:38:ARG:CZ	2.70	0.62
1:EA:252:U:H1'	1:EA:275:G:N2	2.14	0.62
1:EA:537:G:C4'	12:EL:113:ARG:CZ	2.78	0.62
1:EA:673:G:OP1	6:EF:87:ARG:CZ	2.47	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:EC:28:GLN:HG3	3:EC:32:LEU:HD13	1.81	0.62
10:EJ:3:LYS:HA	10:EJ:75:ILE:HG12	1.80	0.62
1:EA:778:G:N3	11:EK:120:ARG:CB	2.62	0.62
1:EA:778:G:C2	11:EK:120:ARG:HB2	2.34	0.62
3:EC:29:TYR:HB3	14:EN:36:PHE:O	1.99	0.62
1:EA:376:G:C1'	16:EP:28:ARG:NH2	2.62	0.62
1:EA:1456:A:C5'	20:ET:28:ALA:HB2	2.19	0.62
47:F1:57:ASP:HB2	47:F1:60:ASN:HB2	1.81	0.62
51:F5:7:HIS:HA	51:F5:10:ALA:CB	2.29	0.62
22:FB:1163:C:H2'	22:FB:1164:C:C6	2.35	0.62
22:FB:1175:A:H4'	39:FS:89:ASN:HD22	1.60	0.62
22:FB:1140:A:H2	22:FB:2549:G:H4'	1.65	0.62
22:FB:2805:G:H21	22:FB:2811:G:N2	1.97	0.62
23:FA:44:C:H5'	27:FG:66:ILE:CD1	2.29	0.62
27:FG:68:THR:HG22	27:FG:69:LYS:H	1.63	0.62
35:FO:5:LYS:HZ2	35:FO:6:ALA:HB2	1.64	0.62
25:FE:17:ASN:CG	37:FQ:89:ASN:HB2	2.20	0.62
22:FB:1175:A:C4'	39:FS:89:ASN:ND2	2.52	0.62
1:GA:345:C:H5''	1:GA:346:G:N2	2.15	0.62
1:GA:579:G:HO2'	15:GO:54:ARG:CD	2.00	0.62
1:GA:439:A:H4'	4:GD:122:ARG:HH12	1.65	0.62
6:GF:42:GLU:HG2	6:GF:44:GLY:H	1.62	0.62
8:GH:96:GLY:H	8:GH:99:GLU:HB2	1.64	0.62
13:GM:19:LEU:HB3	13:GM:30:ALA:HA	1.82	0.62
1:GA:1114:C:O2	14:GN:60:SER:O	2.17	0.62
19:GS:39:THR:HG23	19:GS:69:HIS:HA	1.80	0.62
22:HB:123:A:OP1	50:H4:14:LYS:CB	2.48	0.62
51:H5:9:MET:HB2	51:H5:59:LYS:HD3	1.81	0.62
22:HB:1805:G:C2	24:HD:52:ARG:CD	2.82	0.62
22:HB:2505:G:O4'	22:HB:2722:C:OP1	2.16	0.62
22:HB:1725:C:O2'	22:HB:2835:A:C1'	2.48	0.62
22:HB:2490:U:N3	25:HE:140:SER:HB2	2.14	0.62
27:HG:11:GLN:NE2	27:HG:12:VAL:HG13	2.14	0.62
31:HK:117:GLU:HA	31:HK:120:SER:HB3	1.81	0.62
22:HB:567:G:H5''	31:HK:73:ASN:HA	1.75	0.62
25:HE:54:LYS:CB	37:HQ:6:LYS:NZ	2.47	0.62
34:HN:65:ILE:HG23	43:HW:112:LEU:HB2	1.80	0.62
1:IA:1408:A:O3'	22:JB:1899:A:N6	2.32	0.62
1:IA:1439:C:OP1	20:IT:38:LYS:HE2	1.78	0.62
1:IA:452:A:H2'	1:IA:453:A:O4'	1.99	0.62
8:IH:39:LEU:HD12	8:IH:45:ILE:HG12	1.81	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:IA:878:G:OP1	8:IH:88:LYS:HD3	1.98	0.62
8:IH:9:MET:SD	8:IH:26:VAL:HG21	2.40	0.62
47:J1:57:ASP:HB2	47:J1:60:ASN:HB2	1.81	0.62
22:JB:1236:G:O6	39:JS:73:LYS:HE3	2.00	0.62
22:JB:114:C:H1'	22:JB:124:A:H1'	1.80	0.62
22:JB:1385:C:H5''	22:JB:2192:U:N3	2.14	0.62
22:JB:2203:G:O2'	22:JB:2204:A:H1'	1.99	0.62
22:JB:3170:A:C4'	53:J7:128:LEU:HD23	2.29	0.62
22:JB:603:C:C4	22:JB:677:G:N1	2.56	0.62
22:JB:73:A:H5'	45:JY:48:ARG:NE	2.14	0.62
22:JB:700:C:H42	22:JB:800:U:H4'	1.64	0.62
22:JB:2372:A:HO2'	33:JM:63:ARG:CZ	2.10	0.62
38:JR:71:LEU:HD23	38:JR:71:LEU:H	1.64	0.62
1:AA:1131:G:OP1	9:AI:3:GLN:OE1	2.17	0.62
1:AA:159:G:H1'	1:AA:162:A:N6	2.14	0.62
1:AA:383:A:H2'	1:AA:384:G:H5'	1.80	0.62
1:AA:391:G:H2'	1:AA:392:G:O4'	1.99	0.62
4:AD:59:ARG:HH12	4:AD:66:ARG:CZ	2.12	0.62
1:AA:564:C:C2'	8:AH:91:ARG:NH2	2.56	0.62
13:AM:88:ARG:HD2	13:AM:92:HIS:CE1	2.33	0.62
13:AM:91:ARG:HB2	13:AM:98:VAL:HG22	1.81	0.62
22:BB:2730:A:H2	52:B6:15:LYS:HE3	1.64	0.62
22:BB:1163:C:C5'	38:BR:80:ILE:HB	2.28	0.62
22:BB:1240:G:H2'	22:BB:1241:G:H8	1.65	0.62
22:BB:1888:C:C4'	22:BB:1889:G:O5'	2.46	0.62
22:BB:2040:A:O2'	48:B2:6:VAL:HG13	2.00	0.62
22:BB:2312:A:H5'	22:BB:2315:A:H61	1.64	0.62
22:BB:2858:A:H5'	48:B2:52:TYR:CE2	2.33	0.62
22:BB:69:G:O3'	22:BB:70:A:O4'	2.11	0.62
22:BB:2006:G:O2'	25:BE:149:ARG:NE	2.32	0.62
22:BB:2284:U:O2	27:BG:40:LEU:HD13	2.00	0.62
22:BB:1091:C:H5'	30:BJ:125:ASN:O	1.99	0.62
34:BN:45:SER:C	34:BN:47:GLN:H	2.01	0.62
37:BQ:55:ILE:H	37:BQ:55:ILE:CD1	2.06	0.62
43:BW:4:THR:HG22	43:BW:57:GLU:HB2	1.81	0.62
22:BB:71:A:H4'	45:BY:51:ALA:CB	2.29	0.62
1:CA:1447:A:N1	1:CA:1456:A:H1'	2.14	0.62
1:CA:375:U:O2'	16:CP:28:ARG:NH2	2.32	0.62
1:CA:383:A:H2'	1:CA:384:G:H5'	1.80	0.62
1:CA:665:A:H2'	1:CA:725:G:N2	2.15	0.62
1:CA:939:G:P	7:CG:102:ARG:NH2	2.71	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:954:G:C8	13:CM:123:ALA:HB1	2.33	0.62
1:CA:979:C:H2'	1:CA:980:C:O4'	1.98	0.62
1:CA:1279:A:P	10:CJ:99:LYS:HZ1	2.15	0.62
11:CK:22:HIS:ND1	11:CK:85:ARG:HB3	2.15	0.62
8:CH:91:ARG:HH21	17:CQ:32:TYR:HB2	1.63	0.62
17:CQ:43:LEU:HB3	17:CQ:69:LYS:NZ	2.14	0.62
1:CA:280:C:N4	17:CQ:88:TYR:CE1	2.68	0.62
1:CA:1313:U:OP2	19:CS:6:LYS:HA	1.99	0.62
22:DB:1163:C:H2'	22:DB:1164:C:C6	2.35	0.62
22:DB:538:A:H61	22:DB:2026:C:H5''	1.63	0.62
22:DB:2457:A:C8	22:DB:2508:G:N7	2.67	0.62
22:DB:2805:G:H21	22:DB:2811:G:N2	1.97	0.62
22:DB:2700:U:N3	22:DB:2848:A:N6	2.12	0.62
22:DB:458:G:OP2	38:DR:3:ARG:CD	2.45	0.62
27:DG:33:LYS:O	27:DG:156:ILE:HG12	1.99	0.62
22:DB:2706:U:O2'	32:DL:80:ALA:HB2	1.99	0.62
33:DM:108:LEU:HB3	33:DM:129:ALA:HB3	1.80	0.62
25:DE:52:ALA:HB3	37:DQ:5:ILE:CG2	2.25	0.62
22:DB:1163:C:O2	38:DR:77:SER:OG	2.17	0.62
23:DA:77:G:C4	43:DW:29:ASN:OD1	2.52	0.62
1:EA:194:C:O2	20:ET:68:LYS:NZ	2.28	0.62
5:EE:72:GLN:HE22	5:EE:145:LYS:N	1.97	0.62
1:EA:1185:G:O2'	9:EI:110:GLU:HB2	1.99	0.62
13:EM:91:ARG:HB2	13:EM:98:VAL:HG22	1.81	0.62
23:FA:77:G:H1	23:FA:105:G:N2	1.97	0.62
22:FB:2059:U:H2'	22:FB:2060:A:H5''	1.81	0.62
22:FB:2393:G:O2'	33:FM:65:PHE:CA	2.47	0.62
22:FB:2733:A:N3	52:F6:15:LYS:CD	2.62	0.62
22:FB:2773:G:O6	22:FB:2779:C:N4	2.32	0.62
22:FB:3178:C:C4'	53:F7:163:PRO:HB3	2.29	0.62
22:FB:1583:A:C4	24:FD:84:TYR:CE1	2.87	0.62
22:FB:2766:U:O2'	25:FE:64:GLN:CD	2.38	0.62
28:FH:69:ARG:HB3	28:FH:69:ARG:NH1	2.13	0.62
22:FB:591:G:C5'	38:FR:11:ARG:NH1	2.61	0.62
22:FB:1234:C:C5'	39:FS:68:LYS:HZ3	2.09	0.62
22:FB:1236:G:O6	39:FS:71:ILE:HG12	1.99	0.62
43:FW:51:LEU:HD11	43:FW:128:ARG:HD2	1.79	0.62
43:FW:48:THR:HA	43:FW:65:LEU:HD12	1.81	0.62
44:FX:49:GLN:H	44:FX:49:GLN:HE21	1.47	0.62
22:FB:864:C:C4'	46:FZ:42:GLY:HA3	2.29	0.62
1:GA:1509:C:H2'	1:GA:1510:U:O4'	1.99	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:GA:932:C:H5''	7:GG:3:ARG:HB2	1.82	0.62
1:GA:15:G:C1'	5:GE:24:ARG:HD3	2.29	0.62
1:GA:276:G:C5'	17:GQ:43:LEU:HD11	2.22	0.62
22:HB:2791:C:H5'	48:H2:42:SER:O	1.99	0.62
22:HB:123:A:OP1	50:H4:14:LYS:HB2	1.97	0.62
22:HB:124:A:H2'	22:HB:125:A:N3	2.14	0.62
22:HB:2343:C:H1'	44:HX:66:LYS:NZ	2.13	0.62
22:HB:2553:G:H22	25:HE:141:ILE:N	1.97	0.62
22:HB:2671:C:C2'	22:HB:2822:U:O2'	2.46	0.62
24:HD:108:PRO:HG3	24:HD:194:GLY:HA3	1.82	0.62
22:HB:777:A:OP1	24:HD:208:LYS:HE2	1.99	0.62
22:HB:1980:A:OP2	25:HE:135:HIS:NE2	2.33	0.62
22:HB:2636:A:OP2	28:HH:181:GLY:OXT	2.18	0.62
30:HJ:106:GLU:HA	30:HJ:109:LYS:HB3	1.81	0.62
32:HL:78:SER:HA	32:HL:90:ARG:HD3	1.81	0.62
23:HA:93:G:C5'	34:HN:23:LYS:HZ3	2.11	0.62
22:HB:470:U:H1'	41:HU:69:ILE:HD11	1.81	0.62
42:HV:90:LYS:HB3	42:HV:108:VAL:HG21	1.80	0.62
1:IA:1371:G:H2'	1:IA:1372:U:O4'	1.99	0.62
1:IA:1509:C:H2'	1:IA:1510:U:O4'	1.99	0.62
1:IA:451:A:H4'	16:IP:72:ARG:NH2	2.15	0.62
1:IA:1057:G:C3'	3:IC:154:SER:HB2	2.21	0.62
1:IA:1205:U:H4'	3:IC:195:VAL:HG23	1.80	0.62
7:IG:17:VAL:HG23	9:II:41:VAL:CG1	2.23	0.62
1:IA:1148:U:C5'	9:II:14:VAL:CG2	2.74	0.62
12:IL:22:SER:C	12:IL:23:LYS:HA	2.18	0.62
22:JB:1240:G:H2'	22:JB:1241:G:H8	1.64	0.62
22:JB:124:A:H2'	22:JB:125:A:N3	2.13	0.62
22:JB:1261:G:C5	26:JF:44:SER:OG	2.51	0.62
22:JB:1483:G:O3'	22:JB:1484:G:P	2.57	0.62
22:JB:2203:G:O2'	22:JB:2204:A:C1'	2.47	0.62
22:JB:2244:C:H3'	22:JB:2245:A:H5''	1.80	0.62
22:JB:2327:U:H5''	49:J3:21:TYR:HE1	1.62	0.62
22:JB:2510:A:O2'	28:JH:157:TYR:CE2	2.51	0.62
28:JH:35:VAL:N	28:JH:36:PRO:HD2	2.15	0.62
23:JA:10:U:C1'	36:JP:49:GLN:CB	2.75	0.62
37:JQ:77:VAL:HG12	37:JQ:78:GLU:HG2	1.81	0.62
41:JU:71:GLN:HG3	41:JU:72:ARG:H	1.64	0.62
45:JY:22:LYS:HD3	45:JY:47:ARG:NE	2.13	0.62
1:AA:968:A:C5	1:AA:1062:U:H4'	2.34	0.62
1:AA:1249:C:H2'	9:AI:69:GLY:HA2	1.82	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:18:C:O3'	5:AE:130:ASN:ND2	2.32	0.62
5:AE:80:ILE:CG2	8:AH:138:TRP:CD2	2.83	0.62
1:AA:1248:A:H1'	9:AI:36:TYR:OH	1.98	0.62
22:BB:1175:A:N1	22:BB:1198:C:O2	2.31	0.62
22:BB:124:A:C5	50:B4:18:PHE:CZ	2.88	0.62
22:BB:1437:A:N9	22:BB:1438:G:N7	2.47	0.62
22:BB:2725:C:H42	22:BB:2740:C:H42	1.46	0.62
22:BB:3124:G:H21	53:B7:209:MSE:CG	2.10	0.62
25:BE:58:LYS:HZ3	25:BE:58:LYS:HB2	1.64	0.62
22:BB:966:A:O2'	34:BN:78:LYS:HE2	2.00	0.62
22:BB:2857:C:OP1	35:BO:96:ARG:HA	1.99	0.62
38:BR:71:LEU:H	38:BR:71:LEU:HD23	1.64	0.62
43:BW:84:TYR:CE1	43:BW:128:ARG:HG3	2.34	0.62
1:CA:1060:C:H5'	10:CJ:52:GLY:CA	2.26	0.62
1:CA:1509:C:H2'	1:CA:1510:U:O4'	1.99	0.62
1:CA:251:G:H4'	1:CA:252:U:OP1	2.00	0.62
1:CA:761:G:H5'	17:CQ:102:GLY:O	1.99	0.62
10:CJ:3:LYS:HA	10:CJ:75:ILE:HG12	1.80	0.62
10:CJ:7:LYS:HG2	10:CJ:9:ARG:HH12	1.63	0.62
11:CK:91:ARG:HD2	11:CK:91:ARG:H	1.63	0.62
1:CA:227:G:N2	16:CP:62:VAL:CG1	2.56	0.62
17:CQ:56:VAL:HG21	17:CQ:84:LEU:HD13	1.82	0.62
19:CS:13:ASP:HA	19:CS:16:LEU:HB2	1.81	0.62
22:DB:1044:U:C6	52:D6:16:VAL:CG1	2.81	0.62
22:DB:1674:C:OP1	25:DE:134:TRP:O	2.17	0.62
22:DB:2075:U:OP1	22:DB:2182:A:N3	2.33	0.62
22:DB:2245:A:H4'	22:DB:2246:A:C5'	2.29	0.62
22:DB:2291:U:H5''	27:DG:85:VAL:CA	2.30	0.62
22:DB:2725:C:H42	22:DB:2740:C:H42	1.46	0.62
22:DB:2745:A:C6	22:DB:2746:G:N9	2.65	0.62
22:DB:3094:A:OP1	29:DI:20:VAL:HA	2.00	0.62
24:DD:91:ARG:HH21	24:DD:91:ARG:HB2	1.63	0.62
28:DH:154:PRO:HG2	28:DH:162:VAL:HG12	1.81	0.62
31:DK:43:VAL:HG22	31:DK:81:VAL:HG21	1.82	0.62
32:DL:132:GLU:OE1	37:DQ:75:GLU:OE1	2.07	0.62
36:DP:38:ILE:HD12	36:DP:71:VAL:HG13	1.80	0.62
22:DB:1240:G:H5''	38:DR:16:LYS:HG2	1.81	0.62
46:DZ:44:VAL:HG23	46:DZ:45:LYS:HD2	1.82	0.62
1:EA:1022:G:C5'	27:JG:179:LYS:HE3	2.02	0.62
1:EA:1228:C:OP1	13:EM:108:ARG:CD	2.47	0.62
1:EA:1408:A:H2	1:EA:1409:C:H41	1.46	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:EA:1447:A:N1	1:EA:1456:A:H1'	2.15	0.62
1:EA:391:G:H2'	1:EA:392:G:O4'	1.99	0.62
1:EA:436:C:O2'	4:ED:157:LEU:HB3	1.99	0.62
6:EF:2:ARG:NH1	15:EO:2:PRO:CG	2.60	0.62
8:EH:114:THR:HG21	8:EH:119:LEU:HB2	1.80	0.62
8:EH:39:LEU:HD12	8:EH:45:ILE:HG12	1.81	0.62
10:EJ:79:ARG:HH12	10:EJ:83:GLU:CB	2.07	0.62
13:EM:19:LEU:HB3	13:EM:30:ALA:HA	1.82	0.62
22:FB:1394:G:C2	22:FB:1588:A:C4	2.84	0.62
22:FB:1825:C:H2'	22:FB:1826:U:C6	2.35	0.62
22:FB:2598:C:H5''	25:FE:152:LYS:HE2	1.80	0.62
22:FB:2786:G:C5'	25:FE:59:VAL:CG1	2.52	0.62
22:FB:409:G:O3'	47:F1:39:VAL:HG11	2.00	0.62
22:FB:777:A:OP2	24:FD:211:ARG:NE	2.31	0.62
22:FB:1516:A:HO2'	24:FD:98:ALA:HB2	1.61	0.62
25:FE:108:SER:HB3	25:FE:162:MET:HA	1.81	0.62
25:FE:12:THR:HA	25:FE:21:ILE:O	2.00	0.62
31:FK:101:THR:HA	31:FK:111:LYS:HG3	1.80	0.62
32:FL:78:SER:HA	32:FL:90:ARG:HD3	1.82	0.62
41:FU:53:ILE:HD11	41:FU:78:ALA:HB1	1.81	0.62
43:FW:134:LEU:HD11	43:FW:152:ILE:HD12	1.80	0.62
22:FB:2311:U:H5'	44:FX:70:ILE:HB	1.80	0.62
1:GA:1512:U:H2'	1:GA:1513:A:C8	2.34	0.62
1:GA:958:A:N6	19:GS:77:THR:HG22	1.99	0.62
3:GC:6:HIS:NE2	3:GC:8:ILE:HB	2.14	0.62
5:GE:78:HIS:CB	8:GH:138:TRP:HZ3	2.08	0.62
8:GH:59:LEU:HB3	8:GH:61:VAL:HG23	1.80	0.62
1:GA:1060:C:OP1	10:GJ:59:SER:CA	2.48	0.62
13:GM:88:ARG:NH2	13:GM:99:ARG:NE	2.47	0.62
17:GQ:43:LEU:HB3	17:GQ:69:LYS:NZ	2.14	0.62
1:GA:958:A:H61	19:GS:77:THR:HA	1.63	0.62
20:GT:88:VAL:HB	20:GT:92:LEU:HB2	1.82	0.62
22:HB:1265:G:OP1	38:HR:14:HIS:NE2	2.32	0.62
22:HB:1321:A:HO2'	50:H4:7:PRO:CG	1.98	0.62
22:HB:1356:G:O2'	22:HB:1613:G:C8	2.52	0.62
22:HB:1685:A:H2'	22:HB:1687:C:C4	2.34	0.62
22:HB:2244:C:H3'	22:HB:2245:A:H5''	1.80	0.62
22:HB:2629:U:H5''	32:HL:29:ILE:CD1	2.07	0.62
22:HB:3188:U:OP1	29:HI:20:VAL:O	2.17	0.62
22:HB:506:G:P	40:HT:82:ASN:O	2.57	0.62
22:HB:887:G:C4	43:HW:167:THR:HG22	2.33	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:HD:246:PRO:HG2	24:HD:247:VAL:N	2.14	0.62
22:HB:2653:A:C4'	32:HL:43:ARG:NH2	2.62	0.62
22:HB:221:A:OP2	33:HM:67:ASN:ND2	2.32	0.62
38:HR:17:VAL:HG21	39:HS:75:LYS:HZ2	1.62	0.62
43:HW:36:ARG:HA	43:HW:39:PHE:CG	2.34	0.62
22:HB:2334:C:H5'	44:HX:21:LEU:CD1	2.28	0.62
1:IA:892:A:O2'	1:IA:1415:G:O3'	2.16	0.62
1:IA:345:C:H5''	1:IA:346:G:N2	2.14	0.62
1:IA:608:A:C2	16:IP:31:LYS:CG	2.82	0.62
1:IA:753:A:N3	8:IH:1:MET:HE2	1.08	0.62
1:IA:968:A:H2'	9:II:128:ARG:CG	2.14	0.62
13:IM:87:TYR:HD1	19:IS:76:PRO:CG	2.11	0.62
15:IO:45:VAL:HG12	15:IO:46:HIS:H	1.65	0.62
19:IS:32:LYS:HD3	19:IS:32:LYS:H	1.63	0.62
22:JB:2722:C:H5'	52:J6:35:ARG:HB3	1.79	0.62
22:JB:1685:A:H2'	22:JB:1687:C:C4	2.34	0.62
22:JB:236:C:O2'	22:JB:632:A:C1'	2.47	0.62
22:JB:2463:G:H5''	34:JN:47:GLN:CG	2.26	0.62
22:JB:2525:U:O2'	22:JB:2545:A:N3	2.32	0.62
22:JB:489:A:N3	42:JV:74:LEU:HD13	2.11	0.62
22:JB:914:C:H2'	22:JB:915:C:C6	2.35	0.62
22:JB:865:A:N6	22:JB:937:C:H42	1.95	0.62
22:JB:704:G:C5'	24:JD:44:ASN:ND2	2.62	0.62
28:JH:97:LYS:HA	28:JH:125:VAL:HG21	1.81	0.62
32:JL:118:LEU:HB3	32:JL:126:ILE:HG21	1.81	0.62
22:JB:1469:U:C3'	35:JO:63:ARG:HH12	2.12	0.62
22:JB:1996:A:C3'	40:JT:116:ILE:C	2.66	0.62
45:JY:46:LEU:HD23	45:JY:49:GLU:HB3	1.81	0.62
1:AA:1299:A:H2'	1:AA:1300:G:H4'	1.82	0.62
1:AA:1428:A:N3	22:BB:1719:G:O2'	2.30	0.62
1:AA:251:G:H4'	1:AA:252:U:OP1	2.00	0.62
1:AA:265:G:N3	17:AQ:64:PRO:HB3	2.15	0.62
1:AA:970:C:N3	13:AM:126:LYS:NZ	2.47	0.62
1:AA:876:G:N2	8:AH:4:ASP:H	1.97	0.62
18:AR:40:LEU:HD22	18:AR:70:ILE:HG12	1.82	0.62
23:BA:42:U:H2'	23:BA:45:C:H41	1.64	0.62
23:BA:78:A:C2	43:BW:22:VAL:CG2	2.62	0.62
22:BB:1236:G:OP1	39:BS:87:ARG:NH1	2.33	0.62
22:BB:1825:C:H2'	22:BB:1826:U:C6	2.35	0.62
22:BB:2059:U:H2'	22:BB:2060:A:H5''	1.81	0.62
22:BB:2245:A:H4'	22:BB:2246:A:C5'	2.29	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:BB:2332:G:H22	44:BX:66:LYS:HE2	1.64	0.62
22:BB:2662:C:H5'	37:BQ:65:SER:OG	1.98	0.62
22:BB:699:G:O2'	50:B4:6:GLN:CG	2.47	0.62
24:BD:253:PRO:HD2	24:BD:255:LYS:HE2	1.80	0.62
28:BH:151:VAL:HG23	28:BH:152:ARG:H	1.63	0.62
31:BK:101:THR:HA	31:BK:111:LYS:HG3	1.80	0.62
32:BL:92:ASP:N	37:BQ:79:ARG:CZ	2.59	0.62
40:BT:102:THR:HG22	40:BT:121:THR:HG22	1.82	0.62
43:BW:98:VAL:HG21	43:BW:168:VAL:HG11	1.82	0.62
1:CA:1299:A:H2'	1:CA:1300:G:H4'	1.82	0.62
1:CA:280:C:C5	17:CQ:88:TYR:OH	2.52	0.62
2:CB:187:LEU:HD13	2:CB:188:ALA:N	2.15	0.62
1:CA:760:G:N7	17:CQ:104:LYS:O	2.33	0.62
6:CF:49:ALA:HB2	18:CR:78:LEU:O	2.00	0.62
22:DB:2039:G:C2	48:D2:4:HIS:HA	2.35	0.62
52:D6:14:CYS:HB3	52:D6:26:ILE:H	1.64	0.62
22:DB:1042:G:C5'	52:D6:8:LYS:HE2	2.24	0.62
22:DB:2445:C:O2	34:DN:120:ARG:CD	2.47	0.62
22:DB:46:C:H2'	22:DB:47:G:O4'	1.99	0.62
43:DW:98:VAL:HG21	43:DW:168:VAL:HG11	1.81	0.62
44:DX:49:GLN:HE21	44:DX:49:GLN:H	1.48	0.62
41:DU:4:TYR:CE1	45:DY:24:GLU:HA	2.34	0.62
45:DY:46:LEU:HD23	45:DY:49:GLU:HB3	1.82	0.62
1:EA:1114:C:H1'	14:EN:61:TRP:CB	2.28	0.62
1:EA:1320:C:C4	19:ES:36:ARG:O	2.52	0.62
1:EA:159:G:H1'	1:EA:162:A:N6	2.14	0.62
1:EA:665:A:H2'	1:EA:725:G:N2	2.15	0.62
1:EA:673:G:C4'	18:ER:75:ILE:HG23	2.30	0.62
7:EG:14:PRO:HB3	7:EG:21:VAL:HG13	1.81	0.62
1:EA:1367:C:C2'	10:EJ:60:ARG:NH2	2.59	0.62
1:EA:632:A:N9	17:EQ:30:PRO:HB3	2.14	0.62
1:EA:1312:G:C8	19:ES:4:SER:CB	2.83	0.62
1:EA:958:A:C2'	19:ES:55:LYS:HZ3	2.11	0.62
22:FB:226:C:C2'	22:FB:2373:C:H1'	2.29	0.62
22:FB:227:G:OP1	22:FB:2372:A:H2	1.82	0.62
22:FB:46:C:H2'	22:FB:47:G:O4'	1.99	0.62
24:FD:213:ARG:HD3	24:FD:219:PRO:HG3	1.81	0.62
30:FJ:106:GLU:HA	30:FJ:109:LYS:HB3	1.81	0.62
23:FA:9:G:H4'	36:FP:32:TYR:CE1	2.34	0.62
36:FP:35:SER:HB3	36:FP:64:LYS:HE2	1.82	0.62
41:FU:71:GLN:HG3	41:FU:72:ARG:H	1.64	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:FW:36:ARG:HA	43:FW:39:PHE:CG	2.34	0.62
43:FW:4:THR:HG22	43:FW:57:GLU:HB2	1.81	0.62
46:FZ:44:VAL:HG23	46:FZ:45:LYS:HD2	1.82	0.62
23:FA:84:G:O2'	46:FZ:46:THR:O	2.09	0.62
1:GA:1239:A:N6	1:GA:1299:A:H62	1.92	0.62
1:GA:815:A:C2	1:GA:1527:C:H1'	2.31	0.62
1:GA:175:C:O2'	20:GT:25:ARG:HG3	2.00	0.62
1:GA:519:C:H3'	1:GA:520:A:C8	2.35	0.62
1:GA:668:G:O4'	15:GO:45:VAL:HG12	1.99	0.62
1:GA:829:G:O2'	2:GB:24:TRP:HH2	1.80	0.62
3:GC:114:PRO:HG3	3:GC:184:TYR:C	2.20	0.62
1:GA:1372:U:OP1	9:GI:71:SER:HB3	1.99	0.62
12:GL:22:SER:O	12:GL:24:VAL:HB	2.00	0.62
12:GL:54:LYS:H	12:GL:54:LYS:HD2	1.64	0.62
49:H3:24:THR:HG21	51:H5:33:ASN:CG	2.19	0.62
22:HB:2487:G:H5''	22:HB:2534:U:C4'	2.29	0.62
22:HB:6:A:N6	22:HB:2870:C:H42	1.98	0.62
22:HB:612:G:C4'	22:HB:613:A:H4'	2.27	0.62
27:HG:125:ARG:HH22	27:HG:161:LYS:HE3	1.65	0.62
28:HH:35:VAL:N	28:HH:36:PRO:HD2	2.15	0.62
31:HK:101:THR:HA	31:HK:111:LYS:HG3	1.81	0.62
32:HL:119:ARG:NH2	37:HQ:43:ASN:O	2.29	0.62
37:HQ:70:LYS:N	37:HQ:71:ILE:HD12	2.07	0.62
1:IA:1314:C:N4	19:IS:4:SER:HG	1.94	0.62
1:IA:1358:U:O3'	14:IN:31:ARG:C	2.38	0.62
1:IA:519:C:H3'	1:IA:520:A:C8	2.35	0.62
1:IA:635:G:O2'	17:IQ:3:LYS:C	2.38	0.62
3:IC:6:HIS:NE2	3:IC:8:ILE:HB	2.14	0.62
5:IE:72:GLN:HE22	5:IE:145:LYS:N	1.98	0.62
7:IG:145:ALA:HA	7:IG:148:ASN:HB2	1.81	0.62
1:IA:654:G:O2'	8:IH:1:MET:C	2.38	0.62
11:IK:18:ARG:HA	11:IK:81:ASP:HB3	1.80	0.62
10:IJ:46:ARG:HD2	14:IN:59:ALA:HB1	1.82	0.62
22:JB:1040:A:O2'	34:JN:125:LYS:NZ	2.27	0.62
22:JB:1742:G:H5''	37:JQ:123:ARG:NH1	2.13	0.62
22:JB:2373:C:H5''	33:JM:63:ARG:HB2	1.80	0.62
22:JB:2814:G:C4'	35:JO:45:ARG:HG2	2.29	0.62
22:JB:644:A:O2'	22:JB:2383:C:C4'	2.46	0.62
22:JB:759:C:H4'	40:JT:111:ARG:HD3	1.80	0.62
23:JA:117:G:H1'	36:JP:41:GLN:NE2	2.14	0.62
22:JB:1200:G:O3'	39:JS:83:ARG:HG2	1.97	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:919:A:H1'	1:AA:1079:G:N1	2.14	0.62
1:AA:135:C:O2	16:AP:1:MET:N	2.31	0.62
1:AA:1371:G:H2'	1:AA:1372:U:O4'	1.99	0.62
1:AA:252:U:H1'	1:AA:275:G:N2	2.14	0.62
1:AA:323:U:H4'	20:AT:22:ARG:CD	2.29	0.62
1:AA:665:A:H2'	1:AA:725:G:N2	2.15	0.62
22:BB:701:U:P	50:B4:2:LYS:HB2	2.39	0.62
51:B5:34:THR:HA	51:B5:36:LYS:HZ1	1.65	0.62
22:BB:115:G:C8	22:BB:117:A:C8	2.88	0.62
22:BB:1312:G:H1'	22:BB:1659:G:N2	2.14	0.62
22:BB:1508:G:P	24:BD:100:GLY:C	2.77	0.62
22:BB:1992:G:H5''	40:BT:62:ARG:HB2	1.82	0.62
22:BB:224:G:H1'	22:BB:229:G:N2	2.13	0.62
22:BB:2573:C:H42	24:BD:237:GLU:HG3	1.63	0.62
22:BB:2767:C:H4'	25:BE:60:ASN:O	1.98	0.62
22:BB:2769:C:H2'	22:BB:2867:G:N1	2.15	0.62
22:BB:887:G:C3'	43:BW:148:THR:HG21	2.29	0.62
24:BD:46:ARG:HG3	24:BD:47:GLY:N	2.13	0.62
22:BB:2797:G:P	25:BE:110:GLY:CA	2.86	0.62
27:BG:78:LYS:HE2	27:BG:80:ARG:HH22	1.63	0.62
30:BJ:52:ILE:HG23	30:BJ:53:ILE:H	1.64	0.62
1:AA:339:C:O3'	32:BL:109:ARG:CZ	2.48	0.62
32:BL:78:SER:HA	32:BL:90:ARG:HD3	1.81	0.62
34:BN:67:ILE:HG13	34:BN:102:ARG:HA	1.80	0.62
22:BB:827:C:C5'	39:BS:84:THR:H	1.77	0.62
22:BB:760:U:O4'	40:BT:111:ARG:HB2	2.00	0.62
22:BB:511:A:N3	40:BT:12:LYS:O	2.32	0.62
43:BW:36:ARG:HA	43:BW:39:PHE:CG	2.34	0.62
46:BZ:44:VAL:HG23	46:BZ:45:LYS:HD2	1.82	0.62
1:CA:1226:C:H41	13:CM:104:ARG:HE	0.63	0.62
1:CA:1229:A:C5	13:CM:120:LYS:CB	2.71	0.62
1:CA:1238:A:H2	1:CA:1241:G:H1'	1.65	0.62
1:CA:1512:U:H2'	1:CA:1513:A:C8	2.34	0.62
1:CA:345:C:H5''	1:CA:346:G:N2	2.15	0.62
1:CA:523:A:N1	12:CL:90:VAL:HA	2.15	0.62
1:CA:613:C:H5'	4:CD:86:LYS:HE3	1.80	0.62
3:CC:119:ARG:HG2	3:CC:123:GLN:NE2	2.15	0.62
5:CE:72:GLN:HE22	5:CE:145:LYS:N	1.98	0.62
8:CH:44:PHE:O	8:CH:64:LYS:HB3	1.99	0.62
8:CH:88:LYS:HD2	8:CH:88:LYS:H	1.65	0.62
1:CA:43:C:H3'	16:CP:12:LYS:NZ	2.13	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:DB:475:U:H5''	50:D4:5:TYR:CB	2.29	0.62
22:DB:2326:C:OP2	51:D5:35:GLY:O	2.18	0.62
22:DB:930:A:H1'	23:DA:82:U:HO2'	1.63	0.62
22:DB:1825:C:H2'	22:DB:1826:U:C6	2.35	0.62
22:DB:224:G:H1'	22:DB:229:G:N2	2.13	0.62
22:DB:2351:G:O2'	49:D3:47:HIS:CE1	2.52	0.62
24:DD:72:LYS:NZ	24:DD:75:VAL:HG11	2.15	0.62
22:DB:1675:C:H3'	25:DE:134:TRP:CH2	2.35	0.62
28:DH:97:LYS:HA	28:DH:125:VAL:HG21	1.81	0.62
34:DN:36:ILE:HA	34:DN:100:PRO:O	1.99	0.62
34:DN:45:SER:C	34:DN:47:GLN:H	2.02	0.62
22:DB:1289:A:N1	35:DO:23:ALA:HB1	2.13	0.62
37:DQ:77:VAL:HG12	37:DQ:78:GLU:HG2	1.81	0.62
1:EA:52:G:H1	1:EA:360:A:H1'	1.64	0.62
1:EA:586:C:HO2'	8:EH:89:PRO:HG2	1.63	0.62
1:EA:599:C:C4'	8:EH:97:VAL:O	2.30	0.62
8:EH:9:MET:SD	8:EH:26:VAL:HG21	2.40	0.62
1:EA:1311:G:N7	19:ES:2:PRO:O	2.32	0.62
22:FB:1041:G:N2	52:F6:5:SER:HA	2.15	0.62
22:FB:2313:G:O2'	36:FP:15:ARG:HD2	2.00	0.62
22:FB:1949:A:H2	22:FB:2571:G:H2'	1.64	0.62
22:FB:2578:G:N7	24:FD:236:GLY:CA	2.54	0.62
22:FB:528:G:P	40:FT:36:ARG:HA	2.39	0.62
22:FB:547:U:C2	31:FK:71:THR:HG23	2.30	0.62
22:FB:914:C:H2'	22:FB:915:C:C6	2.35	0.62
22:FB:2056:C:C5'	24:FD:228:PRO:O	2.47	0.62
22:FB:2283:G:C4	27:FG:153:ASP:OD1	2.52	0.62
32:FL:112:GLY:HA2	37:FQ:75:GLU:HB3	1.80	0.62
43:FW:98:VAL:HG21	43:FW:168:VAL:HG11	1.82	0.62
1:GA:1408:A:H2	1:GA:1409:C:H41	1.46	0.62
1:GA:401:C:P	4:GD:73:ARG:HE	2.21	0.62
1:GA:864:A:O2'	1:GA:1078:U:C2	2.50	0.62
1:GA:927:G:N2	1:GA:1532:U:C3'	2.61	0.62
3:GC:57:ILE:HA	3:GC:66:VAL:HA	1.80	0.62
6:GF:37:VAL:HG12	6:GF:38:GLU:H	1.63	0.62
7:GG:44:TYR:CZ	9:GI:41:VAL:CG2	2.72	0.62
10:GJ:51:ARG:CB	14:GN:45:ARG:NH1	2.61	0.62
50:H4:23:LYS:HD2	50:H4:23:LYS:H	1.64	0.62
23:HA:42:U:H2'	23:HA:45:C:H41	1.64	0.62
22:HB:1240:G:H2'	22:HB:1241:G:H8	1.65	0.62
22:HB:1566:G:C2	22:HB:1567:A:N7	2.67	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:HB:923:A:H1'	22:HB:2243:C:H4'	1.81	0.62
22:HB:2572:U:H2'	22:HB:2573:C:O4'	2.00	0.62
22:HB:483:A:C2'	22:HB:484:G:H5'	2.30	0.62
22:HB:503:G:H2'	22:HB:504:G:C8	2.34	0.62
22:HB:506:G:C4'	40:HT:82:ASN:O	2.46	0.62
22:HB:818:G:C5'	33:HM:41:SER:HA	2.29	0.62
22:HB:891:A:C2	22:HB:893:G:C6	2.70	0.62
22:HB:914:C:H2'	22:HB:915:C:C6	2.35	0.62
22:HB:918:A:H5'	43:HW:118:HIS:CG	2.26	0.62
24:HD:121:PRO:HG3	24:HD:131:LEU:HA	1.81	0.62
22:HB:1806:G:C4'	24:HD:52:ARG:NH1	2.62	0.62
27:HG:111:ILE:HB	27:HG:114:PHE:CG	2.35	0.62
33:HM:75:VAL:HG22	33:HM:77:LEU:H	1.65	0.62
22:HB:2826:C:HO2'	35:HO:61:HIS:N	1.94	0.62
22:HB:825:C:C5'	38:HR:13:ARG:HH22	2.13	0.62
44:HX:49:GLN:H	44:HX:49:GLN:HE21	1.48	0.62
1:IA:1194:U:C5'	5:IE:23:GLY:N	2.62	0.62
1:IA:1359:C:H5'	14:IN:31:ARG:CG	2.06	0.62
1:IA:159:G:H1'	1:IA:162:A:N6	2.14	0.62
1:IA:579:G:C1'	15:IO:54:ARG:HH21	2.12	0.62
1:IA:877:C:O3'	8:IH:88:LYS:CD	2.46	0.62
7:IG:115:ARG:HD3	7:IG:115:ARG:H	1.63	0.62
15:IO:62:GLN:HE22	15:IO:66:LEU:HG	1.63	0.62
18:IR:40:LEU:HD22	18:IR:70:ILE:HG12	1.82	0.62
50:J4:8:ASN:ND2	50:J4:10:ARG:HE	1.97	0.62
22:JB:1007:A:H5''	38:JR:93:LYS:CG	2.29	0.62
22:JB:109:A:N3	45:JY:58:ALA:HB3	2.15	0.62
22:JB:1149:G:OP1	31:JK:132:PHE:CD1	2.52	0.62
1:IA:1483:A:N1	22:JB:1943:A:C1'	2.59	0.62
22:JB:2338:C:C5'	51:J5:50:LEU:HD22	2.30	0.62
22:JB:1950:C:H4'	22:JB:2571:G:H5''	1.82	0.62
22:JB:2572:U:H2'	22:JB:2573:C:O4'	2.00	0.62
22:JB:2679:G:H2'	22:JB:2680:U:H5''	1.80	0.62
22:JB:576:A:H5'	33:JM:40:ARG:CZ	2.29	0.62
22:JB:593:C:H2'	26:JF:75:PRO:O	1.99	0.62
22:JB:75:C:C2'	45:JY:56:VAL:HG13	2.29	0.62
24:JD:91:ARG:HB2	24:JD:91:ARG:HH21	1.64	0.62
22:JB:2491:C:C1'	25:JE:141:ILE:HG23	2.25	0.62
27:JG:125:ARG:HH22	27:JG:161:LYS:HE3	1.65	0.62
33:JM:75:VAL:HG22	33:JM:77:LEU:H	1.65	0.62
22:JB:1470:G:C8	35:JO:60:LEU:HD13	2.33	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:JR:87:ASN:HD22	39:JS:50:ASP:HB3	1.60	0.62
44:JX:49:GLN:HE21	44:JX:49:GLN:H	1.48	0.62
1:AA:1060:C:H5'	10:AJ:51:ARG:C	2.20	0.62
1:AA:1220:G:N2	19:AS:54:GLY:HA3	2.14	0.62
1:AA:1230:C:O2	13:AM:125:ARG:CZ	2.48	0.62
1:AA:1238:A:H2	1:AA:1241:G:H1'	1.65	0.62
1:AA:1372:U:C5'	9:AI:71:SER:HB3	2.29	0.62
1:AA:692:U:O4	11:AK:52:GLY:C	2.38	0.62
4:AD:201:GLN:HE22	5:AE:100:VAL:HG23	1.65	0.62
6:AF:37:VAL:HG12	6:AF:38:GLU:H	1.63	0.62
8:AH:9:MET:SD	8:AH:26:VAL:HG21	2.40	0.62
11:AK:22:HIS:ND1	11:AK:85:ARG:HB3	2.15	0.62
1:AA:741:G:C2'	15:AO:51:HIS:C	2.64	0.62
15:AO:62:GLN:HE22	15:AO:66:LEU:HG	1.63	0.62
1:AA:958:A:C4	19:AS:56:GLN:CD	2.73	0.62
22:BB:2591:C:O2	48:B2:4:HIS:HA	2.00	0.62
22:BB:700:C:C5'	50:B4:4:THR:CA	2.76	0.62
51:B5:34:THR:HA	51:B5:36:LYS:NZ	2.14	0.62
33:BM:58:ALA:CA	51:B5:9:MET:HG3	2.30	0.62
22:BB:1460:G:N2	22:BB:1481:U:H3	1.96	0.62
22:BB:1790:G:OP2	24:BD:258:LYS:HB2	2.00	0.62
22:BB:1883:A:C8	22:BB:1953:A:N7	2.67	0.62
22:BB:2047:C:H1'	22:BB:2429:A:N6	2.15	0.62
22:BB:2815:C:H1'	35:BO:91:PRO:HB3	1.82	0.62
22:BB:2863:U:O2	48:B2:30:LEU:CD2	2.48	0.62
22:BB:46:C:H2'	22:BB:47:G:O4'	1.99	0.62
22:BB:568:G:C5	22:BB:569:C:N3	2.68	0.62
22:BB:79:G:H4'	22:BB:356:A:N3	2.15	0.62
22:BB:875:G:H2'	22:BB:876:A:C8	2.35	0.62
25:BE:108:SER:HB3	25:BE:162:MET:HA	1.81	0.62
22:BB:2753:C:P	25:BE:164:ARG:HG2	2.40	0.62
25:BE:12:THR:HA	25:BE:21:ILE:O	2.00	0.62
27:BG:111:ILE:HB	27:BG:114:PHE:CG	2.35	0.62
22:BB:1080:A:C5'	30:BJ:11:GLN:OE1	2.47	0.62
32:BL:118:LEU:HB3	32:BL:126:ILE:HG21	1.81	0.62
34:BN:36:ILE:HA	34:BN:100:PRO:O	2.00	0.62
22:BB:2813:G:C5'	35:BO:8:ARG:NH1	2.55	0.62
43:BW:67:LYS:CG	43:BW:128:ARG:NH1	2.62	0.62
43:BW:49:THR:HG1	43:BW:132:GLN:CD	1.72	0.62
22:BB:2364:C:O2	44:BX:69:PHE:CZ	2.51	0.62
44:BX:72:LYS:HA	44:BX:72:LYS:HE2	1.81	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:1319:A:H5'	19:CS:70:LYS:HE2	1.81	0.62
1:CA:52:G:H1	1:CA:360:A:H1'	1.64	0.62
1:CA:968:A:C5	1:CA:1062:U:H4'	2.34	0.62
15:CO:29:VAL:HG22	15:CO:62:GLN:HG3	1.82	0.62
51:D5:34:THR:HA	51:D5:36:LYS:NZ	2.14	0.62
22:DB:1078:A:H2	30:DJ:26:ALA:CB	2.13	0.62
22:DB:1150:C:OP1	31:DK:51:LEU:CA	2.48	0.62
22:DB:1468:A:H61	35:DO:58:GLY:HA3	1.65	0.62
22:DB:2047:C:H1'	22:DB:2429:A:N6	2.15	0.62
22:DB:2773:G:H1'	22:DB:2780:A:C2'	2.28	0.62
22:DB:465:C:N4	50:D4:39:ARG:HH11	1.91	0.62
22:DB:503:G:H1'	40:DT:28:ALA:HB1	1.81	0.62
22:DB:512:A:H4'	40:DT:15:LYS:CD	2.27	0.62
22:DB:575:U:C5	39:DS:80:TYR:C	2.72	0.62
22:DB:82:G:N2	22:DB:101:A:H62	1.98	0.62
22:DB:852:U:H1'	22:DB:1205:G:H1'	1.82	0.62
22:DB:875:G:H2'	22:DB:876:A:C8	2.35	0.62
27:DG:125:ARG:HH22	27:DG:161:LYS:HE3	1.64	0.62
22:DB:227:G:O3'	33:DM:55:ARG:NH1	2.33	0.62
34:DN:30:PHE:CA	43:DW:119:ASN:OD1	2.48	0.62
22:DB:497:C:O2'	40:DT:77:ALA:O	2.17	0.62
22:DB:887:G:OP2	43:DW:167:THR:HB	1.99	0.62
1:EA:1238:A:H2	1:EA:1241:G:H1'	1.65	0.62
1:EA:1512:U:H2'	1:EA:1513:A:C8	2.34	0.62
1:EA:251:G:H4'	1:EA:252:U:OP1	2.00	0.62
1:EA:345:C:H5''	1:EA:346:G:N2	2.15	0.62
1:EA:436:C:O2	4:ED:157:LEU:HD13	2.00	0.62
1:EA:125:U:C4'	1:EA:605:U:O2'	2.48	0.62
1:EA:779:C:H2'	1:EA:780:A:C8	2.35	0.62
1:EA:958:A:C6	19:ES:56:GLN:NE2	2.67	0.62
5:EE:50:GLU:HB2	5:EE:53:LEU:HG	1.82	0.62
7:EG:16:LEU:CD1	9:EI:41:VAL:O	2.47	0.62
12:EL:83:VAL:HB	12:EL:107:ALA:HB3	1.82	0.62
1:EA:1311:G:N7	19:ES:2:PRO:N	2.48	0.62
22:FB:1043:A:C5'	52:F6:23:VAL:CG2	2.78	0.62
22:FB:1049:C:N3	22:FB:1129:A:N1	2.47	0.62
22:FB:1266:G:N1	38:FR:37:GLN:CD	2.52	0.62
22:FB:1586:A:C6	22:FB:1587:A:N3	2.68	0.62
22:FB:1312:G:H1'	22:FB:1659:G:N2	2.14	0.62
22:FB:2245:A:H4'	22:FB:2246:A:C5'	2.29	0.62
22:FB:2628:C:H1'	32:FL:28:GLY:CA	2.26	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:FB:2701:A:H2'	35:FO:5:LYS:HZ3	1.64	0.62
22:FB:3171:A:H4'	22:FB:3172:U:H5'	1.82	0.62
22:FB:892:A:H2'	22:FB:893:G:H5'	1.82	0.62
22:FB:2577:A:C5'	24:FD:235:GLY:HA3	2.28	0.62
1:EA:771:G:H21	24:FD:5:LYS:HD2	1.64	0.62
22:FB:2752:C:H5'	25:FE:166:THR:OG1	1.99	0.62
22:FB:1468:A:H61	35:FO:58:GLY:HA3	1.63	0.62
1:GA:17:U:H5''	5:GE:14:ARG:HG3	1.82	0.62
1:GA:824:C:H1'	8:GH:2:LEU:CB	2.29	0.62
12:GL:83:VAL:HB	12:GL:107:ALA:HB3	1.82	0.62
18:GR:40:LEU:HD22	18:GR:70:ILE:HG12	1.82	0.62
51:H5:34:THR:HA	51:H5:36:LYS:NZ	2.14	0.62
22:HB:215:G:H1'	22:HB:618:A:C4'	2.29	0.62
22:HB:2245:A:H4'	22:HB:2246:A:H5'	1.81	0.62
22:HB:2805:G:H21	22:HB:2811:G:N2	1.96	0.62
26:HF:87:LYS:HG3	26:HF:88:PRO:HD2	1.81	0.62
28:HH:154:PRO:HG2	28:HH:162:VAL:HG12	1.81	0.62
37:HQ:63:ARG:HA	37:HQ:63:ARG:HE	1.64	0.62
38:HR:71:LEU:HD23	38:HR:71:LEU:H	1.64	0.62
22:HB:1325:U:C6	41:HU:61:LYS:HD2	2.35	0.62
44:HX:72:LYS:HA	44:HX:72:LYS:HE2	1.81	0.62
1:IA:260:G:C6	20:IT:83:ARG:NH2	2.68	0.62
1:IA:599:C:H5''	8:IH:97:VAL:HG12	1.81	0.62
1:IA:684:A:C1'	11:IK:39:PRO:CG	2.76	0.62
1:IA:718:G:O6	18:IR:81:PHE:CD2	2.52	0.62
4:ID:10:ARG:HH22	4:ID:66:ARG:NH1	1.98	0.62
1:IA:597:G:H1	8:IH:115:SER:HB3	1.65	0.62
17:IQ:56:VAL:HG21	17:IQ:84:LEU:HD13	1.82	0.62
49:J3:10:VAL:HB	49:J3:28:ARG:HD2	1.80	0.62
49:J3:10:VAL:HG13	49:J3:26:LYS:HB3	1.82	0.62
51:J5:9:MET:HB2	51:J5:59:LYS:HD3	1.81	0.62
22:JB:1309:G:H2'	22:JB:1310:C:H6	1.65	0.62
22:JB:1460:G:N2	22:JB:1481:U:H3	1.96	0.62
22:JB:2490:U:H4'	25:JE:124:GLY:N	2.13	0.62
22:JB:1750:A:H5'	22:JB:2695:C:HO2'	1.64	0.62
22:JB:297:A:N6	22:JB:366:U:H3	1.97	0.62
22:JB:491:A:N9	42:JV:53:VAL:CG1	2.63	0.62
22:JB:503:G:H2'	22:JB:504:G:C8	2.34	0.62
22:JB:612:G:C4'	22:JB:613:A:H4'	2.27	0.62
26:JF:87:LYS:HG3	26:JF:88:PRO:HD2	1.81	0.62
33:JM:110:ALA:N	33:JM:129:ALA:HB2	2.14	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:JN:36:ILE:HA	34:JN:100:PRO:O	1.99	0.62
43:JW:48:THR:HA	43:JW:65:LEU:HD12	1.81	0.62
43:JW:66:VAL:N	43:JW:93:GLU:OE1	2.32	0.62
22:JB:93:A:C2	45:JY:41:HIS:CD2	2.88	0.62
1:AA:1197:G:H2'	1:AA:1198:G:C8	2.35	0.62
1:AA:126:G:H5''	1:AA:604:G:H21	1.65	0.62
1:AA:1351:U:H5'	7:AG:33:ASP:OD1	1.99	0.62
1:AA:1512:U:H2'	1:AA:1513:A:C8	2.34	0.62
1:AA:518:C:N4	12:AL:47:LYS:CG	2.53	0.62
3:AC:119:ARG:HG2	3:AC:123:GLN:NE2	2.15	0.62
3:AC:114:PRO:HG3	3:AC:184:TYR:C	2.20	0.62
4:AD:10:ARG:HH22	4:AD:66:ARG:NH1	1.98	0.62
1:AA:1298:C:H41	7:AG:115:ARG:CD	2.12	0.62
8:AH:112:LEU:HD22	8:AH:133:LEU:HA	1.80	0.62
8:AH:88:LYS:HD2	8:AH:88:LYS:H	1.65	0.62
22:BB:1142:G:C8	31:BK:110:LEU:HB3	2.35	0.62
22:BB:166:G:H1'	22:BB:184:A:N6	2.14	0.62
22:BB:2343:C:O2'	44:BX:66:LYS:CD	2.48	0.62
22:BB:2473:G:H2'	22:BB:2474:G:H8	1.65	0.62
22:BB:2503:G:O4'	22:BB:2744:A:N3	2.33	0.62
22:BB:1726:C:O2'	22:BB:2833:C:C2	2.53	0.62
22:BB:106:G:O2'	22:BB:358:C:C2	2.51	0.62
22:BB:533:C:H5'	22:BB:550:C:O2'	2.00	0.62
22:BB:82:G:N2	22:BB:101:A:H62	1.98	0.62
22:BB:892:A:H2'	22:BB:893:G:H5'	1.81	0.62
24:BD:108:PRO:HG3	24:BD:194:GLY:HA3	1.82	0.62
28:BH:154:PRO:HB3	28:BH:160:LYS:HG2	1.82	0.62
1:CA:15:G:N2	1:CA:1080:A:O3'	2.32	0.62
1:CA:599:C:C4'	8:CH:130:GLY:O	2.48	0.62
1:CA:629:G:N2	1:CA:631:G:H22	1.98	0.62
1:CA:275:G:C4'	17:CQ:15:MET:HG3	2.27	0.62
1:CA:273:A:C5	17:CQ:16:GLN:OE1	2.53	0.62
23:DA:52:G:OP1	36:DP:65:THR:CB	2.48	0.62
22:DB:1460:G:N2	22:DB:1481:U:H3	1.96	0.62
22:DB:166:G:H1'	22:DB:184:A:N6	2.14	0.62
22:DB:2473:G:H2'	22:DB:2474:G:H8	1.65	0.62
22:DB:2752:C:O2'	25:DE:164:ARG:CB	2.40	0.62
22:DB:3093:C:C4'	29:DI:21:LYS:CA	1.90	0.62
24:DD:46:ARG:HG3	24:DD:47:GLY:N	2.13	0.62
27:DG:111:ILE:HB	27:DG:114:PHE:CG	2.35	0.62
28:DH:154:PRO:HB3	28:DH:160:LYS:HG2	1.82	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:DK:117:GLU:HA	31:DK:120:SER:HB3	1.81	0.62
35:DO:45:ARG:HH22	35:DO:94:TYR:H	1.46	0.62
22:DB:546:A:O4'	38:DR:57:PHE:HE1	1.82	0.62
34:DN:27:TYR:CE2	43:DW:72:ASP:O	2.53	0.62
44:DX:72:LYS:HE2	44:DX:72:LYS:HA	1.81	0.62
1:EA:1197:G:H2'	1:EA:1198:G:C8	2.35	0.62
1:EA:1299:A:H2'	1:EA:1300:G:H4'	1.82	0.62
1:EA:561:U:O3'	1:EA:562:C:P	2.58	0.62
1:EA:629:G:N2	1:EA:631:G:H22	1.98	0.62
1:EA:928:G:H4'	1:EA:1533:C:C4	2.35	0.62
2:EB:149:LEU:HB3	2:EB:153:ARG:HG3	1.82	0.62
1:EA:640:A:H2	8:EH:129:VAL:HA	0.85	0.62
1:EA:780:A:O4'	11:EK:120:ARG:NH2	2.33	0.62
23:FA:42:U:H2'	23:FA:45:C:H41	1.64	0.62
22:FB:852:U:H1'	22:FB:1205:G:H1'	1.82	0.62
22:FB:166:G:H1'	22:FB:184:A:N6	2.14	0.62
22:FB:219:G:H5'	51:F5:62:LEU:HD13	1.79	0.62
22:FB:2240:C:C5'	22:FB:2366:U:O2'	2.46	0.62
22:FB:2047:C:H1'	22:FB:2429:A:N6	2.15	0.62
22:FB:2464:G:C4'	34:FN:122:ALA:C	2.63	0.62
22:FB:2473:G:H2'	22:FB:2474:G:H8	1.65	0.62
22:FB:1516:A:H1'	24:FD:98:ALA:HA	1.80	0.62
26:FF:19:LEU:HD21	26:FF:109:ALA:HA	1.81	0.62
27:FG:33:LYS:O	27:FG:156:ILE:HG12	1.99	0.62
28:FH:35:VAL:N	28:FH:36:PRO:HD2	2.14	0.62
1:EA:1433:A:H4'	37:FQ:116:ARG:NH1	2.15	0.62
38:FR:47:TYR:CB	39:FS:75:LYS:N	2.62	0.62
1:GA:1237:C:H3'	1:GA:1238:A:H5'	1.80	0.62
1:GA:1248:A:H1'	9:GI:70:LYS:HZ1	1.62	0.62
1:GA:159:G:H1'	1:GA:162:A:N6	2.14	0.62
1:GA:147:G:C6	1:GA:176:C:H1'	2.35	0.62
8:GH:88:LYS:H	8:GH:88:LYS:HD2	1.65	0.62
3:GC:60:ALA:C	10:GJ:92:THR:HG23	2.17	0.62
1:GA:740:U:C1'	15:GO:42:HIS:ND1	2.54	0.62
22:HB:2329:C:C5'	51:H5:42:ARG:CD	2.76	0.62
22:HB:1460:G:N2	22:HB:1481:U:H3	1.96	0.62
22:HB:1486:A:C6	22:HB:1536:G:C4	2.87	0.62
22:HB:1856:U:N3	22:HB:3865:A:C6	2.68	0.62
22:HB:2526:U:C4	22:HB:2545:A:N6	2.68	0.62
22:HB:2594:U:C4	48:H2:9:LYS:CE	2.83	0.62
22:HB:297:A:N6	22:HB:366:U:H3	1.97	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:HB:48:A:C2	22:HB:153:A:N7	2.68	0.62
22:HB:575:U:O4	39:HS:79:GLN:HG3	2.00	0.62
22:HB:647:G:N7	33:HM:128:ALA:CB	2.57	0.62
22:HB:66:U:C6	22:HB:87:G:N2	2.68	0.62
22:HB:892:A:H2'	22:HB:893:G:H5'	1.81	0.62
24:HD:151:LYS:HG3	24:HD:152:GLY:H	1.65	0.62
22:HB:1075:C:H5'	30:HJ:84:ILE:HG23	1.74	0.62
34:HN:36:ILE:HA	34:HN:100:PRO:O	2.00	0.62
34:HN:67:ILE:HG13	34:HN:102:ARG:HA	1.80	0.62
35:HO:58:GLY:HA2	35:HO:63:ARG:HE	1.64	0.62
25:HE:52:ALA:HB3	37:HQ:5:ILE:HD11	1.81	0.62
22:HB:572:G:N2	38:HR:33:ARG:NH1	2.42	0.62
22:HB:1247:U:C6	40:HT:11:LYS:HE2	2.34	0.62
41:HU:71:GLN:HG3	41:HU:72:ARG:H	1.64	0.62
34:HN:68:ARG:CZ	43:HW:117:VAL:CG1	2.78	0.62
22:HB:887:G:C4'	43:HW:170:SER:OG	2.48	0.62
43:HW:98:VAL:HG21	43:HW:168:VAL:HG11	1.82	0.62
1:IA:1228:C:H5''	13:IM:108:ARG:CZ	2.30	0.62
51:J5:41:ILE:HG23	51:J5:42:ARG:HG2	1.81	0.62
22:JB:1175:A:C5'	39:JS:89:ASN:CG	2.68	0.62
22:JB:2245:A:H4'	22:JB:2246:A:H5'	1.81	0.62
22:JB:2526:U:C5	22:JB:2545:A:N7	2.68	0.62
22:JB:483:A:C2'	22:JB:484:G:H5'	2.30	0.62
22:JB:793:G:H21	22:JB:796:A:N6	1.97	0.62
22:JB:2206:C:C4'	24:JD:262:LYS:HZ1	2.08	0.62
22:JB:1814:G:H5'	24:JD:88:ARG:NH2	2.15	0.62
22:JB:597:U:O4'	26:JF:84:PHE:CE2	2.53	0.62
22:JB:592:G:C4'	38:JR:5:LYS:HD3	2.28	0.62
41:JU:53:ILE:HD11	41:JU:78:ALA:HB1	1.81	0.62
43:JW:67:LYS:HB2	43:JW:84:TYR:HB2	1.81	0.62
1:AA:1509:C:H2'	1:AA:1510:U:O4'	1.99	0.62
1:AA:345:C:H5''	1:AA:346:G:N2	2.15	0.62
1:AA:629:G:N2	1:AA:631:G:H22	1.98	0.62
1:AA:780:A:O2'	1:AA:1523:G:O4'	2.17	0.62
2:AB:68:ILE:HG23	2:AB:161:ALA:HB3	1.81	0.62
1:AA:8:A:N9	5:AE:107:ARG:NH2	2.48	0.62
1:AA:1373:G:C5'	7:AG:36:LYS:H	2.11	0.62
1:AA:1382:C:H5'	7:AG:79:ARG:CB	2.29	0.62
5:AE:80:ILE:CG2	8:AH:138:TRP:CE2	2.83	0.62
12:AL:41:ARG:NH1	12:AL:41:ARG:HB3	2.15	0.62
1:AA:667:G:H1'	15:AO:49:ASP:HA	0.63	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:BM:61:PRO:CG	51:B5:12:ARG:HD2	2.28	0.62
51:B5:6:THR:HB	51:B5:59:LYS:HE3	1.82	0.62
33:BM:58:ALA:CA	51:B5:9:MET:CG	2.74	0.62
22:BB:2859:U:C6	48:B2:52:TYR:CZ	2.88	0.62
22:BB:417:C:H1'	22:BB:419:G:C5	2.35	0.62
22:BB:532:A:O2'	22:BB:551:A:H4'	1.99	0.62
22:BB:57:G:N3	22:BB:72:A:C6	2.68	0.62
22:BB:852:U:H1'	22:BB:1205:G:H1'	1.82	0.62
22:BB:914:C:H2'	22:BB:915:C:C6	2.35	0.62
24:BD:151:LYS:HG3	24:BD:152:GLY:H	1.65	0.62
22:BB:2218:G:OP2	24:BD:230:ASP:HA	1.88	0.62
27:BG:33:LYS:O	27:BG:156:ILE:HG12	2.00	0.62
28:BH:35:VAL:N	28:BH:36:PRO:HD2	2.14	0.62
22:BB:2463:G:OP1	34:BN:46:ASN:O	2.18	0.62
22:BB:2813:G:C5'	35:BO:8:ARG:HH11	2.12	0.62
43:BW:3:LEU:HD23	43:BW:54:ILE:HG12	1.82	0.62
1:CA:1230:C:C4	13:CM:125:ARG:HD3	2.35	0.62
1:CA:270:A:H5'	22:DB:1738:U:H1'	1.81	0.62
1:CA:371:G:H4'	1:CA:482:A:H5'	1.81	0.62
1:CA:520:A:N6	1:CA:529:G:H21	1.97	0.62
1:CA:10:A:C8	5:CE:126:ARG:HD2	2.34	0.62
5:CE:140:ARG:NE	8:CH:72:PRO:CD	2.55	0.62
5:CE:50:GLU:HB2	5:CE:53:LEU:HG	1.82	0.62
23:DA:42:U:H2'	23:DA:45:C:H41	1.64	0.62
23:DA:77:G:O2'	43:DW:30:VAL:HA	1.98	0.62
22:DB:1312:G:H1'	22:DB:1659:G:N2	2.15	0.62
22:DB:1675:C:H3'	25:DE:134:TRP:HH2	1.64	0.62
22:DB:1831:G:C8	22:DB:1910:A:C1'	2.82	0.62
22:DB:2181:A:C4'	29:DI:24:TYR:HE2	2.13	0.62
22:DB:2324:G:C5'	49:D3:40:TYR:CD1	2.82	0.62
22:DB:2661:G:C5	25:DE:11:MET:C	2.56	0.62
22:DB:2766:U:OP1	25:DE:67:PHE:HB2	2.00	0.62
22:DB:2797:G:H2'	22:DB:2797:G:N3	2.15	0.62
22:DB:625:A:C4	26:DF:176:ASN:CG	2.73	0.62
22:DB:910:U:C2	22:DB:911:A:H8	2.17	0.62
22:DB:9:U:HO2'	22:DB:10:A:H8	1.48	0.62
22:DB:2752:C:C4'	25:DE:166:THR:CG2	2.78	0.62
22:DB:2645:C:C5	28:DH:109:TYR:HE2	1.71	0.62
32:DL:86:GLY:O	37:DQ:82:PRO:O	2.12	0.62
34:DN:98:VAL:CG2	43:DW:73:LYS:NZ	2.61	0.62
43:DW:3:LEU:HD23	43:DW:54:ILE:HG12	1.82	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:DB:2249:U:O5'	44:DX:18:PRO:HG2	2.00	0.62
1:EA:1189:C:C2'	3:EC:176:HIS:CD2	2.69	0.62
1:EA:371:G:H4'	1:EA:482:A:H5'	1.81	0.62
1:EA:1056:U:O5'	3:EC:162:GLN:CA	2.41	0.62
3:EC:114:PRO:HG3	3:EC:184:TYR:C	2.20	0.62
3:EC:57:ILE:HA	3:EC:66:VAL:HA	1.80	0.62
11:EK:22:HIS:ND1	11:EK:85:ARG:HB3	2.15	0.62
17:EQ:43:LEU:HB3	17:EQ:69:LYS:NZ	2.14	0.62
47:F1:48:ARG:HH21	47:F1:49:PHE:HB3	1.64	0.62
51:F5:41:ILE:HG23	51:F5:42:ARG:HG2	1.81	0.62
23:FA:10:U:O2	36:FP:49:GLN:CB	2.48	0.62
23:FA:44:C:H42	23:FA:47:A:H61	1.48	0.62
22:FB:1265:G:H5'	38:FR:32:TYR:CE1	2.34	0.62
22:FB:1411:C:H3'	22:FB:1412:C:H6	1.35	0.62
22:FB:1670:G:O6	35:FO:11:ASN:O	2.18	0.62
22:FB:1948:C:H2'	22:FB:1949:A:N7	2.14	0.62
22:FB:224:G:H1'	22:FB:229:G:N2	2.13	0.62
22:FB:2263:C:OP2	49:F3:9:ILE:CB	2.48	0.62
22:FB:2263:C:OP2	49:F3:9:ILE:CG1	2.48	0.62
22:FB:2784:A:H2'	22:FB:2785:A:C8	2.35	0.62
22:FB:2803:C:H2'	22:FB:2804:G:H8	1.65	0.62
22:FB:793:G:H21	22:FB:796:A:N6	1.97	0.62
22:FB:82:G:N2	22:FB:101:A:H62	1.98	0.62
22:FB:875:G:H2'	22:FB:876:A:C8	2.35	0.62
22:FB:1269:G:C4	26:FF:76:THR:CG2	2.66	0.62
22:FB:2281:C:C2'	27:FG:129:ASN:HD21	2.13	0.62
34:FN:102:ARG:NH1	34:FN:102:ARG:HB3	2.15	0.62
22:FB:1237:G:O3'	39:FS:87:ARG:HB2	2.00	0.62
40:FT:102:THR:HG22	40:FT:121:THR:HG22	1.81	0.62
43:FW:67:LYS:HB2	43:FW:84:TYR:HB2	1.80	0.62
45:FY:46:LEU:HD23	45:FY:49:GLU:HB3	1.81	0.62
1:AA:191:G:OP1	1:GA:191:G:N7	2.32	0.62
1:GA:277:C:O5'	17:GQ:41:LYS:HE3	1.99	0.62
1:GA:936:C:H2'	1:GA:937:A:H8	1.64	0.62
2:GB:165:VAL:HG12	2:GB:205:ASP:HB2	1.81	0.62
1:GA:1248:A:N9	9:GI:70:LYS:HE3	2.07	0.62
12:GL:41:ARG:NH1	12:GL:41:ARG:HB3	2.15	0.62
1:GA:452:A:O2'	16:GP:72:ARG:HD2	2.00	0.62
1:GA:277:C:P	17:GQ:41:LYS:HD2	2.39	0.62
22:HB:2029:G:OP1	48:H2:15:LYS:HE3	2.00	0.62
49:H3:10:VAL:HB	49:H3:28:ARG:HD2	1.80	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:HB:2063:A:H4'	47:H1:33:VAL:HG22	1.80	0.62
22:HB:2343:C:C5'	44:HX:40:GLN:CG	2.78	0.62
22:HB:1681:A:C2	22:HB:2706:U:H1'	2.34	0.62
22:HB:215:G:C1'	22:HB:618:A:O4'	2.44	0.62
22:HB:793:G:H21	22:HB:796:A:N6	1.97	0.62
22:HB:818:G:OP1	33:HM:42:GLY:CA	2.44	0.62
33:HM:112:GLY:HA2	33:HM:131:LYS:O	2.00	0.62
22:HB:2358:C:P	36:HP:19:THR:CG2	2.61	0.62
41:HU:77:LYS:NZ	41:HU:79:ILE:HD11	2.15	0.62
43:HW:4:THR:HG22	43:HW:57:GLU:HB2	1.81	0.62
22:HB:2334:C:O4'	44:HX:32:LYS:CE	2.45	0.62
1:IA:1188:A:O3'	10:IJ:51:ARG:NH2	2.32	0.62
1:EA:1264:C:C1'	1:IA:1272:G:N2	2.57	0.62
1:IA:1299:A:H2'	1:IA:1300:G:H4'	1.82	0.62
1:IA:261:U:N3	20:IT:79:ARG:CZ	2.58	0.62
1:IA:585:G:H2'	1:IA:586:C:O4'	2.00	0.62
1:IA:665:A:H2'	1:IA:725:G:N2	2.15	0.62
4:ID:61:LYS:HZ1	4:ID:62:GLN:HA	1.63	0.62
1:IA:684:A:O4'	11:IK:38:ASN:ND2	2.33	0.62
22:JB:2371:A:OP1	51:J5:29:LYS:HG3	2.00	0.62
22:JB:1075:C:P	30:JJ:84:ILE:CD1	2.66	0.62
22:JB:1742:G:H5''	37:JQ:123:ARG:HH12	1.65	0.62
22:JB:1743:C:H5'	22:JB:2836:U:O2'	1.99	0.62
22:JB:2262:C:P	49:J3:9:ILE:CD1	2.72	0.62
22:JB:2323:U:OP1	49:J3:39:LYS:CD	2.45	0.62
22:JB:2451:G:H3'	22:JB:2454:C:N4	2.15	0.62
22:JB:2805:G:H21	22:JB:2811:G:N2	1.97	0.62
22:JB:2819:G:O2'	37:JQ:62:SER:HA	2.00	0.62
22:JB:3171:A:H4'	53:J7:105:ARG:HG3	1.82	0.62
22:JB:348:U:C5'	42:JV:13:LYS:CG	2.78	0.62
22:JB:69:G:HO3'	22:JB:70:A:P	2.21	0.62
22:JB:846:A:N6	22:JB:955:G:H1	1.97	0.62
24:JD:108:PRO:HG3	24:JD:194:GLY:HA3	1.82	0.62
24:JD:72:LYS:NZ	24:JD:75:VAL:HG11	2.14	0.62
25:JE:117:MET:SD	25:JE:136:ARG:HG3	2.40	0.62
25:JE:91:VAL:HG22	25:JE:93:VAL:N	2.10	0.62
28:JH:154:PRO:HB3	28:JH:160:LYS:HG2	1.82	0.62
22:JB:2637:C:H6	28:JH:179:THR:CG2	2.13	0.62
31:JK:29:VAL:HG23	38:JR:97:ASP:HB3	1.81	0.62
25:JE:19:ARG:HG3	32:JL:85:ASP:OD1	2.00	0.62
33:JM:112:GLY:HA2	33:JM:131:LYS:O	2.00	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:JA:117:G:H1'	36:JP:41:GLN:CG	2.29	0.62
37:JQ:55:ILE:HA	37:JQ:71:ILE:HG21	1.82	0.62
42:JV:13:LYS:HZ3	42:JV:13:LYS:HB3	1.65	0.62
1:AA:1392:G:N3	1:AA:1502:A:C4'	2.62	0.61
1:AA:514:C:H2'	1:AA:515:G:H8	1.64	0.61
1:AA:559:A:C2	5:AE:126:ARG:NH1	2.57	0.61
1:AA:643:C:H2'	1:AA:644:G:H8	1.65	0.61
1:AA:8:A:H1'	5:AE:104:ALA:CB	2.27	0.61
5:AE:72:GLN:HE22	5:AE:145:LYS:N	1.98	0.61
7:AG:14:PRO:HB3	7:AG:21:VAL:HG13	1.80	0.61
12:AL:54:LYS:HD2	12:AL:54:LYS:H	1.64	0.61
1:AA:1308:U:P	13:AM:109:THR:HG21	2.40	0.61
17:AQ:56:VAL:HG21	17:AQ:84:LEU:HD13	1.82	0.61
20:AT:88:VAL:HB	20:AT:92:LEU:HB2	1.81	0.61
23:BA:107:C:O3'	43:BW:89:GLY:CA	2.36	0.61
23:BA:42:U:H1'	23:BA:49:C:N3	2.16	0.61
22:BB:574:C:H6	39:BS:79:GLN:HE22	1.48	0.61
22:BB:811:G:OP1	26:BF:54:THR:C	2.36	0.61
22:BB:9:U:HO2'	22:BB:10:A:H8	1.47	0.61
27:BG:125:ARG:HH22	27:BG:161:LYS:HE3	1.65	0.61
31:BK:116:ARG:NH1	31:BK:119:LEU:HD12	2.15	0.61
34:BN:102:ARG:NH1	34:BN:102:ARG:HB3	2.15	0.61
22:BB:503:G:H21	40:BT:74:SER:CB	2.09	0.61
1:CA:1197:G:H2'	1:CA:1198:G:C8	2.35	0.61
1:CA:1371:G:H2'	1:CA:1372:U:O4'	1.99	0.61
2:CB:68:ILE:HG23	2:CB:161:ALA:HB3	1.81	0.61
1:CA:1081:G:OP1	5:CE:26:PHE:HA	1.99	0.61
20:CT:26:ASN:HA	20:CT:29:LYS:HD2	1.82	0.61
22:DB:166:G:H5''	47:D1:36:TRP:NE1	2.14	0.61
51:D5:6:THR:HB	51:D5:59:LYS:HE3	1.82	0.61
22:DB:2411:A:C5	47:D1:27:THR:CA	2.82	0.61
22:DB:2833:C:H2'	22:DB:2834:A:O4'	2.00	0.61
22:DB:892:A:H2'	22:DB:893:G:H5'	1.81	0.61
22:DB:914:C:H2'	22:DB:915:C:C6	2.35	0.61
22:DB:964:A:H61	22:DB:975:C:H42	1.47	0.61
24:DD:108:PRO:HG3	24:DD:194:GLY:HA3	1.82	0.61
22:DB:1581:C:N4	24:DD:28:ARG:CZ	2.62	0.61
27:DG:78:LYS:HE2	27:DG:80:ARG:HH22	1.63	0.61
34:DN:66:TYR:HB2	43:DW:117:VAL:O	1.96	0.61
36:DP:35:SER:HB3	36:DP:64:LYS:HE2	1.82	0.61
1:EA:1073:U:C2	2:EB:107:THR:HG21	2.34	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:EA:1188:A:N3	14:EN:60:SER:OG	2.30	0.61
1:EA:1371:G:H2'	1:EA:1372:U:O4'	1.99	0.61
1:EA:922:G:H22	1:EA:1396:A:N6	1.89	0.61
1:EA:516:U:H2'	1:EA:517:G:O4'	2.00	0.61
1:EA:583:A:C4'	17:EQ:90:ILE:CD1	2.77	0.61
1:EA:585:G:H2'	1:EA:586:C:O4'	2.00	0.61
13:EM:93:ARG:NH2	22:FB:900:U:O4	2.32	0.61
3:EC:29:TYR:CB	14:EN:36:PHE:O	2.48	0.61
1:EA:740:U:OP2	15:EO:3:ILE:CG1	2.48	0.61
22:FB:1460:G:N2	22:FB:1481:U:H3	1.96	0.61
22:FB:191:G:O2'	22:FB:193:A:H4'	1.99	0.61
22:FB:2293:G:H22	27:FG:129:ASN:ND2	1.98	0.61
22:FB:2716:G:H22	22:FB:2749:A:C1'	2.13	0.61
22:FB:529:U:H5'	40:FT:39:ARG:HG3	1.74	0.61
22:FB:964:A:H61	22:FB:975:C:H42	1.47	0.61
24:FD:253:PRO:HD2	24:FD:255:LYS:HE2	1.80	0.61
22:FB:1581:C:H5	24:FD:28:ARG:NH1	1.96	0.61
24:FD:72:LYS:NZ	24:FD:75:VAL:HG11	2.14	0.61
25:FE:58:LYS:HB2	25:FE:58:LYS:HZ3	1.65	0.61
22:FB:331:U:C5	26:FF:131:LYS:HA	2.34	0.61
28:FH:152:ARG:NH1	28:FH:154:PRO:HG3	2.15	0.61
22:FB:1073:G:H5'	30:FJ:11:GLN:NE2	2.12	0.61
22:FB:547:U:N3	31:FK:71:THR:CG2	2.62	0.61
36:FP:29:LEU:HD12	36:FP:90:ASP:HA	1.82	0.61
42:FV:90:LYS:HB3	42:FV:108:VAL:HG21	1.80	0.61
1:GA:1299:A:H2'	1:GA:1300:G:H4'	1.82	0.61
1:GA:927:G:C1'	1:GA:1531:A:N3	2.45	0.61
1:GA:413:G:N2	4:GD:31:CYS:SG	2.72	0.61
3:GC:67:THR:HA	3:GC:102:ASN:O	2.00	0.61
3:GC:28:GLN:HG3	3:GC:32:LEU:HD13	1.80	0.61
7:GG:69:VAL:CG1	7:GG:100:ALA:HA	2.27	0.61
11:GK:22:HIS:ND1	11:GK:85:ARG:HB3	2.15	0.61
1:GA:1308:U:H4'	13:GM:110:ARG:NH2	2.14	0.61
1:GA:251:G:C2'	17:GQ:67:LYS:NZ	2.63	0.61
22:HB:1376:C:C3'	47:H1:55:ARG:NH2	2.63	0.61
49:H3:10:VAL:HG13	49:H3:26:LYS:HB3	1.82	0.61
22:HB:784:U:OP1	50:H4:11:LYS:HG2	1.99	0.61
22:HB:600:G:N2	51:H5:2:PRO:HG2	2.15	0.61
22:HB:82:G:N2	22:HB:101:A:H62	1.98	0.61
22:HB:1825:C:H2'	22:HB:1826:U:C6	2.35	0.61
22:HB:1888:C:C2'	22:HB:1889:G:OP1	2.32	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:HB:2245:A:H4'	22:HB:2246:A:C5'	2.29	0.61
22:HB:2503:G:C4	22:HB:2744:A:H2	2.17	0.61
22:HB:2679:G:H2'	22:HB:2680:U:H5''	1.81	0.61
22:HB:3167:U:C5	53:H7:98:ARG:NE	2.46	0.61
22:HB:636:G:H2'	22:HB:637:G:H5'	1.82	0.61
27:HG:4:LEU:HD13	27:HG:97:TYR:O	2.00	0.61
22:HB:2629:U:C4'	32:HL:29:ILE:HD12	1.96	0.61
1:IA:238:G:C5'	17:IQ:38:ARG:NH1	2.60	0.61
2:IB:187:LEU:HD13	2:IB:188:ALA:N	2.15	0.61
1:IA:642:A:C6	8:IH:131:GLY:HA3	2.26	0.61
17:IQ:43:LEU:HB3	17:IQ:69:LYS:NZ	2.14	0.61
6:IF:97:PHE:CZ	18:IR:62:GLU:OE2	2.53	0.61
23:JA:49:C:O3'	36:JP:95:LYS:CB	2.47	0.61
22:JB:1075:C:C5'	30:JJ:84:ILE:HG23	2.30	0.61
22:JB:1825:C:H2'	22:JB:1826:U:C6	2.35	0.61
22:JB:2239:C:O2'	22:JB:2367:A:C4'	2.37	0.61
22:JB:2245:A:H4'	22:JB:2246:A:C5'	2.29	0.61
22:JB:2398:U:O3'	51:J5:34:THR:O	2.18	0.61
22:JB:1726:C:O2'	22:JB:2833:C:C1'	2.47	0.61
22:JB:313:U:OP1	42:JV:84:VAL:HG21	2.00	0.61
22:JB:3171:A:H4'	22:JB:3172:U:H5'	1.82	0.61
22:JB:3175:C:O3'	53:J7:33:ILE:CD1	2.45	0.61
22:JB:3188:U:H5''	29:JI:20:VAL:O	1.99	0.61
22:JB:416:U:OP1	53:J7:197:GLU:OE1	2.17	0.61
22:JB:636:G:H2'	22:JB:637:G:H5'	1.82	0.61
26:JF:19:LEU:HD21	26:JF:109:ALA:HA	1.82	0.61
28:JH:152:ARG:NH1	28:JH:154:PRO:HG3	2.15	0.61
34:JN:47:GLN:NE2	34:JN:121:LEU:HB3	2.15	0.61
22:JB:530:G:P	40:JT:39:ARG:HH22	2.23	0.61
22:JB:59:G:O4'	45:JY:44:ARG:NH1	2.31	0.61
1:AA:516:U:H2'	1:AA:517:G:O4'	2.01	0.61
1:AA:585:G:H2'	1:AA:586:C:O4'	2.00	0.61
1:AA:939:G:H2'	1:AA:940:C:C6	2.35	0.61
3:AC:59:ARG:N	10:AJ:92:THR:CG2	2.60	0.61
7:AG:145:ALA:HA	7:AG:148:ASN:HB2	1.81	0.61
15:AO:29:VAL:HG22	15:AO:62:GLN:HG3	1.82	0.61
1:AA:735:C:H5'	18:AR:71:LYS:HD3	1.82	0.61
22:BB:2789:U:O2	48:B2:42:SER:N	2.33	0.61
22:BB:1043:A:O2'	52:B6:23:VAL:O	2.12	0.61
22:BB:1166:A:C2	22:BB:1168:G:H8	2.08	0.61
22:BB:1888:C:H5'	22:BB:1889:G:O5'	2.00	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:BB:2245:A:H4'	22:BB:2246:A:H5'	1.81	0.61
22:BB:2510:A:C5	22:BB:2638:G:H4'	2.35	0.61
22:BB:248:A:C8	22:BB:373:A:N6	2.68	0.61
22:BB:1856:U:N3	22:BB:3865:A:N6	2.46	0.61
22:BB:648:A:H4'	22:BB:649:G:H4'	1.81	0.61
22:BB:714:G:H4'	22:BB:1648:C:N3	2.15	0.61
22:BB:66:U:C5	22:BB:87:G:N1	2.68	0.61
23:BA:43:G:O2'	27:BG:66:ILE:HG13	2.00	0.61
31:BK:77:GLY:HA3	31:BK:147:ARG:NH2	2.14	0.61
32:BL:21:CYS:CA	32:BL:54:SER:H	2.13	0.61
36:BP:35:SER:HB3	36:BP:64:LYS:HE2	1.82	0.61
45:BY:46:LEU:HD23	45:BY:49:GLU:HB3	1.81	0.61
1:CA:520:A:H3'	12:CL:53:ARG:HD2	1.81	0.61
1:CA:761:G:C6	17:CQ:104:LYS:HA	2.36	0.61
1:CA:779:C:H2'	1:CA:780:A:C8	2.35	0.61
1:CA:936:C:H2'	1:CA:937:A:H8	1.64	0.61
2:CB:149:LEU:HB3	2:CB:153:ARG:HG3	1.82	0.61
3:CC:114:PRO:HG3	3:CC:184:TYR:C	2.20	0.61
47:D1:48:ARG:HH21	47:D1:49:PHE:HB3	1.64	0.61
22:DB:2328:G:C3'	51:D5:42:ARG:HH11	2.13	0.61
22:DB:418:C:H5''	53:D7:1:MET:CE	2.30	0.61
22:DB:2432:A:H4'	22:DB:2551:A:O2'	2.00	0.61
22:DB:2803:C:H2'	22:DB:2804:G:H8	1.65	0.61
22:DB:417:C:H1'	22:DB:419:G:C5	2.35	0.61
22:DB:1290:A:N9	35:DO:24:GLN:HA	2.11	0.61
40:DT:102:THR:HG22	40:DT:121:THR:HG22	1.82	0.61
22:DB:529:U:H5'	40:DT:39:ARG:CD	2.29	0.61
1:EA:1392:G:H4'	1:EA:1531:A:OP1	1.98	0.61
1:EA:401:C:O2'	1:EA:621:A:C2	2.39	0.61
1:EA:643:C:H2'	1:EA:644:G:H8	1.65	0.61
1:EA:742:G:H5''	15:EO:58:MET:SD	2.38	0.61
1:EA:936:C:H2'	1:EA:937:A:H8	1.64	0.61
1:EA:939:G:H2'	1:EA:940:C:C6	2.35	0.61
1:EA:968:A:C5	1:EA:1062:U:H4'	2.34	0.61
6:EF:49:ALA:CB	18:ER:79:LEU:CA	2.68	0.61
8:EH:96:GLY:H	8:EH:99:GLU:HB2	1.64	0.61
1:EA:676:A:HO2'	11:EK:115:PRO:HB3	1.64	0.61
1:EA:677:U:H1'	11:EK:119:CYS:SG	2.40	0.61
29:FI:1:MET:CE	47:F1:66:SER:CB	2.78	0.61
22:FB:2265:A:N1	49:F3:31:THR:HB	2.15	0.61
49:F3:24:THR:HG23	51:F5:35:GLY:C	2.20	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:FB:1636:G:H1'	50:F4:1:MET:C	2.19	0.61
22:FB:1790:G:H22	24:FD:180:GLY:CA	2.11	0.61
1:EA:1483:A:H2	22:FB:1943:A:H1'	1.63	0.61
22:FB:1982:C:H2'	22:FB:1983:G:C8	2.35	0.61
22:FB:52:A:N6	22:FB:115:G:H1'	2.15	0.61
22:FB:648:A:H4'	22:FB:649:G:H4'	1.81	0.61
22:FB:714:G:H4'	22:FB:1648:C:N3	2.15	0.61
22:FB:846:A:N6	22:FB:955:G:H1	1.97	0.61
24:FD:136:VAL:HG21	24:FD:165:VAL:HG11	1.81	0.61
22:FB:2713:A:C3'	25:FE:205:SER:O	2.47	0.61
1:GA:1398:A:N6	5:GE:22:GLY:HA3	2.14	0.61
1:GA:1447:A:N1	1:GA:1456:A:H1'	2.14	0.61
1:GA:376:G:O2'	16:GP:28:ARG:HD2	1.99	0.61
1:GA:516:U:H2'	1:GA:517:G:O4'	2.01	0.61
1:GA:580:U:H5'	15:GO:54:ARG:CD	2.27	0.61
4:GD:10:ARG:HH22	4:GD:66:ARG:NH1	1.98	0.61
5:GE:50:GLU:HB2	5:GE:53:LEU:HG	1.82	0.61
8:GH:85:ARG:NH1	8:GH:89:PRO:HD3	2.16	0.61
1:GA:35:G:H1'	12:GL:118:SER:CA	2.30	0.61
15:GO:45:VAL:HG12	15:GO:46:HIS:H	1.65	0.61
22:HB:1378:A:OP2	47:H1:11:PRO:HG2	2.00	0.61
22:HB:802:A:H4'	22:HB:1771:A:H62	1.65	0.61
22:HB:538:A:H61	22:HB:2026:C:H5''	1.63	0.61
22:HB:215:G:C4'	22:HB:618:A:H5'	2.30	0.61
22:HB:2543:A:N6	22:HB:2625:U:HO2'	1.98	0.61
22:HB:2782:G:H3'	22:HB:2783:U:H5''	1.83	0.61
22:HB:417:C:H1'	22:HB:419:G:C5	2.35	0.61
22:HB:603:C:C2'	22:HB:604:U:O4'	2.47	0.61
22:HB:1582:A:N9	24:HD:211:ARG:HG3	2.15	0.61
24:HD:72:LYS:NZ	24:HD:75:VAL:HG11	2.14	0.61
26:HF:19:LEU:HD21	26:HF:109:ALA:HA	1.81	0.61
23:HA:44:C:O2'	27:HG:63:GLN:CD	2.39	0.61
27:HG:72:LYS:HD2	27:HG:80:ARG:HA	1.81	0.61
22:HB:1348:C:OP1	41:HU:64:ARG:CG	2.47	0.61
1:IA:1239:A:N6	1:IA:1299:A:H62	1.92	0.61
1:IA:1067:A:H4'	1:IA:1387:G:H4'	1.82	0.61
1:IA:925:G:N2	1:IA:1503:A:OP2	2.32	0.61
1:IA:516:U:H2'	1:IA:517:G:O4'	2.00	0.61
3:IC:12:LEU:HD13	14:IN:51:GLY:CA	2.30	0.61
19:IS:13:ASP:HA	19:IS:16:LEU:HB2	1.81	0.61
51:J5:6:THR:HB	51:J5:59:LYS:HE3	1.81	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:JB:1174:G:N3	39:JS:88:GLN:CA	2.60	0.61
22:JB:1197:U:H4'	46:JZ:26:ARG:NH2	2.15	0.61
22:JB:1364:C:O2'	22:JB:1587:A:H1'	1.98	0.61
22:JB:1790:G:N2	24:JD:177:LEU:CD1	2.57	0.61
22:JB:339:U:O2'	42:JV:76:LEU:C	2.39	0.61
22:JB:468:A:P	41:JU:67:ARG:NH1	2.73	0.61
22:JB:82:G:N2	22:JB:101:A:H62	1.98	0.61
22:JB:964:A:H61	22:JB:975:C:H42	1.47	0.61
24:JD:46:ARG:HG3	24:JD:47:GLY:N	2.13	0.61
22:JB:2550:C:HO2'	25:JE:143:GLN:HB3	1.58	0.61
27:JG:11:GLN:NE2	27:JG:12:VAL:HG13	2.14	0.61
31:JK:117:GLU:HA	31:JK:120:SER:HB3	1.81	0.61
22:JB:1256:C:H42	33:JM:14:LYS:HZ1	1.46	0.61
22:JB:631:G:C8	33:JM:95:ALA:O	2.53	0.61
22:JB:73:A:H5''	45:JY:48:ARG:CZ	2.30	0.61
1:AA:779:C:H2'	1:AA:780:A:C8	2.35	0.61
10:AJ:39:PRO:HA	10:AJ:70:ARG:HH11	1.66	0.61
1:AA:964:A:H4'	10:AJ:55:LYS:HD2	1.82	0.61
1:AA:689:C:H3'	11:AK:51:LYS:NZ	2.14	0.61
14:AN:4:LYS:HB3	14:AN:7:ILE:HD12	1.80	0.61
1:AA:178:C:P	20:AT:65:LYS:HZ1	2.22	0.61
53:B7:62:LYS:HB3	53:B7:108:GLU:HB3	1.83	0.61
22:BB:1042:G:O2'	52:B6:7:VAL:HG23	2.00	0.61
22:BB:1378:A:OP2	47:B1:40:HIS:HE1	1.73	0.61
22:BB:1982:C:H2'	22:BB:1983:G:C8	2.35	0.61
22:BB:2365:U:H5''	44:BX:39:ARG:CZ	2.23	0.61
22:BB:2398:U:H5	51:B5:31:HIS:CA	2.05	0.61
22:BB:2448:A:N3	34:BN:57:ARG:CD	2.62	0.61
22:BB:538:A:O3'	22:BB:566:U:OP1	2.17	0.61
22:BB:573:C:OP1	39:BS:78:VAL:HG13	2.01	0.61
22:BB:742:G:O4'	24:BD:18:THR:CB	2.49	0.61
22:BB:793:G:H21	22:BB:796:A:N6	1.97	0.61
22:BB:816:U:H2'	22:BB:817:A:C8	2.35	0.61
22:BB:873:U:O4	22:BB:2247:A:N7	2.32	0.61
22:BB:964:A:H61	22:BB:975:C:H42	1.47	0.61
22:BB:627:A:OP1	26:BF:33:TRP:CH2	2.54	0.61
22:BB:686:C:H2'	26:BF:68:ARG:NH2	2.12	0.61
22:BB:1070:G:N3	30:BJ:126:THR:HG22	2.15	0.61
23:BA:105:G:H4'	43:BW:92:VAL:H	0.55	0.61
1:CA:236:G:H4'	17:CQ:42:TYR:HH	1.65	0.61
1:CA:436:C:O2'	4:CD:157:LEU:CD2	2.48	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:585:G:H2'	1:CA:586:C:O4'	2.00	0.61
1:CA:779:C:H2'	1:CA:780:A:H8	1.65	0.61
1:CA:939:G:H2'	1:CA:940:C:C6	2.35	0.61
3:CC:132:ARG:NH1	4:CD:47:ARG:HH11	1.95	0.61
3:CC:18:TRP:HE1	14:CN:53:LEU:N	1.91	0.61
1:CA:973:G:C3'	14:CN:41:ARG:HH22	2.13	0.61
20:CT:88:VAL:HB	20:CT:92:LEU:HB2	1.81	0.61
23:DA:42:U:H1'	23:DA:49:C:N3	2.16	0.61
22:DB:1004:A:N3	22:DB:1173:G:N2	2.47	0.61
22:DB:1402:G:H1	22:DB:1412:C:N4	1.94	0.61
22:DB:1566:G:C3'	22:DB:1567:A:P	2.88	0.61
22:DB:1812:U:OP2	24:DD:179:SER:OG	2.14	0.61
22:DB:191:G:O2'	22:DB:193:A:H4'	2.00	0.61
22:DB:1948:C:H2'	22:DB:1949:A:N7	2.14	0.61
22:DB:2489:C:O2	25:DE:125:GLY:HA2	2.00	0.61
22:DB:498:C:H1'	40:DT:74:SER:HA	1.82	0.61
22:DB:568:G:C3'	22:DB:569:C:P	2.89	0.61
22:DB:596:C:C3'	33:DM:28:LYS:HZ3	2.12	0.61
22:DB:816:U:H2'	22:DB:817:A:C8	2.35	0.61
22:DB:846:A:N6	22:DB:955:G:H1	1.97	0.61
22:DB:1809:G:C5'	24:DD:63:ARG:NH2	2.63	0.61
22:DB:625:A:C6	26:DF:176:ASN:CB	2.81	0.61
22:DB:643:A:O2'	33:DM:66:ASN:HB2	2.01	0.61
23:DA:106:U:C4'	43:DW:88:TYR:CG	2.82	0.61
1:EA:128:G:N3	17:EQ:61:GLU:OE1	2.31	0.61
1:EA:793:U:C4	1:EA:1516:G:H4'	2.34	0.61
1:EA:520:A:N6	1:EA:529:G:H21	1.97	0.61
6:EF:48:LEU:HD22	18:ER:77:GLY:CA	2.25	0.61
15:EO:45:VAL:HG12	15:EO:46:HIS:H	1.65	0.61
49:F3:10:VAL:HB	49:F3:28:ARG:HD2	1.81	0.61
51:F5:34:THR:HA	51:F5:36:LYS:NZ	2.14	0.61
22:FB:1047:G:C2'	22:FB:1048:U:C5'	2.78	0.61
22:FB:1135:C:O3'	52:F6:4:ARG:CZ	2.47	0.61
22:FB:12:U:H2'	22:FB:13:A:H5'	1.82	0.61
22:FB:1908:C:H2'	22:FB:1909:U:H4'	1.82	0.61
22:FB:2277:A:C5'	27:FG:71:LYS:HD3	2.29	0.61
22:FB:2716:G:C6	22:FB:2748:C:C2	2.88	0.61
22:FB:2716:G:N1	22:FB:2749:A:N9	2.46	0.61
22:FB:2833:C:H2'	22:FB:2834:A:O4'	2.01	0.61
22:FB:417:C:H1'	22:FB:419:G:C5	2.35	0.61
22:FB:58:C:C6	22:FB:72:A:C2	2.84	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:FD:72:LYS:NZ	24:FD:75:VAL:HG21	2.14	0.61
24:FD:91:ARG:HH21	24:FD:91:ARG:HB2	1.64	0.61
30:FJ:52:ILE:HG23	30:FJ:53:ILE:H	1.64	0.61
32:FL:68:ASP:O	32:FL:69:VAL:HG22	2.00	0.61
35:FO:45:ARG:HH22	35:FO:94:TYR:H	1.46	0.61
1:GA:1310:G:OP2	13:GM:99:ARG:NH2	2.33	0.61
1:GA:585:G:H2'	1:GA:586:C:O4'	2.00	0.61
1:GA:689:C:OP2	11:GK:51:LYS:CD	2.48	0.61
2:GB:8:LYS:HA	2:GB:48:MET:HE2	1.81	0.61
8:GH:9:MET:SD	8:GH:26:VAL:HG21	2.39	0.61
9:GI:10:ARG:CZ	9:GI:11:LYS:HB2	2.31	0.61
1:GA:1321:C:H5''	13:GM:87:TYR:OH	2.00	0.61
15:GO:29:VAL:HG22	15:GO:62:GLN:HG3	1.82	0.61
19:GS:13:ASP:HA	19:GS:16:LEU:HB2	1.81	0.61
22:HB:122:G:OP1	22:HB:1389:C:H4'	2.00	0.61
22:HB:2398:U:O4'	49:H3:21:TYR:OH	2.17	0.61
22:HB:2528:G:N1	22:HB:2539:C:C4	2.68	0.61
22:HB:846:A:N6	22:HB:955:G:H1	1.97	0.61
25:HE:117:MET:SD	25:HE:136:ARG:HG3	2.41	0.61
25:HE:12:THR:HA	25:HE:21:ILE:O	2.00	0.61
22:HB:686:C:C5'	26:HF:73:SER:HB3	2.30	0.61
30:HJ:125:ASN:HD22	30:HJ:125:ASN:N	1.98	0.61
31:HK:43:VAL:HG22	31:HK:81:VAL:HG21	1.82	0.61
34:HN:63:GLY:N	43:HW:110:GLY:C	2.50	0.61
1:IA:111:G:H5''	16:IP:27:LYS:HG2	1.82	0.61
1:IA:1197:G:H2'	1:IA:1198:G:C8	2.36	0.61
1:IA:1237:C:H3'	1:IA:1238:A:H5'	1.80	0.61
1:IA:147:G:C6	1:IA:176:C:H1'	2.35	0.61
7:IG:69:VAL:CG1	7:IG:100:ALA:HA	2.27	0.61
10:IJ:39:PRO:HA	10:IJ:70:ARG:HH11	1.66	0.61
11:IK:22:HIS:ND1	11:IK:85:ARG:HB3	2.15	0.61
22:JB:3103:A:C4'	53:J7:37:LYS:HG3	2.26	0.61
22:JB:1049:C:N3	22:JB:1129:A:C2	2.68	0.61
22:JB:1163:C:H2'	22:JB:1164:C:C6	2.35	0.61
22:JB:1261:G:C5	26:JF:44:SER:CB	2.84	0.61
22:JB:767:G:H4'	22:JB:1285:A:N1	2.15	0.61
22:JB:2008:C:OP1	25:JE:147:PRO:HB3	2.00	0.61
22:JB:538:A:H61	22:JB:2026:C:H5''	1.63	0.61
22:JB:1040:A:C8	22:JB:2465:G:O4'	2.53	0.61
22:JB:2784:A:H2'	22:JB:2785:A:C8	2.35	0.61
22:JB:417:C:H1'	22:JB:419:G:C5	2.35	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:JB:592:G:N2	26:JF:78:VAL:HG12	2.14	0.61
22:JB:846:A:C1'	33:JM:53:ARG:CZ	2.78	0.61
24:JD:120:GLY:O	24:JD:123:ALA:HB2	2.00	0.61
30:JJ:106:GLU:HA	30:JJ:109:LYS:HB3	1.81	0.61
31:JK:36:ASN:HA	31:JK:39:GLN:NE2	2.16	0.61
32:JL:68:ASP:O	32:JL:69:VAL:HG22	2.00	0.61
22:JB:969:U:C5	34:JN:21:ASP:CG	2.72	0.61
22:JB:1260:A:O3'	38:JR:2:PRO:CA	2.47	0.61
39:JS:32:LYS:HD2	39:JS:62:GLU:HB3	1.83	0.61
2:AB:149:LEU:HB3	2:AB:153:ARG:HG3	1.82	0.61
7:AG:69:VAL:CG1	7:AG:100:ALA:HA	2.27	0.61
1:AA:1372:U:H5''	9:AI:71:SER:HB3	1.82	0.61
1:AA:946:A:C5'	13:AM:114:ARG:NH2	2.64	0.61
47:B1:57:ASP:HB2	47:B1:60:ASN:HB2	1.81	0.61
22:BB:1090:C:O4'	30:BJ:132:ARG:NH2	2.33	0.61
22:BB:1142:G:H5'	31:BK:110:LEU:O	2.00	0.61
22:BB:115:G:C5	22:BB:117:A:N7	2.67	0.61
22:BB:1235:C:C5	39:BS:71:ILE:CG2	2.64	0.61
22:BB:594:G:H22	22:BB:1266:G:P	2.24	0.61
1:AA:270:A:C5'	22:BB:1738:U:O4'	2.47	0.61
22:BB:1855:G:C6	22:BB:3877:A:N6	2.66	0.61
22:BB:2451:G:H3'	22:BB:2454:C:N4	2.15	0.61
22:BB:2522:G:C4	22:BB:2745:A:O2'	2.52	0.61
22:BB:2615:U:OP1	25:BE:78:LEU:CA	2.48	0.61
22:BB:2752:C:H5'	25:BE:166:THR:HB	1.81	0.61
22:BB:52:A:N6	22:BB:115:G:H1'	2.16	0.61
22:BB:7:G:H5''	31:BK:79:PHE:HZ	1.60	0.61
22:BB:910:U:C3'	22:BB:911:A:H8	2.02	0.61
24:BD:72:LYS:NZ	24:BD:75:VAL:HG11	2.14	0.61
22:BB:1140:A:H5''	31:BK:107:GLN:HG3	1.82	0.61
31:BK:43:VAL:HG22	31:BK:81:VAL:HG21	1.82	0.61
32:BL:55:VAL:HG11	32:BL:68:ASP:HB3	1.82	0.61
22:BB:2229:G:N7	34:BN:85:GLY:N	2.35	0.61
1:AA:1433:A:C1'	37:BQ:116:ARG:NE	2.63	0.61
41:BU:71:GLN:HG3	41:BU:72:ARG:H	1.64	0.61
1:CA:516:U:H2'	1:CA:517:G:O4'	2.01	0.61
4:CD:10:ARG:HH22	4:CD:66:ARG:NH1	1.98	0.61
7:CG:14:PRO:HB3	7:CG:21:VAL:HG13	1.81	0.61
12:CL:41:ARG:NH1	12:CL:41:ARG:HB3	2.16	0.61
13:CM:88:ARG:NH2	13:CM:99:ARG:CB	2.58	0.61
1:CA:739:C:H1'	15:CO:42:HIS:HD1	1.65	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:CO:45:VAL:HG12	15:CO:46:HIS:H	1.65	0.61
1:CA:255:G:C5'	17:CQ:17:LYS:HE3	2.30	0.61
1:CA:276:G:OP1	17:CQ:20:THR:N	2.33	0.61
22:DB:1150:C:H5'	22:DB:1154:A:N1	2.15	0.61
22:DB:1240:G:H2'	22:DB:1241:G:C8	2.35	0.61
22:DB:1982:C:H2'	22:DB:1983:G:C8	2.36	0.61
22:DB:2451:G:H3'	22:DB:2454:C:N4	2.15	0.61
22:DB:2715:C:C2	22:DB:2749:A:H2	2.13	0.61
22:DB:2784:A:H2'	22:DB:2785:A:C8	2.35	0.61
22:DB:503:G:O2'	40:DT:29:LYS:HG3	2.00	0.61
22:DB:714:G:H4'	22:DB:1648:C:N3	2.15	0.61
22:DB:793:G:H21	22:DB:796:A:N6	1.97	0.61
22:DB:625:A:N1	26:DF:175:VAL:O	2.33	0.61
28:DH:152:ARG:NH1	28:DH:154:PRO:HG3	2.15	0.61
31:DK:116:ARG:NH1	31:DK:119:LEU:HD12	2.15	0.61
33:DM:112:GLY:HA2	33:DM:131:LYS:O	2.00	0.61
33:DM:110:ALA:N	33:DM:129:ALA:HB2	2.14	0.61
35:DO:58:GLY:HA2	35:DO:63:ARG:HE	1.64	0.61
32:DL:87:SER:N	37:DQ:83:PHE:HA	2.16	0.61
22:DB:1004:A:OP2	38:DR:51:ARG:HB2	1.99	0.61
1:EA:1187:G:P	9:EI:113:LYS:CE	2.88	0.61
1:EA:1063:C:O2'	1:EA:1386:G:H5''	2.01	0.61
1:EA:325:A:C6	16:EP:25:ARG:NH1	2.69	0.61
9:EI:50:LEU:HD22	9:EI:56:LEU:H	1.66	0.61
1:EA:1151:A:C4'	10:EJ:42:THR:N	2.54	0.61
1:EA:1368:G:C5'	10:EJ:62:HIS:HE1	2.13	0.61
1:EA:958:A:C1'	19:ES:55:LYS:CE	2.65	0.61
20:ET:26:ASN:HB3	20:ET:30:LYS:HZ1	1.65	0.61
22:FB:409:G:C4'	47:F1:39:VAL:CB	2.76	0.61
23:FA:119:G:O5'	36:FP:39:TYR:OH	2.19	0.61
22:FB:594:G:H22	22:FB:1266:G:P	2.24	0.61
22:FB:1615:C:OP1	41:FU:35:LYS:HE3	1.99	0.61
22:FB:402:A:C2	22:FB:2392:G:H4'	2.35	0.61
22:FB:2782:G:H3'	22:FB:2783:U:H5''	1.83	0.61
22:FB:596:C:C5'	33:FM:28:LYS:HZ1	2.02	0.61
22:FB:816:U:H2'	22:FB:817:A:C8	2.36	0.61
27:FG:72:LYS:HD2	27:FG:80:ARG:HA	1.81	0.61
22:FB:2510:A:OP2	28:FH:174:GLY:C	2.38	0.61
22:FB:2540:A:C2'	32:FL:23:ARG:HD2	2.30	0.61
22:FB:2541:U:O2'	32:FL:24:VAL:O	2.09	0.61
43:FW:88:TYR:HB2	43:FW:90:GLU:O	2.00	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:FX:72:LYS:HA	44:FX:72:LYS:HE2	1.81	0.61
1:GA:1197:G:H2'	1:GA:1198:G:C8	2.36	0.61
1:GA:1393:U:OP1	1:GA:1530:G:P	2.59	0.61
1:GA:665:A:H2'	1:GA:725:G:N2	2.15	0.61
8:GH:112:LEU:HD22	8:GH:133:LEU:HA	1.80	0.61
22:HB:419:G:C3'	53:H7:197:GLU:CD	2.69	0.61
22:HB:1861:G:N9	53:H7:199:ASN:CA	2.57	0.61
23:HA:77:G:H1	23:HA:105:G:N2	1.97	0.61
22:HB:1163:C:H2'	22:HB:1164:C:C6	2.35	0.61
22:HB:1312:G:H1'	22:HB:1659:G:N2	2.14	0.61
22:HB:2451:G:H3'	22:HB:2454:C:N4	2.16	0.61
22:HB:2784:A:H2'	22:HB:2785:A:C8	2.35	0.61
22:HB:2859:U:C4	48:H2:34:PRO:CG	2.62	0.61
22:HB:816:U:H2'	22:HB:817:A:C8	2.35	0.61
22:HB:833:A:N1	22:HB:954:U:H1'	2.16	0.61
22:HB:964:A:H61	22:HB:975:C:H42	1.47	0.61
22:HB:1954:A:N6	24:HD:241:GLY:H	1.98	0.61
22:HB:2550:C:HO2'	25:HE:144:ARG:CD	2.13	0.61
32:HL:68:ASP:O	32:HL:69:VAL:HG22	2.00	0.61
34:HN:63:GLY:CA	43:HW:111:GLY:H	2.13	0.61
22:HB:760:U:O4'	40:HT:113:SER:N	2.33	0.61
40:HT:24:GLY:HA3	40:HT:127:ILE:HG12	1.83	0.61
1:IA:1058:G:OP1	3:IC:154:SER:CB	2.49	0.61
1:IA:1226:C:C2	13:IM:104:ARG:CG	2.77	0.61
1:IA:779:C:H2'	1:IA:780:A:H8	1.65	0.61
2:IB:134:GLU:HA	2:IB:137:ARG:HE	1.65	0.61
8:IH:88:LYS:H	8:IH:88:LYS:HD2	1.65	0.61
9:II:50:LEU:HD22	9:II:56:LEU:H	1.65	0.61
22:JB:2324:G:C4'	49:J3:40:TYR:CD1	2.81	0.61
23:JA:44:C:H42	23:JA:47:A:H61	1.49	0.61
22:JB:1265:G:N9	38:JR:14:HIS:NE2	2.47	0.61
22:JB:1312:G:H1'	22:JB:1659:G:N2	2.14	0.61
22:JB:17:G:H5'	48:J2:14:SER:HA	0.74	0.61
22:JB:1948:C:H2'	22:JB:1949:A:N7	2.14	0.61
22:JB:2056:C:C5'	24:JD:229:VAL:HG22	2.30	0.61
22:JB:226:C:O2'	22:JB:2373:C:C4'	2.48	0.61
22:JB:237:G:C4'	22:JB:618:A:H2	2.13	0.61
22:JB:648:A:H4'	22:JB:649:G:H4'	1.81	0.61
22:JB:816:U:H2'	22:JB:817:A:C8	2.35	0.61
22:JB:833:A:N1	22:JB:954:U:H1'	2.16	0.61
22:JB:856:A:C2	22:JB:946:U:N3	2.69	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:JD:151:LYS:HG3	24:JD:152:GLY:H	1.65	0.61
25:JE:20:ALA:N	32:JL:84:ALA:O	2.33	0.61
30:JJ:52:ILE:HG23	30:JJ:53:ILE:H	1.64	0.61
38:JR:87:ASN:CB	39:JS:52:GLY:N	2.63	0.61
42:JV:42:ARG:HB2	42:JV:42:ARG:HH11	1.63	0.61
1:AA:1349:A:N1	7:AG:34:GLY:HA3	2.15	0.61
1:AA:265:G:H4'	17:AQ:65:ILE:CG2	2.30	0.61
1:AA:371:G:H4'	1:AA:482:A:H5'	1.81	0.61
1:AA:761:G:H5'	17:AQ:102:GLY:C	2.20	0.61
1:AA:779:C:H2'	1:AA:780:A:H8	1.65	0.61
1:AA:936:C:H2'	1:AA:937:A:H8	1.64	0.61
2:AB:178:ARG:HD3	2:AB:196:LEU:HB3	1.83	0.61
1:AA:35:G:H5'	12:AL:84:LEU:HD21	1.82	0.61
1:AA:951:G:H22	13:AM:125:ARG:HD2	1.65	0.61
22:BB:2411:A:N6	47:B1:28:ARG:HB3	2.16	0.61
49:B3:10:VAL:HB	49:B3:28:ARG:HD2	1.80	0.61
33:BM:58:ALA:HA	51:B5:9:MET:CG	2.26	0.61
22:BB:1150:C:H5'	22:BB:1154:A:N1	2.15	0.61
22:BB:127:C:C4'	22:BB:1360:G:C2	2.84	0.61
22:BB:1831:G:O4'	22:BB:1910:A:C5'	2.48	0.61
22:BB:1948:C:H2'	22:BB:1949:A:N7	2.14	0.61
22:BB:2784:A:H2'	22:BB:2785:A:C8	2.35	0.61
22:BB:2833:C:H2'	22:BB:2834:A:O4'	2.01	0.61
22:BB:2856:U:C5'	35:BO:94:TYR:CA	2.73	0.61
22:BB:591:G:OP1	38:BR:10:ARG:NH2	2.31	0.61
22:BB:872:G:H2'	22:BB:928:G:O6	2.00	0.61
22:BB:846:A:N6	22:BB:955:G:H1	1.97	0.61
24:BD:136:VAL:HG21	24:BD:165:VAL:HG11	1.81	0.61
28:BH:154:PRO:HG2	28:BH:162:VAL:HG12	1.81	0.61
33:BM:110:ALA:N	33:BM:129:ALA:HB2	2.14	0.61
34:BN:27:TYR:CD2	43:BW:73:LYS:HA	2.35	0.61
22:BB:505:G:H1'	40:BT:78:ASN:HA	1.83	0.61
1:CA:588:G:O5'	8:CH:2:LEU:CB	2.40	0.61
7:CG:145:ALA:HA	7:CG:148:ASN:HB2	1.81	0.61
10:CJ:63:PHE:CA	14:CN:59:ALA:H	2.11	0.61
22:DB:478:G:H5''	50:D4:34:ARG:NH1	2.15	0.61
22:DB:659:G:HO2'	51:D5:48:PHE:HE2	1.48	0.61
22:DB:1412:C:OP1	41:DU:81:ARG:CZ	2.48	0.61
22:DB:1398:G:O4'	22:DB:1416:A:N3	2.34	0.61
22:DB:1908:C:H2'	22:DB:1909:U:H4'	1.82	0.61
22:DB:2245:A:H4'	22:DB:2246:A:H5'	1.81	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:DB:3171:A:H4'	22:DB:3172:U:H5'	1.82	0.61
22:DB:52:A:N6	22:DB:115:G:H1'	2.15	0.61
22:DB:541:C:H41	22:DB:572:G:C1'	2.12	0.61
22:DB:686:C:C2'	26:DF:68:ARG:HH12	2.13	0.61
22:DB:970:A:N6	34:DN:83:ARG:NH2	2.47	0.61
24:DD:120:GLY:O	24:DD:123:ALA:HB2	2.00	0.61
22:DB:2710:C:C3'	25:DE:169:ASN:OD1	2.47	0.61
25:DE:58:LYS:HB2	25:DE:58:LYS:HZ3	1.65	0.61
33:DM:50:GLU:OE1	51:D5:58:MET:HE2	1.99	0.61
36:DP:29:LEU:HD12	36:DP:90:ASP:HA	1.81	0.61
44:DX:67:VAL:HG22	44:DX:68:VAL:HG13	1.83	0.61
1:EA:514:C:H2'	1:EA:515:G:H8	1.64	0.61
19:ES:13:ASP:HA	19:ES:16:LEU:HB2	1.81	0.61
22:FB:2264:C:P	49:F3:28:ARG:CG	2.83	0.61
22:FB:2075:U:OP1	22:FB:2182:A:N3	2.33	0.61
22:FB:2572:U:H2'	22:FB:2573:C:O4'	2.00	0.61
22:FB:2623:A:O3'	22:FB:2624:G:C5'	2.49	0.61
22:FB:2713:A:H3'	25:FE:205:SER:O	2.01	0.61
27:FG:111:ILE:HB	27:FG:114:PHE:CG	2.35	0.61
31:FK:117:GLU:HA	31:FK:120:SER:HB3	1.81	0.61
41:FU:77:LYS:NZ	41:FU:79:ILE:HD11	2.15	0.61
42:FV:42:ARG:HH11	42:FV:42:ARG:HB2	1.63	0.61
22:FB:338:G:N2	42:FV:77:HIS:HE2	1.97	0.61
43:FW:115:ILE:O	43:FW:116:VAL:HG22	2.01	0.61
23:FA:98:C:C5	43:FW:11:LYS:HD2	2.34	0.61
23:FA:14:C:C2	44:FX:53:MET:CA	2.81	0.61
44:FX:67:VAL:HG22	44:FX:68:VAL:HG13	1.83	0.61
1:GA:1106:G:OP1	3:GC:172:ARG:HA	2.01	0.61
1:GA:1238:A:H2	1:GA:1241:G:H1'	1.64	0.61
1:GA:1349:A:H5''	9:GI:121:ARG:CG	2.18	0.61
1:GA:1067:A:H4'	1:GA:1387:G:H4'	1.83	0.61
1:GA:408:A:H2'	1:GA:409:G:H8	1.65	0.61
1:GA:629:G:N2	1:GA:631:G:H22	1.98	0.61
1:GA:648:A:H2'	1:GA:649:G:H8	1.66	0.61
3:GC:119:ARG:HG2	3:GC:123:GLN:NE2	2.15	0.61
7:GG:17:VAL:HG23	9:GI:41:VAL:CG1	2.30	0.61
49:H3:41:ASP:HA	49:H3:47:HIS:HA	1.82	0.61
51:H5:41:ILE:HG23	51:H5:42:ARG:HG2	1.81	0.61
22:HB:1389:C:O2'	50:H4:14:LYS:HE3	1.99	0.61
22:HB:1437:A:C2	22:HB:1438:G:O6	2.54	0.61
22:HB:1746:A:OP1	37:HQ:124:VAL:CG2	2.46	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:HB:1861:G:C3'	22:HB:1862:C:P	2.87	0.61
22:HB:1948:C:H2'	22:HB:1949:A:N7	2.14	0.61
22:HB:2451:G:H2'	22:HB:2508:G:N2	2.15	0.61
22:HB:2586:G:H2'	22:HB:2587:G:O4'	2.00	0.61
22:HB:340:G:N2	22:HB:488:A:N6	2.49	0.61
22:HB:512:A:H5''	40:HT:17:GLN:CG	2.08	0.61
24:HD:136:VAL:HG21	24:HD:165:VAL:HG11	1.81	0.61
32:HL:23:ARG:HB3	32:HL:52:VAL:HB	1.83	0.61
22:HB:1468:A:N1	35:HO:80:MET:HB2	2.15	0.61
41:HU:53:ILE:HD11	41:HU:78:ALA:HB1	1.81	0.61
1:IA:629:G:N2	1:IA:631:G:H22	1.98	0.61
1:IA:827:U:H5'	8:IH:15:ASN:O	2.01	0.61
1:IA:936:C:H2'	1:IA:937:A:H8	1.64	0.61
1:IA:1291:G:H5''	7:IG:41:ARG:CD	2.25	0.61
1:IA:586:C:H4'	8:IH:89:PRO:O	1.90	0.61
1:IA:636:U:OP1	17:IQ:5:VAL:CA	2.47	0.61
20:IT:88:VAL:HB	20:IT:92:LEU:HB2	1.82	0.61
22:JB:2505:G:C3'	52:J6:33:LYS:O	2.47	0.61
23:JA:42:U:H2'	23:JA:45:C:H41	1.64	0.61
23:JA:77:G:H1	23:JA:105:G:N2	1.97	0.61
23:JA:78:A:C5'	43:JW:10:PRO:HB3	2.30	0.61
22:JB:116:A:H2'	22:JB:118:U:H5	1.66	0.61
22:JB:802:A:H4'	22:JB:1771:A:H62	1.66	0.61
22:JB:2043:A:H8	26:JF:62:LYS:CE	2.11	0.61
22:JB:871:U:O2	22:JB:2248:A:OP2	2.17	0.61
22:JB:2259:G:O6	44:JX:12:ASN:HB3	1.94	0.61
22:JB:2586:G:H2'	22:JB:2587:G:O4'	2.00	0.61
22:JB:2826:C:H5'	35:JO:61:HIS:NE2	2.15	0.61
22:JB:52:A:N6	22:JB:115:G:H1'	2.15	0.61
22:JB:53:G:H5'	50:J4:36:ALA:HB2	1.82	0.61
22:JB:718:A:N6	22:JB:739:G:H1'	2.15	0.61
22:JB:75:C:N3	45:JY:59:GLU:HB3	2.15	0.61
22:JB:839:U:H5'	22:JB:2407:G:C2'	2.30	0.61
27:JG:111:ILE:HB	27:JG:114:PHE:CG	2.35	0.61
34:JN:102:ARG:HB3	34:JN:102:ARG:NH1	2.15	0.61
22:JB:2669:C:O5'	35:JO:17:ARG:NH1	2.33	0.61
37:JQ:40:ARG:HE	37:JQ:91:VAL:HG23	1.66	0.61
22:JB:348:U:H5''	42:JV:13:LYS:HB3	1.79	0.61
1:AA:147:G:C6	1:AA:176:C:H1'	2.35	0.61
1:AA:346:G:OP1	37:BQ:51:GLU:CD	2.38	0.61
1:AA:663:A:H4'	18:AR:64:ARG:NH1	1.98	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:560:U:H3	5:AE:88:LYS:HZ1	1.47	0.61
8:AH:85:ARG:NH1	8:AH:89:PRO:HD3	2.16	0.61
9:AI:50:LEU:HD22	9:AI:56:LEU:H	1.65	0.61
1:AA:668:G:N9	15:AO:46:HIS:CA	2.63	0.61
15:AO:89:GLY:N	22:BB:729:A:OP2	2.34	0.61
1:AA:331:G:O5'	20:AT:10:LEU:HG	1.99	0.61
49:B3:10:VAL:HG13	49:B3:26:LYS:HB3	1.82	0.61
22:BB:122:G:OP1	22:BB:1389:C:H4'	2.01	0.61
22:BB:1240:G:H2'	22:BB:1241:G:C8	2.36	0.61
22:BB:1397:A:C6	22:BB:1418:C:C2	2.87	0.61
22:BB:1436:G:C2	22:BB:1514:C:N3	2.68	0.61
22:BB:191:G:O2'	22:BB:193:A:H4'	2.00	0.61
22:BB:2008:C:C2	31:BK:103:TYR:OH	2.29	0.61
22:BB:219:G:H3'	51:B5:5:LYS:NZ	2.16	0.61
22:BB:2340:C:H2'	22:BB:2341:G:C8	2.36	0.61
22:BB:2344:G:C5'	44:BX:42:GLY:CA	2.79	0.61
22:BB:2586:G:H2'	22:BB:2587:G:O4'	2.00	0.61
22:BB:2782:G:H3'	22:BB:2783:U:H5''	1.83	0.61
22:BB:297:A:N6	22:BB:366:U:H3	1.97	0.61
22:BB:3123:G:C2	53:B7:33:ILE:CD1	2.83	0.61
22:BB:596:C:H5''	33:BM:28:LYS:NZ	2.16	0.61
22:BB:6:A:H5'	31:BK:162:LYS:HZ1	1.63	0.61
31:BK:117:GLU:HA	31:BK:120:SER:HB3	1.82	0.61
37:BQ:55:ILE:HA	37:BQ:71:ILE:HG21	1.82	0.61
40:BT:62:ARG:NH1	40:BT:64:ALA:HB2	2.16	0.61
1:CA:2003:G:N2	1:CA:1038:C:H42	1.99	0.61
1:CA:1206:G:H5'	3:CC:194:GLY:HA2	1.83	0.61
9:CI:50:LEU:HD22	9:CI:56:LEU:H	1.66	0.61
10:CJ:31:GLY:HA2	10:CJ:78:ASN:ND2	2.16	0.61
14:CN:4:LYS:HB3	14:CN:7:ILE:HD12	1.81	0.61
22:DB:2040:A:C4	48:D2:3:LYS:C	2.66	0.61
22:DB:2000:U:O2'	48:D2:8:LYS:C	2.38	0.61
23:DA:44:C:H42	23:DA:47:A:H61	1.49	0.61
22:DB:1007:A:H5'	38:DR:94:VAL:HG23	1.81	0.61
22:DB:1667:A:H2'	22:DB:1668:G:H8	1.64	0.61
22:DB:2598:C:H5''	25:DE:152:LYS:HE2	1.82	0.61
22:DB:2628:C:C2'	32:DL:29:ILE:CD1	2.78	0.61
22:DB:503:G:O3'	40:DT:29:LYS:HD2	2.01	0.61
22:DB:636:G:H2'	22:DB:637:G:H5'	1.82	0.61
22:DB:648:A:H4'	22:DB:649:G:H4'	1.81	0.61
22:DB:7:G:C2'	31:DK:163:PRO:HG2	2.30	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:DB:2659:C:O4'	25:DE:187:ALA:CA	2.48	0.61
32:DL:68:ASP:O	32:DL:69:VAL:HG22	2.01	0.61
42:DV:42:ARG:HH11	42:DV:42:ARG:HB2	1.63	0.61
1:EA:1100:C:C6	2:EB:98:LEU:CD1	2.81	0.61
1:EA:1176:A:N6	1:EA:1181:G:H1	1.99	0.61
1:EA:518:C:H1'	12:EL:51:ALA:N	2.13	0.61
1:EA:519:C:H3'	1:EA:520:A:C8	2.35	0.61
7:EG:145:ALA:HA	7:EG:148:ASN:HB2	1.81	0.61
12:EL:41:ARG:HB3	12:EL:41:ARG:NH1	2.15	0.61
17:EQ:26:GLN:HG2	17:EQ:37:LYS:HA	1.83	0.61
1:EA:128:G:H4'	17:EQ:61:GLU:HB3	1.82	0.61
22:FB:2182:A:O2'	47:F1:43:TRP:HE3	1.83	0.61
22:FB:2040:A:HO2'	48:F2:3:LYS:HG2	1.64	0.61
22:FB:1030:U:OP2	22:FB:1046:U:C4'	2.49	0.61
22:FB:1150:C:H5'	22:FB:1154:A:N1	2.15	0.61
22:FB:1240:G:H2'	22:FB:1241:G:C8	2.36	0.61
22:FB:1835:C:H5'	24:FD:255:LYS:HZ3	1.61	0.61
22:FB:1828:C:O2'	22:FB:1912:G:P	2.58	0.61
22:FB:1992:G:H5''	40:FT:62:ARG:C	2.21	0.61
22:FB:2559:U:H3'	22:FB:2560:G:N2	2.08	0.61
22:FB:2636:A:OP2	28:FH:181:GLY:CA	2.49	0.61
22:FB:2797:G:H2'	22:FB:2797:G:N3	2.15	0.61
22:FB:507:A:C8	40:FT:21:ARG:HG2	2.31	0.61
22:FB:872:G:H2'	22:FB:928:G:O6	2.00	0.61
24:FD:108:PRO:HG3	24:FD:194:GLY:HA3	1.82	0.61
31:FK:43:VAL:HG22	31:FK:81:VAL:HG21	1.82	0.61
22:FB:2684:A:N1	35:FO:60:LEU:HD23	2.15	0.61
39:FS:32:LYS:HD2	39:FS:62:GLU:HB3	1.83	0.61
22:FB:1237:G:C5'	39:FS:87:ARG:HE	2.13	0.61
22:FB:528:G:H5''	40:FT:35:PRO:O	1.96	0.61
1:GA:1310:G:H5'	13:GM:80:ARG:HH21	1.64	0.61
1:GA:1320:C:O3'	19:GS:3:ARG:CZ	2.49	0.61
1:GA:1391:U:O2'	1:GA:1531:A:O2'	2.16	0.61
1:GA:251:G:H4'	1:GA:252:U:OP1	2.00	0.61
1:GA:497:A:H2'	1:GA:497:A:N3	2.16	0.61
1:GA:514:C:H2'	1:GA:515:G:H8	1.65	0.61
1:GA:694:A:OP1	11:GK:53:SER:HA	1.99	0.61
1:GA:779:C:H2'	1:GA:780:A:C8	2.35	0.61
1:GA:439:A:H5'	4:GD:122:ARG:HH22	1.64	0.61
1:GA:1081:G:C5	5:GE:47:LYS:NZ	2.68	0.61
5:GE:82:VAL:HB	5:GE:137:GLU:HB2	1.83	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:GM:88:ARG:CG	13:GM:98:VAL:HG12	2.29	0.61
1:GA:1187:G:N3	14:GN:61:TRP:N	2.48	0.61
47:H1:48:ARG:HH21	47:H1:49:PHE:HB3	1.64	0.61
22:HB:3875:A:C2	53:H7:42:LYS:O	2.54	0.61
22:HB:115:G:P	22:HB:118:U:OP1	2.57	0.61
1:GA:1483:A:C2	22:HB:1943:A:H1'	2.35	0.61
22:HB:2557:G:N3	25:HE:133:LYS:CD	2.52	0.61
22:HB:2615:U:H4'	25:HE:79:ARG:NH2	2.14	0.61
22:HB:3171:A:H4'	22:HB:3172:U:H5'	1.83	0.61
22:HB:52:A:N6	22:HB:115:G:H1'	2.16	0.61
22:HB:767:G:H4'	22:HB:1285:A:N1	2.15	0.61
24:HD:213:ARG:HD3	24:HD:219:PRO:HG3	1.81	0.61
25:HE:1:MET:N	25:HE:199:ARG:HH12	1.99	0.61
40:HT:102:THR:HG22	40:HT:121:THR:HG22	1.82	0.61
43:HW:3:LEU:HD23	43:HW:54:ILE:HG12	1.82	0.61
45:HY:41:HIS:HD1	45:HY:45:GLN:HB2	1.65	0.61
22:HB:71:A:O4'	45:HY:54:ASN:O	2.19	0.61
1:IA:590:C:H5''	8:IH:30:ARG:CZ	2.19	0.61
1:IA:620:C:C4'	4:ID:138:TYR:HE1	2.05	0.61
1:IA:648:A:H2'	1:IA:649:G:H8	1.66	0.61
1:IA:939:G:H2'	1:IA:940:C:C6	2.35	0.61
1:IA:1100:C:C6	2:IB:98:LEU:HD21	2.36	0.61
3:IC:119:ARG:HG2	3:IC:123:GLN:NE2	2.15	0.61
1:IA:511:C:P	4:ID:43:HIS:ND1	2.71	0.61
1:IA:597:G:N2	8:IH:94:TYR:CD2	2.65	0.61
12:IL:41:ARG:HB3	12:IL:41:ARG:NH1	2.15	0.61
13:IM:23:TYR:HD2	13:IM:67:GLU:HG2	1.66	0.61
19:IS:30:LEU:H	19:IS:48:THR:HB	1.66	0.61
1:IA:958:A:C4'	19:IS:55:LYS:HZ2	2.14	0.61
22:JB:17:G:C5'	48:J2:14:SER:CA	2.51	0.61
22:JB:1003:C:P	38:JR:47:TYR:OH	2.59	0.61
22:JB:113:C:C1'	22:JB:125:A:O4'	2.48	0.61
22:JB:1265:G:H1'	38:JR:32:TYR:CZ	2.34	0.61
22:JB:1741:G:C5	37:JQ:125:MET:SD	2.93	0.61
22:JB:3197:U:C2'	22:JB:2181:A:OP1	2.18	0.61
22:JB:2613:A:H2'	22:JB:2614:A:H8	1.66	0.61
22:JB:714:G:H4'	22:JB:1648:C:N3	2.15	0.61
22:JB:857:U:C2	22:JB:860:U:O4	2.53	0.61
22:JB:891:A:N6	22:JB:909:C:C4	2.68	0.61
22:JB:2614:A:C2	25:JE:79:ARG:NH1	2.68	0.61
27:JG:72:LYS:HD2	27:JG:80:ARG:HA	1.81	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:JJ:111:LYS:HZ1	30:JJ:115:LEU:HG	1.65	0.61
35:JO:58:GLY:HA2	35:JO:63:ARG:HE	1.64	0.61
36:JP:29:LEU:HD12	36:JP:90:ASP:HA	1.81	0.61
22:JB:1007:A:C5'	38:JR:93:LYS:HG3	2.29	0.61
39:JS:21:ARG:HE	39:JS:22:VAL:H	1.49	0.61
1:AA:1347:G:H8	9:AI:107:ARG:C	2.03	0.61
1:AA:332:G:C4'	20:AT:13:LEU:CG	2.78	0.61
1:AA:720:C:H5''	18:AR:52:PRO:CG	2.31	0.61
1:AA:761:G:C2	17:AQ:104:LYS:O	2.53	0.61
4:AD:10:ARG:HH21	4:AD:14:ARG:NE	1.99	0.61
8:AH:26:VAL:O	8:AH:59:LEU:HB2	2.00	0.61
1:AA:1229:A:O5'	13:AM:119:GLY:N	2.33	0.61
10:AJ:51:ARG:CA	14:AN:45:ARG:HD2	2.31	0.61
22:BB:501:G:N2	22:BB:1334:A:OP2	2.30	0.61
22:BB:12:U:H2'	22:BB:13:A:H5'	1.82	0.61
22:BB:1887:G:C6	22:BB:1888:C:C2	2.88	0.61
22:BB:1908:C:H2'	22:BB:1909:U:H4'	1.83	0.61
22:BB:1982:C:H2'	22:BB:1983:G:H8	1.64	0.61
22:BB:2255:G:OP2	34:BN:85:GLY:C	2.39	0.61
22:BB:2370:G:H2'	22:BB:2371:A:P	2.40	0.61
22:BB:2559:U:H3'	22:BB:2560:G:N2	2.08	0.61
22:BB:2572:U:H2'	22:BB:2573:C:O4'	2.00	0.61
22:BB:505:G:N9	40:BT:82:ASN:HB3	2.14	0.61
22:BB:540:G:C4	22:BB:2018:G:H5''	2.34	0.61
22:BB:777:A:O5'	24:BD:208:LYS:HE2	2.01	0.61
37:BQ:40:ARG:HE	37:BQ:91:VAL:HG23	1.66	0.61
22:BB:494:A:C4	42:BV:56:LYS:CG	2.83	0.61
1:CA:1063:C:O2'	1:CA:1386:G:H5''	2.01	0.61
4:CD:10:ARG:HH21	4:CD:14:ARG:NE	1.99	0.61
1:CA:407:G:HO2'	4:CD:116:GLN:CD	1.97	0.61
1:CA:8:A:H4'	5:CE:103:GLY:HA2	1.82	0.61
7:CG:49:ILE:HG12	7:CG:53:LYS:HZ3	1.65	0.61
1:CA:227:G:N2	16:CP:62:VAL:HB	2.15	0.61
49:D3:10:VAL:HB	49:D3:28:ARG:HD2	1.81	0.61
22:DB:1237:G:O2'	39:DS:87:ARG:N	2.34	0.61
22:DB:124:A:H62	50:D4:18:PHE:HE2	1.43	0.61
22:DB:594:G:H22	22:DB:1266:G:P	2.24	0.61
22:DB:1982:C:H2'	22:DB:1983:G:H8	1.64	0.61
22:DB:2559:U:H3'	22:DB:2560:G:N2	2.08	0.61
22:DB:2632:U:N3	28:DH:110:SER:CB	2.64	0.61
22:DB:2728:A:O4'	28:DH:67:LEU:CG	2.49	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:DB:2782:G:H3'	22:DB:2783:U:H5''	1.83	0.61
22:DB:864:C:C4'	46:DZ:43:MET:HG3	2.28	0.61
22:DB:872:G:H2'	22:DB:928:G:O6	2.00	0.61
22:DB:891:A:C2	22:DB:909:C:N3	2.55	0.61
22:DB:917:U:H1'	43:DW:166:LEU:HD11	1.79	0.61
24:DD:72:LYS:NZ	24:DD:75:VAL:HG21	2.14	0.61
32:DL:78:SER:HA	32:DL:90:ARG:HD3	1.81	0.61
32:DL:113:PRO:CG	37:DQ:76:GLY:HA2	2.31	0.61
38:DR:54:LYS:HE2	38:DR:93:LYS:HZ1	1.64	0.61
1:EA:2003:G:N2	1:EA:1038:C:H42	1.99	0.61
1:EA:1517:G:C8	22:FB:1903:C:P	2.93	0.61
1:EA:497:A:N3	1:EA:497:A:H2'	2.16	0.61
1:EA:633:G:OP1	8:EH:99:GLU:OE2	2.19	0.61
1:EA:779:C:H2'	1:EA:780:A:H8	1.65	0.61
1:EA:1074:G:C1'	2:EB:104:ASN:HB2	2.30	0.61
2:EB:178:ARG:HD3	2:EB:196:LEU:HB3	1.83	0.61
4:ED:10:ARG:HH21	4:ED:14:ARG:NE	1.99	0.61
4:ED:10:ARG:HH22	4:ED:66:ARG:NH1	1.98	0.61
7:EG:103:TRP:NE1	7:EG:137:LYS:HB2	2.16	0.61
1:EA:1092:A:C5'	7:EG:4:ARG:CD	2.79	0.61
1:EA:589:C:H3'	8:EH:31:PHE:H	1.60	0.61
8:EH:25:ASP:HA	8:EH:59:LEU:O	2.01	0.61
8:EH:88:LYS:H	8:EH:88:LYS:HD2	1.65	0.61
8:EH:85:ARG:NH1	8:EH:89:PRO:HD3	2.16	0.61
1:EA:707:C:OP1	11:EK:22:HIS:NE2	2.34	0.61
1:EA:523:A:N6	12:EL:90:VAL:HG13	2.13	0.61
13:EM:23:TYR:HD2	13:EM:67:GLU:HG2	1.65	0.61
20:ET:88:VAL:HB	20:ET:92:LEU:HB2	1.82	0.61
49:F3:10:VAL:HG13	49:F3:26:LYS:HB3	1.82	0.61
22:FB:1982:C:H2'	22:FB:1983:G:H8	1.64	0.61
22:FB:2263:C:H5'	49:F3:8:ILE:HD11	0.65	0.61
22:FB:2451:G:H3'	22:FB:2454:C:N4	2.15	0.61
22:FB:2797:G:OP1	25:FE:111:LYS:CE	2.48	0.61
22:FB:502:A:N1	40:FT:28:ALA:HB1	2.16	0.61
22:FB:795:A:H62	24:FD:222:ARG:NE	1.98	0.61
22:FB:1954:A:C6	24:FD:240:THR:HB	2.35	0.61
30:FJ:125:ASN:H	30:FJ:125:ASN:ND2	1.99	0.61
1:GA:779:C:H2'	1:GA:780:A:H8	1.65	0.61
1:GA:939:G:H2'	1:GA:940:C:C6	2.35	0.61
4:GD:161:ASN:HD22	4:GD:162:LEU:N	1.99	0.61
1:GA:18:C:H5''	5:GE:130:ASN:HD21	1.60	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:GJ:39:PRO:HA	10:GJ:70:ARG:HH11	1.65	0.61
1:GA:1309:G:C4'	13:GM:81:LEU:HD11	2.27	0.61
17:GQ:57:VAL:HG23	17:GQ:59:ILE:HD11	1.83	0.61
11:GK:116:HIS:CD2	18:GR:81:PHE:CD2	2.88	0.61
22:HB:2603:G:O2'	48:H2:21:SER:O	2.10	0.61
23:HA:44:C:H42	23:HA:47:A:H61	1.49	0.61
22:HB:237:G:O4'	22:HB:618:A:N3	2.33	0.61
22:HB:2448:A:H4'	34:HN:57:ARG:CZ	2.27	0.61
22:HB:2537:C:H2'	22:HB:2538:C:H6	1.66	0.61
22:HB:300:C:N4	22:HB:363:G:H1'	2.16	0.61
22:HB:54:G:N2	22:HB:124:A:C2	2.68	0.61
22:HB:648:A:H4'	22:HB:649:G:H4'	1.81	0.61
22:HB:1141:U:O4	25:HE:147:PRO:CB	2.49	0.61
23:HA:59:A:C4	27:HG:24:SER:OG	2.53	0.61
25:HE:151:TYR:CA	31:HK:106:TYR:CE2	2.65	0.61
22:HB:2474:G:H5''	34:HN:84:MET:SD	2.41	0.61
35:HO:41:ALA:HA	35:HO:44:LEU:HB3	1.83	0.61
37:HQ:55:ILE:HA	37:HQ:71:ILE:HG21	1.82	0.61
22:HB:1630:A:H62	40:HT:114:ALA:HB2	1.50	0.61
43:HW:115:ILE:O	43:HW:116:VAL:HG22	2.01	0.61
44:HX:67:VAL:HG22	44:HX:68:VAL:HG13	1.82	0.61
1:IA:815:A:O2'	1:IA:1526:G:N1	2.12	0.61
1:IA:514:C:H2'	1:IA:515:G:H8	1.64	0.61
1:IA:642:A:C8	8:IH:116:LYS:C	2.74	0.61
1:IA:720:C:H1'	18:IR:50:ILE:CD1	2.29	0.61
5:IE:50:GLU:HB2	5:IE:53:LEU:HG	1.82	0.61
7:IG:45:ASP:O	7:IG:49:ILE:HG13	2.01	0.61
1:IA:588:G:P	8:IH:31:PHE:HZ	1.96	0.61
1:IA:599:C:H5''	8:IH:97:VAL:CG1	2.21	0.61
10:IJ:7:LYS:HG2	10:IJ:9:ARG:HH12	1.63	0.61
1:IA:537:G:C2'	12:IL:115:LYS:HE3	2.25	0.61
1:IA:1226:C:C2'	19:IS:80:TYR:CE2	2.83	0.61
22:JB:115:G:O2'	50:J4:28:ARG:NH1	2.34	0.61
22:JB:1468:A:H61	35:JO:80:MET:CB	2.12	0.61
22:JB:1745:C:O2'	37:JQ:113:LYS:HE3	1.99	0.61
22:JB:1829:C:H5'	22:JB:1911:A:O5'	2.01	0.61
22:JB:2056:C:H5''	24:JD:229:VAL:HG13	1.81	0.61
22:JB:2782:G:H3'	22:JB:2783:U:H5''	1.83	0.61
22:JB:953:G:C5'	33:JM:38:LYS:CA	2.76	0.61
24:JD:136:VAL:HG21	24:JD:165:VAL:HG11	1.81	0.61
24:JD:253:PRO:HD2	24:JD:255:LYS:HE2	1.81	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:JG:33:LYS:O	27:JG:156:ILE:HG12	1.99	0.61
22:JB:2510:A:O5'	28:JH:174:GLY:O	2.18	0.61
22:JB:1204:G:O5'	33:JM:37:GLN:CD	2.39	0.61
33:JM:61:PRO:N	51:J5:27:SER:OG	2.34	0.61
22:JB:2820:C:P	37:JQ:62:SER:HG	2.23	0.61
38:JR:87:ASN:HD22	39:JS:50:ASP:CG	2.04	0.61
40:JT:62:ARG:NH1	40:JT:64:ALA:HB2	2.15	0.61
22:JB:339:U:O2'	42:JV:77:HIS:N	2.34	0.61
43:JW:115:ILE:O	43:JW:116:VAL:HG22	2.01	0.61
43:JW:3:LEU:HD23	43:JW:54:ILE:HG12	1.82	0.61
43:JW:98:VAL:HG21	43:JW:168:VAL:HG11	1.82	0.61
1:AA:1061:G:H5'	10:AJ:58:ASP:CA	2.30	0.61
1:AA:1080:A:O2'	5:AE:17:ALA:O	2.19	0.61
1:AA:1063:C:O2'	1:AA:1386:G:H5''	2.01	0.61
1:AA:131:C:O2'	1:AA:262:A:H1'	2.01	0.61
1:AA:410:G:H2'	1:AA:429:U:O4	2.00	0.61
3:AC:114:PRO:HG3	3:AC:185:GLY:N	2.16	0.61
5:AE:50:GLU:HB2	5:AE:53:LEU:HG	1.82	0.61
1:AA:1349:A:C3'	9:AI:121:ARG:HG2	2.30	0.61
23:BA:92:G:C6	34:BN:39:GLU:CD	2.74	0.61
22:BB:51:A:N7	22:BB:116:A:N1	2.49	0.61
22:BB:767:G:H4'	22:BB:1285:A:N1	2.15	0.61
22:BB:1417:C:P	22:BB:1485:U:O2'	2.59	0.61
22:BB:1927:U:O2	22:BB:1938:U:H5''	2.01	0.61
22:BB:2803:C:H2'	22:BB:2804:G:H8	1.65	0.61
22:BB:355:G:H21	22:BB:356:A:N6	1.99	0.61
22:BB:483:A:C2'	22:BB:484:G:H5'	2.30	0.61
24:BD:120:GLY:O	24:BD:123:ALA:HB2	2.00	0.61
22:BB:569:C:P	31:BK:137:LYS:CE	2.89	0.61
32:BL:68:ASP:O	32:BL:69:VAL:HG22	2.00	0.61
35:BO:41:ALA:HA	35:BO:44:LEU:HB3	1.83	0.61
37:BQ:77:VAL:HG12	37:BQ:78:GLU:HG2	1.81	0.61
22:BB:503:G:H1'	40:BT:28:ALA:HA	1.82	0.61
44:BX:67:VAL:HG22	44:BX:68:VAL:HG13	1.82	0.61
41:BU:8:GLN:HG3	45:BY:26:MET:HE2	1.82	0.61
1:CA:1176:A:N6	1:CA:1181:G:H1	1.99	0.61
1:CA:1298:C:C5	7:CG:114:ARG:CG	2.83	0.61
1:CA:519:C:H3'	1:CA:520:A:C8	2.35	0.61
1:CA:523:A:C5	12:CL:90:VAL:HG22	2.36	0.61
1:CA:523:A:N7	12:CL:90:VAL:HG22	2.15	0.61
1:CA:839:G:HO2'	1:CA:840:G:H8	1.49	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:9:G:H4'	5:CE:104:ALA:HB3	1.81	0.61
1:CA:1230:C:C5	13:CM:125:ARG:HD3	2.36	0.61
22:DB:176:A:C5	47:D1:30:GLU:CB	2.63	0.61
22:DB:588:G:C1'	48:D2:10:LYS:HZ3	2.06	0.61
22:DB:1130:U:H2'	22:DB:1131:G:H8	1.66	0.61
22:DB:116:A:H2'	22:DB:118:U:H5	1.66	0.61
22:DB:1927:U:O2	22:DB:1938:U:H5''	2.01	0.61
22:DB:2284:U:OP1	27:DG:152:MET:CA	2.48	0.61
22:DB:2586:G:H2'	22:DB:2587:G:O4'	2.00	0.61
22:DB:512:A:C4'	40:DT:15:LYS:NZ	2.64	0.61
22:DB:878:C:H4'	22:DB:879:A:N7	2.16	0.61
32:DL:23:ARG:HB3	32:DL:52:VAL:HB	1.83	0.61
37:DQ:55:ILE:H	37:DQ:55:ILE:CD1	2.07	0.61
22:DB:1162:A:O3'	38:DR:81:ASN:CB	2.47	0.61
38:DR:91:ASN:HD21	39:DS:10:LYS:HG2	1.64	0.61
1:EA:1382:C:O3'	7:EG:79:ARG:CZ	2.49	0.61
2:EB:187:LEU:HD13	2:EB:188:ALA:N	2.15	0.61
1:EA:640:A:H3'	8:EH:116:LYS:HD3	1.82	0.61
1:EA:968:A:H2'	9:EI:128:ARG:HG3	1.82	0.61
17:EQ:101:ARG:HE	17:EQ:101:ARG:HA	1.66	0.61
49:F3:41:ASP:HA	49:F3:47:HIS:HA	1.83	0.61
49:F3:26:LYS:HZ1	51:F5:33:ASN:ND2	1.97	0.61
23:FA:44:C:H4'	27:FG:64:LYS:CE	2.30	0.61
22:FB:1397:A:N1	22:FB:1418:C:C4	2.68	0.61
22:FB:1667:A:H2'	22:FB:1668:G:H8	1.65	0.61
22:FB:1927:U:O2	22:FB:1938:U:H5''	2.01	0.61
22:FB:2040:A:O2'	48:F2:3:LYS:HB2	1.97	0.61
22:FB:2245:A:H4'	22:FB:2246:A:H5'	1.82	0.61
22:FB:2586:G:H2'	22:FB:2587:G:O4'	2.00	0.61
22:FB:2652:G:O2'	32:FL:46:HIS:CE1	2.54	0.61
22:FB:297:A:N6	22:FB:366:U:H3	1.97	0.61
22:FB:3115:G:N7	22:FB:3117:A:H3'	2.15	0.61
22:FB:402:A:N1	22:FB:2392:G:H4'	2.15	0.61
22:FB:802:A:H4'	22:FB:1771:A:H62	1.65	0.61
24:FD:120:GLY:O	24:FD:123:ALA:HB2	2.00	0.61
22:FB:593:C:O3'	26:FF:82:VAL:CG1	2.49	0.61
31:FK:116:ARG:NH1	31:FK:119:LEU:HD12	2.16	0.61
33:FM:112:GLY:HA2	33:FM:131:LYS:O	2.00	0.61
22:FB:1293:A:OP1	35:FO:33:ARG:CZ	2.49	0.61
22:FB:489:A:OP1	42:FV:4:PRO:O	2.18	0.61
20:AT:100:ILE:O	1:GA:179:A:H2'	2.01	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:GA:73:C:H2'	1:GA:74:G:C8	2.36	0.61
2:GB:178:ARG:HD3	2:GB:196:LEU:HB3	1.83	0.61
5:GE:72:GLN:HE22	5:GE:145:LYS:N	1.98	0.61
1:GA:1398:A:C4	5:GE:21:ALA:C	2.73	0.61
7:GG:153:HIS:HE1	11:GK:59:TYR:CG	2.18	0.61
7:GG:45:ASP:O	7:GG:49:ILE:HG13	2.01	0.61
1:GA:694:A:H5'	11:GK:53:SER:N	2.15	0.61
13:GM:23:TYR:HD2	13:GM:67:GLU:HG2	1.65	0.61
17:GQ:56:VAL:HG21	17:GQ:84:LEU:HD13	1.82	0.61
13:GM:85:GLY:O	19:GS:74:PHE:HA	1.99	0.61
1:GA:186:C:O2'	20:GT:82:SER:N	2.33	0.61
22:HB:116:A:H2'	22:HB:118:U:H5	1.66	0.61
22:HB:1585:A:H1'	24:HD:60:ARG:HH12	1.64	0.61
22:HB:165:G:P	47:H1:12:CYS:O	2.59	0.61
22:HB:1743:C:N4	37:HQ:125:MET:HA	2.16	0.61
22:HB:1908:C:H2'	22:HB:1909:U:H4'	1.82	0.61
22:HB:1927:U:O2	22:HB:1938:U:H5''	2.01	0.61
22:HB:2254:C:O2'	34:HN:86:LYS:CG	2.44	0.61
22:HB:2329:C:H5''	51:H5:42:ARG:CG	2.31	0.61
22:HB:2613:A:H2'	22:HB:2614:A:H8	1.66	0.61
22:HB:2861:A:N7	48:H2:40:LYS:CE	2.41	0.61
22:HB:3177:C:O3'	53:H7:163:PRO:HG3	2.00	0.61
22:HB:714:G:H4'	22:HB:1648:C:N3	2.15	0.61
22:HB:875:G:H2'	22:HB:876:A:C8	2.35	0.61
22:HB:872:G:H2'	22:HB:928:G:O6	2.00	0.61
27:HG:72:LYS:HG2	27:HG:81:GLN:NE2	2.16	0.61
33:HM:108:LEU:HB2	33:HM:126:SER:HB3	1.82	0.61
34:HN:47:GLN:NE2	34:HN:121:LEU:HB3	2.15	0.61
45:HY:46:LEU:HD23	45:HY:49:GLU:HB3	1.81	0.61
1:IA:1205:U:H5'	3:IC:195:VAL:CG2	2.31	0.61
1:IA:531:U:N3	1:IA:1208:C:O2'	2.33	0.61
1:IA:1195:C:C5'	1:IA:1398:A:H62	2.14	0.61
1:IA:560:U:H5'	1:IA:562:C:OP1	2.00	0.61
1:IA:670:G:H21	6:IF:77:ARG:CZ	2.13	0.61
1:IA:73:C:H2'	1:IA:74:G:C8	2.36	0.61
2:IB:149:LEU:HB3	2:IB:153:ARG:HG3	1.82	0.61
2:IB:178:ARG:HD3	2:IB:196:LEU:HB3	1.82	0.61
8:IH:39:LEU:HB3	8:IH:45:ILE:HG12	1.83	0.61
8:IH:85:ARG:NH1	8:IH:89:PRO:HD3	2.16	0.61
13:IM:87:TYR:HA	19:IS:76:PRO:CD	2.28	0.61
10:IJ:64:GLU:CG	14:IN:58:LYS:C	2.69	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:IA:657:G:C2'	15:IO:23:GLY:CA	2.77	0.61
1:IA:730:G:C2	15:IO:51:HIS:NE2	2.48	0.61
20:IT:26:ASN:HA	20:IT:29:LYS:HD2	1.83	0.61
51:J5:7:HIS:HA	51:J5:10:ALA:CB	2.30	0.61
22:JB:3122:U:H6	53:J7:131:ARG:HA	1.57	0.61
22:JB:1001:A:H4'	46:JZ:27:LYS:HZ1	1.58	0.61
22:JB:2338:C:H5''	51:J5:50:LEU:HD22	1.82	0.61
22:JB:2602:G:H4'	22:JB:2800:C:H4'	1.83	0.61
22:JB:3165:G:N7	53:J7:102:LYS:NZ	2.46	0.61
22:JB:875:G:H2'	22:JB:876:A:C8	2.35	0.61
30:JJ:125:ASN:HD22	30:JJ:125:ASN:N	1.97	0.61
30:JJ:21:PRO:HB2	30:JJ:22:PRO:CD	2.28	0.61
33:JM:108:LEU:HB2	33:JM:126:SER:HB3	1.82	0.61
36:JP:35:SER:HB3	36:JP:64:LYS:HE2	1.82	0.61
1:AA:1013:G:P	19:AS:18:LYS:CD	2.81	0.61
1:AA:1176:A:N6	1:AA:1181:G:H1	1.99	0.61
1:AA:1238:A:C2	1:AA:1241:G:H1'	2.36	0.61
1:AA:22:G:H4'	1:AA:885:G:C1'	2.31	0.61
1:AA:509:A:H5'	4:AD:52:SER:OG	2.01	0.61
2:AB:187:LEU:HD13	2:AB:188:ALA:N	2.15	0.61
3:AC:67:THR:HA	3:AC:102:ASN:O	2.00	0.61
9:AI:10:ARG:CZ	9:AI:11:LYS:HB2	2.31	0.61
10:AJ:60:ARG:O	10:AJ:61:GLU:HB3	2.01	0.61
1:AA:1457:A:O2'	20:AT:24:LEU:HD12	2.00	0.61
23:BA:44:C:H42	23:BA:47:A:H61	1.49	0.61
22:BB:1649:A:H2'	22:BB:1650:A:O4'	2.01	0.61
22:BB:1674:C:OP2	25:BE:134:TRP:CG	2.51	0.61
22:BB:1998:A:H2'	48:B2:6:VAL:HG11	1.82	0.61
22:BB:2464:G:O3'	34:BN:123:GLY:HA3	2.00	0.61
22:BB:2558:C:O4'	25:BE:133:LYS:HE3	2.01	0.61
22:BB:2606:G:H1'	22:BB:2757:G:C2	2.35	0.61
22:BB:2752:C:O3'	25:BE:164:ARG:CB	2.49	0.61
22:BB:833:A:N1	22:BB:954:U:H1'	2.16	0.61
22:BB:2553:G:N1	25:BE:140:SER:OG	2.33	0.61
22:BB:2752:C:O3'	25:BE:164:ARG:CG	2.49	0.61
25:BE:59:VAL:HG12	25:BE:61:LYS:HG3	1.83	0.61
30:BJ:106:GLU:HA	30:BJ:109:LYS:HB3	1.81	0.61
22:BB:1143:A:C6	31:BK:103:TYR:HD2	2.17	0.61
41:BU:46:PHE:HZ	41:BU:91:LEU:HD11	1.66	0.61
1:CA:1238:A:C2	1:CA:1241:G:H1'	2.36	0.61
1:CA:780:A:C2'	1:CA:1523:G:H4'	2.27	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:147:G:C6	1:CA:176:C:H1'	2.35	0.61
1:CA:200:G:N2	1:CA:217:C:H42	1.99	0.61
1:CA:227:G:N3	16:CP:62:VAL:HG12	2.16	0.61
1:CA:514:C:H2'	1:CA:515:G:H8	1.65	0.61
1:CA:18:C:P	5:CE:14:ARG:HH22	2.23	0.61
19:CS:30:LEU:H	19:CS:48:THR:HB	1.66	0.61
22:DB:106:G:O2'	22:DB:358:C:H1'	2.00	0.61
22:DB:2572:U:H2'	22:DB:2573:C:O4'	2.01	0.61
22:DB:2653:A:C2'	32:DL:41:ASN:HD21	2.14	0.61
22:DB:2752:C:O2'	25:DE:164:ARG:O	2.18	0.61
22:DB:297:A:N6	22:DB:366:U:H3	1.97	0.61
22:DB:355:G:H21	22:DB:356:A:N6	1.99	0.61
25:DE:117:MET:SD	25:DE:136:ARG:HG3	2.40	0.61
22:DB:596:C:C4'	33:DM:28:LYS:HZ3	2.14	0.61
34:DN:47:GLN:NE2	34:DN:121:LEU:HB3	2.15	0.61
38:DR:94:VAL:HG11	39:DS:10:LYS:C	2.21	0.61
39:DS:32:LYS:HD2	39:DS:62:GLU:HB3	1.83	0.61
34:DN:106:GLU:HG2	43:DW:116:VAL:CG2	2.31	0.61
1:EA:131:C:O2'	1:EA:262:A:H1'	2.01	0.61
1:EA:827:U:H5'	8:EH:19:VAL:CG2	2.27	0.61
2:EB:134:GLU:HA	2:EB:137:ARG:HE	1.66	0.61
3:EC:133:ALA:HA	3:EC:136:GLN:HB2	1.83	0.61
4:ED:155:LEU:HD12	4:ED:158:ILE:HD11	1.83	0.61
1:EA:613:C:C4'	4:ED:86:LYS:NZ	2.63	0.61
1:EA:598:U:C1'	8:EH:95:VAL:HG23	2.29	0.61
7:EG:16:LEU:HB2	9:EI:41:VAL:HA	1.82	0.61
1:EA:1228:C:C6	13:EM:104:ARG:O	2.53	0.61
15:EO:62:GLN:HE22	15:EO:66:LEU:HG	1.63	0.61
23:FA:42:U:H1'	23:FA:49:C:N3	2.16	0.61
22:FB:1030:U:P	22:FB:1046:U:C1'	2.89	0.61
22:FB:1062:G:N2	22:FB:1119:U:N3	2.04	0.61
22:FB:767:G:H4'	22:FB:1285:A:N1	2.15	0.61
22:FB:1649:A:H2'	22:FB:1650:A:O4'	2.01	0.61
22:FB:355:G:H21	22:FB:356:A:N6	1.99	0.61
22:FB:636:G:H2'	22:FB:637:G:H5'	1.82	0.61
22:FB:704:G:OP1	24:FD:218:LYS:NZ	2.31	0.61
22:FB:878:C:H4'	22:FB:879:A:N7	2.16	0.61
25:FE:117:MET:SD	25:FE:136:ARG:HG3	2.40	0.61
22:FB:2786:G:H5'	25:FE:59:VAL:CG1	2.29	0.61
27:FG:125:ARG:HH22	27:FG:161:LYS:HE3	1.65	0.61
31:FK:77:GLY:HA3	31:FK:147:ARG:NH2	2.14	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:FL:23:ARG:HB3	32:FL:52:VAL:HB	1.83	0.61
1:GA:222:U:O3'	20:GT:68:LYS:O	2.19	0.61
1:GA:253:U:C2	17:GQ:15:MET:SD	2.94	0.61
3:GC:114:PRO:HG3	3:GC:185:GLY:N	2.16	0.61
5:GE:78:HIS:O	5:GE:93:PRO:HD3	2.01	0.61
10:GJ:51:ARG:N	14:GN:45:ARG:CD	2.62	0.61
13:GM:81:LEU:HD13	13:GM:88:ARG:HH11	1.65	0.61
1:GA:734:G:HO2'	18:GR:71:LYS:HE2	1.63	0.61
13:GM:84:ILE:HD13	19:GS:65:ASN:O	2.01	0.61
22:HB:700:C:OP1	50:H4:2:LYS:CB	2.48	0.61
51:H5:6:THR:HB	51:H5:59:LYS:HE3	1.81	0.61
22:HB:1150:C:H5'	22:HB:1154:A:N1	2.15	0.61
22:HB:852:U:H1'	22:HB:1205:G:H1'	1.82	0.61
22:HB:1649:A:H2'	22:HB:1650:A:O4'	2.01	0.61
22:HB:1863:U:H2'	22:HB:1864:G:C8	2.36	0.61
22:HB:1982:C:H2'	22:HB:1983:G:H8	1.64	0.61
22:HB:2337:A:H2	51:H5:52:LYS:CD	2.04	0.61
22:HB:2714:A:C5	25:HE:204:ALA:HB1	2.34	0.61
22:HB:3115:G:N7	22:HB:3117:A:H3'	2.16	0.61
22:HB:625:A:H62	26:HF:172:VAL:HG23	1.65	0.61
22:HB:641:G:N2	22:HB:643:A:H3'	2.16	0.61
22:HB:1835:C:H5''	24:HD:255:LYS:HZ2	1.65	0.61
25:HE:144:ARG:HD2	25:HE:146:THR:N	2.11	0.61
25:HE:59:VAL:HG12	25:HE:61:LYS:HG3	1.83	0.61
28:HH:152:ARG:NH1	28:HH:154:PRO:HG3	2.15	0.61
35:HO:61:HIS:HD1	35:HO:64:ARG:NH1	1.97	0.61
22:HB:511:A:C6	40:HT:12:LYS:HB3	2.36	0.61
22:HB:2344:G:H5''	44:HX:42:GLY:N	2.15	0.61
22:HB:941:U:OP2	46:HZ:23:LEU:HB2	2.01	0.61
1:IA:408:A:H2'	1:IA:409:G:H8	1.65	0.61
1:IA:501:C:O2'	1:IA:549:C:H1'	2.01	0.61
1:IA:779:C:H2'	1:IA:780:A:C8	2.35	0.61
4:ID:10:ARG:HH21	4:ID:14:ARG:NE	1.99	0.61
8:IH:26:VAL:O	8:IH:59:LEU:HB2	2.01	0.61
17:IQ:26:GLN:HG2	17:IQ:37:LYS:HA	1.83	0.61
1:IA:277:C:N4	17:IQ:96:GLN:HE21	1.91	0.61
1:IA:1320:C:C5'	19:IS:3:ARG:CD	2.71	0.61
22:JB:1040:A:C2'	34:JN:125:LYS:HZ1	2.13	0.61
22:JB:1486:A:N6	22:JB:1536:G:C4	2.68	0.61
22:JB:1649:A:H2'	22:JB:1650:A:O4'	2.01	0.61
22:JB:1927:U:O2	22:JB:1938:U:H5''	2.01	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:JB:1982:C:H2'	22:JB:1983:G:H8	1.64	0.61
22:JB:1999:U:OP1	26:JF:65:GLY:HA2	2.01	0.61
22:JB:2004:U:H5'	38:JR:25:TRP:CZ2	2.36	0.61
22:JB:2241:U:H1'	22:JB:2307:A:C1'	2.30	0.61
22:JB:2311:U:OP1	44:JX:71:ASN:O	2.18	0.61
22:JB:2803:C:H2'	22:JB:2804:G:H8	1.65	0.61
22:JB:300:C:N4	22:JB:363:G:H1'	2.16	0.61
22:JB:3167:U:O4	53:J7:101:LYS:N	2.34	0.61
22:JB:569:C:H2'	22:JB:570:G:C8	2.36	0.61
22:JB:215:G:O2'	22:JB:617:U:H1'	1.99	0.61
22:JB:892:A:N7	22:JB:912:A:N1	2.49	0.61
24:JD:246:PRO:HG2	24:JD:247:VAL:N	2.14	0.61
22:JB:1999:U:OP1	26:JF:65:GLY:HA3	2.00	0.61
35:JO:41:ALA:HA	35:JO:44:LEU:HB3	1.83	0.61
1:AA:1067:A:H4'	1:AA:1387:G:H4'	1.82	0.61
1:AA:190:A:N3	1:GA:182:U:H4'	2.16	0.61
1:AA:2003:G:N2	1:AA:1038:C:H42	1.99	0.61
1:AA:200:G:N2	1:AA:217:C:H42	1.99	0.61
1:AA:393:A:H2'	1:AA:394:G:H5'	1.83	0.61
1:AA:1374:A:C5'	7:AG:28:ASN:OD1	2.49	0.61
7:AG:49:ILE:HG12	7:AG:53:LYS:HZ3	1.66	0.61
11:AK:79:SER:HA	11:AK:104:GLN:HB3	1.83	0.61
9:AI:111:ARG:CZ	14:AN:61:TRP:CH2	2.84	0.61
19:AS:30:LEU:H	19:AS:48:THR:HB	1.66	0.61
20:AT:103:GLY:HA2	1:GA:181:G:OP1	2.01	0.61
22:BB:1135:C:H4'	52:B6:36:GLN:O	2.01	0.61
23:BA:106:U:HO2'	43:BW:88:TYR:HD1	0.68	0.61
22:BB:1141:U:C4	31:BK:106:TYR:CD1	2.89	0.61
22:BB:1583:A:H61	24:BD:89:SER:HG	1.42	0.61
22:BB:1808:C:H5'	24:BD:63:ARG:CD	2.31	0.61
22:BB:1863:U:H2'	22:BB:1864:G:C8	2.36	0.61
22:BB:658:G:C4	22:BB:2330:G:OP1	2.54	0.61
22:BB:2537:C:H2'	22:BB:2538:C:H6	1.66	0.61
22:BB:2669:C:H5''	22:BB:2847:G:C5	2.36	0.61
22:BB:3171:A:H4'	22:BB:3172:U:H5'	1.82	0.61
22:BB:321:A:N1	22:BB:1223:G:C6	2.69	0.61
22:BB:569:C:H2'	22:BB:570:G:H8	1.66	0.61
22:BB:664:C:C4	22:BB:666:U:H1'	2.36	0.61
22:BB:682:G:N1	26:BF:49:ALA:HB2	2.15	0.61
22:BB:705:C:OP1	24:BD:58:HIS:HA	2.00	0.61
22:BB:802:A:H4'	22:BB:1771:A:H62	1.66	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BD:72:LYS:NZ	24:BD:75:VAL:HG21	2.14	0.61
22:BB:1583:A:N9	24:BD:84:TYR:CD1	2.69	0.61
25:BE:117:MET:SD	25:BE:136:ARG:HG3	2.40	0.61
27:BG:72:LYS:HD2	27:BG:80:ARG:HA	1.80	0.61
28:BH:138:LYS:HD2	28:BH:141:VAL:HG11	1.83	0.61
31:BK:36:ASN:HA	31:BK:39:GLN:NE2	2.15	0.61
41:BU:77:LYS:NZ	41:BU:79:ILE:HD11	2.15	0.61
1:CA:1221:G:O3'	19:CS:77:THR:HG21	2.01	0.61
1:CA:131:C:O2'	1:CA:262:A:H1'	2.01	0.61
1:CA:393:A:H2'	1:CA:394:G:H5'	1.83	0.61
1:CA:410:G:H2'	1:CA:429:U:O4	2.00	0.61
1:CA:629:G:H21	1:CA:631:G:H22	1.47	0.61
5:CE:148:VAL:HG21	8:CH:107:LEU:HD23	1.82	0.61
1:CA:1383:C:P	7:CG:79:ARG:NH2	2.74	0.61
8:CH:39:LEU:HB3	8:CH:45:ILE:HG12	1.83	0.61
8:CH:25:ASP:HA	8:CH:59:LEU:O	2.00	0.61
1:CA:43:C:H3'	16:CP:12:LYS:HE3	1.81	0.61
17:CQ:101:ARG:HA	17:CQ:101:ARG:HE	1.66	0.61
23:DA:78:A:O2'	43:DW:20:ALA:CB	2.48	0.61
22:DB:1162:A:C2	38:DR:78:THR:OG1	2.53	0.61
22:DB:767:G:H4'	22:DB:1285:A:N1	2.15	0.61
22:DB:12:U:H2'	22:DB:13:A:H5'	1.83	0.61
22:DB:1649:A:H2'	22:DB:1650:A:O4'	2.01	0.61
22:DB:1722:G:H2'	22:DB:1723:U:C6	2.36	0.61
22:DB:2040:A:H4'	48:D2:6:VAL:CG2	2.29	0.61
22:DB:2289:A:H2	27:DG:77:PHE:CD1	2.15	0.61
22:DB:2340:C:H2'	22:DB:2341:G:C8	2.36	0.61
22:DB:425:A:N6	22:DB:2391:A:O4'	2.33	0.61
22:DB:2543:A:OP2	32:DL:38:GLY:C	2.40	0.61
22:DB:2623:A:O3'	22:DB:2624:G:OP2	2.00	0.61
22:DB:483:A:C2'	22:DB:484:G:H5'	2.30	0.61
22:DB:833:A:N1	22:DB:954:U:H1'	2.16	0.61
32:DL:83:ARG:CD	37:DQ:83:PHE:HD2	2.12	0.61
34:DN:102:ARG:NH1	34:DN:102:ARG:HB3	2.15	0.61
22:DB:1469:U:O4	35:DO:60:LEU:HD11	2.01	0.61
1:EA:1238:A:C2	1:EA:1241:G:H1'	2.36	0.61
1:EA:501:C:O2'	1:EA:549:C:H1'	2.01	0.61
3:EC:114:PRO:HG3	3:EC:185:GLY:N	2.16	0.61
1:EA:435:C:C2'	4:ED:156:GLU:HB3	2.31	0.61
4:ED:205:GLU:CG	5:EE:101:ILE:CG1	2.68	0.61
1:EA:590:C:H3'	8:EH:30:ARG:HG3	1.82	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:EA:694:A:H5'	11:EK:53:SER:HB2	1.82	0.61
17:EQ:57:VAL:HG23	17:EQ:59:ILE:HD11	1.83	0.61
19:ES:30:LEU:H	19:ES:48:THR:HB	1.66	0.61
22:FB:9:U:HO2'	22:FB:10:A:H8	1.48	0.61
22:FB:1197:U:OP1	46:FZ:26:ARG:HB2	2.00	0.61
22:FB:231:G:N1	51:F5:4:MET:CB	2.60	0.61
22:FB:2628:C:H4'	32:FL:28:GLY:C	2.20	0.61
22:FB:2773:G:N2	22:FB:2780:A:C1'	2.62	0.61
22:FB:330:C:OP2	26:FF:131:LYS:HE3	2.01	0.61
22:FB:483:A:C2'	22:FB:484:G:H5'	2.30	0.61
22:FB:569:C:H2'	22:FB:570:G:H8	1.65	0.61
22:FB:818:G:H4'	33:FM:41:SER:HA	1.82	0.61
22:FB:832:A:H2'	22:FB:833:A:H8	1.66	0.61
22:FB:2646:C:O2'	28:FH:109:TYR:CD1	2.47	0.61
32:FL:55:VAL:HG11	32:FL:68:ASP:HB3	1.82	0.61
34:FN:27:TYR:HB3	43:FW:73:LYS:HB2	1.81	0.61
23:FA:49:C:C3'	36:FP:95:LYS:HG3	2.28	0.61
40:FT:62:ARG:NH1	40:FT:64:ALA:HB2	2.16	0.61
22:FB:63:A:N6	41:FU:64:ARG:NE	2.48	0.61
1:GA:1106:G:H5''	3:GC:171:GLY:O	2.00	0.61
2:GB:187:LEU:HD13	2:GB:188:ALA:N	2.15	0.61
1:GA:1106:G:OP1	3:GC:172:ARG:CA	2.48	0.61
8:GH:26:VAL:O	8:GH:59:LEU:HB2	2.00	0.61
9:GI:50:LEU:HD22	9:GI:56:LEU:H	1.65	0.61
19:GS:30:LEU:H	19:GS:48:THR:HB	1.66	0.61
22:HB:1390:G:H5'	50:H4:14:LYS:HE3	1.81	0.61
22:HB:1019:U:H4'	38:HR:59:ARG:CG	2.31	0.61
22:HB:1294:G:H1	22:HB:1299:A:N6	1.99	0.61
22:HB:1336:G:O4'	40:HT:103:LEU:CD2	2.49	0.61
22:HB:2355:A:H2'	22:HB:2356:A:O4'	2.00	0.61
22:HB:2591:C:O2'	48:H2:3:LYS:CA	2.48	0.61
22:HB:569:C:H2'	22:HB:570:G:C8	2.36	0.61
22:HB:633:G:OP2	33:HM:101:ARG:CZ	2.48	0.61
22:HB:664:C:C4	22:HB:666:U:H1'	2.36	0.61
22:HB:700:C:H5''	50:H4:4:THR:C	2.21	0.61
27:HG:33:LYS:O	27:HG:156:ILE:HG12	1.99	0.61
22:HB:1018:C:H5'	31:HK:63:ARG:HD2	1.81	0.61
22:HB:648:A:N1	33:HM:110:ALA:HA	2.14	0.61
34:HN:102:ARG:HB3	34:HN:102:ARG:NH1	2.15	0.61
25:HE:195:LEU:HG	37:HQ:2:GLN:N	2.16	0.61
37:HQ:40:ARG:HE	37:HQ:91:VAL:HG23	1.66	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:HB:1664:G:H2'	40:HT:107:ILE:HD11	1.83	0.61
41:HU:92:ALA:HB3	45:HY:24:GLU:HG2	1.83	0.61
22:HB:918:A:O5'	43:HW:118:HIS:HD2	1.83	0.61
1:IA:1058:G:P	3:IC:154:SER:HA	2.40	0.61
1:IA:1264:C:H2'	1:IA:1265:G:H8	1.65	0.61
1:IA:1063:C:O2'	1:IA:1386:G:H5''	2.01	0.61
1:IA:497:A:H2'	1:IA:497:A:N3	2.16	0.61
10:IJ:60:ARG:O	10:IJ:61:GLU:HB3	2.01	0.61
1:IA:954:G:C2'	13:IM:120:LYS:HE2	2.29	0.61
1:IA:451:A:H5''	16:IP:39:TYR:OH	2.00	0.61
1:IA:1316:G:N1	19:IS:5:LEU:HB2	2.16	0.61
22:JB:16:G:C2'	48:J2:14:SER:O	2.48	0.61
22:JB:474:G:C3'	50:J4:5:TYR:CB	2.56	0.61
22:JB:1087:C:H1'	30:JJ:90:THR:C	2.20	0.61
22:JB:1173:G:H2'	39:JS:89:ASN:O	2.00	0.61
22:JB:852:U:H1'	22:JB:1205:G:H1'	1.82	0.61
22:JB:1685:A:H61	22:JB:1693:A:H62	1.47	0.61
22:JB:1812:U:OP1	24:JD:159:ALA:C	2.39	0.61
22:JB:1861:G:H3'	22:JB:1862:C:P	2.40	0.61
22:JB:191:G:O2'	22:JB:193:A:H4'	2.00	0.61
22:JB:237:G:H4'	22:JB:618:A:C2	2.36	0.61
22:JB:2406:C:OP1	22:JB:2408:G:C4'	2.49	0.61
22:JB:2473:G:H2'	22:JB:2474:G:H8	1.65	0.61
22:JB:3115:G:N7	22:JB:3117:A:H3'	2.16	0.61
22:JB:641:G:N2	22:JB:643:A:H3'	2.16	0.61
22:JB:760:U:H4'	40:JT:111:ARG:CZ	2.30	0.61
22:JB:763:A:OP1	40:JT:109:ARG:O	2.19	0.61
22:JB:846:A:O4'	33:JM:53:ARG:NE	2.33	0.61
22:JB:2590:U:OP1	25:JE:132:LYS:NZ	2.34	0.61
25:JE:144:ARG:HD2	25:JE:146:THR:N	2.11	0.61
25:JE:59:VAL:HG12	25:JE:61:LYS:HG3	1.83	0.61
22:JB:1216:G:C4	33:JM:14:LYS:HD2	2.36	0.61
22:JB:64:C:C4	41:JU:70:GLY:HA2	2.26	0.61
1:AA:1227:A:N1	19:AS:81:ARG:NH2	2.46	0.60
1:AA:976:G:N2	1:AA:1362:C:H3'	2.15	0.60
5:AE:78:HIS:O	5:AE:93:PRO:HD3	2.01	0.60
1:AA:1148:U:C5'	9:AI:7:THR:HG21	2.31	0.60
10:AJ:65:LEU:CG	14:AN:55:GLY:O	2.49	0.60
12:AL:83:VAL:HB	12:AL:107:ALA:HB3	1.82	0.60
1:AA:529:G:O6	12:AL:47:LYS:CG	2.49	0.60
22:BB:111:G:C3'	22:BB:112:U:OP1	2.45	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:BB:1130:U:H2'	22:BB:1131:G:H8	1.66	0.60
22:BB:1667:A:H2'	22:BB:1668:G:H8	1.65	0.60
22:BB:1722:G:H2'	22:BB:1723:U:C6	2.36	0.60
22:BB:1795:C:C4'	24:BD:250:TRP:CH2	2.84	0.60
22:BB:2292:C:H5'	27:BG:87:ILE:HD11	1.83	0.60
22:BB:2355:A:H2'	22:BB:2356:A:O4'	2.00	0.60
22:BB:238:G:O2'	22:BB:620:G:OP1	2.18	0.60
22:BB:2725:C:H4'	28:BH:143:GLN:N	1.89	0.60
22:BB:106:G:N3	22:BB:357:A:C2	2.69	0.60
22:BB:636:G:H2'	22:BB:637:G:H5'	1.82	0.60
22:BB:878:C:H4'	22:BB:879:A:N7	2.16	0.60
26:BF:19:LEU:HD21	26:BF:109:ALA:HA	1.82	0.60
39:BS:36:LYS:NZ	39:BS:36:LYS:HA	2.16	0.60
22:BB:1238:A:O3'	39:BS:73:LYS:HB3	2.01	0.60
42:BV:96:LYS:HB3	42:BV:98:ILE:HG13	1.83	0.60
43:BW:48:THR:HG21	43:BW:129:ARG:O	2.01	0.60
43:BW:67:LYS:CB	43:BW:128:ARG:NH1	2.64	0.60
34:BN:27:TYR:HE2	43:BW:74:ARG:H	1.45	0.60
1:CA:1057:G:H4'	3:CC:154:SER:CB	2.24	0.60
1:CA:497:A:N3	1:CA:497:A:H2'	2.16	0.60
1:CA:689:C:C4'	11:CK:51:LYS:HZ2	2.14	0.60
1:CA:772:U:O2	24:DD:5:LYS:CE	2.47	0.60
2:CB:178:ARG:HD3	2:CB:196:LEU:HB3	1.83	0.60
1:CA:1060:C:C5	3:CC:2:GLY:HA3	2.36	0.60
1:CA:407:G:N9	4:CD:116:GLN:NE2	2.48	0.60
4:CD:201:GLN:NE2	5:CE:116:THR:CB	2.64	0.60
1:CA:1382:C:O3'	7:CG:79:ARG:NE	2.34	0.60
1:CA:598:U:C6	8:CH:94:TYR:CE1	2.89	0.60
1:CA:599:C:OP1	8:CH:95:VAL:C	2.39	0.60
1:CA:520:A:C5'	12:CL:52:LEU:HB2	2.31	0.60
13:CM:19:LEU:HB3	13:CM:30:ALA:HA	1.81	0.60
13:CM:88:ARG:NH2	13:CM:99:ARG:HD2	2.11	0.60
11:CK:111:ASP:OD2	18:CR:84:LYS:HA	2.01	0.60
22:DB:2249:U:H5''	44:DX:18:PRO:HG2	1.37	0.60
22:DB:2773:G:C4	22:DB:2780:A:N3	2.69	0.60
22:DB:569:C:H2'	22:DB:570:G:H8	1.66	0.60
22:DB:802:A:H4'	22:DB:1771:A:H62	1.65	0.60
24:DD:270:ILE:H	24:DD:270:ILE:HD13	1.66	0.60
27:DG:72:LYS:HD2	27:DG:80:ARG:HA	1.81	0.60
30:DJ:106:GLU:HA	30:DJ:109:LYS:HB3	1.81	0.60
31:DK:36:ASN:HA	31:DK:39:GLN:NE2	2.16	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:DL:118:LEU:HB3	32:DL:126:ILE:HG21	1.81	0.60
32:DL:55:VAL:HG11	32:DL:68:ASP:HB3	1.82	0.60
41:DU:46:PHE:HZ	41:DU:91:LEU:HD11	1.66	0.60
1:EA:1061:G:H2'	1:EA:1062:U:O4'	2.01	0.60
1:EA:1517:G:C1'	22:FB:1902:A:O2'	2.47	0.60
1:EA:147:G:C6	1:EA:176:C:H1'	2.35	0.60
1:EA:243:A:O2'	17:EQ:99:SER:CB	2.45	0.60
1:EA:393:A:H2'	1:EA:394:G:H5'	1.83	0.60
1:EA:410:G:H2'	1:EA:429:U:O4	2.00	0.60
1:EA:968:A:P	9:EI:125:TYR:CB	2.86	0.60
1:EA:407:G:N3	4:ED:157:LEU:HD11	2.15	0.60
1:EA:1185:G:O2'	9:EI:110:GLU:OE1	2.17	0.60
18:ER:40:LEU:HD22	18:ER:70:ILE:HG12	1.82	0.60
22:FB:1130:U:H2'	22:FB:1131:G:H8	1.66	0.60
22:FB:1143:A:H62	22:FB:2009:U:H1'	1.66	0.60
22:FB:1722:G:H2'	22:FB:1723:U:C6	2.36	0.60
22:FB:1818:G:N2	22:FB:1883:A:H2	1.98	0.60
22:FB:3877:A:C6	22:FB:1862:C:C4	2.88	0.60
22:FB:833:A:N1	22:FB:954:U:H1'	2.16	0.60
24:FD:151:LYS:HG3	24:FD:152:GLY:H	1.65	0.60
27:FG:11:GLN:HE22	27:FG:12:VAL:HG13	1.66	0.60
31:FK:36:ASN:HA	31:FK:39:GLN:NE2	2.16	0.60
37:FQ:36:ASP:HB3	37:FQ:55:ILE:HD11	1.83	0.60
37:FQ:40:ARG:HE	37:FQ:91:VAL:HG23	1.65	0.60
22:FB:29:U:H5'	38:FR:8:ILE:HB	1.83	0.60
42:FV:96:LYS:HB3	42:FV:98:ILE:HG13	1.83	0.60
1:GA:1229:A:OP1	13:GM:116:THR:HG23	2.01	0.60
1:GA:927:G:N2	1:GA:1532:U:O2'	2.30	0.60
1:GA:501:C:O2'	1:GA:549:C:H1'	2.01	0.60
1:GA:922:G:C1'	5:GE:20:GLN:HA	2.31	0.60
2:GB:149:LEU:HB3	2:GB:153:ARG:HG3	1.82	0.60
4:GD:10:ARG:HH21	4:GD:14:ARG:NE	1.99	0.60
7:GG:26:PHE:HB2	7:GG:101:LEU:HD22	1.83	0.60
7:GG:49:ILE:HG12	7:GG:53:LYS:HZ3	1.65	0.60
1:GA:1309:G:O2'	13:GM:80:ARG:NH2	2.33	0.60
14:GN:15:LYS:CD	14:GN:16:PHE:H	2.13	0.60
1:GA:974:A:OP2	14:GN:29:ARG:NH1	2.34	0.60
53:H7:62:LYS:HB3	53:H7:108:GLU:HB3	1.82	0.60
22:HB:419:G:O3'	53:H7:197:GLU:HG3	2.01	0.60
22:HB:1338:G:O4'	40:HT:107:ILE:CG2	2.47	0.60
22:HB:1486:A:H2	22:HB:1535:C:C5	2.18	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:HB:1394:G:N2	22:HB:1588:A:C4	2.69	0.60
22:HB:1685:A:H61	22:HB:1693:A:H62	1.47	0.60
22:HB:2473:G:H2'	22:HB:2474:G:H8	1.65	0.60
22:HB:3197:U:C4	22:HB:2203:G:C6	2.81	0.60
22:HB:489:A:HO2'	42:HV:5:SER:CB	2.11	0.60
22:HB:878:C:H4'	22:HB:879:A:N7	2.16	0.60
22:HB:777:A:P	24:HD:208:LYS:HZ1	2.24	0.60
30:HJ:125:ASN:ND2	30:HJ:125:ASN:H	1.99	0.60
22:HB:498:C:O2	40:HT:74:SER:HA	2.00	0.60
1:IA:1057:G:H4'	3:IC:196:LEU:HD22	1.81	0.60
1:IA:1225:A:N6	13:IM:104:ARG:CZ	2.56	0.60
1:IA:1447:A:N1	1:IA:1456:A:H1'	2.14	0.60
1:IA:1514:C:H2'	1:IA:1515:C:C6	2.36	0.60
1:IA:251:G:H4'	1:IA:252:U:OP1	2.00	0.60
1:IA:410:G:H2'	1:IA:429:U:O4	2.00	0.60
3:IC:70:VAL:HG11	3:IC:76:VAL:HG21	1.83	0.60
7:IG:103:TRP:NE1	7:IG:137:LYS:HB2	2.16	0.60
1:IA:33:A:N3	12:IL:32:PHE:HZ	1.96	0.60
1:IA:238:G:O5'	17:IQ:38:ARG:NH2	2.34	0.60
22:JB:410:A:C3'	47:J1:58:LYS:HD3	2.29	0.60
22:JB:1998:A:O2'	48:J2:2:ALA:C	2.38	0.60
22:JB:3176:A:H2'	53:J7:162:GLN:CD	2.22	0.60
22:JB:1150:C:H5'	22:JB:1154:A:N1	2.15	0.60
22:JB:1863:U:H2'	22:JB:1864:G:C8	2.36	0.60
22:JB:1908:C:H2'	22:JB:1909:U:H4'	1.82	0.60
22:JB:2559:U:H3'	22:JB:2560:G:N2	2.08	0.60
22:JB:878:C:H4'	22:JB:879:A:N7	2.16	0.60
22:JB:872:G:H2'	22:JB:928:G:O6	2.00	0.60
25:JE:12:THR:HA	25:JE:21:ILE:O	2.00	0.60
27:JG:11:GLN:HE22	27:JG:12:VAL:HG13	1.66	0.60
27:JG:4:LEU:HD13	27:JG:97:TYR:O	2.00	0.60
38:JR:25:TRP:O	38:JR:28:ARG:HG3	2.01	0.60
41:JU:77:LYS:NZ	41:JU:79:ILE:HD11	2.15	0.60
22:JB:492:G:OP2	42:JV:56:LYS:N	2.33	0.60
22:JB:999:A:OP1	46:JZ:7:ARG:HG2	2.00	0.60
1:AA:408:A:H2'	1:AA:409:G:H8	1.66	0.60
1:AA:497:A:H2'	1:AA:497:A:N3	2.16	0.60
8:AH:25:ASP:HA	8:AH:59:LEU:O	2.01	0.60
10:AJ:31:GLY:HA2	10:AJ:78:ASN:ND2	2.16	0.60
49:B3:41:ASP:HA	49:B3:47:HIS:HA	1.82	0.60
22:BB:1195:U:H2'	22:BB:1196:G:C8	2.36	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:BB:1399:C:N4	22:BB:1415:C:N3	2.49	0.60
22:BB:2063:A:H4'	47:B1:33:VAL:CG2	2.28	0.60
22:BB:2753:C:P	25:BE:164:ARG:CG	2.89	0.60
22:BB:625:A:H1'	26:BF:38:ARG:HH21	1.65	0.60
22:BB:674:U:O2	33:BM:22:GLY:O	2.19	0.60
22:BB:686:C:C1'	26:BF:68:ARG:HH12	2.14	0.60
22:BB:700:C:C5'	50:B4:4:THR:HA	2.31	0.60
24:BD:213:ARG:HD3	24:BD:219:PRO:HG3	1.81	0.60
22:BB:2218:G:C5'	24:BD:230:ASP:HB2	2.28	0.60
31:BK:65:LYS:C	31:BK:67:ARG:H	2.05	0.60
36:BP:29:LEU:HD12	36:BP:90:ASP:HA	1.82	0.60
25:BE:176:ARG:CZ	37:BQ:19:ASP:CB	2.79	0.60
38:BR:3:ARG:HE	38:BR:4:ALA:N	1.96	0.60
43:BW:115:ILE:O	43:BW:116:VAL:HG22	2.01	0.60
22:BB:888:G:C4	43:BW:165:GLU:HG3	2.33	0.60
1:CA:1061:G:H2'	1:CA:1062:U:O4'	2.01	0.60
1:CA:408:A:H2'	1:CA:409:G:H8	1.65	0.60
3:CC:67:THR:HA	3:CC:102:ASN:O	2.00	0.60
4:CD:108:LEU:HA	4:CD:170:VAL:HG21	1.83	0.60
9:CI:10:ARG:CZ	9:CI:11:LYS:HB2	2.31	0.60
11:CK:79:SER:HA	11:CK:104:GLN:HB3	1.83	0.60
1:CA:1228:C:H4'	13:CM:117:VAL:C	2.21	0.60
13:CM:23:TYR:HD2	13:CM:67:GLU:HG2	1.66	0.60
17:CQ:59:ILE:HG22	17:CQ:60:ILE:H	1.66	0.60
18:CR:40:LEU:HD22	18:CR:70:ILE:HG12	1.82	0.60
1:CA:1320:C:C5	19:CS:36:ARG:O	2.53	0.60
22:DB:164:G:OP1	47:D1:13:LYS:CD	2.49	0.60
53:D7:62:LYS:HB3	53:D7:108:GLU:HB3	1.82	0.60
22:DB:1863:U:H2'	22:DB:1864:G:C8	2.36	0.60
22:DB:2355:A:H2'	22:DB:2356:A:O4'	2.00	0.60
22:DB:2745:A:H3'	22:DB:2746:G:H8	1.65	0.60
22:DB:300:C:N4	22:DB:363:G:H1'	2.16	0.60
22:DB:664:C:C4	22:DB:666:U:H1'	2.36	0.60
22:DB:1807:A:H5'	24:DD:88:ARG:NH2	2.14	0.60
22:DB:1674:C:H3'	25:DE:134:TRP:CD2	2.36	0.60
26:DF:19:LEU:HD21	26:DF:109:ALA:HA	1.81	0.60
30:DJ:125:ASN:ND2	30:DJ:125:ASN:H	1.99	0.60
22:DB:505:G:H1'	40:DT:78:ASN:HB3	1.83	0.60
22:DB:888:G:C2	43:DW:165:GLU:CB	2.77	0.60
1:EA:487:A:H2	4:ED:131:ARG:NH2	1.94	0.60
1:EA:523:A:H61	12:EL:90:VAL:HG13	1.62	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:EA:629:G:H21	1:EA:631:G:H22	1.47	0.60
3:EC:67:THR:HA	3:EC:102:ASN:O	2.00	0.60
3:EC:119:ARG:HG2	3:EC:123:GLN:NE2	2.15	0.60
4:ED:161:ASN:HD22	4:ED:162:LEU:N	1.99	0.60
8:EH:26:VAL:O	8:EH:59:LEU:HB2	2.00	0.60
14:EN:15:LYS:CD	14:EN:16:PHE:H	2.13	0.60
51:F5:6:THR:HB	51:F5:59:LYS:HE3	1.81	0.60
22:FB:1173:G:O3'	39:FS:23:GLU:CG	2.46	0.60
22:FB:1288:A:H2	35:FO:15:SER:C	2.04	0.60
22:FB:1402:G:C4	22:FB:1412:C:O2	2.54	0.60
22:FB:173:A:H2'	22:FB:2051:U:H5	1.66	0.60
22:FB:2258:G:C1'	22:FB:2306:A:C1'	2.51	0.60
22:FB:2340:C:H2'	22:FB:2341:G:C8	2.36	0.60
22:FB:29:U:C1'	38:FR:8:ILE:CD1	2.79	0.60
22:FB:417:C:O2'	22:FB:418:C:H4'	2.01	0.60
22:FB:504:G:H4'	40:FT:25:PHE:HD2	1.59	0.60
22:FB:664:C:C4	22:FB:666:U:H1'	2.36	0.60
22:FB:716:U:C3'	22:FB:717:G:P	2.90	0.60
22:FB:863:C:C1'	46:FZ:43:MET:CG	2.79	0.60
22:FB:891:A:H3'	22:FB:893:G:OP2	2.01	0.60
22:FB:940:G:C4	46:FZ:37:THR:CB	2.84	0.60
22:FB:795:A:H62	24:FD:222:ARG:CD	2.13	0.60
25:FE:59:VAL:HG12	25:FE:61:LYS:HG3	1.83	0.60
33:FM:108:LEU:HB2	33:FM:126:SER:HB3	1.82	0.60
22:FB:2856:U:C4'	35:FO:93:GLY:CA	2.79	0.60
38:FR:91:ASN:CG	39:FS:10:LYS:NZ	2.45	0.60
39:FS:6:GLN:H	39:FS:6:GLN:CD	2.05	0.60
22:FB:2310:G:OP1	44:FX:71:ASN:OD1	2.20	0.60
45:FY:50:VAL:HG13	45:FY:54:ASN:HD21	1.66	0.60
1:GA:1196:U:C5	1:GA:1397:C:C4	2.86	0.60
1:GA:1264:C:H2'	1:GA:1265:G:H8	1.66	0.60
1:GA:976:G:N2	1:GA:1362:C:H3'	2.15	0.60
1:GA:1063:C:O2'	1:GA:1386:G:H5''	2.01	0.60
1:GA:1514:C:H2'	1:GA:1515:C:C6	2.36	0.60
1:GA:186:C:C4'	20:GT:78:ALA:HA	2.31	0.60
1:GA:410:G:H2'	1:GA:429:U:O4	2.00	0.60
1:GA:546:G:P	4:GD:72:GLU:HB3	2.41	0.60
2:GB:30:ARG:HH12	8:GH:75:ARG:NH1	1.89	0.60
1:GA:1107:C:H4'	3:GC:150:LYS:NZ	2.16	0.60
7:GG:103:TRP:NE1	7:GG:137:LYS:HB2	2.16	0.60
7:GG:150:ALA:O	11:GK:59:TYR:CG	2.52	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:GA:580:U:C5'	15:GO:57:LEU:HD23	2.32	0.60
6:GF:52:ILE:HD11	18:GR:77:GLY:HA3	1.83	0.60
22:HB:1282:A:O2'	40:HT:109:ARG:HD2	2.00	0.60
22:HB:191:G:O2'	22:HB:193:A:H4'	2.00	0.60
22:HB:1140:A:N6	22:HB:2470:U:H5	1.98	0.60
22:HB:815:A:H2'	22:HB:816:U:C2	2.36	0.60
28:HH:154:PRO:HB3	28:HH:160:LYS:HG2	1.82	0.60
40:HT:62:ARG:NH1	40:HT:64:ALA:HB2	2.16	0.60
22:HB:2365:U:P	44:HX:39:ARG:HH12	2.24	0.60
1:IA:1238:A:H2	1:IA:1241:G:H1'	1.65	0.60
1:IA:1462:G:H5''	37:JQ:119:SER:CB	2.30	0.60
1:IA:618:C:H42	1:IA:622:A:H62	1.47	0.60
1:IA:765:G:P	15:IO:50:HIS:CD2	2.94	0.60
1:IA:976:G:N2	1:IA:1362:C:H3'	2.15	0.60
3:IC:67:THR:HA	3:IC:102:ASN:O	2.00	0.60
3:IC:55:VAL:HA	3:IC:68:VAL:HG13	1.83	0.60
7:IG:16:LEU:HB2	9:II:41:VAL:CG1	2.29	0.60
11:IK:79:SER:HA	11:IK:104:GLN:HB3	1.83	0.60
22:JB:3103:A:O2'	53:J7:201:ARG:NH1	2.34	0.60
22:JB:1268:U:P	26:JF:68:ARG:CG	2.88	0.60
22:JB:1294:G:H1	22:JB:1299:A:N6	1.99	0.60
22:JB:1477:C:C1'	22:JB:2681:A:N3	2.64	0.60
22:JB:1982:C:H2'	22:JB:1983:G:C8	2.35	0.60
22:JB:2355:A:H2'	22:JB:2356:A:O4'	2.00	0.60
22:JB:2537:C:H2'	22:JB:2538:C:H6	1.66	0.60
22:JB:2559:U:P	25:JE:132:LYS:CE	2.81	0.60
22:JB:815:A:H2'	22:JB:816:U:C2	2.36	0.60
24:JD:213:ARG:HD3	24:JD:219:PRO:HG3	1.81	0.60
24:JD:72:LYS:NZ	24:JD:75:VAL:HG21	2.14	0.60
22:JB:2465:G:C5'	34:JN:123:GLY:O	2.49	0.60
37:JQ:36:ASP:HB3	37:JQ:55:ILE:HD11	1.83	0.60
1:AA:1061:G:H2'	1:AA:1062:U:O4'	2.01	0.60
1:AA:1264:C:H2'	1:AA:1265:G:H8	1.65	0.60
1:AA:1350:A:C6	9:AI:118:LYS:HE3	2.35	0.60
4:AD:11:LEU:HD23	4:AD:11:LEU:H	1.67	0.60
1:AA:17:U:C5'	5:AE:16:THR:OG1	2.37	0.60
8:AH:39:LEU:HB3	8:AH:45:ILE:HG12	1.83	0.60
1:AA:1350:A:N6	9:AI:118:LYS:HZ1	1.89	0.60
13:AM:82:MET:HG2	13:AM:92:HIS:HA	1.81	0.60
17:AQ:101:ARG:HE	17:AQ:101:ARG:HA	1.66	0.60
22:BB:1887:G:N1	22:BB:1888:C:H1'	2.16	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:BB:2601:C:P	25:BE:159:HIS:HB3	2.41	0.60
22:BB:417:C:O2'	22:BB:418:C:H4'	2.01	0.60
22:BB:777:A:O5'	24:BD:208:LYS:CE	2.49	0.60
22:BB:832:A:H2'	22:BB:833:A:H8	1.66	0.60
22:BB:2008:C:N1	31:BK:103:TYR:HH	1.36	0.60
34:BN:47:GLN:NE2	34:BN:121:LEU:HB3	2.15	0.60
37:BQ:70:LYS:N	37:BQ:71:ILE:HD12	2.06	0.60
1:CA:435:C:H2'	1:CA:436:C:O4'	2.01	0.60
1:CA:932:C:H6	7:CG:3:ARG:HH11	1.38	0.60
1:CA:1106:G:OP2	3:CC:172:ARG:CZ	2.48	0.60
1:CA:1382:C:H5'	7:CG:79:ARG:HB2	1.83	0.60
8:CH:85:ARG:NH1	8:CH:89:PRO:HD3	2.16	0.60
10:CJ:39:PRO:HA	10:CJ:70:ARG:HH11	1.66	0.60
22:DB:1073:G:H5'	30:DJ:11:GLN:NE2	2.15	0.60
22:DB:1143:A:H62	22:DB:2009:U:H1'	1.67	0.60
22:DB:829:C:H5'	22:DB:1176:U:O2'	2.00	0.60
22:DB:1793:A:H61	22:DB:1806:G:H2'	1.66	0.60
22:DB:2520:A:H1'	22:DB:2745:A:C2	2.36	0.60
22:DB:2745:A:N7	22:DB:2746:G:N7	2.49	0.60
22:DB:832:A:H2'	22:DB:833:A:H8	1.66	0.60
37:DQ:55:ILE:HA	37:DQ:71:ILE:HG21	1.82	0.60
39:DS:6:GLN:CD	39:DS:6:GLN:H	2.05	0.60
41:DU:77:LYS:NZ	41:DU:79:ILE:HD11	2.15	0.60
43:DW:115:ILE:O	43:DW:116:VAL:HG22	2.01	0.60
1:EA:111:G:C5'	16:EP:27:LYS:HG2	2.31	0.60
1:EA:435:C:H2'	1:EA:436:C:O4'	2.01	0.60
1:EA:546:G:N2	4:ED:2:GLY:N	2.49	0.60
1:EA:648:A:H2'	1:EA:649:G:H8	1.66	0.60
1:EA:992:U:H4'	1:EA:993:G:O5'	2.01	0.60
5:EE:82:VAL:HB	5:EE:137:GLU:HB2	1.83	0.60
7:EG:26:PHE:HB2	7:EG:101:LEU:HD22	1.83	0.60
1:EA:1185:G:C2'	9:EI:110:GLU:OE1	2.48	0.60
10:EJ:31:GLY:HA2	10:EJ:78:ASN:ND2	2.16	0.60
10:EJ:51:ARG:HG3	10:EJ:60:ARG:O	2.02	0.60
22:FB:1863:U:H2'	22:FB:1864:G:C8	2.36	0.60
22:FB:2355:A:H2'	22:FB:2356:A:O4'	2.00	0.60
22:FB:2613:A:H2'	22:FB:2614:A:H8	1.66	0.60
22:FB:686:C:H1'	26:FF:74:VAL:HG13	1.81	0.60
25:FE:103:ASP:HB3	25:FE:168:GLN:HA	1.84	0.60
22:FB:2661:G:C5	25:FE:11:MET:N	2.69	0.60
22:FB:2763:U:H4'	25:FE:41:THR:H	1.66	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:FH:7:GLN:O	28:FH:69:ARG:HD3	2.01	0.60
35:FO:58:GLY:HA2	35:FO:63:ARG:HE	1.65	0.60
37:FQ:55:ILE:HA	37:FQ:71:ILE:HG21	1.82	0.60
40:FT:24:GLY:HA3	40:FT:127:ILE:HG12	1.82	0.60
1:GA:435:C:H2'	1:GA:436:C:O4'	2.01	0.60
1:GA:864:A:OP2	5:GE:86:ALA:CA	2.48	0.60
2:GB:163:PHE:HA	2:GB:185:ILE:HB	1.83	0.60
1:GA:1297:C:C1'	7:GG:114:ARG:CZ	2.79	0.60
5:GE:154:GLY:OXT	8:GH:67:PRO:HG3	2.01	0.60
1:GA:186:C:C2'	20:GT:81:LYS:HB3	2.31	0.60
49:H3:24:THR:HG21	51:H5:33:ASN:CB	2.31	0.60
22:HB:1321:A:HO2'	50:H4:7:PRO:CB	2.09	0.60
22:HB:1336:G:O5'	40:HT:103:LEU:HD23	2.01	0.60
22:HB:1582:A:C4	24:HD:211:ARG:CG	2.73	0.60
22:HB:1788:C:O2'	24:HD:257:LEU:CD1	2.48	0.60
22:HB:1710:U:O4	22:HB:1960:A:C1'	2.49	0.60
22:HB:2448:A:O4'	34:HN:57:ARG:CG	2.45	0.60
22:HB:2559:U:H3'	22:HB:2560:G:N2	2.08	0.60
22:HB:2857:C:OP1	35:HO:98:LEU:HG	1.93	0.60
22:HB:497:C:H2'	40:HT:77:ALA:CA	2.31	0.60
22:HB:60:A:N7	22:HB:93:A:N1	2.48	0.60
22:HB:57:G:C2	22:HB:72:A:N3	2.70	0.60
24:HD:120:GLY:O	24:HD:123:ALA:HB2	2.00	0.60
25:HE:58:LYS:HZ3	25:HE:58:LYS:HB2	1.66	0.60
27:HG:11:GLN:HE22	27:HG:12:VAL:HG13	1.67	0.60
31:HK:116:ARG:NH1	31:HK:119:LEU:HD12	2.16	0.60
32:HL:119:ARG:NH2	37:HQ:44:ARG:HA	2.16	0.60
22:HB:818:G:P	33:HM:42:GLY:CA	2.90	0.60
22:HB:2688:G:OP1	35:HO:18:VAL:CG1	2.50	0.60
39:HS:32:LYS:HD2	39:HS:62:GLU:HB3	1.82	0.60
39:HS:6:GLN:CD	39:HS:6:GLN:H	2.05	0.60
42:HV:96:LYS:HB3	42:HV:98:ILE:HG13	1.83	0.60
43:HW:3:LEU:HA	43:HW:34:LEU:HD21	1.84	0.60
46:HZ:44:VAL:HG23	46:HZ:45:LYS:HD2	1.82	0.60
1:IA:1224:G:O3'	19:IS:78:ARG:NH1	2.35	0.60
1:IA:1374:A:H1'	7:IG:29:LYS:HE2	1.83	0.60
1:IA:158:G:H1	1:IA:163:C:N4	1.98	0.60
1:IA:421:U:H3'	1:IA:422:C:H6	1.66	0.60
1:IA:643:C:H2'	1:IA:644:G:H8	1.65	0.60
1:IA:1328:C:P	13:IM:28:ALA:CB	2.90	0.60
17:IQ:57:VAL:HG23	17:IQ:59:ILE:HD11	1.83	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:JB:1240:G:H2'	22:JB:1241:G:C8	2.35	0.60
22:JB:1722:G:H2'	22:JB:1723:U:C6	2.36	0.60
22:JB:1996:A:H5'	40:JT:117:ILE:CG2	2.32	0.60
22:JB:2073:A:N1	47:J1:42:PHE:HD1	1.91	0.60
22:JB:2340:C:H2'	22:JB:2341:G:C8	2.36	0.60
22:JB:2047:C:H1'	22:JB:2429:A:N6	2.15	0.60
22:JB:2551:A:OP2	25:JE:144:ARG:CB	2.39	0.60
22:JB:528:G:C5'	40:JT:97:VAL:HG23	2.32	0.60
22:JB:664:C:C4	22:JB:666:U:H1'	2.36	0.60
22:JB:800:U:H5''	22:JB:801:A:H5'	1.83	0.60
28:JH:7:GLN:O	28:JH:69:ARG:HD3	2.01	0.60
46:JZ:44:VAL:HG23	46:JZ:45:LYS:HD2	1.82	0.60
1:AA:435:C:H2'	1:AA:436:C:O4'	2.02	0.60
1:AA:629:G:H21	1:AA:631:G:H22	1.47	0.60
3:AC:70:VAL:HG11	3:AC:76:VAL:HG21	1.83	0.60
1:AA:1239:A:C2'	7:AG:115:ARG:HG3	2.31	0.60
7:AG:146:GLU:C	7:AG:148:ASN:H	2.05	0.60
7:AG:45:ASP:O	7:AG:49:ILE:HG13	2.01	0.60
1:AA:1251:A:C5'	9:AI:12:GLU:OE1	2.39	0.60
17:AQ:57:VAL:HG23	17:AQ:59:ILE:HD11	1.83	0.60
20:AT:26:ASN:HA	20:AT:29:LYS:HD2	1.83	0.60
22:BB:1142:G:O6	31:BK:104:THR:O	0.61	0.60
22:BB:1236:G:H3'	39:BS:87:ARG:CD	2.27	0.60
22:BB:1294:G:H1	22:BB:1299:A:N6	1.99	0.60
22:BB:1583:A:H62	24:BD:89:SER:HA	1.65	0.60
22:BB:173:A:H2'	22:BB:2051:U:H5	1.66	0.60
22:BB:540:G:C5	22:BB:2018:G:H4'	2.36	0.60
22:BB:658:G:C5'	22:BB:2331:A:OP1	2.50	0.60
22:BB:2393:G:H4'	33:BM:65:PHE:CE2	2.35	0.60
22:BB:2492:G:H2'	22:BB:2493:U:C5	2.37	0.60
22:BB:300:C:N4	22:BB:363:G:H1'	2.16	0.60
22:BB:696:U:OP1	50:B4:16:HIS:CE1	2.54	0.60
22:BB:1674:C:OP2	25:BE:136:ARG:CD	2.50	0.60
27:BG:4:LEU:HD13	27:BG:97:TYR:O	2.00	0.60
22:BB:1018:C:O2'	31:BK:135:LEU:N	2.32	0.60
33:BM:112:GLY:HA2	33:BM:131:LYS:O	2.00	0.60
33:BM:63:ARG:CZ	51:B5:9:MET:CE	2.78	0.60
38:BR:25:TRP:O	38:BR:28:ARG:HG3	2.01	0.60
34:BN:37:ALA:N	43:BW:74:ARG:HH22	1.95	0.60
22:BB:2364:C:C2'	44:BX:69:PHE:HZ	2.14	0.60
1:CA:1264:C:H2'	1:CA:1265:G:H8	1.65	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:1514:C:H2'	1:CA:1515:C:C6	2.36	0.60
1:CA:403:C:H5''	4:CD:136:PRO:HD2	1.82	0.60
3:CC:114:PRO:HG3	3:CC:185:GLY:N	2.16	0.60
3:CC:70:VAL:HG11	3:CC:76:VAL:HG21	1.83	0.60
4:CD:155:LEU:HD12	4:CD:158:ILE:HD11	1.83	0.60
1:CA:8:A:C1'	5:CE:103:GLY:HA2	2.31	0.60
6:CF:49:ALA:HB3	18:CR:79:LEU:C	2.21	0.60
1:CA:753:A:N3	8:CH:1:MET:C	2.55	0.60
8:CH:26:VAL:O	8:CH:59:LEU:HB2	2.01	0.60
1:CA:741:G:O3'	15:CO:58:MET:HE1	2.02	0.60
47:D1:22:MET:HB3	47:D1:29:PRO:HB3	1.83	0.60
22:DB:16:G:H4'	48:D2:17:ASP:CB	2.32	0.60
22:DB:1195:U:H2'	22:DB:1196:G:C8	2.36	0.60
22:DB:1294:G:H1	22:DB:1299:A:N6	1.99	0.60
22:DB:173:A:H2'	22:DB:2051:U:H5	1.66	0.60
22:DB:1805:G:C5'	24:DD:43:ARG:HA	2.32	0.60
22:DB:2265:A:C6	49:D3:31:THR:CB	2.82	0.60
22:DB:2351:G:OP1	49:D3:46:LYS:HB3	2.01	0.60
22:DB:529:U:H5'	40:DT:39:ARG:NH2	2.01	0.60
22:DB:907:U:C5'	43:DW:143:ILE:CD1	2.58	0.60
22:DB:793:G:OP2	24:DD:53:PHE:CZ	2.55	0.60
28:DH:7:GLN:O	28:DH:69:ARG:HD3	2.01	0.60
22:DB:1670:G:N1	35:DO:11:ASN:OD1	2.35	0.60
37:DQ:40:ARG:HE	37:DQ:91:VAL:HG23	1.66	0.60
32:DL:86:GLY:CA	37:DQ:84:ALA:N	2.64	0.60
22:DB:1162:A:C4	38:DR:78:THR:HG23	2.35	0.60
40:DT:62:ARG:NH1	40:DT:64:ALA:HB2	2.16	0.60
22:DB:1011:A:H5'	46:DZ:7:ARG:NH1	2.12	0.60
1:EA:1264:C:H2'	1:EA:1265:G:H8	1.65	0.60
1:EA:538:G:P	12:EL:113:ARG:HD2	2.41	0.60
4:ED:194:LEU:H	4:ED:194:LEU:HD22	1.67	0.60
4:ED:93:PHE:HA	4:ED:96:LEU:HD22	1.84	0.60
9:EI:10:ARG:CZ	9:EI:11:LYS:HB2	2.31	0.60
1:EA:520:A:C3'	12:EL:73:GLU:HA	2.31	0.60
1:EA:880:C:P	12:EL:7:ILE:HG21	2.35	0.60
13:EM:13:LYS:HG2	13:EM:14:ARG:H	1.66	0.60
17:EQ:56:VAL:HG21	17:EQ:84:LEU:HD13	1.82	0.60
19:ES:40:ILE:HD13	19:ES:62:ILE:HB	1.84	0.60
22:FB:113:C:C1'	22:FB:125:A:H4'	2.31	0.60
22:FB:116:A:H2'	22:FB:118:U:H5	1.66	0.60
22:FB:1508:G:H5'	24:FD:101:GLU:OE1	2.02	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:FB:1793:A:H61	22:FB:1806:G:H2'	1.66	0.60
22:FB:2313:G:H2'	36:FP:15:ARG:NH1	2.17	0.60
22:FB:2537:C:H2'	22:FB:2538:C:H6	1.66	0.60
22:FB:2714:A:C8	22:FB:2750:G:N2	2.64	0.60
22:FB:2774:U:H3'	22:FB:2780:A:O2'	2.02	0.60
34:FN:27:TYR:CE1	43:FW:72:ASP:C	2.65	0.60
22:FB:2679:G:N2	35:FO:68:GLN:OE1	2.35	0.60
38:FR:25:TRP:O	38:FR:28:ARG:HG3	2.02	0.60
43:FW:3:LEU:HD23	43:FW:54:ILE:HG12	1.82	0.60
1:GA:1370:G:C8	9:GI:109:VAL:HG11	2.36	0.60
1:GA:1374:A:O3'	7:GG:28:ASN:CB	2.49	0.60
1:GA:393:A:H2'	1:GA:394:G:H5'	1.83	0.60
7:GG:150:ALA:C	11:GK:59:TYR:CZ	2.73	0.60
8:GH:25:ASP:HA	8:GH:59:LEU:O	2.01	0.60
13:GM:13:LYS:HG2	13:GM:14:ARG:H	1.66	0.60
22:HB:2265:A:H62	49:H3:38:LYS:NZ	1.98	0.60
22:HB:156:G:OP1	50:H4:28:ARG:CZ	2.49	0.60
22:HB:3875:A:N3	53:H7:43:LYS:N	2.49	0.60
22:HB:1240:G:H2'	22:HB:1241:G:C8	2.36	0.60
22:HB:1722:G:H2'	22:HB:1723:U:C6	2.36	0.60
22:HB:1884:A:N3	24:HD:244:ARG:HD3	2.09	0.60
22:HB:1982:C:H2'	22:HB:1983:G:C8	2.35	0.60
22:HB:2025:A:H8	31:HK:142:ARG:HH21	1.47	0.60
22:HB:2064:U:H5'	47:H1:33:VAL:HG12	1.78	0.60
22:HB:2340:C:H2'	22:HB:2341:G:C8	2.36	0.60
22:HB:2047:C:H1'	22:HB:2429:A:N6	2.15	0.60
22:HB:543:G:OP1	38:HR:24:PHE:HA	2.01	0.60
22:HB:237:G:C4'	22:HB:618:A:C2	2.83	0.60
22:HB:681:A:OP2	33:HM:48:PHE:CE1	2.54	0.60
22:HB:686:C:H4'	26:HF:74:VAL:HG13	1.82	0.60
22:HB:800:U:H5''	22:HB:801:A:H5'	1.83	0.60
25:HE:103:ASP:HB3	25:HE:168:GLN:HA	1.84	0.60
22:HB:1081:A:C2	30:HJ:10:LEU:HA	2.35	0.60
22:HB:539:A:P	31:HK:139:ARG:HB2	2.41	0.60
31:HK:65:LYS:C	31:HK:67:ARG:H	2.05	0.60
22:HB:596:C:P	33:HM:29:THR:O	2.60	0.60
38:HR:25:TRP:O	38:HR:28:ARG:HG3	2.01	0.60
22:HB:2235:G:OP1	44:HX:5:LYS:HG3	1.98	0.60
1:IA:435:C:H2'	1:IA:436:C:O4'	2.01	0.60
1:IA:701:C:H4'	1:IA:702:A:OP2	2.02	0.60
4:ID:155:LEU:HD12	4:ID:158:ILE:HD11	1.83	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:ID:194:LEU:HD22	4:ID:194:LEU:H	1.67	0.60
4:ID:201:GLN:OE1	5:IE:116:THR:CB	2.49	0.60
7:IG:16:LEU:HD12	9:II:45:ALA:CB	2.25	0.60
9:II:11:LYS:H	9:II:104:ARG:HE	1.50	0.60
14:IN:33:VAL:HG12	14:IN:40:CYS:HB3	1.84	0.60
1:IA:1114:C:O2'	14:IN:61:TRP:CD2	2.35	0.60
23:JA:59:A:H3'	23:JA:59:A:OP2	2.02	0.60
22:JB:1090:C:O2	30:JJ:132:ARG:HD3	2.01	0.60
22:JB:1667:A:H2'	22:JB:1668:G:H8	1.64	0.60
22:JB:1982:C:H4'	22:JB:2702:G:H22	1.66	0.60
22:JB:2259:G:H21	22:JB:2367:A:H1'	1.66	0.60
22:JB:1949:A:C2	22:JB:2571:G:H2'	2.37	0.60
22:JB:3167:U:N3	53:J7:101:LYS:HG3	2.15	0.60
22:JB:529:U:C5'	40:JT:39:ARG:HH21	2.14	0.60
22:JB:672:C:C4'	26:JF:95:LEU:H	2.14	0.60
24:JD:270:ILE:H	24:JD:270:ILE:HD13	1.66	0.60
22:JB:706:A:OP1	24:JD:60:ARG:NE	2.34	0.60
25:JE:103:ASP:HB3	25:JE:168:GLN:HA	1.84	0.60
25:JE:111:LYS:H	25:JE:111:LYS:HD3	1.66	0.60
22:JB:2491:C:C2	25:JE:140:SER:OG	2.53	0.60
25:JE:1:MET:N	25:JE:199:ARG:HH12	1.98	0.60
32:JL:55:VAL:HG11	32:JL:68:ASP:HB3	1.82	0.60
22:JB:541:C:O2'	38:JR:25:TRP:CZ3	2.48	0.60
39:JS:6:GLN:H	39:JS:6:GLN:CD	2.05	0.60
40:JT:102:THR:HG22	40:JT:121:THR:HG22	1.82	0.60
22:JB:941:U:O2'	46:JZ:24:GLY:HA3	2.02	0.60
1:AA:1013:G:OP2	19:AS:18:LYS:CD	2.49	0.60
3:AC:133:ALA:HA	3:AC:136:GLN:HB2	1.83	0.60
4:AD:194:LEU:HD22	4:AD:194:LEU:H	1.67	0.60
22:BB:1378:A:O4'	47:B1:11:PRO:HB3	2.00	0.60
22:BB:1135:C:C4'	52:B6:36:GLN:HB2	2.31	0.60
22:BB:1143:A:H62	22:BB:2009:U:H1'	1.67	0.60
22:BB:116:A:H2'	22:BB:118:U:H5	1.66	0.60
22:BB:1675:C:OP1	25:BE:134:TRP:HE3	1.84	0.60
22:BB:1793:A:H61	22:BB:1806:G:H2'	1.66	0.60
22:BB:1816:G:P	24:BD:54:ILE:CD1	2.78	0.60
22:BB:2309:G:H4'	44:BX:71:ASN:HD21	1.66	0.60
22:BB:2356:A:H2'	22:BB:2357:A:O4'	2.02	0.60
22:BB:2861:A:H2'	48:B2:31:THR:CG2	2.31	0.60
22:BB:2075:U:O3'	22:BB:3093:C:P	2.60	0.60
22:BB:3115:G:N7	22:BB:3117:A:H3'	2.16	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:BB:761:G:N7	40:BT:110:ALA:CB	2.60	0.60
22:BB:891:A:C4'	22:BB:893:G:N9	2.43	0.60
22:BB:1507:A:H5''	24:BD:99:ASP:O	2.00	0.60
27:BG:66:ILE:O	27:BG:67:ILE:HG22	2.02	0.60
22:BB:2725:C:N3	28:BH:143:GLN:OE1	2.32	0.60
34:BN:102:ARG:H	34:BN:104:MET:HE1	1.66	0.60
23:BA:92:G:C2'	34:BN:22:ALA:HA	2.31	0.60
39:BS:32:LYS:HD2	39:BS:62:GLU:HB3	1.83	0.60
22:BB:2310:G:O2'	44:BX:70:ILE:CB	2.49	0.60
1:CA:1309:G:P	13:CM:88:ARG:CZ	2.89	0.60
4:CD:201:GLN:CD	5:CE:116:THR:CB	2.70	0.60
1:CA:10:A:N7	5:CE:126:ARG:NE	2.49	0.60
8:CH:132:GLU:HG2	8:CH:133:LEU:H	1.67	0.60
1:CA:941:G:H21	9:CI:121:ARG:NH2	2.00	0.60
17:CQ:57:VAL:HG23	17:CQ:59:ILE:HD11	1.83	0.60
49:D3:10:VAL:HG13	49:D3:26:LYS:HB3	1.82	0.60
22:DB:1398:G:C2	22:DB:1416:A:C6	2.89	0.60
22:DB:1887:G:C2	22:DB:1888:C:N1	2.69	0.60
22:DB:2487:G:C5'	22:DB:2534:U:H5'	2.31	0.60
22:DB:2537:C:H2'	22:DB:2538:C:H6	1.66	0.60
22:DB:2745:A:N1	22:DB:2746:G:H1'	2.13	0.60
22:DB:2795:A:C8	25:DE:192:ASN:CB	2.69	0.60
22:DB:417:C:O2'	22:DB:418:C:H4'	2.01	0.60
22:DB:545:C:O2	38:DR:53:LYS:HE2	2.01	0.60
22:DB:598:U:H2'	22:DB:599:A:C8	2.37	0.60
27:DG:72:LYS:HG2	27:DG:81:GLN:NE2	2.16	0.60
28:DH:138:LYS:HD2	28:DH:141:VAL:HG11	1.83	0.60
31:DK:65:LYS:C	31:DK:67:ARG:H	2.05	0.60
22:DB:2463:G:O3'	34:DN:47:GLN:CG	2.49	0.60
23:DA:117:G:C4'	36:DP:51:LEU:O	2.50	0.60
22:DB:1173:G:C4'	39:DS:22:VAL:HG12	2.32	0.60
40:DT:24:GLY:HA3	40:DT:127:ILE:HG12	1.83	0.60
42:DV:96:LYS:HB3	42:DV:98:ILE:HG13	1.84	0.60
22:DB:888:G:C2	43:DW:165:GLU:HB2	2.35	0.60
22:DB:887:G:N7	43:DW:167:THR:CG2	2.64	0.60
1:EA:1514:C:H2'	1:EA:1515:C:C6	2.36	0.60
1:EA:922:G:O2'	5:EE:19:MET:CE	2.49	0.60
3:EC:70:VAL:HG11	3:EC:76:VAL:HG21	1.83	0.60
4:ED:11:LEU:HD23	4:ED:11:LEU:H	1.67	0.60
4:ED:126:ILE:HD12	4:ED:148:VAL:HG22	1.83	0.60
1:EA:1374:A:C2'	7:EG:29:LYS:HE3	2.31	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:EA:1146:A:N3	9:EI:16:ARG:NH1	2.45	0.60
11:EK:79:SER:HA	11:EK:104:GLN:HB3	1.83	0.60
16:EP:55:ARG:HA	16:EP:55:ARG:HE	1.67	0.60
1:EA:1320:C:C1'	19:ES:72:GLY:CA	2.80	0.60
22:FB:1041:G:N2	52:F6:5:SER:CA	2.63	0.60
22:FB:1195:U:H2'	22:FB:1196:G:C8	2.36	0.60
22:FB:1887:G:O3'	22:FB:1888:C:OP2	2.08	0.60
22:FB:2262:C:H2'	49:F3:8:ILE:HD11	1.83	0.60
22:FB:2404:A:H5'	22:FB:2406:C:C2	2.36	0.60
22:FB:25:U:H4'	40:FT:100:GLY:C	2.22	0.60
22:FB:3:U:C4	22:FB:2874:A:N1	2.70	0.60
22:FB:300:C:N4	22:FB:363:G:H1'	2.16	0.60
24:FD:142:VAL:HG11	24:FD:145:LEU:HD21	1.84	0.60
27:FG:4:LEU:HD13	27:FG:97:TYR:O	2.00	0.60
22:FB:2742:G:H21	28:FH:150:LYS:CE	2.14	0.60
31:FK:65:LYS:C	31:FK:67:ARG:H	2.05	0.60
34:FN:47:GLN:NE2	34:FN:121:LEU:HB3	2.15	0.60
34:FN:99:LYS:CG	43:FW:74:ARG:HG3	2.21	0.60
1:GA:131:C:O2'	1:GA:262:A:H1'	2.01	0.60
1:GA:391:G:H5'	16:GP:8:ARG:CZ	2.32	0.60
1:GA:701:C:H4'	1:GA:702:A:OP2	2.02	0.60
1:GA:755:G:P	15:GO:65:ARG:CZ	2.90	0.60
9:GI:11:LYS:H	9:GI:104:ARG:HE	1.50	0.60
1:GA:1199:U:H1'	10:GJ:54:PHE:CG	2.36	0.60
1:GA:1199:U:O2'	10:GJ:54:PHE:CZ	2.54	0.60
20:GT:26:ASN:HA	20:GT:29:LYS:HD2	1.83	0.60
48:H2:46:CYS:HB3	48:H2:48:ASN:H	1.67	0.60
22:HB:115:G:O6	22:HB:117:A:C6	2.54	0.60
22:HB:1437:A:C6	22:HB:1438:G:O6	2.54	0.60
22:HB:1487:C:N4	22:HB:1536:G:C6	2.65	0.60
22:HB:221:A:P	33:HM:67:ASN:ND2	2.74	0.60
22:HB:224:G:H1'	22:HB:229:G:N2	2.13	0.60
22:HB:2365:U:OP1	44:HX:39:ARG:NH2	2.34	0.60
22:HB:1750:A:C5'	22:HB:2695:C:C1'	2.80	0.60
22:HB:2803:C:H2'	22:HB:2804:G:H8	1.65	0.60
22:HB:63:A:N1	22:HB:89:A:C6	2.69	0.60
22:HB:79:G:O2'	22:HB:305:A:H2	1.76	0.60
22:HB:887:G:H5'	43:HW:170:SER:OG	1.99	0.60
22:HB:916:U:C2'	43:HW:166:LEU:HD13	2.31	0.60
34:HN:106:GLU:HG2	43:HW:114:ASP:O	2.01	0.60
36:HP:35:SER:HB3	36:HP:64:LYS:HE2	1.82	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:HB:2250:G:OP2	44:HX:18:PRO:CD	2.49	0.60
1:IA:1061:G:H2'	1:IA:1062:U:O4'	2.01	0.60
1:IA:707:C:OP1	11:IK:22:HIS:NE2	2.33	0.60
5:IE:82:VAL:HB	5:IE:137:GLU:HB2	1.83	0.60
9:II:10:ARG:CZ	9:II:11:LYS:HB2	2.31	0.60
1:IA:676:A:C2'	11:IK:115:PRO:HA	2.31	0.60
1:IA:260:G:OP2	20:IT:80:ARG:NH2	2.34	0.60
22:JB:2074:U:H3	47:J1:43:TRP:H	1.36	0.60
22:JB:764:A:H3'	50:J4:3:ARG:HH12	1.67	0.60
51:J5:46:LYS:HD3	51:J5:46:LYS:H	1.67	0.60
22:JB:2737:A:C8	52:J6:18:ARG:HD3	2.37	0.60
22:JB:1000:G:C6	46:JZ:10:ILE:HG12	2.36	0.60
22:JB:1049:C:N4	22:JB:1129:A:C6	2.69	0.60
22:JB:1356:G:H1	22:JB:1416:A:H62	1.49	0.60
22:JB:248:A:C8	22:JB:373:A:N6	2.70	0.60
22:JB:2852:G:H5'	37:JQ:8:ASN:CG	2.21	0.60
22:JB:355:G:H21	22:JB:356:A:N6	1.99	0.60
22:JB:552:C:H2'	22:JB:553:C:C4'	2.17	0.60
22:JB:597:U:O4'	26:JF:84:PHE:CZ	2.55	0.60
22:JB:603:C:C2	22:JB:677:G:N1	2.53	0.60
24:JD:142:VAL:HG11	24:JD:145:LEU:HD21	1.84	0.60
22:JB:3093:C:C5'	29:JI:24:TYR:HB3	2.29	0.60
22:JB:1148:G:O4'	31:JK:133:GLY:HA3	1.99	0.60
1:AA:1392:G:O4'	1:AA:1531:A:O4'	2.18	0.60
1:AA:234:C:H5'	17:AQ:64:PRO:HD3	1.83	0.60
1:AA:648:A:H2'	1:AA:649:G:H8	1.66	0.60
1:AA:659:U:H5'	15:AO:5:LYS:CG	2.31	0.60
1:AA:720:C:H4'	18:AR:52:PRO:CG	2.30	0.60
4:AD:161:ASN:HD22	4:AD:162:LEU:N	1.99	0.60
4:AD:71:SER:O	4:AD:75:PHE:HB2	2.02	0.60
1:AA:1125:U:O4	10:AJ:73:ASP:OD2	2.19	0.60
13:AM:23:TYR:HD2	13:AM:67:GLU:HG2	1.66	0.60
19:AS:40:ILE:HD13	19:AS:62:ILE:HB	1.84	0.60
22:BB:699:G:O2'	50:B4:6:GLN:HG3	2.01	0.60
23:BA:59:A:H3'	23:BA:59:A:OP2	2.02	0.60
22:BB:1148:G:OP1	31:BK:132:PHE:CZ	2.48	0.60
22:BB:1416:A:H4'	22:BB:1485:U:C2'	2.32	0.60
22:BB:1461:C:C1'	22:BB:1561:A:O2'	2.34	0.60
22:BB:2463:G:H22	34:BN:120:ARG:CD	1.82	0.60
22:BB:568:G:N7	22:BB:569:C:C2	2.69	0.60
22:BB:598:U:H2'	22:BB:599:A:C8	2.37	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:BB:641:G:N2	22:BB:643:A:H3'	2.16	0.60
22:BB:700:C:C4'	50:B4:3:ARG:C	2.56	0.60
27:BG:72:LYS:HG2	27:BG:81:GLN:NE2	2.16	0.60
28:BH:152:ARG:NH1	28:BH:154:PRO:HG3	2.15	0.60
30:BJ:103:GLN:HG3	30:BJ:107:ILE:HG13	1.83	0.60
32:BL:76:ARG:HB3	32:BL:90:ARG:HH12	1.66	0.60
22:BB:2394:G:C4'	33:BM:64:GLY:HA2	2.29	0.60
43:BW:3:LEU:HA	43:BW:34:LEU:HD21	1.84	0.60
22:BB:2236:U:P	44:BX:10:SER:CB	2.47	0.60
22:BB:2237:C:P	44:BX:4:LYS:HZ1	2.15	0.60
1:CA:1067:A:H4'	1:CA:1387:G:H4'	1.83	0.60
1:CA:976:G:N2	1:CA:1362:C:H3'	2.16	0.60
1:CA:741:G:O3'	15:CO:58:MET:CE	2.50	0.60
1:CA:827:U:C4'	8:CH:21:LYS:CD	2.59	0.60
3:CC:133:ALA:HA	3:CC:136:GLN:HB2	1.84	0.60
4:CD:11:LEU:H	4:CD:11:LEU:HD23	1.67	0.60
10:CJ:22:LYS:HB3	10:CJ:23:ILE:HD12	1.84	0.60
1:CA:35:G:C2'	12:CL:118:SER:O	2.49	0.60
13:CM:88:ARG:O	13:CM:96:LEU:N	2.34	0.60
22:DB:1685:A:H61	22:DB:1693:A:H62	1.47	0.60
22:DB:1803:G:N3	24:DD:47:GLY:CA	2.63	0.60
22:DB:2040:A:C1'	48:D2:3:LYS:O	2.48	0.60
22:DB:2236:U:OP2	44:DX:4:LYS:HA	2.02	0.60
22:DB:641:G:N2	22:DB:643:A:H3'	2.16	0.60
22:DB:917:U:O2'	43:DW:120:LEU:O	2.19	0.60
24:DD:151:LYS:HG3	24:DD:152:GLY:H	1.65	0.60
22:DB:742:G:C5	24:DD:208:LYS:HD3	2.37	0.60
25:DE:103:ASP:HB3	25:DE:168:GLN:HA	1.84	0.60
27:DG:11:GLN:HE22	27:DG:12:VAL:HG13	1.66	0.60
27:DG:66:ILE:O	27:DG:67:ILE:HG22	2.02	0.60
30:DJ:21:PRO:HB2	30:DJ:22:PRO:CD	2.27	0.60
31:DK:75:ILE:CG2	31:DK:140:GLN:HA	2.30	0.60
38:DR:47:TYR:HA	39:DS:74:TYR:CD1	2.36	0.60
1:EA:200:G:N2	1:EA:217:C:H42	2.00	0.60
1:EA:639:G:C2'	8:EH:116:LYS:HZ1	2.09	0.60
2:EB:8:LYS:HA	2:EB:48:MET:HE2	1.83	0.60
1:EA:1057:G:O3'	3:EC:154:SER:HA	2.01	0.60
3:EC:36:ASP:HB3	3:EC:40:ARG:NH1	2.17	0.60
1:EA:546:G:N1	4:ED:2:GLY:HA2	2.16	0.60
4:ED:205:GLU:N	5:EE:101:ILE:HG12	2.15	0.60
6:EF:48:LEU:HA	18:ER:78:LEU:HA	1.83	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:EI:111:ARG:HD2	14:EN:61:TRP:OXT	2.01	0.60
10:EJ:13:HIS:HA	10:EJ:16:LEU:HB2	1.84	0.60
13:EM:88:ARG:NH2	13:EM:99:ARG:HH21	1.98	0.60
22:FB:1294:G:H1	22:FB:1299:A:N6	1.99	0.60
22:FB:2037:A:H5'	25:FE:145:LYS:CE	2.21	0.60
22:FB:2356:A:H2'	22:FB:2357:A:O4'	2.02	0.60
22:FB:2370:G:O6	49:F3:2:ALA:CB	2.50	0.60
22:FB:598:U:H2'	22:FB:599:A:C8	2.37	0.60
22:FB:641:G:N2	22:FB:643:A:H3'	2.16	0.60
22:FB:1508:G:OP2	24:FD:101:GLU:OE1	2.19	0.60
22:FB:1581:C:N4	24:FD:84:TYR:HH	2.00	0.60
22:FB:332:C:OP2	26:FF:129:LYS:HA	2.02	0.60
32:FL:76:ARG:HB3	32:FL:90:ARG:HH12	1.66	0.60
22:FB:1630:A:H61	40:FT:109:ARG:C	2.05	0.60
22:FB:346:C:H1'	42:FV:79:SER:CA	2.31	0.60
1:GA:1061:G:H2'	1:GA:1062:U:O4'	2.01	0.60
1:GA:106:C:H42	20:GT:14:LYS:NZ	2.00	0.60
1:GA:1321:C:OP1	13:GM:100:GLY:HA2	2.02	0.60
1:GA:1393:U:C3'	1:GA:1394:A:P	2.89	0.60
1:GA:927:G:C2	1:GA:1532:U:C4'	2.79	0.60
1:GA:15:G:H2'	1:GA:16:A:O4'	2.02	0.60
1:GA:35:G:C4	12:GL:118:SER:CA	2.60	0.60
1:GA:618:C:H42	1:GA:622:A:H62	1.47	0.60
1:GA:643:C:H2'	1:GA:644:G:H8	1.65	0.60
3:GC:133:ALA:HA	3:GC:136:GLN:HB2	1.84	0.60
10:GJ:51:ARG:HG3	10:GJ:60:ARG:O	2.02	0.60
1:GA:36:C:H4'	12:GL:117:ARG:HD2	1.22	0.60
23:HA:42:U:H1'	23:HA:49:C:N3	2.16	0.60
23:HA:59:A:H3'	23:HA:59:A:OP2	2.02	0.60
22:HB:12:U:H2'	22:HB:13:A:H5'	1.82	0.60
22:HB:1667:A:H2'	22:HB:1668:G:H8	1.65	0.60
22:HB:173:A:H2'	22:HB:2051:U:H5	1.66	0.60
22:HB:2357:A:H1'	36:HP:89:PHE:CZ	2.36	0.60
22:HB:2394:G:H5''	33:HM:64:GLY:HA2	1.83	0.60
22:HB:2463:G:H2'	22:HB:2464:G:C8	2.37	0.60
22:HB:2523:G:H1'	22:HB:2625:U:H5'	1.83	0.60
22:HB:1982:C:H4'	22:HB:2702:G:H22	1.66	0.60
22:HB:355:G:H21	22:HB:356:A:N6	1.99	0.60
22:HB:505:G:H21	40:HT:80:LEU:CB	1.97	0.60
22:HB:569:C:H2'	22:HB:570:G:H8	1.66	0.60
31:HK:36:ASN:HA	31:HK:39:GLN:NE2	2.16	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:HB:2356:A:H2	36:HP:89:PHE:CZ	2.14	0.60
37:HQ:36:ASP:HB3	37:HQ:55:ILE:HD11	1.83	0.60
1:IA:1226:C:C5	13:IM:104:ARG:N	2.55	0.60
1:IA:1391:U:O2'	1:IA:1531:A:C4'	2.49	0.60
1:IA:629:G:H21	1:IA:631:G:H22	1.47	0.60
1:IA:919:A:C8	1:IA:920:U:H5	2.19	0.60
1:IA:954:G:H5'	13:IM:124:PRO:CD	2.26	0.60
4:ID:161:ASN:HD22	4:ID:162:LEU:N	1.99	0.60
1:IA:642:A:C2	8:IH:114:THR:CA	2.79	0.60
1:IA:878:G:OP1	8:IH:91:ARG:HB2	2.01	0.60
19:IS:12:ASP:N	19:IS:38:SER:HB3	2.15	0.60
22:JB:1265:G:C1'	38:JR:32:TYR:OH	2.48	0.60
22:JB:1671:A:H4'	35:JO:3:HIS:HD2	1.66	0.60
22:JB:173:A:H2'	22:JB:2051:U:H5	1.66	0.60
22:JB:1996:A:O2'	40:JT:115:ASN:CA	2.49	0.60
22:JB:2797:G:N3	22:JB:2797:G:H2'	2.15	0.60
22:JB:569:C:H2'	22:JB:570:G:H8	1.66	0.60
22:JB:599:A:H2'	22:JB:600:G:O4'	2.01	0.60
22:JB:603:C:C2	22:JB:677:G:N2	2.55	0.60
22:JB:6:A:H2'	22:JB:7:G:C8	2.37	0.60
22:JB:71:A:C6	45:JY:57:LYS:HG3	2.34	0.60
22:JB:2042:A:OP1	26:JF:66:ASN:N	2.30	0.60
37:JQ:64:LYS:HA	37:JQ:86:PRO:HG2	1.84	0.60
1:AA:1248:A:H2'	1:AA:1248:A:N3	2.08	0.60
1:AA:1239:A:N6	1:AA:1299:A:H62	1.92	0.60
1:AA:1514:C:H2'	1:AA:1515:C:C6	2.36	0.60
1:AA:194:C:H5'	20:AT:65:LYS:HA	1.83	0.60
1:AA:73:C:H2'	1:AA:74:G:C8	2.36	0.60
1:AA:22:G:H4'	1:AA:885:G:O4'	2.02	0.60
3:AC:55:VAL:HA	3:AC:68:VAL:HG13	1.82	0.60
1:AA:407:G:H5''	4:AD:115:ARG:CB	2.31	0.60
7:AG:26:PHE:HB2	7:AG:101:LEU:HD13	1.83	0.60
10:AJ:42:THR:HA	10:AJ:67:THR:O	2.02	0.60
6:AF:48:LEU:HD22	18:AR:76:LEU:O	2.01	0.60
22:BB:2862:G:H1'	48:B2:31:THR:N	1.89	0.60
22:BB:1073:G:H21	30:BJ:133:SER:CB	2.14	0.60
22:BB:1685:A:H61	22:BB:1693:A:H62	1.47	0.60
22:BB:2404:A:H5'	22:BB:2406:C:C2	2.36	0.60
22:BB:2790:C:O2'	48:B2:43:HIS:CD2	2.55	0.60
25:BE:103:ASP:HB3	25:BE:168:GLN:HA	1.84	0.60
22:BB:1143:A:N1	31:BK:103:TYR:CB	2.64	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:BB:1169:C:H5'	46:BZ:27:LYS:HZ3	1.66	0.60
1:CA:1014:A:N7	19:CS:34:TRP:CZ3	2.69	0.60
1:CA:16:A:C2'	5:CE:16:THR:HA	2.32	0.60
1:CA:501:C:O2'	1:CA:549:C:H1'	2.02	0.60
1:CA:825:G:N2	8:CH:15:ASN:ND2	2.49	0.60
1:CA:992:U:H4'	1:CA:993:G:O5'	2.02	0.60
1:CA:8:A:O2'	4:CD:209:ARG:NH2	2.35	0.60
7:CG:45:ASP:O	7:CG:49:ILE:HG13	2.01	0.60
10:CJ:42:THR:HA	10:CJ:67:THR:O	2.02	0.60
1:CA:253:U:C2'	17:CQ:16:GLN:O	2.49	0.60
19:CS:40:ILE:HD13	19:CS:62:ILE:HB	1.84	0.60
49:D3:41:ASP:HA	49:D3:47:HIS:HA	1.83	0.60
22:DB:2729:A:H2	52:D6:18:ARG:NH2	1.90	0.60
1:CA:1428:A:O2'	22:DB:1720:G:O4'	2.18	0.60
22:DB:221:A:OP2	51:D5:7:HIS:ND1	2.32	0.60
22:DB:2745:A:C4	22:DB:2746:G:O4'	2.55	0.60
22:DB:3115:G:N7	22:DB:3117:A:H3'	2.16	0.60
22:DB:687:G:O4'	26:DF:68:ARG:NH2	2.34	0.60
22:DB:815:A:H2'	22:DB:816:U:C2	2.36	0.60
27:DG:4:LEU:HD13	27:DG:97:TYR:O	2.00	0.60
22:DB:2646:C:C5	28:DH:109:TYR:CG	2.89	0.60
33:DM:75:VAL:HG22	33:DM:77:LEU:H	1.65	0.60
39:DS:36:LYS:HA	39:DS:36:LYS:NZ	2.16	0.60
22:DB:917:U:H5''	43:DW:121:GLN:O	2.01	0.60
45:DY:50:VAL:HG13	45:DY:54:ASN:HD21	1.66	0.60
22:DB:863:C:O2'	46:DZ:43:MET:SD	2.59	0.60
1:EA:128:G:O2'	17:EQ:61:GLU:C	2.40	0.60
1:EA:1318:A:O4'	19:ES:10:PHE:CE1	2.54	0.60
1:EA:1515:C:H2'	1:EA:1516:G:O4'	2.02	0.60
1:EA:538:G:C5'	12:EL:114:LYS:HD3	2.31	0.60
22:FB:219:G:C5'	51:F5:3:LYS:HB3	2.31	0.60
22:FB:1002:C:O2	22:FB:1175:A:C2	2.55	0.60
22:FB:1370:U:H2'	22:FB:1371:G:H8	1.66	0.60
22:FB:1685:A:H61	22:FB:1693:A:H62	1.48	0.60
22:FB:1742:G:O2'	22:FB:2836:U:H4'	2.01	0.60
22:FB:1743:C:H5''	22:FB:2836:U:O3'	2.01	0.60
22:FB:2239:C:C2'	44:FX:14:ARG:NE	2.64	0.60
22:FB:846:A:C2	22:FB:2337:A:N6	2.69	0.60
22:FB:2491:C:OP1	25:FE:120:TRP:CE2	2.53	0.60
22:FB:2510:A:OP1	28:FH:175:LYS:CG	2.48	0.60
22:FB:2713:A:H62	25:FE:203:LYS:CB	2.01	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:FB:865:A:N6	22:FB:937:C:H42	1.95	0.60
22:FB:2614:A:N1	25:FE:79:ARG:NH1	2.42	0.60
27:FG:66:ILE:O	27:FG:67:ILE:HG22	2.01	0.60
22:FB:2727:G:O2'	28:FH:67:LEU:HD21	2.01	0.60
22:FB:845:U:H5''	33:FM:41:SER:HB2	1.79	0.60
34:FN:27:TYR:CD2	43:FW:73:LYS:CG	2.84	0.60
1:GA:1238:A:C2	1:GA:1241:G:H1'	2.36	0.60
1:GA:421:U:H3'	1:GA:422:C:H6	1.66	0.60
1:GA:741:G:O3'	15:GO:52:SER:CA	2.38	0.60
1:GA:902:G:H2'	1:GA:903:G:H8	1.67	0.60
3:GC:70:VAL:HG11	3:GC:76:VAL:HG21	1.83	0.60
4:GD:155:LEU:HD12	4:GD:158:ILE:HD11	1.83	0.60
7:GG:120:ILE:O	7:GG:124:LEU:HG	2.02	0.60
7:GG:26:PHE:HB2	7:GG:101:LEU:HD13	1.83	0.60
13:GM:84:ILE:HG13	13:GM:86:CYS:H	1.66	0.60
22:HB:1130:U:H2'	22:HB:1131:G:H8	1.66	0.60
22:HB:1195:U:H2'	22:HB:1196:G:C8	2.36	0.60
22:HB:594:G:H22	22:HB:1266:G:P	2.24	0.60
22:HB:1398:G:N3	22:HB:1416:A:C2	2.70	0.60
22:HB:2236:U:C3'	44:HX:4:LYS:HZ2	2.15	0.60
22:HB:2465:G:H5'	34:HN:123:GLY:C	2.22	0.60
22:HB:2558:C:H2'	22:HB:2559:U:O4'	2.02	0.60
22:HB:2748:C:C5'	31:HK:119:LEU:HD22	2.32	0.60
22:HB:2833:C:H2'	22:HB:2834:A:O4'	2.00	0.60
22:HB:3122:U:OP1	53:H7:130:PRO:CB	2.45	0.60
22:HB:541:C:N4	22:HB:572:G:O4'	2.34	0.60
22:HB:593:C:H5''	38:HR:3:ARG:HH22	1.65	0.60
22:HB:599:A:H2'	22:HB:600:G:O4'	2.01	0.60
22:HB:603:C:C2	22:HB:604:U:N3	2.69	0.60
22:HB:6:A:H2'	22:HB:7:G:C8	2.37	0.60
22:HB:824:U:H3'	33:HM:33:GLY:N	2.16	0.60
30:HJ:103:GLN:HG3	30:HJ:107:ILE:HG13	1.83	0.60
32:HL:55:VAL:HG11	32:HL:68:ASP:HB3	1.82	0.60
22:HB:966:A:P	34:HN:18:MET:HE3	2.42	0.60
1:IA:10:A:H62	1:IA:559:A:N6	1.99	0.60
1:EA:1136:U:C6	1:IA:1136:U:O4'	2.54	0.60
1:IA:1187:G:O2'	9:II:113:LYS:HG3	2.02	0.60
1:IA:640:A:C2	8:IH:116:LYS:HG3	2.35	0.60
1:IA:664:G:N2	1:IA:741:G:H1	1.89	0.60
1:IA:902:G:H2'	1:IA:903:G:H8	1.67	0.60
1:IA:436:C:H5'	4:ID:156:GLU:HB3	1.84	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:IG:26:PHE:HB2	7:IG:101:LEU:HD22	1.84	0.60
8:IH:132:GLU:HG2	8:IH:133:LEU:H	1.67	0.60
13:IM:84:ILE:HG13	13:IM:86:CYS:H	1.66	0.60
16:IP:53:VAL:HB	16:IP:56:ALA:HB3	1.84	0.60
16:IP:71:ARG:HA	16:IP:74:LEU:HG	1.84	0.60
13:IM:87:TYR:CA	19:IS:76:PRO:HD3	2.30	0.60
52:J6:23:VAL:HG12	52:J6:36:GLN:NE2	2.17	0.60
22:JB:1130:U:H2'	22:JB:1131:G:H8	1.66	0.60
22:JB:1195:U:H2'	22:JB:1196:G:C8	2.36	0.60
22:JB:1828:C:C2	22:JB:1912:G:H5''	2.36	0.60
22:JB:2073:A:C2	47:J1:58:LYS:HE3	2.36	0.60
22:JB:2182:A:H61	22:JB:2204:A:H1'	1.67	0.60
22:JB:2404:A:H5'	22:JB:2406:C:C2	2.36	0.60
22:JB:2463:G:OP1	34:JN:44:LYS:NZ	2.35	0.60
22:JB:2833:C:H2'	22:JB:2834:A:O4'	2.01	0.60
22:JB:3167:U:H3	53:J7:101:LYS:HG3	1.67	0.60
22:JB:475:U:C6	50:J4:4:THR:O	2.55	0.60
22:JB:528:G:C1'	40:JT:97:VAL:N	2.54	0.60
22:JB:594:G:H22	22:JB:1266:G:P	2.24	0.60
15:IO:89:GLY:OXT	22:JB:730:C:C4	2.55	0.60
28:JH:148:VAL:HG23	28:JH:149:ARG:HE	1.67	0.60
22:JB:2652:G:C5'	32:JL:46:HIS:CE1	2.83	0.60
25:JE:19:ARG:HB2	32:JL:85:ASP:C	2.21	0.60
38:JR:28:ARG:HG2	38:JR:34:ASN:HB3	1.84	0.60
22:JB:1174:G:N3	39:JS:89:ASN:N	2.49	0.60
41:JU:42:ILE:HD12	41:JU:42:ILE:H	1.67	0.60
43:JW:43:PHE:CB	43:JW:119:ASN:OD1	2.49	0.60
1:AA:1397:C:H4'	1:AA:1398:A:O5'	2.02	0.60
1:AA:1515:C:H2'	1:AA:1516:G:O4'	2.02	0.60
1:AA:553:A:O4'	12:AL:31:PRO:HG2	2.01	0.60
2:AB:163:PHE:HA	2:AB:185:ILE:HB	1.83	0.60
5:AE:78:HIS:CG	8:AH:104:ARG:NH2	2.67	0.60
22:BB:1141:U:C5	31:BK:106:TYR:HD1	2.19	0.60
22:BB:1488:G:O6	22:BB:1536:G:C4	2.49	0.60
22:BB:177:U:C5'	47:B1:31:ILE:HG21	2.31	0.60
22:BB:2608:A:C6	22:BB:2869:U:H1'	2.36	0.60
22:BB:2608:A:O2'	22:BB:2609:G:H5'	2.02	0.60
22:BB:574:C:H5	39:BS:79:GLN:CD	2.05	0.60
22:BB:677:G:C3'	22:BB:678:G:P	2.89	0.60
22:BB:815:A:H2'	22:BB:816:U:C2	2.36	0.60
22:BB:2358:C:H5'	36:BP:19:THR:OG1	2.02	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:BL:85:ASP:O	37:BQ:84:ALA:CB	2.50	0.60
40:BT:24:GLY:HA3	40:BT:127:ILE:HG12	1.83	0.60
1:CA:254:G:H4'	17:CQ:45:HIS:HE1	1.67	0.60
1:CA:280:C:N4	17:CQ:88:TYR:CG	2.69	0.60
1:CA:73:C:H2'	1:CA:74:G:C8	2.36	0.60
1:CA:902:G:H2'	1:CA:903:G:H8	1.66	0.60
1:CA:954:G:C8	13:CM:123:ALA:HB2	2.36	0.60
1:CA:426:G:H4'	4:CD:42:GLN:H	1.65	0.60
7:CG:146:GLU:C	7:CG:148:ASN:H	2.05	0.60
1:CA:939:G:O2'	7:CG:29:LYS:CD	2.50	0.60
10:CJ:13:HIS:HA	10:CJ:16:LEU:HB2	1.84	0.60
1:CA:126:G:H21	17:CQ:4:LYS:NZ	1.88	0.60
23:DA:59:A:H3'	23:DA:59:A:OP2	2.02	0.60
22:DB:1018:C:H1'	31:DK:134:MET:CG	2.22	0.60
22:DB:1135:C:C2	52:D6:5:SER:HA	2.36	0.60
22:DB:2292:C:C5'	27:DG:87:ILE:CD1	2.79	0.60
22:DB:2356:A:H2'	22:DB:2357:A:O4'	2.02	0.60
22:DB:2404:A:H5'	22:DB:2406:C:C2	2.36	0.60
22:DB:2613:A:H2'	22:DB:2614:A:H8	1.66	0.60
22:DB:2714:A:C1'	25:DE:205:SER:HB3	2.31	0.60
24:DD:136:VAL:HG21	24:DD:165:VAL:HG11	1.81	0.60
24:DD:246:PRO:HG2	24:DD:247:VAL:N	2.14	0.60
22:DB:1004:A:C5'	38:DR:51:ARG:HB2	2.32	0.60
1:EA:1067:A:H4'	1:EA:1387:G:H4'	1.83	0.60
1:EA:976:G:N2	1:EA:1362:C:H3'	2.15	0.60
1:EA:408:A:H2'	1:EA:409:G:H8	1.66	0.60
6:EF:49:ALA:HB3	18:ER:80:PRO:HD3	1.78	0.60
53:F7:17:SER:OG	53:F7:20:TYR:HB2	2.02	0.60
22:FB:219:G:H5'	51:F5:3:LYS:CB	2.31	0.60
22:FB:2284:U:O2'	27:FG:151:GLY:HA2	2.02	0.60
22:FB:2464:G:O2'	34:FN:123:GLY:N	2.35	0.60
22:FB:2745:A:C5	22:FB:2746:G:C4	2.89	0.60
22:FB:594:G:OP1	26:FF:82:VAL:HG11	2.02	0.60
22:FB:595:A:H4'	26:FF:84:PHE:HE1	1.65	0.60
22:FB:2186:G:H1'	24:FD:150:GLY:CA	2.32	0.60
22:FB:2448:A:C2'	34:FN:57:ARG:HD3	2.29	0.60
22:FB:1007:A:C3'	38:FR:93:LYS:H	2.15	0.60
22:FB:339:U:C3'	42:FV:76:LEU:HA	2.32	0.60
1:GA:1418:A:H2	22:HB:1942:G:H1'	1.66	0.60
1:GA:158:G:H1	1:GA:163:C:N4	1.99	0.60
1:GA:200:G:N2	1:GA:217:C:H42	1.99	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:GA:509:A:H5'	4:GD:52:SER:CB	2.28	0.60
1:GA:629:G:H21	1:GA:631:G:H22	1.48	0.60
1:GA:691:G:O5'	11:GK:26:ASN:ND2	2.34	0.60
1:GA:736:C:H4'	6:GF:89:MET:HG3	1.83	0.60
1:GA:863:U:H2'	1:GA:864:A:H3'	1.83	0.60
2:GB:134:GLU:HA	2:GB:137:ARG:HE	1.66	0.60
4:GD:11:LEU:HD23	4:GD:11:LEU:H	1.67	0.60
7:GG:16:LEU:CD2	9:GI:42:ARG:HH11	2.10	0.60
11:GK:79:SER:HA	11:GK:104:GLN:HB3	1.83	0.60
1:GA:580:U:H5'	15:GO:54:ARG:HE	0.55	0.60
53:H7:17:SER:OG	53:H7:20:TYR:HB2	2.02	0.60
23:HA:45:C:H2'	27:HG:92:ARG:NH1	2.13	0.60
22:HB:1281:A:H2'	22:HB:1282:A:O4'	2.02	0.60
22:HB:1793:A:H61	22:HB:1806:G:H2'	1.66	0.60
22:HB:2404:A:H5'	22:HB:2406:C:C2	2.36	0.60
22:HB:2463:G:C5'	34:HN:44:LYS:NZ	2.62	0.60
22:HB:2797:G:N3	22:HB:2797:G:H2'	2.15	0.60
22:HB:2815:C:OP1	35:HO:50:GLN:CA	2.38	0.60
22:HB:2860:C:O2'	48:H2:33:CYS:O	2.20	0.60
24:HD:142:VAL:HG11	24:HD:145:LEU:HD21	1.84	0.60
24:HD:259:THR:HG22	24:HD:260:ARG:H	1.67	0.60
26:HF:22:VAL:HG13	26:HF:23:ASN:N	2.10	0.60
36:HP:29:LEU:HD12	36:HP:90:ASP:HA	1.81	0.60
37:HQ:64:LYS:HA	37:HQ:86:PRO:HG2	1.83	0.60
38:HR:28:ARG:HG2	38:HR:34:ASN:HB3	1.84	0.60
39:HS:21:ARG:HE	39:HS:22:VAL:H	1.48	0.60
22:HB:916:U:C3'	43:HW:166:LEU:CD1	2.78	0.60
41:HU:92:ALA:C	45:HY:27:GLU:CG	2.70	0.60
1:IA:1462:G:H4'	37:JQ:121:ARG:NH1	2.15	0.60
1:IA:131:C:O2'	1:IA:262:A:H1'	2.01	0.60
1:IA:376:G:H1'	16:IP:28:ARG:NH1	2.16	0.60
1:IA:675:A:H61	11:IK:116:HIS:CB	2.09	0.60
1:IA:992:U:H4'	1:IA:993:G:O5'	2.02	0.60
4:ID:108:LEU:HA	4:ID:170:VAL:HG21	1.83	0.60
7:IG:120:ILE:O	7:IG:124:LEU:HG	2.02	0.60
7:IG:146:GLU:C	7:IG:148:ASN:H	2.05	0.60
10:IJ:22:LYS:HB3	10:IJ:23:ILE:HD12	1.84	0.60
10:IJ:51:ARG:HG3	10:IJ:60:ARG:O	2.02	0.60
13:IM:13:LYS:HG2	13:IM:14:ARG:H	1.66	0.60
1:IA:1321:C:C4'	13:IM:87:TYR:CE2	2.81	0.60
22:JB:410:A:C5'	47:J1:58:LYS:CE	2.80	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
49:J3:41:ASP:HA	49:J3:47:HIS:HA	1.82	0.60
22:JB:2734:U:C6	52:J6:15:LYS:HE2	2.36	0.60
22:JB:50:G:C5	22:JB:117:A:C2	2.88	0.60
1:IA:1409:C:H5'	22:JB:1899:A:N6	2.16	0.60
22:JB:224:G:H1'	22:JB:229:G:N2	2.13	0.60
22:JB:428:A:C6	22:JB:2388:G:N1	2.70	0.60
22:JB:2463:G:H2'	22:JB:2464:G:C8	2.37	0.60
22:JB:1750:A:H5''	22:JB:2695:C:H4'	1.84	0.60
22:JB:3167:U:H6	53:J7:97:LYS:HB3	1.67	0.60
22:JB:339:U:HO2'	42:JV:77:HIS:C	2.05	0.60
22:JB:827:C:C4	33:JM:32:ARG:CD	2.84	0.60
22:JB:2614:A:H5'	25:JE:77:ILE:HD12	1.84	0.60
22:JB:2615:U:C4'	25:JE:79:ARG:HD2	2.31	0.60
27:JG:72:LYS:HG2	27:JG:81:GLN:NE2	2.16	0.60
30:JJ:125:ASN:H	30:JJ:125:ASN:ND2	1.99	0.60
31:JK:116:ARG:NH1	31:JK:119:LEU:HD12	2.16	0.60
32:JL:76:ARG:HB3	32:JL:90:ARG:HH12	1.66	0.60
1:IA:1462:G:C3'	37:JQ:121:ARG:HH22	2.10	0.60
22:JB:541:C:C2'	38:JR:25:TRP:CD2	2.85	0.60
22:JB:339:U:C1'	42:JV:77:HIS:CD2	2.84	0.60
1:AA:1255:G:H4'	1:AA:1258:G:O2'	2.02	0.60
1:AA:15:G:H2'	1:AA:16:A:O4'	2.02	0.60
1:AA:501:C:O2'	1:AA:549:C:H1'	2.01	0.60
1:AA:902:G:H2'	1:AA:903:G:C8	2.37	0.60
1:AA:1189:C:C5'	3:AC:10:PHE:HZ	2.14	0.60
7:AG:16:LEU:CD2	9:AI:42:ARG:HH12	2.14	0.60
1:AA:824:C:C1'	8:AH:2:LEU:HA	2.29	0.60
13:AM:13:LYS:HG2	13:AM:14:ARG:H	1.66	0.60
13:AM:19:LEU:HB3	13:AM:30:ALA:HA	1.81	0.60
1:AA:1319:A:C5'	19:AS:70:LYS:NZ	2.63	0.60
22:BB:3866:A:H2'	53:B7:43:LYS:N	2.17	0.60
23:BA:65:A:H2'	23:BA:66:G:C8	2.36	0.60
22:BB:1370:U:H2'	22:BB:1371:G:H8	1.67	0.60
22:BB:1807:A:C2	22:BB:1808:C:H1'	2.37	0.60
22:BB:2289:A:H2	27:BG:77:PHE:CE1	2.20	0.60
22:BB:2492:G:H2'	22:BB:2493:U:N3	2.17	0.60
22:BB:2613:A:H2'	22:BB:2614:A:H8	1.66	0.60
22:BB:2805:G:H21	22:BB:2811:G:H21	1.50	0.60
22:BB:3122:U:O4'	53:B7:162:GLN:CG	2.39	0.60
22:BB:3130:G:H1'	22:BB:3159:G:H22	1.67	0.60
22:BB:3875:A:H61	53:B7:43:LYS:HG3	1.67	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:BB:494:A:H4'	42:BV:58:VAL:CG1	2.32	0.60
22:BB:690:A:H4'	22:BB:2054:A:H4'	1.84	0.60
22:BB:761:G:C5	40:BT:111:ARG:CD	2.69	0.60
22:BB:7:G:C6	22:BB:2870:C:C2	2.83	0.60
25:BE:52:ALA:O	37:BQ:5:ILE:CG2	2.50	0.60
22:BB:575:U:C5	39:BS:79:GLN:OE1	2.55	0.60
22:BB:348:U:H5'	42:BV:13:LYS:HD3	1.83	0.60
23:BA:78:A:C4	43:BW:22:VAL:HG23	2.37	0.60
1:CA:1239:A:N6	1:CA:1299:A:H62	1.92	0.60
1:CA:648:A:H2'	1:CA:649:G:H8	1.66	0.60
4:CD:161:ASN:HD22	4:CD:162:LEU:N	1.99	0.60
4:CD:194:LEU:H	4:CD:194:LEU:HD22	1.67	0.60
1:CA:1060:C:P	10:CJ:51:ARG:O	2.59	0.60
1:CA:1309:G:OP1	13:CM:98:VAL:CA	2.49	0.60
1:CA:973:G:C4'	14:CN:41:ARG:HH22	2.14	0.60
52:D6:23:VAL:HG12	52:D6:36:GLN:NE2	2.17	0.60
22:DB:1029:C:O2'	22:DB:1131:G:N2	2.32	0.60
22:DB:1695:U:O2'	22:DB:1974:U:H4'	2.01	0.60
22:DB:1856:U:H5'	22:DB:2389:G:O2'	2.01	0.60
22:DB:2218:G:O3'	24:DD:230:ASP:CB	2.50	0.60
22:DB:2510:A:H61	22:DB:2641:A:N6	1.99	0.60
22:DB:497:C:O2	40:DT:78:ASN:CG	2.40	0.60
22:DB:590:C:H4'	38:DR:32:TYR:HB3	1.84	0.60
22:DB:677:G:H2'	22:DB:678:G:O4'	2.01	0.60
22:DB:800:U:H5''	22:DB:801:A:H5'	1.83	0.60
22:DB:910:U:C2	22:DB:911:A:C8	2.89	0.60
24:DD:266:SER:HA	24:DD:268:ARG:NH2	2.17	0.60
22:DB:548:G:HO2'	31:DK:33:ILE:HG23	1.63	0.60
33:DM:108:LEU:HB2	33:DM:126:SER:HB3	1.82	0.60
38:DR:28:ARG:HG2	38:DR:34:ASN:HB3	1.84	0.60
38:DR:3:ARG:HE	38:DR:4:ALA:N	1.96	0.60
22:DB:1325:U:N3	41:DU:61:LYS:CE	2.35	0.60
1:EA:376:G:P	16:EP:6:LEU:HD22	2.41	0.60
1:EA:538:G:C4'	12:EL:114:LYS:CB	2.63	0.60
1:EA:658:G:H1'	15:EO:22:THR:CB	2.26	0.60
1:EA:8:A:H3'	5:EE:121:LYS:HZ2	1.64	0.60
1:EA:902:G:H2'	1:EA:903:G:C8	2.37	0.60
1:EA:404:U:H5'	4:ED:122:ARG:HD3	1.84	0.60
1:EA:450:G:H4'	16:EP:41:PRO:CB	2.31	0.60
1:EA:583:A:O2'	17:EQ:91:ARG:CG	2.50	0.60
49:F3:11:LYS:HZ2	49:F3:11:LYS:HB2	1.66	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:FB:661:C:OP1	51:F5:19:THR:C	2.41	0.60
23:FA:10:U:C1'	36:FP:28:ARG:NH2	2.62	0.60
22:FB:1281:A:H2'	22:FB:1282:A:O4'	2.02	0.60
22:FB:1807:A:C2	22:FB:1808:C:H1'	2.37	0.60
22:FB:2258:G:C2	22:FB:2306:A:C4	2.90	0.60
22:FB:2691:C:OP1	22:FB:2694:G:H4'	2.02	0.60
22:FB:2763:U:H4'	25:FE:41:THR:N	2.17	0.60
22:FB:969:U:O4	34:FN:21:ASP:O	2.18	0.60
26:FF:87:LYS:HG3	26:FF:88:PRO:HD2	1.82	0.60
30:FJ:103:GLN:HG3	30:FJ:107:ILE:HG13	1.83	0.60
30:FJ:125:ASN:N	30:FJ:125:ASN:HD22	1.97	0.60
31:FK:169:GLN:HG3	31:FK:170:PRO:HD2	1.84	0.60
22:FB:566:U:C1'	31:FK:74:MET:CB	2.79	0.60
22:FB:1991:C:H1'	35:FO:106:ASP:HA	1.83	0.60
22:FB:1265:G:P	38:FR:36:PHE:HD1	2.15	0.60
1:GA:1106:G:OP1	3:GC:172:ARG:N	2.34	0.60
1:GA:1375:A:OP1	7:GG:12:LEU:HD21	2.02	0.60
1:GA:1515:C:H2'	1:GA:1516:G:O4'	2.02	0.60
1:GA:375:U:C5'	16:GP:17:TYR:CZ	2.84	0.60
2:GB:62:ALA:HA	2:GB:222:ILE:HG23	1.83	0.60
1:GA:1112:C:C2	3:GC:178:LEU:HB3	2.36	0.60
4:GD:194:LEU:H	4:GD:194:LEU:HD22	1.67	0.60
10:GJ:60:ARG:O	10:GJ:61:GLU:HB3	2.01	0.60
1:GA:1226:C:N4	13:GM:104:ARG:HB2	2.12	0.60
13:GM:88:ARG:O	13:GM:98:VAL:CG1	2.49	0.60
14:GN:24:CYS:SG	14:GN:39:LEU:HD23	2.42	0.60
16:GP:55:ARG:HA	16:GP:55:ARG:HE	1.67	0.60
22:HB:2062:U:C4'	47:H1:32:HIS:NE2	2.53	0.60
22:HB:700:C:C4'	50:H4:4:THR:HA	2.31	0.60
22:HB:2338:C:C1'	51:H5:52:LYS:HD2	2.27	0.60
52:H6:23:VAL:HG12	52:H6:36:GLN:NE2	2.17	0.60
22:HB:121:G:H2'	22:HB:122:G:O4'	2.02	0.60
22:HB:2342:U:H4'	44:HX:38:VAL:HG13	1.81	0.60
22:HB:2606:G:C1'	22:HB:2757:G:N2	2.64	0.60
22:HB:2805:G:H21	22:HB:2811:G:H21	1.50	0.60
22:HB:3197:U:O4	22:HB:2203:G:C5	2.55	0.60
22:HB:771:C:H2'	22:HB:772:G:C8	2.37	0.60
22:HB:857:U:O2	22:HB:946:U:O2	2.03	0.60
22:HB:940:G:OP1	46:HZ:35:SER:HB3	2.02	0.60
24:HD:266:SER:HA	24:HD:268:ARG:NH2	2.17	0.60
27:HG:66:ILE:O	27:HG:67:ILE:HG22	2.02	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:HI:8:PRO:HB3	29:HI:13:LYS:HB2	1.84	0.60
22:HB:1995:G:H5''	40:HT:118:LYS:CB	2.32	0.60
1:IA:2003:G:N2	1:IA:1038:C:H42	1.99	0.60
1:IA:1133:G:C2	1:IA:1134:G:H1'	2.37	0.60
1:IA:1238:A:C2	1:IA:1241:G:H1'	2.36	0.60
1:IA:15:G:H2'	1:IA:16:A:O4'	2.02	0.60
1:IA:452:A:O2'	16:IP:72:ARG:HD2	2.01	0.60
4:ID:121:VAL:O	4:ID:134:ASP:HA	2.02	0.60
5:IE:78:HIS:O	5:IE:93:PRO:HD3	2.01	0.60
8:IH:25:ASP:HA	8:IH:59:LEU:O	2.01	0.60
14:IN:24:CYS:SG	14:IN:39:LEU:HD23	2.42	0.60
23:JA:77:G:N2	23:JA:105:G:H22	2.00	0.60
22:JB:1469:U:O2	35:JO:76:VAL:HG21	2.02	0.60
22:JB:1731:C:OP2	22:JB:1732:U:H5''	2.02	0.60
22:JB:1793:A:H61	22:JB:1806:G:H2'	1.66	0.60
22:JB:871:U:O2'	22:JB:2248:A:H5''	2.02	0.60
22:JB:2324:G:C5'	49:J3:40:TYR:CD1	2.85	0.60
22:JB:423:G:C2	22:JB:2386:G:C5	2.89	0.60
22:JB:2489:C:C1'	25:JE:125:GLY:HA2	2.32	0.60
22:JB:2805:G:H21	22:JB:2811:G:H21	1.50	0.60
22:JB:603:C:H2'	22:JB:604:U:C1'	2.31	0.60
22:JB:777:A:OP1	24:JD:211:ARG:NH2	2.35	0.60
22:JB:1813:A:OP2	24:JD:202:LYS:NZ	2.34	0.60
24:JD:266:SER:HA	24:JD:268:ARG:NH2	2.17	0.60
28:JH:138:LYS:HD2	28:JH:141:VAL:HG11	1.83	0.60
28:JH:24:PHE:N	28:JH:35:VAL:HG21	2.09	0.60
22:JB:1204:G:O5'	33:JM:37:GLN:OE1	2.18	0.60
40:JT:24:GLY:HA3	40:JT:127:ILE:HG12	1.83	0.60
22:JB:505:G:C2'	40:JT:82:ASN:HB3	2.31	0.60
43:JW:151:ASP:O	43:JW:154:LEU:HB2	2.02	0.60
43:JW:65:LEU:CG	43:JW:93:GLU:O	2.44	0.60
44:JX:67:VAL:HG22	44:JX:68:VAL:HG13	1.83	0.60
1:AA:1061:G:OP1	10:AJ:58:ASP:O	2.19	0.60
1:AA:1518:A:H2'	1:AA:1519:A:H8	1.66	0.60
1:AA:421:U:P	3:AC:127:ARG:NH2	2.75	0.60
1:AA:902:G:H2'	1:AA:903:G:H8	1.67	0.60
1:AA:992:U:H4'	1:AA:993:G:O5'	2.02	0.60
4:AD:14:ARG:HA	4:AD:39:PRO:HB3	1.84	0.60
4:AD:108:LEU:HA	4:AD:170:VAL:HG21	1.83	0.60
13:AM:90:LEU:CD1	19:AS:76:PRO:CD	2.74	0.60
18:AR:47:THR:HG21	18:AR:49:LYS:HE3	1.83	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:BB:1142:G:O2'	31:BK:111:LYS:CB	2.50	0.60
22:BB:1397:A:C2	22:BB:1418:C:N3	2.70	0.60
22:BB:2002:A:H4'	38:BR:33:ARG:NH2	2.17	0.60
22:BB:879:A:C1'	22:BB:2298:U:O4	2.49	0.60
22:BB:2615:U:H4'	25:BE:79:ARG:CD	2.31	0.60
22:BB:863:C:C4'	46:BZ:18:LYS:CG	2.30	0.60
22:BB:677:G:C1'	22:BB:951:G:OP1	2.45	0.60
24:BD:259:THR:HG22	24:BD:260:ARG:H	1.67	0.60
22:BB:2557:G:O2'	25:BE:133:LYS:CG	2.50	0.60
22:BB:2753:C:C4'	25:BE:163:GLU:HB3	2.30	0.60
25:BE:1:MET:N	25:BE:199:ARG:HH12	1.98	0.60
32:BL:23:ARG:HB3	32:BL:52:VAL:HB	1.83	0.60
37:BQ:36:ASP:HB3	37:BQ:55:ILE:HD11	1.83	0.60
39:BS:6:GLN:CD	39:BS:6:GLN:H	2.05	0.60
22:BB:529:U:OP1	40:BT:39:ARG:HG2	2.01	0.60
1:CA:1059:C:H4'	14:CN:45:ARG:HH22	1.66	0.60
1:CA:255:G:O5'	17:CQ:17:LYS:CE	2.48	0.60
1:CA:668:G:O2'	15:CO:47:LYS:N	2.35	0.60
1:CA:902:G:H2'	1:CA:903:G:C8	2.37	0.60
3:CC:55:VAL:HA	3:CC:68:VAL:HG13	1.83	0.60
10:CJ:60:ARG:O	10:CJ:61:GLU:HB3	2.01	0.60
22:DB:419:G:OP2	53:D7:197:GLU:OE2	2.20	0.60
22:DB:1004:A:OP2	38:DR:51:ARG:CG	2.50	0.60
22:DB:1370:U:H2'	22:DB:1371:G:H8	1.66	0.60
22:DB:487:G:N2	22:DB:491:A:C6	2.68	0.60
22:DB:569:C:H2'	22:DB:570:G:C8	2.36	0.60
22:DB:677:G:C4'	22:DB:951:G:H4'	2.31	0.60
24:DD:142:VAL:HG11	24:DD:145:LEU:HD21	1.84	0.60
24:DD:259:THR:HG22	24:DD:260:ARG:H	1.67	0.60
22:DB:2492:G:OP2	25:DE:120:TRP:CZ2	2.55	0.60
27:DG:40:LEU:HD13	27:DG:152:MET:HE2	1.78	0.60
22:DB:2725:C:O2	28:DH:139:GLN:CA	2.50	0.60
32:DL:21:CYS:CA	32:DL:54:SER:H	2.13	0.60
22:DB:1004:A:P	38:DR:51:ARG:HB2	2.41	0.60
40:DT:78:ASN:HA	40:DT:82:ASN:HD22	1.67	0.60
1:EA:1057:G:O3'	3:EC:154:SER:CA	2.48	0.60
1:EA:1255:G:H4'	1:EA:1258:G:O2'	2.02	0.60
1:EA:1320:C:C1'	19:ES:72:GLY:HA3	2.32	0.60
1:EA:1397:C:H4'	1:EA:1398:A:O5'	2.02	0.60
1:EA:421:U:H3'	1:EA:422:C:H6	1.66	0.60
1:EA:520:A:H4'	12:EL:73:GLU:CA	2.30	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:EA:815:A:N1	1:EA:1529:G:H2'	2.16	0.60
1:EA:902:G:H2'	1:EA:903:G:H8	1.67	0.60
3:EC:12:LEU:HD11	14:EN:50:LYS:C	2.23	0.60
3:EC:9:GLY:CA	14:EN:49:HIS:O	2.49	0.60
8:EH:39:LEU:HB3	8:EH:45:ILE:HG12	1.83	0.60
15:EO:29:VAL:HG22	15:EO:62:GLN:HG3	1.82	0.60
1:EA:1320:C:N3	19:ES:36:ARG:HB2	2.15	0.60
22:FB:2325:A:H2'	49:F3:25:THR:HG21	1.83	0.60
51:F5:24:ALA:O	51:F5:46:LYS:HA	2.02	0.60
22:FB:231:G:C2	51:F5:4:MET:CG	2.74	0.60
22:FB:2366:U:H5'	44:FX:38:VAL:HG21	1.84	0.60
22:FB:641:G:N7	51:F5:15:LYS:CG	2.65	0.60
24:FD:12:SER:HA	24:FD:22:SER:N	2.17	0.60
22:FB:2057:U:OP1	24:FD:229:VAL:C	2.40	0.60
22:FB:2492:G:OP1	25:FE:120:TRP:CZ3	2.55	0.60
25:FE:152:LYS:H	31:FK:106:TYR:HE1	1.43	0.60
22:FB:2752:C:H1'	25:FE:166:THR:HG21	1.73	0.60
22:FB:1018:C:O4'	31:FK:134:MET:HG2	2.01	0.60
22:FB:2652:G:C2'	32:FL:46:HIS:HE1	2.15	0.60
33:FM:75:VAL:HG22	33:FM:77:LEU:H	1.64	0.60
22:FB:1666:G:N3	35:FO:106:ASP:OD1	2.35	0.60
37:FQ:64:LYS:HA	37:FQ:86:PRO:HG2	1.84	0.60
22:FB:1006:C:C2	38:FR:97:ASP:OD2	2.55	0.60
41:FU:42:ILE:HD12	41:FU:42:ILE:H	1.67	0.60
22:FB:337:G:C1'	42:FV:9:HIS:CD2	2.85	0.60
43:FW:134:LEU:HD13	43:FW:153:LYS:O	2.02	0.60
1:GA:1133:G:C2	1:GA:1134:G:H1'	2.37	0.60
1:GA:1187:G:C2	14:GN:61:TRP:CA	2.84	0.60
1:GA:1309:G:H3'	13:GM:99:ARG:HH22	1.65	0.60
1:GA:175:C:H4'	20:GT:25:ARG:CB	2.30	0.60
1:GA:1361:G:H2'	1:GA:2361:C:O4'	2.02	0.60
1:GA:413:G:H1	4:GD:31:CYS:C	2.05	0.60
1:GA:675:A:N1	11:GK:118:GLY:CA	2.64	0.60
1:GA:1107:C:OP1	3:GC:174:PRO:HA	2.02	0.60
3:GC:36:ASP:HB3	3:GC:40:ARG:NH1	2.17	0.60
1:GA:9:G:H5'	5:GE:104:ALA:HB2	1.80	0.60
9:GI:47:LEU:C	9:GI:51:ARG:HH11	2.05	0.60
17:GQ:101:ARG:HE	17:GQ:101:ARG:HA	1.66	0.60
22:HB:700:C:H4'	50:H4:3:ARG:O	2.02	0.60
23:HA:77:G:N2	23:HA:105:G:H22	2.00	0.60
23:HA:65:A:H2'	23:HA:66:G:C8	2.35	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:HB:10:A:C5	22:HB:2608:A:C5	2.89	0.60
22:HB:1143:A:H62	22:HB:2009:U:H1'	1.67	0.60
22:HB:1731:C:OP2	22:HB:1732:U:H5''	2.02	0.60
22:HB:1815:G:P	24:HD:54:ILE:HG13	2.42	0.60
22:HB:2184:C:OP1	47:H1:43:TRP:CH2	2.54	0.60
22:HB:2399:C:P	51:H5:32:GLN:CG	2.90	0.60
22:HB:2653:A:H4'	32:HL:43:ARG:NH2	2.14	0.60
22:HB:2617:G:H1	22:HB:2755:A:C2'	2.14	0.60
22:HB:2804:G:H21	22:HB:2811:G:H1'	1.66	0.60
22:HB:626:A:C2	26:HF:172:VAL:HG11	2.37	0.60
22:HB:2753:C:H4'	25:HE:163:GLU:HG2	1.82	0.60
28:HH:7:GLN:O	28:HH:69:ARG:HD3	2.01	0.60
22:HB:2357:A:O2'	36:HP:19:THR:HG21	2.01	0.60
22:HB:2357:A:C5'	36:HP:26:ARG:CZ	2.62	0.60
1:IA:1225:A:C6	13:IM:104:ARG:CZ	2.77	0.60
1:IA:1361:G:H2'	1:IA:2361:C:O4'	2.02	0.60
1:IA:597:G:N3	8:IH:94:TYR:HD2	1.94	0.60
1:IA:863:U:H2'	1:IA:864:A:H3'	1.83	0.60
3:IC:133:ALA:HA	3:IC:136:GLN:HB2	1.83	0.60
4:ID:71:SER:O	4:ID:75:PHE:HB2	2.02	0.60
10:IJ:13:HIS:HA	10:IJ:16:LEU:HB2	1.84	0.60
10:IJ:31:GLY:HA2	10:IJ:78:ASN:ND2	2.16	0.60
1:IA:687:A:C4'	11:IK:42:TRP:CH2	2.84	0.60
10:IJ:61:GLU:CD	14:IN:58:LYS:HZ2	2.03	0.60
23:JA:65:A:H2'	23:JA:66:G:C8	2.36	0.60
22:JB:1143:A:H62	22:JB:2009:U:H1'	1.67	0.60
22:JB:121:G:H2'	22:JB:122:G:O4'	2.02	0.60
22:JB:1281:A:H2'	22:JB:1282:A:O4'	2.02	0.60
22:JB:1368:G:OP1	24:JD:46:ARG:NH2	2.34	0.60
22:JB:2004:U:H5	38:JR:25:TRP:CD1	2.19	0.60
22:JB:2489:C:H1'	25:JE:126:PRO:HD2	1.83	0.60
22:JB:2558:C:H2'	22:JB:2559:U:O4'	2.02	0.60
22:JB:2617:G:H1	22:JB:2755:A:C2'	2.13	0.60
22:JB:592:G:C1'	38:JR:5:LYS:HE2	2.31	0.60
22:JB:594:G:H5'	26:JF:75:PRO:CB	2.31	0.60
22:JB:686:C:H42	22:JB:821:A:N6	2.00	0.60
22:JB:879:A:H2'	22:JB:879:A:N3	2.16	0.60
25:JE:55:ALA:HA	25:JE:58:LYS:HZ3	1.66	0.60
31:JK:169:GLN:HG3	31:JK:170:PRO:HD2	1.84	0.60
31:JK:43:VAL:HG22	31:JK:81:VAL:HG21	1.82	0.60
22:JB:1018:C:H5''	31:JK:63:ARG:HG3	1.84	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:JL:23:ARG:HB3	32:JL:52:VAL:HB	1.83	0.60
22:JB:2372:A:C1'	33:JM:60:LEU:H	2.14	0.60
1:AA:1134:G:H2'	1:AA:1135:U:H5'	1.84	0.59
1:AA:1483:A:N3	22:BB:1942:G:C2	2.70	0.59
1:AA:824:C:O2	8:AH:3:THR:HG22	2.02	0.59
4:AD:126:ILE:HD12	4:AD:148:VAL:HG22	1.84	0.59
7:AG:35:LYS:HG2	7:AG:38:LEU:H	1.67	0.59
8:AH:132:GLU:HG2	8:AH:133:LEU:H	1.67	0.59
1:AA:1349:A:P	9:AI:120:ARG:CB	2.85	0.59
1:AA:1061:G:O5'	10:AJ:58:ASP:O	2.20	0.59
14:AN:39:LEU:HD22	14:AN:44:LEU:HB2	1.84	0.59
38:BR:25:TRP:HH2	48:B2:14:SER:HA	1.66	0.59
22:BB:123:A:C4'	50:B4:13:ALA:CB	2.73	0.59
22:BB:653:G:H5''	22:BB:2328:G:H4'	1.84	0.59
22:BB:2353:G:H2'	22:BB:2354:G:O4'	2.02	0.59
22:BB:2769:C:C2'	22:BB:2867:G:C6	2.83	0.59
22:BB:6:A:H2'	22:BB:7:G:C8	2.36	0.59
22:BB:879:A:H2'	22:BB:879:A:N3	2.16	0.59
22:BB:916:U:H5''	43:BW:162:ALA:N	2.15	0.59
24:BD:228:PRO:O	24:BD:229:VAL:HG23	2.02	0.59
24:BD:246:PRO:HG2	24:BD:247:VAL:N	2.14	0.59
22:BB:1795:C:H4'	24:BD:250:TRP:CH2	2.37	0.59
24:BD:270:ILE:HD13	24:BD:270:ILE:H	1.67	0.59
26:BF:87:LYS:HG3	26:BF:88:PRO:HD2	1.82	0.59
30:BJ:125:ASN:ND2	30:BJ:125:ASN:H	1.99	0.59
22:BB:1071:U:O4	30:BJ:130:THR:HA	2.02	0.59
22:BB:505:G:O2'	40:BT:78:ASN:O	2.20	0.59
44:BX:40:GLN:HA	44:BX:41:ARG:HH21	1.67	0.59
1:CA:421:U:H3'	1:CA:422:C:H6	1.66	0.59
1:CA:953:G:C8	13:CM:124:PRO:HD2	2.18	0.59
2:CB:134:GLU:HA	2:CB:137:ARG:HE	1.66	0.59
1:CA:407:G:C2'	4:CD:116:GLN:HB2	2.32	0.59
4:CD:126:ILE:HD12	4:CD:148:VAL:HG22	1.83	0.59
5:CE:78:HIS:O	5:CE:93:PRO:HD3	2.01	0.59
7:CG:26:PHE:HB2	7:CG:101:LEU:HD13	1.84	0.59
23:DA:65:A:H2'	23:DA:66:G:C8	2.36	0.59
22:DB:1006:C:OP2	38:DR:51:ARG:NH2	2.35	0.59
22:DB:1964:A:H3'	22:DB:1964:A:OP2	2.02	0.59
22:DB:23:G:C1'	40:DT:96:TYR:CE2	2.79	0.59
22:DB:2623:A:C3'	22:DB:2624:G:OP2	2.50	0.59
22:DB:2647:G:C8	28:DH:111:HIS:CE1	2.82	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:DB:2654:A:H5'	32:DL:43:ARG:HH21	1.62	0.59
22:DB:2691:C:OP1	22:DB:2694:G:H4'	2.02	0.59
22:DB:879:A:N3	22:DB:879:A:H2'	2.16	0.59
22:DB:865:A:N6	22:DB:937:C:H42	1.95	0.59
25:DE:117:MET:HG3	25:DE:123:ALA:HB2	1.83	0.59
25:DE:59:VAL:HG12	25:DE:61:LYS:HG3	1.83	0.59
28:DH:18:ASN:HB2	28:DH:24:PHE:HA	1.84	0.59
22:DB:2373:C:C4'	33:DM:59:ARG:HH12	2.15	0.59
22:DB:1670:G:O6	35:DO:11:ASN:HA	2.02	0.59
22:DB:318:G:C4'	40:DT:12:LYS:HE2	2.27	0.59
22:DB:504:G:N2	40:DT:78:ASN:OD1	2.35	0.59
22:DB:338:G:O4'	42:DV:9:HIS:HD2	1.84	0.59
22:DB:887:G:O2'	43:DW:149:ALA:N	2.34	0.59
22:DB:916:U:C6	43:DW:163:ASP:N	2.68	0.59
1:EA:705:U:O2	11:EK:29:ILE:CD1	2.50	0.59
4:ED:204:ILE:CG2	5:EE:98:THR:O	2.45	0.59
1:EA:392:G:C5'	16:EP:12:LYS:HG2	2.29	0.59
47:F1:22:MET:HB3	47:F1:29:PRO:HB3	1.83	0.59
52:F6:2:LYS:HE3	52:F6:34:GLN:HG2	1.84	0.59
22:FB:997:C:C4'	23:FA:86:A:H5''	2.29	0.59
22:FB:1468:A:N6	35:FO:58:GLY:CA	2.58	0.59
22:FB:2037:A:N7	48:F2:5:PRO:HG2	2.15	0.59
22:FB:1948:C:N4	22:FB:2571:G:HO2'	2.00	0.59
22:FB:569:C:H2'	22:FB:570:G:C8	2.36	0.59
22:FB:64:C:C3'	41:FU:70:GLY:N	2.63	0.59
22:FB:719:A:C8	22:FB:738:G:N2	2.70	0.59
22:FB:757:U:P	25:FE:130:GLY:O	2.60	0.59
22:FB:75:C:O2	45:FY:52:GLN:HB2	2.02	0.59
22:FB:800:U:H5''	22:FB:801:A:H5'	1.83	0.59
22:FB:815:A:H2'	22:FB:816:U:C2	2.36	0.59
22:FB:864:C:C5'	46:FZ:42:GLY:HA3	2.32	0.59
22:FB:2614:A:H2'	25:FE:79:ARG:HG3	1.84	0.59
27:FG:72:LYS:HG2	27:FG:81:GLN:NE2	2.16	0.59
28:FH:154:PRO:HB3	28:FH:160:LYS:HG2	1.83	0.59
22:FB:539:A:O5'	31:FK:139:ARG:N	2.33	0.59
22:FB:8:A:C5'	31:FK:79:PHE:HZ	1.94	0.59
22:FB:507:A:H5''	40:FT:19:LYS:CD	2.32	0.59
1:GA:10:A:H62	1:GA:559:A:N6	1.99	0.59
1:GA:739:C:H4'	15:GO:41:GLU:OE1	2.02	0.59
1:GA:664:G:N2	1:GA:741:G:H1	1.88	0.59
4:GD:126:ILE:HD12	4:GD:148:VAL:HG22	1.83	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:GI:49:PRO:CG	9:GI:81:ILE:HD13	2.32	0.59
14:GN:33:VAL:HA	14:GN:40:CYS:HA	1.84	0.59
17:GQ:26:GLN:HG2	17:GQ:37:LYS:HA	1.83	0.59
22:HB:1749:G:O6	22:HB:2674:C:H4'	2.02	0.59
22:HB:2040:A:O2'	48:H2:6:VAL:HG22	2.01	0.59
22:HB:333:A:H1'	22:HB:351:A:C4	2.37	0.59
22:HB:686:C:H42	22:HB:821:A:N6	2.00	0.59
22:HB:879:A:H2'	22:HB:879:A:N3	2.16	0.59
6:GF:81:ILE:HG22	24:HD:137:PRO:HB2	1.83	0.59
24:HD:228:PRO:O	24:HD:229:VAL:HG23	2.02	0.59
22:HB:625:A:H1'	26:HF:38:ARG:NE	2.17	0.59
23:HA:92:G:H1	34:HN:39:GLU:CG	2.15	0.59
39:HS:36:LYS:HA	39:HS:36:LYS:NZ	2.16	0.59
22:HB:1235:C:C4	39:HS:71:ILE:HD13	2.37	0.59
43:HW:134:LEU:HD13	43:HW:153:LYS:O	2.02	0.59
1:IA:1226:C:C5	13:IM:104:ARG:CA	2.82	0.59
1:IA:640:A:O2'	8:IH:127:LEU:CB	2.48	0.59
1:IA:707:C:O3'	11:IK:20:TYR:HD2	1.85	0.59
1:IA:619:U:H1'	4:ID:133:VAL:HG22	1.84	0.59
1:IA:510:A:O3'	4:ID:43:HIS:CE1	2.54	0.59
1:IA:1373:G:C2'	7:IG:31:MET:HE1	2.23	0.59
1:IA:707:C:OP1	11:IK:22:HIS:CE1	2.53	0.59
12:IL:83:VAL:HB	12:IL:107:ALA:HB3	1.82	0.59
12:IL:11:VAL:HG11	17:IQ:36:ILE:HG12	0.60	0.59
19:IS:43:GLU:HG3	19:IS:44:MET:HG3	1.84	0.59
22:JB:1370:U:H2'	22:JB:1371:G:H8	1.66	0.59
22:JB:1943:A:H2'	22:JB:1944:C:C6	2.37	0.59
22:JB:2638:G:C5'	28:JH:178:ALA:H	2.06	0.59
22:JB:3122:U:H5''	53:J7:133:LYS:CG	2.23	0.59
22:JB:771:C:H2'	22:JB:772:G:C8	2.37	0.59
22:JB:2599:U:C1'	25:JE:156:MET:HB3	2.30	0.59
30:JJ:55:VAL:HG22	30:JJ:57:ILE:H	1.67	0.59
33:JM:101:ARG:H	33:JM:101:ARG:HD2	1.67	0.59
22:JB:573:C:C5'	38:JR:40:LEU:CB	2.79	0.59
22:JB:528:G:N9	40:JT:96:TYR:HD2	2.00	0.59
22:JB:510:G:OP1	42:JV:53:VAL:HA	2.02	0.59
1:AA:815:A:C1'	1:AA:1529:G:C6	2.85	0.59
1:AA:761:G:N3	17:AQ:104:LYS:CA	2.56	0.59
1:AA:863:U:H2'	1:AA:864:A:H3'	1.83	0.59
4:AD:121:VAL:O	4:AD:134:ASP:HA	2.02	0.59
1:AA:1251:A:C4'	9:AI:12:GLU:OE2	2.49	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AK:62:GLN:HB2	11:AK:93:GLN:HB3	1.84	0.59
10:AJ:63:PHE:CZ	14:AN:48:ALA:HB3	2.37	0.59
22:BB:176:A:O2'	47:B1:31:ILE:CG2	2.48	0.59
22:BB:700:C:O5'	50:B4:3:ARG:N	2.35	0.59
51:B5:46:LYS:H	51:B5:46:LYS:HD3	1.67	0.59
22:BB:3865:A:O2'	53:B7:43:LYS:CD	2.50	0.59
22:BB:1237:G:H4'	39:BS:87:ARG:CA	2.31	0.59
22:BB:1256:C:H1'	33:BM:15:ASP:CA	2.29	0.59
22:BB:1695:U:O2'	22:BB:1974:U:H4'	2.02	0.59
22:BB:2724:G:C2	28:BH:143:GLN:CD	2.75	0.59
22:BB:508:G:H2'	22:BB:509:U:O4'	2.02	0.59
22:BB:566:U:H4'	31:BK:74:MET:SD	2.43	0.59
22:BB:569:C:H2'	22:BB:570:G:C8	2.36	0.59
22:BB:215:G:C4'	22:BB:618:A:H4'	2.32	0.59
22:BB:771:C:H2'	22:BB:772:G:C8	2.37	0.59
22:BB:686:C:H42	22:BB:821:A:N6	2.00	0.59
22:BB:625:A:C5	26:BF:176:ASN:CG	2.74	0.59
22:BB:2462:C:C3'	34:BN:50:ALA:HB2	2.32	0.59
38:BR:28:ARG:HG2	38:BR:34:ASN:HB3	1.83	0.59
34:BN:28:VAL:HG13	43:BW:119:ASN:CB	2.31	0.59
22:BB:888:G:O2'	43:BW:165:GLU:OE1	2.20	0.59
22:BB:2311:U:OP2	44:BX:51:VAL:CG2	2.50	0.59
45:BY:50:VAL:HG13	45:BY:54:ASN:HD21	1.66	0.59
1:CA:1255:G:H4'	1:CA:1258:G:O2'	2.03	0.59
1:CA:390:C:H2'	1:CA:391:G:C8	2.38	0.59
1:CA:1074:G:C4'	2:CB:104:ASN:OD1	2.51	0.59
2:CB:8:LYS:HA	2:CB:48:MET:HE2	1.85	0.59
1:CA:704:A:N6	11:CK:42:TRP:CH2	2.70	0.59
11:CK:62:GLN:HB2	11:CK:93:GLN:HB3	1.84	0.59
1:CA:739:C:C1'	15:CO:42:HIS:HD1	2.15	0.59
22:DB:2263:C:OP1	49:D3:8:ILE:HD11	2.03	0.59
22:DB:419:G:H5''	53:D7:198:THR:HG21	1.84	0.59
23:DA:78:A:C2	43:DW:22:VAL:HG23	2.28	0.59
22:DB:1042:G:H4'	52:D6:6:SER:O	2.02	0.59
22:DB:1398:G:C5'	22:DB:1416:A:N3	2.65	0.59
22:DB:1516:A:H1'	24:DD:98:ALA:HB1	1.84	0.59
22:DB:1807:A:C2	22:DB:1808:C:H1'	2.37	0.59
22:DB:1883:A:C5	22:DB:1953:A:N6	2.69	0.59
22:DB:1906:U:H2'	22:DB:1907:C:H6	1.67	0.59
22:DB:2463:G:C1'	34:DN:121:LEU:HD11	2.07	0.59
22:DB:2710:C:H1'	25:DE:169:ASN:O	2.03	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:DB:2769:C:O4'	22:DB:2866:A:N1	2.34	0.59
22:DB:3130:G:H1'	22:DB:3159:G:H22	1.67	0.59
22:DB:6:A:H2'	22:DB:7:G:C8	2.36	0.59
22:DB:686:C:H42	22:DB:821:A:N6	2.00	0.59
22:DB:1807:A:H5'	24:DD:88:ARG:CZ	2.33	0.59
29:DI:26:ARG:HG2	47:D1:73:LYS:O	2.02	0.59
22:DB:1290:A:H2	35:DO:27:ALA:HB2	1.64	0.59
37:DQ:36:ASP:HB3	37:DQ:55:ILE:HD11	1.83	0.59
38:DR:25:TRP:O	38:DR:28:ARG:HG3	2.02	0.59
22:DB:917:U:C5'	43:DW:121:GLN:O	2.48	0.59
1:EA:126:G:OP1	1:EA:605:U:O4'	2.19	0.59
1:EA:506:G:H2'	1:EA:507:C:O4'	2.01	0.59
1:EA:73:C:H2'	1:EA:74:G:C8	2.36	0.59
1:EA:793:U:N3	1:EA:1516:G:C5'	2.65	0.59
2:EB:62:ALA:HA	2:EB:222:ILE:HG23	1.83	0.59
3:EC:140:ARG:CZ	3:EC:140:ARG:HB2	2.32	0.59
4:ED:121:VAL:O	4:ED:134:ASP:HA	2.02	0.59
9:EI:11:LYS:H	9:EI:104:ARG:HE	1.50	0.59
48:F2:46:CYS:HB3	48:F2:48:ASN:H	1.67	0.59
51:F5:57:ARG:NE	51:F5:57:ARG:HA	2.17	0.59
53:F7:62:LYS:HB3	53:F7:108:GLU:HB3	1.82	0.59
22:FB:1234:C:H5''	39:FS:68:LYS:CD	2.32	0.59
22:FB:1292:A:H5'	35:FO:33:ARG:HB2	0.59	0.59
22:FB:1357:U:O4	22:FB:1416:A:N6	1.91	0.59
22:FB:1481:U:O4'	22:FB:1561:A:C6	2.56	0.59
22:FB:2350:G:O2'	49:F3:46:LYS:CA	2.37	0.59
22:FB:508:G:H2'	22:FB:509:U:O4'	2.02	0.59
22:FB:757:U:OP1	25:FE:130:GLY:O	2.20	0.59
24:FD:246:PRO:HG2	24:FD:247:VAL:N	2.14	0.59
24:FD:266:SER:HA	24:FD:268:ARG:NH2	2.17	0.59
22:FB:2284:U:OP2	27:FG:133:LYS:HD2	2.02	0.59
31:FK:139:ARG:HA	31:FK:139:ARG:HH21	1.67	0.59
39:FS:36:LYS:NZ	39:FS:36:LYS:HA	2.16	0.59
22:FB:2311:U:H4'	44:FX:70:ILE:CG2	2.32	0.59
1:GA:1013:G:P	19:GS:18:LYS:NZ	2.75	0.59
1:CA:1273:G:H1'	1:GA:1265:G:OP1	2.01	0.59
1:GA:875:C:C2'	8:GH:11:THR:HG21	2.26	0.59
10:GJ:42:THR:HA	10:GJ:67:THR:O	2.02	0.59
1:GA:1187:G:N2	14:GN:60:SER:HG	2.00	0.59
18:GR:47:THR:HG21	18:GR:49:LYS:HE3	1.83	0.59
47:H1:22:MET:HB3	47:H1:29:PRO:HB3	1.83	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
51:H5:28:GLY:N	51:H5:30:ARG:HH22	2.00	0.59
22:HB:1043:A:O3'	52:H6:16:VAL:CG1	2.49	0.59
22:HB:9:U:HO2'	22:HB:10:A:H8	1.50	0.59
22:HB:1370:U:H2'	22:HB:1371:G:H8	1.66	0.59
22:HB:1762:C:H4'	22:HB:1921:A:H62	1.67	0.59
22:HB:498:C:C2	40:HT:74:SER:CA	2.83	0.59
22:HB:603:C:O2	22:HB:677:G:C2	2.55	0.59
31:HK:75:ILE:CG2	31:HK:140:GLN:HA	2.30	0.59
43:HW:151:ASP:O	43:HW:154:LEU:HB2	2.02	0.59
1:IA:926:G:N7	1:IA:1504:G:H5''	2.17	0.59
1:IA:1392:G:HO2'	1:IA:1530:G:P	2.25	0.59
1:IA:200:G:N2	1:IA:217:C:H42	1.99	0.59
2:IB:8:LYS:HA	2:IB:48:MET:HE2	1.84	0.59
3:IC:114:PRO:HG3	3:IC:185:GLY:N	2.16	0.59
10:IJ:42:THR:HA	10:IJ:67:THR:O	2.02	0.59
1:IA:684:A:N9	11:IK:39:PRO:CD	2.59	0.59
15:IO:29:VAL:HG22	15:IO:62:GLN:HG3	1.82	0.59
1:IA:375:U:OP1	16:IP:69:THR:HG21	2.01	0.59
51:J5:57:ARG:HA	51:J5:57:ARG:NE	2.17	0.59
22:JB:220:U:C3'	51:J5:7:HIS:CE1	2.86	0.59
53:J7:131:ARG:HB3	53:J7:133:LYS:HE3	1.84	0.59
22:JB:9:U:HO2'	22:JB:10:A:H8	1.49	0.59
22:JB:12:U:H2'	22:JB:13:A:H5'	1.83	0.59
22:JB:16:G:H5''	48:J2:17:ASP:CB	0.49	0.59
22:JB:2350:G:H4'	49:J3:46:LYS:HE2	1.84	0.59
22:JB:2804:G:H21	22:JB:2811:G:H1'	1.67	0.59
22:JB:60:A:C4'	45:JY:29:ARG:NH2	2.56	0.59
24:JD:228:PRO:O	24:JD:229:VAL:HG23	2.02	0.59
22:JB:2636:A:P	28:JH:180:GLY:O	2.60	0.59
28:JH:22:GLY:CA	28:JH:37:TYR:HB2	2.33	0.59
31:JK:65:LYS:C	31:JK:67:ARG:H	2.05	0.59
1:AA:390:C:H2'	1:AA:391:G:C8	2.38	0.59
1:AA:421:U:H3'	1:AA:422:C:H6	1.66	0.59
1:AA:973:G:H4'	14:AN:41:ARG:HH21	1.62	0.59
4:AD:155:LEU:HD12	4:AD:158:ILE:HD11	1.83	0.59
13:AM:84:ILE:HG13	13:AM:86:CYS:H	1.66	0.59
10:AJ:63:PHE:CE2	14:AN:48:ALA:C	2.76	0.59
23:BA:93:G:C5'	34:BN:23:LYS:HZ1	2.08	0.59
22:BB:1281:A:H2'	22:BB:1282:A:O4'	2.02	0.59
22:BB:1398:G:C5	22:BB:1416:A:N1	2.69	0.59
22:BB:1583:A:H1'	24:BD:84:TYR:CZ	2.27	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:BB:1668:G:P	35:BO:11:ASN:ND2	2.76	0.59
22:BB:1906:U:H2'	22:BB:1907:C:H6	1.68	0.59
22:BB:1964:A:H3'	22:BB:1964:A:OP2	2.02	0.59
22:BB:2526:U:C4	22:BB:2545:A:N6	2.70	0.59
22:BB:1750:A:H2	22:BB:2676:G:N9	2.00	0.59
22:BB:6:A:C5'	31:BK:162:LYS:HZ1	2.13	0.59
28:BH:96:ALA:HB1	28:BH:103:LEU:HD21	1.85	0.59
28:BH:22:GLY:CA	28:BH:37:TYR:HB2	2.33	0.59
30:BJ:28:GLY:HA2	30:BJ:32:ALA:HB3	1.85	0.59
31:BK:169:GLN:HG3	31:BK:170:PRO:HD2	1.84	0.59
22:BB:505:G:H1'	40:BT:82:ASN:HD22	1.67	0.59
1:CA:1397:C:H4'	1:CA:1398:A:O5'	2.02	0.59
1:CA:15:G:H2'	1:CA:16:A:O4'	2.02	0.59
1:CA:689:C:O5'	11:CK:51:LYS:HE3	2.01	0.59
2:CB:176:GLU:HG3	2:CB:179:LYS:NZ	2.17	0.59
2:CB:163:PHE:HA	2:CB:185:ILE:HB	1.83	0.59
4:CD:14:ARG:HA	4:CD:39:PRO:HB3	1.84	0.59
4:CD:71:SER:O	4:CD:75:PHE:HB2	2.02	0.59
4:CD:93:PHE:HA	4:CD:96:LEU:HD22	1.84	0.59
1:CA:559:A:H61	5:CE:126:ARG:NH1	1.98	0.59
5:CE:82:VAL:HB	5:CE:137:GLU:HB2	1.84	0.59
9:CI:116:LYS:HZ3	9:CI:121:ARG:C	2.06	0.59
10:CJ:79:ARG:HH12	10:CJ:83:GLU:CB	2.07	0.59
13:CM:84:ILE:HG13	13:CM:86:CYS:H	1.66	0.59
14:CN:39:LEU:HD22	14:CN:44:LEU:HB2	1.84	0.59
51:D5:24:ALA:O	51:D5:46:LYS:HA	2.02	0.59
22:DB:2733:A:C2	52:D6:15:LYS:HE2	2.16	0.59
22:DB:2793:G:P	35:DO:42:LYS:CE	2.90	0.59
22:DB:690:A:H4'	22:DB:2054:A:H4'	1.85	0.59
22:DB:771:C:H2'	22:DB:772:G:C8	2.37	0.59
22:DB:868:U:H1'	44:DX:25:LYS:HD2	0.59	0.59
22:DB:1812:U:O2'	24:DD:203:ASN:HB2	2.02	0.59
30:DJ:103:GLN:HG3	30:DJ:107:ILE:HG13	1.83	0.59
32:DL:59:ALA:HB3	32:DL:64:VAL:HB	1.85	0.59
34:DN:62:GLY:N	43:DW:112:LEU:CD2	2.07	0.59
22:DB:1670:G:N2	35:DO:11:ASN:CG	2.54	0.59
40:DT:26:ALA:HB3	40:DT:126:ILE:HB	1.85	0.59
44:DX:40:GLN:HA	44:DX:41:ARG:HH21	1.67	0.59
1:EA:1081:G:H5'	5:EE:18:ARG:CG	2.17	0.59
1:EA:1092:A:C5'	7:EG:4:ARG:HD3	2.33	0.59
1:EA:1239:A:N6	1:EA:1299:A:H62	1.92	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:EA:390:C:H2'	1:EA:391:G:C8	2.38	0.59
1:EA:613:C:C5'	4:ED:86:LYS:NZ	2.63	0.59
4:ED:71:SER:O	4:ED:75:PHE:HB2	2.02	0.59
10:EJ:39:PRO:HA	10:EJ:70:ARG:HH11	1.66	0.59
10:EJ:42:THR:HA	10:EJ:67:THR:O	2.02	0.59
51:F5:28:GLY:N	51:F5:30:ARG:HH22	2.00	0.59
23:FA:36:A:H4'	23:FA:37:C:C5	2.35	0.59
22:FB:1695:U:O2'	22:FB:1974:U:H4'	2.02	0.59
22:FB:2063:A:O4'	47:F1:32:HIS:O	2.19	0.59
22:FB:2254:C:C4'	34:FN:86:LYS:CG	2.80	0.59
22:FB:2411:A:C2	47:F1:28:ARG:O	2.55	0.59
22:FB:686:C:H42	22:FB:821:A:N6	2.00	0.59
22:FB:690:A:H4'	22:FB:2054:A:H4'	1.84	0.59
22:FB:6:A:H2'	22:FB:7:G:C8	2.37	0.59
22:FB:940:G:H22	46:FZ:39:ALA:C	2.06	0.59
28:FH:148:VAL:HG23	28:FH:149:ARG:HE	1.67	0.59
33:FM:35:LYS:HZ2	33:FM:35:LYS:HB2	1.66	0.59
22:FB:1290:A:H1'	35:FO:24:GLN:C	2.22	0.59
1:GA:2003:G:N2	1:GA:1038:C:H42	1.99	0.59
1:GA:1187:G:C4	14:GN:61:TRP:OXT	2.55	0.59
1:GA:126:G:H5''	1:GA:604:G:N2	2.10	0.59
1:GA:1292:U:OP1	7:GG:41:ARG:NH2	2.35	0.59
20:AT:99:LEU:O	1:GA:179:A:N1	2.35	0.59
1:GA:992:U:H4'	1:GA:993:G:O5'	2.02	0.59
3:GC:55:VAL:HA	3:GC:68:VAL:HG13	1.83	0.59
4:GD:71:SER:O	4:GD:75:PHE:HB2	2.02	0.59
1:GA:921:U:O2	5:GE:19:MET:SD	2.60	0.59
1:GA:1374:A:HO2'	7:GG:29:LYS:HG2	1.68	0.59
10:GJ:13:HIS:HA	10:GJ:16:LEU:HB2	1.84	0.59
1:GA:1308:U:C5'	13:GM:110:ARG:HH21	2.09	0.59
22:HB:846:A:O2'	51:H5:55:TRP:HH2	1.85	0.59
23:HA:52:G:P	36:HP:64:LYS:H	2.25	0.59
22:HB:1816:G:O3'	24:HD:247:VAL:CG2	2.51	0.59
22:HB:1935:A:N3	22:HB:2539:C:C1'	2.59	0.59
22:HB:1943:A:H2'	22:HB:1944:C:C6	2.38	0.59
22:HB:2219:U:OP1	24:HD:229:VAL:O	2.19	0.59
22:HB:2398:U:O5'	51:H5:31:HIS:O	2.20	0.59
22:HB:2789:U:C5'	48:H2:30:LEU:HD11	2.31	0.59
22:HB:3148:G:H2'	22:HB:3149:G:O4'	2.03	0.59
22:HB:487:G:H22	22:HB:490:A:C1'	2.15	0.59
22:HB:572:G:N3	38:HR:37:GLN:OE1	2.35	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:HB:1805:G:O3'	24:HD:44:ASN:C	2.40	0.59
22:HB:2372:A:O4'	33:HM:60:LEU:N	2.29	0.59
22:HB:1743:C:H41	37:HQ:125:MET:CA	2.15	0.59
40:HT:73:ASN:H	40:HT:73:ASN:HD22	1.50	0.59
22:HB:2332:G:N2	44:HX:66:LYS:HE2	2.17	0.59
41:HU:92:ALA:C	45:HY:27:GLU:HG3	2.22	0.59
1:IA:768:A:C1'	1:IA:1523:G:N2	2.64	0.59
1:IA:393:A:H2'	1:IA:394:G:H5'	1.83	0.59
2:IB:163:PHE:HA	2:IB:185:ILE:HB	1.83	0.59
2:IB:62:ALA:HA	2:IB:222:ILE:HG23	1.83	0.59
4:ID:126:ILE:HD12	4:ID:148:VAL:HG22	1.84	0.59
9:II:47:LEU:C	9:II:51:ARG:HH11	2.05	0.59
11:IK:24:SER:O	11:IK:88:GLY:HA2	2.03	0.59
53:J7:17:SER:OG	53:J7:20:TYR:HB2	2.02	0.59
22:JB:1197:U:C5	22:JB:1198:C:C4	2.90	0.59
22:JB:1742:G:O3'	37:JQ:123:ARG:NH2	2.28	0.59
22:JB:2238:G:OP1	22:JB:2406:C:C6	2.54	0.59
22:JB:2753:C:H5'	25:JE:164:ARG:HG2	1.83	0.59
22:JB:71:A:C6	45:JY:58:ALA:CA	2.85	0.59
22:JB:832:A:H2'	22:JB:833:A:H8	1.66	0.59
27:JG:108:LEU:N	27:JG:109:PRO:HD2	2.18	0.59
22:JB:2638:G:OP2	28:JH:179:THR:HB	1.99	0.59
31:JK:139:ARG:HA	31:JK:139:ARG:HH21	1.67	0.59
22:JB:2814:G:H4'	35:JO:45:ARG:CG	2.32	0.59
22:JB:1200:G:O3'	39:JS:83:ARG:NE	2.35	0.59
22:JB:491:A:O4'	42:JV:53:VAL:CG1	2.39	0.59
22:JB:508:G:O2'	42:JV:69:GLN:NE2	2.35	0.59
43:JW:134:LEU:HD12	43:JW:135:VAL:H	1.68	0.59
22:JB:2241:U:O4	44:JX:14:ARG:N	2.35	0.59
22:JB:2344:G:H4'	44:JX:66:LYS:CD	2.33	0.59
1:AA:1298:C:H41	7:AG:115:ARG:HD2	1.65	0.59
1:AA:720:C:H4'	18:AR:52:PRO:CA	2.32	0.59
1:AA:939:G:O2'	7:AG:29:LYS:CE	2.50	0.59
2:AB:176:GLU:HG3	2:AB:179:LYS:NZ	2.17	0.59
5:AE:82:VAL:HB	5:AE:137:GLU:HB2	1.83	0.59
5:AE:78:HIS:CB	8:AH:104:ARG:HH21	2.06	0.59
10:AJ:13:HIS:HA	10:AJ:16:LEU:HB2	1.85	0.59
10:AJ:22:LYS:HB3	10:AJ:23:ILE:HD12	1.84	0.59
1:AA:761:G:H1'	17:AQ:103:GLY:CA	2.33	0.59
51:B5:57:ARG:HA	51:B5:57:ARG:NE	2.16	0.59
22:BB:3875:A:N6	53:B7:43:LYS:HG3	2.18	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:BB:115:G:N7	22:BB:117:A:C8	2.71	0.59
22:BB:1613:G:P	22:BB:1614:C:OP1	2.60	0.59
22:BB:1790:G:OP2	24:BD:258:LYS:CG	2.50	0.59
22:BB:2029:G:OP1	48:B2:19:ARG:HD3	2.02	0.59
22:BB:2691:C:OP1	22:BB:2694:G:H4'	2.02	0.59
22:BB:599:A:H2'	22:BB:600:G:O4'	2.01	0.59
22:BB:800:U:H5''	22:BB:801:A:H5'	1.83	0.59
22:BB:865:A:N6	22:BB:937:C:H42	1.95	0.59
24:BD:266:SER:HA	24:BD:268:ARG:NH2	2.17	0.59
25:BE:117:MET:HE3	25:BE:118:LYS:HE2	1.84	0.59
28:BH:6:LYS:HZ2	28:BH:6:LYS:HB2	1.68	0.59
28:BH:7:GLN:O	28:BH:69:ARG:HD3	2.01	0.59
31:BK:139:ARG:HH21	31:BK:139:ARG:HA	1.67	0.59
33:BM:75:VAL:HG22	33:BM:77:LEU:H	1.64	0.59
22:BB:2791:C:H4'	35:BO:99:ARG:NH1	2.18	0.59
43:BW:99:HIS:CG	43:BW:100:THR:H	2.21	0.59
1:CA:1319:A:H5'	19:CS:70:LYS:NZ	2.16	0.59
1:CA:1420:C:H2'	1:CA:1421:G:H8	1.67	0.59
1:CA:1456:A:C3'	20:CT:28:ALA:CB	2.80	0.59
1:CA:227:G:C2	16:CP:62:VAL:HG12	2.37	0.59
1:CA:506:G:H2'	1:CA:507:C:O4'	2.02	0.59
1:CA:588:G:H8	8:CH:2:LEU:H	1.50	0.59
1:CA:863:U:H2'	1:CA:864:A:H3'	1.83	0.59
1:CA:1074:G:O4'	2:CB:104:ASN:CB	2.50	0.59
10:CJ:51:ARG:HG3	10:CJ:60:ARG:O	2.02	0.59
17:CQ:26:GLN:HG2	17:CQ:37:LYS:HA	1.83	0.59
19:CS:43:GLU:HG3	19:CS:44:MET:HG3	1.84	0.59
51:D5:57:ARG:NE	51:D5:57:ARG:HA	2.17	0.59
53:D7:131:ARG:HB3	53:D7:133:LYS:HE3	1.84	0.59
22:DB:1172:U:C2'	39:DS:8:GLY:HA2	2.33	0.59
22:DB:1281:A:H2'	22:DB:1282:A:O4'	2.02	0.59
22:DB:1982:C:H4'	22:DB:2702:G:H22	1.66	0.59
22:DB:2353:G:H2'	22:DB:2354:G:O4'	2.02	0.59
22:DB:2805:G:H21	22:DB:2811:G:H21	1.50	0.59
22:DB:348:U:C4'	42:DV:13:LYS:HD3	2.31	0.59
22:DB:1804:U:C1'	24:DD:46:ARG:CG	2.61	0.59
25:DE:1:MET:N	25:DE:199:ARG:HH12	1.98	0.59
22:DB:680:U:C5'	33:DM:48:PHE:CE1	2.76	0.59
34:DN:73:LYS:HB3	34:DN:94:TRP:N	2.06	0.59
22:DB:497:C:C1'	40:DT:77:ALA:O	2.45	0.59
43:DW:99:HIS:CG	43:DW:100:THR:H	2.21	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:DN:65:ILE:HG23	43:DW:115:ILE:HG23	1.82	0.59
22:DB:915:C:C5'	43:DW:163:ASP:OD1	2.49	0.59
22:DB:887:G:C1'	43:DW:167:THR:CA	2.73	0.59
22:DB:935:C:C1'	44:DX:26:PHE:HD2	2.15	0.59
46:DZ:53:VAL:HG13	46:DZ:54:GLN:H	1.67	0.59
1:EA:1134:G:H2'	1:EA:1135:U:H5'	1.84	0.59
1:EA:1439:C:OP1	20:ET:34:LYS:HB3	2.01	0.59
1:EA:10:A:H62	1:EA:559:A:N6	2.00	0.59
1:EA:586:C:H5''	8:EH:91:ARG:CB	2.32	0.59
1:EA:589:C:OP1	8:EH:31:PHE:O	2.19	0.59
1:EA:928:G:C5'	1:EA:1533:C:N4	2.64	0.59
4:ED:92:VAL:O	4:ED:96:LEU:HD13	2.02	0.59
1:EA:9:G:OP1	5:EE:121:LYS:NZ	2.35	0.59
7:EG:146:GLU:C	7:EG:148:ASN:H	2.05	0.59
1:EA:653:A:N6	8:EH:32:LYS:HZ2	1.93	0.59
1:EA:599:C:OP1	8:EH:99:GLU:CB	2.50	0.59
1:EA:690:G:OP1	11:EK:27:ASN:CB	2.50	0.59
14:EN:24:CYS:SG	14:EN:39:LEU:HD23	2.42	0.59
14:EN:33:VAL:HA	14:EN:40:CYS:HA	1.84	0.59
22:FB:3124:G:N2	53:F7:209:MSE:HE1	2.10	0.59
22:FB:3174:C:C2	53:F7:209:MSE:SE	3.05	0.59
22:FB:123:A:H5''	50:F4:14:LYS:NZ	2.17	0.59
22:FB:1906:U:H2'	22:FB:1907:C:H6	1.67	0.59
22:FB:1509:A:N6	22:FB:2190:A:H1'	2.17	0.59
22:FB:2558:C:H2'	22:FB:2559:U:O4'	2.02	0.59
22:FB:1982:C:H4'	22:FB:2702:G:H22	1.65	0.59
22:FB:2617:G:H1	22:FB:2755:A:C2'	2.13	0.59
22:FB:464:G:N2	50:F4:39:ARG:HH21	2.01	0.59
22:FB:567:G:C5'	31:FK:140:GLN:CD	2.71	0.59
22:FB:597:U:OP1	33:FM:28:LYS:C	2.40	0.59
22:FB:610:G:O3'	26:FF:98:GLN:NE2	2.35	0.59
22:FB:672:C:C5'	26:FF:94:THR:HB	2.32	0.59
24:FD:227:ASN:HB2	24:FD:231:HIS:HB2	1.85	0.59
24:FD:270:ILE:HD13	24:FD:270:ILE:H	1.67	0.59
25:FE:117:MET:HG3	25:FE:123:ALA:HB2	1.83	0.59
25:FE:1:MET:N	25:FE:199:ARG:HH12	1.99	0.59
31:FK:46:ALA:HB1	31:FK:85:ALA:H	1.68	0.59
38:FR:28:ARG:HG2	38:FR:34:ASN:HB3	1.84	0.59
38:FR:91:ASN:CG	39:FS:10:LYS:CE	2.71	0.59
23:FA:98:C:H5	43:FW:11:LYS:HD2	1.65	0.59
1:GA:1109:C:OP1	3:GC:176:HIS:CE1	2.56	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:GA:1256:A:H5'	1:GA:1258:G:H1'	1.84	0.59
1:GA:267:C:H5'	17:GQ:67:LYS:CE	2.32	0.59
1:GA:815:A:H3'	1:GA:1526:G:N2	2.16	0.59
4:GD:93:PHE:HA	4:GD:96:LEU:HD22	1.83	0.59
10:GJ:31:GLY:HA2	10:GJ:78:ASN:ND2	2.16	0.59
22:HB:3121:G:C2'	53:H7:160:LYS:HZ3	2.16	0.59
23:HA:51:G:OP1	36:HP:97:HIS:HB2	2.02	0.59
22:HB:157:G:C5'	50:H4:36:ALA:O	2.51	0.59
22:HB:1989:C:H1'	22:HB:2798:A:C1'	2.32	0.59
22:HB:418:C:C5	53:H7:192:ASN:HA	2.31	0.59
22:HB:832:A:H2'	22:HB:833:A:H8	1.66	0.59
28:HH:138:LYS:HD2	28:HH:141:VAL:HG11	1.83	0.59
28:HH:22:GLY:CA	28:HH:37:TYR:HB2	2.33	0.59
22:HB:1148:G:H4'	31:HK:134:MET:SD	2.42	0.59
22:HB:1256:C:H5''	33:HM:17:LYS:HZ1	1.67	0.59
22:HB:1338:G:N2	40:HT:106:LEU:CG	2.55	0.59
22:HB:2249:U:H5''	44:HX:18:PRO:CB	2.33	0.59
1:IA:191:G:H21	20:IT:56:MET:HE2	1.66	0.59
1:IA:390:C:H2'	1:IA:391:G:C8	2.38	0.59
1:IA:958:A:H4'	19:IS:55:LYS:HZ2	1.66	0.59
3:IC:140:ARG:HB2	3:IC:140:ARG:CZ	2.32	0.59
4:ID:11:LEU:HD23	4:ID:11:LEU:H	1.67	0.59
10:IJ:64:GLU:HG2	14:IN:59:ALA:CB	2.30	0.59
17:IQ:59:ILE:HG22	17:IQ:60:ILE:H	1.66	0.59
22:JB:3124:G:O4'	53:J7:62:LYS:CD	2.50	0.59
23:JA:44:C:O3'	27:JG:64:LYS:HE3	2.02	0.59
23:JA:42:U:H1'	23:JA:49:C:N3	2.16	0.59
22:JB:1140:A:C2	22:JB:2548:G:O2'	2.50	0.59
22:JB:2240:C:C4'	22:JB:2366:U:O2'	2.49	0.59
22:JB:2393:G:O2'	33:JM:66:ASN:CG	2.40	0.59
22:JB:3167:U:H3	53:J7:101:LYS:HD2	1.61	0.59
22:JB:333:A:H1'	22:JB:351:A:C4	2.38	0.59
22:JB:1811:A:O3'	24:JD:159:ALA:O	2.20	0.59
40:JT:40:LEU:HA	48:J2:20:ARG:NE	2.17	0.59
22:JB:71:A:N1	45:JY:58:ALA:HB3	2.15	0.59
22:JB:108:G:N2	45:JY:60:LEU:HB2	2.17	0.59
4:AD:36:ARG:NH2	4:AD:40:PRO:HA	2.18	0.59
9:AI:47:LEU:C	9:AI:51:ARG:HH11	2.05	0.59
3:AC:61:ALA:HB1	10:AJ:95:GLU:OE1	2.01	0.59
13:AM:86:CYS:SG	13:AM:92:HIS:CE1	2.94	0.59
16:AP:53:VAL:HB	16:AP:56:ALA:HB3	1.84	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:761:G:N2	17:AQ:104:LYS:CA	2.60	0.59
47:B1:48:ARG:HH21	47:B1:49:PHE:HB3	1.64	0.59
22:BB:2790:C:O2'	48:B2:43:HIS:HB2	2.01	0.59
53:B7:17:SER:OG	53:B7:20:TYR:HB2	2.02	0.59
22:BB:1004:A:N1	22:BB:1172:U:O2	2.36	0.59
22:BB:2487:G:H5''	22:BB:2534:U:C5'	2.26	0.59
22:BB:2558:C:H2'	22:BB:2559:U:O4'	2.02	0.59
22:BB:3148:G:H2'	22:BB:3149:G:O4'	2.03	0.59
22:BB:4:C:O2	22:BB:2873:G:N1	2.36	0.59
22:BB:69:G:O2'	22:BB:70:A:C4	2.55	0.59
22:BB:872:G:H2'	22:BB:928:G:C6	2.38	0.59
22:BB:676:G:H1'	22:BB:950:G:H1'	1.83	0.59
24:BD:55:GLY:HA2	24:BD:218:LYS:H	1.67	0.59
27:BG:108:LEU:N	27:BG:109:PRO:HD2	2.18	0.59
33:BM:108:LEU:HB2	33:BM:126:SER:HB3	1.82	0.59
22:BB:2856:U:O4'	35:BO:94:TYR:N	2.35	0.59
34:BN:106:GLU:C	43:BW:113:VAL:CG1	2.66	0.59
1:CA:1333:A:H4'	13:CM:114:ARG:NE	2.17	0.59
1:CA:1103:C:O2'	2:CB:111:ARG:HB3	2.02	0.59
3:CC:36:ASP:HB3	3:CC:40:ARG:NH1	2.17	0.59
4:CD:57:ARG:HD2	4:CD:57:ARG:N	2.17	0.59
1:CA:1298:C:H41	7:CG:115:ARG:HH11	1.50	0.59
7:CG:120:ILE:O	7:CG:124:LEU:HG	2.02	0.59
7:CG:35:LYS:HG2	7:CG:38:LEU:H	1.67	0.59
16:CP:55:ARG:HE	16:CP:55:ARG:HA	1.67	0.59
19:CS:40:ILE:HD12	19:CS:62:ILE:HD13	1.84	0.59
49:D3:22:TYR:C	49:D3:24:THR:H	2.06	0.59
22:DB:1018:C:C1'	31:DK:134:MET:CG	2.67	0.59
22:DB:1855:G:H4'	22:DB:2390:A:H5''	1.85	0.59
22:DB:2463:G:H2'	22:DB:2464:G:C8	2.37	0.59
22:DB:2558:C:H2'	22:DB:2559:U:O4'	2.02	0.59
22:DB:505:G:C5'	40:DT:25:PHE:CB	2.51	0.59
22:DB:508:G:H2'	22:DB:509:U:O4'	2.03	0.59
24:DD:228:PRO:O	24:DD:229:VAL:HG23	2.02	0.59
22:DB:1671:A:H2	25:DE:113:THR:O	1.85	0.59
22:DB:2290:A:HO2'	27:DG:79:LEU:HD11	1.64	0.59
22:DB:917:U:C4'	43:DW:122:ILE:HA	2.32	0.59
43:DW:3:LEU:HA	43:DW:34:LEU:HD21	1.83	0.59
1:EA:1186:G:P	9:EI:110:GLU:OE1	2.60	0.59
1:EA:1483:A:C2	22:FB:1943:A:H1'	2.37	0.59
1:EA:968:A:OP1	9:EI:125:TYR:CG	2.55	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:EG:38:LEU:O	7:EG:42:ILE:HG13	2.02	0.59
8:EH:132:GLU:HG2	8:EH:133:LEU:H	1.67	0.59
1:EA:1186:G:N3	9:EI:111:ARG:HD2	2.17	0.59
1:EA:690:G:P	11:EK:27:ASN:HB2	2.42	0.59
29:FI:27:ASN:OD1	47:F1:46:GLU:OE1	2.20	0.59
23:FA:59:A:H3'	23:FA:59:A:OP2	2.02	0.59
23:FA:65:A:H2'	23:FA:66:G:C8	2.36	0.59
22:FB:1829:C:H4'	22:FB:1911:A:O4'	2.03	0.59
22:FB:1992:G:H5''	40:FT:62:ARG:CB	2.32	0.59
22:FB:2035:G:O4'	25:FE:142:GLY:HA2	2.03	0.59
22:FB:2284:U:O2	27:FG:40:LEU:CD1	2.49	0.59
22:FB:2353:G:H2'	22:FB:2354:G:O4'	2.02	0.59
22:FB:2432:A:O4'	22:FB:2551:A:O2'	2.20	0.59
22:FB:2618:A:O2'	31:FK:122:HIS:CE1	2.55	0.59
22:FB:3130:G:H1'	22:FB:3159:G:H22	1.67	0.59
22:FB:3178:C:C4'	53:F7:163:PRO:CB	2.80	0.59
22:FB:771:C:H2'	22:FB:772:G:C8	2.38	0.59
22:FB:1006:C:N4	31:FK:30:LYS:HE2	2.17	0.59
22:FB:1684:G:C5'	32:FL:7:ARG:HD3	2.31	0.59
22:FB:1172:U:O2'	39:FS:22:VAL:HB	2.02	0.59
22:FB:529:U:C5'	40:FT:39:ARG:HG2	2.25	0.59
41:FU:46:PHE:HZ	41:FU:91:LEU:HD11	1.66	0.59
1:GA:1351:U:O4'	7:GG:33:ASP:OD1	2.20	0.59
1:GA:760:G:O2'	17:GQ:102:GLY:CA	2.50	0.59
3:GC:140:ARG:CZ	3:GC:140:ARG:HB2	2.32	0.59
1:GA:545:C:H5''	4:GD:72:GLU:OE2	2.03	0.59
1:GA:1380:U:C4	7:GG:3:ARG:HG3	2.37	0.59
8:GH:39:LEU:HB3	8:GH:45:ILE:HG12	1.83	0.59
14:GN:33:VAL:HG12	14:GN:40:CYS:HB3	1.84	0.59
17:GQ:59:ILE:HG22	17:GQ:60:ILE:H	1.66	0.59
22:HB:1381:G:N7	47:H1:1:MET:CG	2.66	0.59
22:HB:1221:C:OP1	33:HM:5:ASP:OD2	2.20	0.59
22:HB:1586:A:C3'	22:HB:1587:A:P	2.90	0.59
22:HB:1906:U:H2'	22:HB:1907:C:H6	1.68	0.59
22:HB:2356:A:H2'	22:HB:2357:A:O4'	2.02	0.59
22:HB:2602:G:H1'	48:H2:22:HIS:HE1	1.68	0.59
22:HB:2647:G:H2'	22:HB:2648:G:C8	2.37	0.59
22:HB:2606:G:C4	22:HB:2757:G:O6	2.55	0.59
22:HB:3122:U:H5''	53:H7:131:ARG:HA	1.85	0.59
22:HB:402:A:C6	22:HB:2392:G:H4'	2.37	0.59
22:HB:602:C:HO2'	51:H5:2:PRO:C	2.04	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:HB:2578:G:O6	24:HD:237:GLU:CG	2.50	0.59
22:HB:2491:C:H1'	25:HE:139:GLY:O	2.01	0.59
27:HG:108:LEU:N	27:HG:109:PRO:HD2	2.18	0.59
31:HK:169:GLN:HG3	31:HK:170:PRO:HD2	1.84	0.59
22:HB:172:A:O2'	33:HM:55:ARG:NH2	2.35	0.59
38:HR:93:LYS:C	38:HR:95:LEU:H	2.06	0.59
40:HT:26:ALA:HB3	40:HT:126:ILE:HB	1.85	0.59
41:HU:46:PHE:HZ	41:HU:91:LEU:HD11	1.66	0.59
45:HY:50:VAL:HG13	45:HY:54:ASN:HD21	1.66	0.59
1:IA:1455:G:C2'	1:IA:1455:G:N3	2.65	0.59
1:IA:1484:C:H4'	22:JB:1944:C:C5'	2.32	0.59
1:IA:644:G:H5''	8:IH:92:ARG:HH21	1.65	0.59
1:IA:683:G:O2'	11:IK:38:ASN:ND2	2.36	0.59
2:IB:176:GLU:HG3	2:IB:179:LYS:NZ	2.17	0.59
4:ID:36:ARG:NH2	4:ID:40:PRO:HA	2.18	0.59
22:JB:526:C:H5''	48:J2:12:SER:HB2	1.84	0.59
22:JB:53:G:HO2'	50:J4:35:ARG:HD3	1.60	0.59
22:JB:1861:G:C8	53:J7:199:ASN:ND2	2.70	0.59
22:JB:1001:A:N3	22:JB:1168:G:OP1	2.35	0.59
22:JB:1762:C:H4'	22:JB:1921:A:N7	2.16	0.59
22:JB:2552:C:C5'	22:JB:2553:G:H5''	2.33	0.59
22:JB:821:A:N3	26:JF:68:ARG:NH1	2.51	0.59
26:JF:16:GLU:HG3	26:JF:17:LEU:N	2.17	0.59
22:JB:576:A:H5'	33:JM:40:ARG:HH22	1.67	0.59
22:JB:2848:A:C1'	35:JO:6:ALA:HB1	2.31	0.59
36:JP:29:LEU:HB3	36:JP:91:ARG:HB2	1.84	0.59
34:JN:107:VAL:HG12	43:JW:113:VAL:HG12	1.83	0.59
43:JW:65:LEU:HD21	43:JW:128:ARG:HE	1.39	0.59
22:JB:2240:C:H5''	44:JX:16:SER:HB3	1.84	0.59
44:JX:47:ALA:HB1	44:JX:77:ARG:HH21	1.68	0.59
1:AA:814:A:C2	1:AA:1526:G:O2'	2.29	0.59
1:AA:83:C:H1'	1:AA:87:G:N2	2.18	0.59
2:AB:215:LEU:O	2:AB:219:VAL:HG23	2.03	0.59
9:AI:10:ARG:HG2	9:AI:75:ASP:HB2	1.85	0.59
10:AJ:51:ARG:HG3	10:AJ:60:ARG:O	2.02	0.59
1:AA:949:A:P	13:AM:102:ARG:HH21	2.25	0.59
1:AA:658:G:C5'	15:AO:8:LYS:HZ1	1.97	0.59
17:AQ:59:ILE:HG22	17:AQ:60:ILE:H	1.67	0.59
22:BB:219:G:H3'	51:B5:5:LYS:HZ3	1.67	0.59
53:B7:131:ARG:HB3	53:B7:133:LYS:HE3	1.84	0.59
22:BB:1143:A:C4	31:BK:101:THR:OG1	2.52	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:BB:1298:G:N7	22:BB:1342:U:O4	2.34	0.59
22:BB:1437:A:H61	22:BB:1439:G:H22	1.42	0.59
22:BB:1876:C:H2'	22:BB:1877:C:O4'	2.03	0.59
22:BB:677:G:H2'	22:BB:678:G:O4'	2.01	0.59
22:BB:688:A:H3'	22:BB:815:A:H62	1.66	0.59
22:BB:7:G:C5'	31:BK:79:PHE:CZ	2.85	0.59
22:BB:922:A:C4	22:BB:2243:C:O2'	2.55	0.59
24:BD:142:VAL:HG11	24:BD:145:LEU:HD21	1.84	0.59
22:BB:1673:C:H3'	25:BE:136:ARG:CZ	2.32	0.59
22:BB:2597:G:O2'	25:BE:150:VAL:HG23	2.01	0.59
22:BB:2310:G:H4'	44:BX:71:ASN:CA	2.32	0.59
1:CA:10:A:H62	1:CA:559:A:N6	1.99	0.59
1:CA:1515:C:H2'	1:CA:1516:G:O4'	2.02	0.59
1:CA:19:C:H5''	5:CE:86:ALA:HB3	1.84	0.59
1:CA:919:A:O2'	1:CA:1079:G:C6	2.40	0.59
7:CG:26:PHE:HB2	7:CG:101:LEU:HD22	1.83	0.59
13:CM:87:TYR:CD2	13:CM:91:ARG:HG2	2.32	0.59
1:CA:980:C:C4'	14:CN:19:ARG:HH22	2.15	0.59
18:CR:47:THR:HG21	18:CR:49:LYS:HE3	1.83	0.59
20:CT:39:LYS:HB3	20:CT:43:LEU:HD12	1.85	0.59
22:DB:2399:C:H42	51:D5:31:HIS:CE1	2.14	0.59
53:D7:105:ARG:HG3	53:D7:131:ARG:HE	1.67	0.59
22:DB:17:G:OP1	48:D2:13:LYS:HE2	2.03	0.59
22:DB:2617:G:H1	22:DB:2755:A:C2'	2.14	0.59
22:DB:529:U:H4'	40:DT:39:ARG:HH22	1.62	0.59
24:DD:221:GLN:H	24:DD:222:ARG:HH11	1.51	0.59
24:DD:12:SER:HA	24:DD:22:SER:N	2.18	0.59
26:DF:87:LYS:HG3	26:DF:88:PRO:HD2	1.82	0.59
27:DG:108:LEU:N	27:DG:109:PRO:HD2	2.18	0.59
28:DH:96:ALA:HB1	28:DH:103:LEU:HD21	1.85	0.59
30:DJ:125:ASN:N	30:DJ:125:ASN:HD22	1.97	0.59
33:DM:101:ARG:HD2	33:DM:101:ARG:H	1.67	0.59
34:DN:103:VAL:H	34:DN:104:MET:CE	2.16	0.59
35:DO:41:ALA:HA	35:DO:44:LEU:HB3	1.83	0.59
34:DN:62:GLY:O	43:DW:112:LEU:HB2	2.02	0.59
43:DW:84:TYR:CE1	43:DW:128:ARG:HG3	2.37	0.59
22:DB:2239:C:OP1	44:DX:14:ARG:NH1	2.33	0.59
1:EA:1055:A:H2	3:EC:156:ARG:NH1	1.96	0.59
1:EA:1518:A:H2'	1:EA:1519:A:H8	1.66	0.59
1:EA:863:U:H2'	1:EA:864:A:H3'	1.83	0.59
1:EA:958:A:N3	19:ES:55:LYS:CG	2.65	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:ED:108:LEU:HA	4:ED:170:VAL:HG21	1.83	0.59
7:EG:120:ILE:O	7:EG:124:LEU:HG	2.02	0.59
7:EG:35:LYS:HG2	7:EG:38:LEU:H	1.67	0.59
7:EG:45:ASP:O	7:EG:49:ILE:HG13	2.01	0.59
1:EA:1179:A:O2'	9:EI:104:ARG:CD	2.51	0.59
9:EI:49:PRO:CG	9:EI:81:ILE:HD13	2.32	0.59
10:EJ:22:LYS:HB3	10:EJ:23:ILE:HD12	1.84	0.59
1:EA:675:A:N1	11:EK:116:HIS:HB2	2.17	0.59
1:EA:690:G:P	11:EK:27:ASN:CB	2.91	0.59
17:EQ:59:ILE:HG22	17:EQ:60:ILE:H	1.66	0.59
18:ER:47:THR:HG21	18:ER:49:LYS:HE3	1.83	0.59
19:ES:43:GLU:HG3	19:ES:44:MET:HG3	1.84	0.59
22:FB:1998:A:C1'	48:F2:3:LYS:NZ	2.55	0.59
53:F7:105:ARG:HG3	53:F7:131:ARG:HE	1.68	0.59
22:FB:1274:C:OP2	40:FT:118:LYS:CE	2.49	0.59
22:FB:190:A:H2'	22:FB:191:G:C8	2.38	0.59
22:FB:1964:A:OP2	22:FB:1964:A:H3'	2.03	0.59
22:FB:2277:A:OP1	27:FG:71:LYS:CD	2.47	0.59
22:FB:226:C:C2	22:FB:2373:C:O2'	2.55	0.59
22:FB:2766:U:C2'	25:FE:64:GLN:OE1	2.50	0.59
22:FB:3875:A:C5'	53:F7:43:LYS:HD3	2.29	0.59
22:FB:413:G:C5	47:F1:63:PHE:CE1	2.91	0.59
22:FB:591:G:C4'	38:FR:11:ARG:HH12	2.14	0.59
22:FB:879:A:N3	22:FB:879:A:H2'	2.16	0.59
22:FB:2510:A:OP2	28:FH:175:LYS:HB2	2.01	0.59
22:FB:3093:C:H5''	29:FI:21:LYS:HA	0.81	0.59
22:FB:1291:G:OP1	35:FO:35:GLN:HB3	2.02	0.59
32:FL:112:GLY:CA	37:FQ:75:GLU:HB3	2.32	0.59
43:FW:3:LEU:HA	43:FW:34:LEU:HD21	1.84	0.59
1:GA:1248:A:C4	9:GI:70:LYS:HD2	2.38	0.59
1:GA:412:A:C2	4:GD:30:LYS:CA	2.86	0.59
1:GA:506:G:H2'	1:GA:507:C:O4'	2.01	0.59
1:GA:902:G:H2'	1:GA:903:G:C8	2.37	0.59
4:GD:121:VAL:O	4:GD:134:ASP:HA	2.03	0.59
4:GD:92:VAL:O	4:GD:96:LEU:HD13	2.02	0.59
7:GG:146:GLU:C	7:GG:148:ASN:H	2.05	0.59
13:GM:31:LYS:HG3	13:GM:34:LEU:HD12	1.84	0.59
51:H5:46:LYS:H	51:H5:46:LYS:HD3	1.67	0.59
51:H5:57:ARG:NE	51:H5:57:ARG:HA	2.17	0.59
53:H7:131:ARG:HB3	53:H7:133:LYS:HE3	1.85	0.59
22:HB:1743:C:OP1	37:HQ:123:ARG:NH2	2.35	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:HB:190:A:H2'	22:HB:191:G:C8	2.38	0.59
22:HB:2578:G:O6	24:HD:237:GLU:HG2	2.01	0.59
22:HB:598:U:H2'	22:HB:599:A:C8	2.36	0.59
24:HD:12:SER:HA	24:HD:22:SER:N	2.17	0.59
24:HD:270:ILE:H	24:HD:270:ILE:HD13	1.67	0.59
22:HB:2025:A:N7	31:HK:142:ARG:NH1	2.50	0.59
34:HN:64:LYS:H	43:HW:111:GLY:CA	2.15	0.59
22:HB:2688:G:OP1	35:HO:18:VAL:HG13	2.02	0.59
22:HB:1020:A:C5'	38:HR:62:ILE:HD13	2.32	0.59
22:HB:761:G:O6	40:HT:112:GLY:O	2.19	0.59
22:HB:1996:A:H1'	40:HT:116:ILE:O	2.02	0.59
22:HB:2310:G:O2'	44:HX:70:ILE:HB	2.02	0.59
1:IA:376:G:H2'	1:IA:377:G:C8	2.38	0.59
1:IA:59:A:H5''	1:IA:60:A:H5''	1.85	0.59
3:IC:36:ASP:HB3	3:IC:40:ARG:NH1	2.17	0.59
1:IA:620:C:C4'	4:ID:138:TYR:CD1	2.69	0.59
4:ID:14:ARG:HA	4:ID:39:PRO:HB3	1.84	0.59
8:IH:6:ILE:HB	8:IH:85:ARG:HD2	1.85	0.59
1:IA:975:A:H62	10:IJ:50:ILE:CD1	2.15	0.59
12:IL:22:SER:CA	12:IL:23:LYS:N	2.64	0.59
17:IQ:101:ARG:HE	17:IQ:101:ARG:HA	1.66	0.59
22:JB:1377:G:N1	47:J1:1:MET:SD	2.64	0.59
22:JB:16:G:C8	48:J2:18:MET:SD	2.95	0.59
22:JB:2399:C:OP1	51:J5:35:GLY:N	2.36	0.59
53:J7:5:LYS:HA	53:J7:184:ILE:HD12	1.85	0.59
22:JB:1047:G:H2'	22:JB:1048:U:H5'	1.84	0.59
22:JB:1236:G:OP2	39:JS:71:ILE:CD1	2.50	0.59
22:JB:1477:C:H1'	22:JB:2681:A:C2	2.38	0.59
22:JB:1447:U:H3	22:JB:1576:G:H1	1.48	0.59
22:JB:1807:A:C2	22:JB:1808:C:H1'	2.37	0.59
22:JB:190:A:H2'	22:JB:191:G:C8	2.38	0.59
24:JD:12:SER:HA	24:JD:22:SER:N	2.17	0.59
33:JM:62:LYS:CB	51:J5:30:ARG:NE	2.04	0.59
22:JB:2811:G:H5'	37:JQ:5:ILE:O	2.02	0.59
45:JY:50:VAL:HG13	45:JY:54:ASN:HD21	1.66	0.59
1:AA:1229:A:N3	1:AA:1229:A:H2'	2.18	0.59
1:AA:15:G:C6	5:AE:19:MET:N	2.70	0.59
1:AA:506:G:H2'	1:AA:507:C:O4'	2.02	0.59
3:AC:173:VAL:HG22	3:AC:203:PHE:HB2	1.85	0.59
3:AC:36:ASP:HB3	3:AC:40:ARG:NH1	2.17	0.59
1:AA:1298:C:C4	7:AG:114:ARG:CG	2.85	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:AG:38:LEU:O	7:AG:42:ILE:HG13	2.02	0.59
10:AJ:79:ARG:HH12	10:AJ:83:GLU:CB	2.08	0.59
1:AA:974:A:H2	14:AN:31:ARG:CG	1.98	0.59
1:AA:323:U:C4'	20:AT:22:ARG:NE	2.58	0.59
22:BB:177:U:C5'	47:B1:31:ILE:CG2	2.78	0.59
52:B6:23:VAL:HG12	52:B6:36:GLN:NE2	2.17	0.59
22:BB:190:A:H2'	22:BB:191:G:C8	2.38	0.59
22:BB:2463:G:H2'	22:BB:2464:G:C8	2.37	0.59
22:BB:2789:U:C4	48:B2:43:HIS:HD2	2.15	0.59
22:BB:543:G:C6	22:BB:570:G:N1	2.71	0.59
22:BB:922:A:C2	22:BB:2244:C:C4'	2.85	0.59
24:BD:221:GLN:H	24:BD:222:ARG:HH11	1.51	0.59
22:BB:2554:C:O2	25:BE:140:SER:HA	2.03	0.59
25:BE:107:THR:HB	25:BE:162:MET:HG3	1.85	0.59
29:BI:8:PRO:HB3	29:BI:13:LYS:HB2	1.83	0.59
25:BE:76:ARG:CZ	37:BQ:2:GLN:OE1	2.51	0.59
22:BB:592:G:P	38:BR:10:ARG:HD3	2.43	0.59
39:BS:21:ARG:NE	39:BS:22:VAL:H	2.01	0.59
42:BV:53:VAL:HG12	42:BV:54:ILE:H	1.67	0.59
1:CA:1134:G:H2'	1:CA:1135:U:H5'	1.85	0.59
1:CA:1299:A:N7	1:CA:1301:U:H1'	2.18	0.59
1:CA:83:C:H1'	1:CA:87:G:N2	2.18	0.59
4:CD:36:ARG:NH2	4:CD:40:PRO:HA	2.18	0.59
10:CJ:63:PHE:N	14:CN:59:ALA:HB3	2.18	0.59
16:CP:53:VAL:HB	16:CP:56:ALA:HB3	1.84	0.59
51:D5:46:LYS:HD3	51:D5:46:LYS:H	1.67	0.59
52:D6:19:ARG:HB3	52:D6:19:ARG:HH21	1.67	0.59
22:DB:121:G:H2'	22:DB:122:G:O4'	2.02	0.59
22:DB:1402:G:C2	22:DB:1412:C:C2	2.91	0.59
22:DB:1453:A:H3'	22:DB:1454:U:C5	2.37	0.59
22:DB:1670:G:O6	35:DO:11:ASN:O	2.20	0.59
22:DB:1815:G:H5''	24:DD:54:ILE:HB	1.84	0.59
22:DB:1876:C:H2'	22:DB:1877:C:O4'	2.03	0.59
22:DB:1883:A:C5	22:DB:1953:A:C5	2.91	0.59
22:DB:2273:C:H5'	36:DP:95:LYS:HE2	1.85	0.59
22:DB:599:A:H2'	22:DB:600:G:O4'	2.01	0.59
22:DB:2618:A:C4'	31:DK:125:ARG:NH1	2.54	0.59
22:DB:643:A:O4'	33:DM:66:ASN:O	2.21	0.59
35:DO:5:LYS:NZ	35:DO:6:ALA:HB2	2.18	0.59
22:DB:24:G:O4'	40:DT:98:ASP:OD1	2.21	0.59
22:DB:348:U:H5''	42:DV:13:LYS:HD3	1.85	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:EA:1240:U:OP1	7:EG:115:ARG:HG3	2.00	0.59
1:EA:194:C:H1'	20:ET:68:LYS:HD3	1.83	0.59
1:EA:262:A:OP2	20:ET:74:LYS:CD	2.11	0.59
2:EB:176:GLU:HG3	2:EB:179:LYS:NZ	2.17	0.59
9:EI:47:LEU:C	9:EI:51:ARG:HH11	2.05	0.59
14:EN:39:LEU:HD22	14:EN:44:LEU:HB2	1.84	0.59
23:FA:118:G:OP1	36:FP:53:ALA:N	2.31	0.59
22:FB:1402:G:N2	22:FB:1412:C:N1	2.50	0.59
22:FB:838:A:H5''	22:FB:2407:G:C5	2.38	0.59
22:FB:2463:G:H2'	22:FB:2464:G:C8	2.37	0.59
22:FB:2647:G:H2'	22:FB:2648:G:C8	2.37	0.59
22:FB:574:C:C5'	39:FS:82:ARG:CZ	2.75	0.59
22:FB:64:C:O5'	41:FU:70:GLY:C	2.39	0.59
35:FO:5:LYS:NZ	35:FO:6:ALA:HB2	2.18	0.59
22:FB:503:G:C1'	40:FT:28:ALA:HA	2.21	0.59
43:FW:99:HIS:CG	43:FW:100:THR:H	2.21	0.59
44:FX:40:GLN:HA	44:FX:41:ARG:HH21	1.68	0.59
1:GA:178:C:N3	1:GA:195:A:H5'	2.18	0.59
1:GA:299:G:H2'	1:GA:300:A:H8	1.68	0.59
1:GA:390:C:H2'	1:GA:391:G:C8	2.38	0.59
16:GP:71:ARG:HA	16:GP:74:LEU:HG	1.84	0.59
1:GA:251:G:O2'	17:GQ:67:LYS:NZ	2.35	0.59
22:HB:1370:U:H5''	50:H4:23:LYS:HB3	1.85	0.59
22:HB:2737:A:N7	52:H6:18:ARG:HD2	2.18	0.59
22:HB:1019:U:O3'	38:HR:59:ARG:HD2	2.03	0.59
22:HB:1402:G:N1	22:HB:1412:C:N4	2.49	0.59
22:HB:1468:A:H62	35:HO:76:VAL:CB	2.05	0.59
22:HB:1681:A:H2	22:HB:2706:U:H1'	1.67	0.59
22:HB:1807:A:C2	22:HB:1808:C:H1'	2.37	0.59
22:HB:1829:C:O4'	22:HB:1911:A:C4'	2.50	0.59
22:HB:2328:G:OP1	51:H5:41:ILE:CD1	2.19	0.59
22:HB:2364:C:H1'	44:HX:69:PHE:CE1	2.34	0.59
22:HB:2398:U:C4'	49:H3:21:TYR:OH	2.49	0.59
22:HB:2510:A:H61	22:HB:2641:A:H61	1.49	0.59
22:HB:596:C:C2	33:HM:29:THR:HG21	2.38	0.59
22:HB:824:U:C3'	33:HM:33:GLY:CA	2.80	0.59
22:HB:872:G:H2'	22:HB:928:G:C6	2.38	0.59
24:HD:144:ALA:HB2	24:HD:192:THR:HG22	1.85	0.59
22:HB:2490:U:H3	25:HE:140:SER:HB2	1.68	0.59
31:HK:77:GLY:HA3	31:HK:147:ARG:NH2	2.14	0.59
31:HK:46:ALA:HB1	31:HK:85:ALA:H	1.68	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:HL:59:ALA:HB3	32:HL:64:VAL:HB	1.84	0.59
43:HW:134:LEU:HD12	43:HW:135:VAL:H	1.67	0.59
41:HU:91:LEU:CD1	45:HY:24:GLU:HG2	2.32	0.59
1:IA:1223:C:P	19:IS:78:ARG:CZ	2.91	0.59
1:IA:1321:C:P	19:IS:3:ARG:CZ	2.90	0.59
1:IA:1394:A:N7	1:IA:1501:C:H4'	2.17	0.59
1:IA:1420:C:H2'	1:IA:1421:G:H8	1.67	0.59
1:IA:178:C:N3	1:IA:195:A:H5'	2.18	0.59
1:IA:299:G:H2'	1:IA:300:A:H8	1.68	0.59
1:IA:363:A:C6	12:IL:30:ALA:N	2.70	0.59
1:IA:673:G:H4'	6:IF:87:ARG:CZ	2.29	0.59
1:IA:644:G:H5'	8:IH:92:ARG:NH2	2.17	0.59
18:IR:47:THR:HG21	18:IR:49:LYS:HE3	1.83	0.59
47:J1:22:MET:HB3	47:J1:29:PRO:HB3	1.83	0.59
48:J2:46:CYS:HB3	48:J2:48:ASN:H	1.66	0.59
51:J5:24:ALA:O	51:J5:46:LYS:HA	2.02	0.59
22:JB:1015:U:H1'	22:JB:1021:A:H2'	1.85	0.59
22:JB:1312:G:H4'	22:JB:1314:A:N9	2.18	0.59
22:JB:923:A:N9	22:JB:2243:C:O2'	2.32	0.59
22:JB:2570:C:C6	24:JD:237:GLU:O	2.56	0.59
22:JB:2619:G:O3'	31:JK:102:ARG:NH1	2.36	0.59
22:JB:2691:C:OP1	22:JB:2694:G:H4'	2.02	0.59
22:JB:544:U:H4'	38:JR:20:ARG:HH22	1.66	0.59
15:IO:89:GLY:CA	22:JB:729:A:OP2	2.51	0.59
22:JB:872:G:H2'	22:JB:928:G:C6	2.38	0.59
25:JE:107:THR:HB	25:JE:162:MET:HG3	1.85	0.59
33:JM:140:VAL:HG13	33:JM:141:VAL:N	2.16	0.59
22:JB:593:C:OP1	38:JR:6:THR:N	2.35	0.59
43:JW:99:HIS:CG	43:JW:100:THR:H	2.20	0.59
43:JW:134:LEU:HD13	43:JW:153:LYS:O	2.02	0.59
22:JB:1197:U:P	46:JZ:26:ARG:HG3	2.43	0.59
1:AA:1108:G:P	3:AC:176:HIS:N	2.73	0.59
1:AA:1307:U:C5'	13:AM:109:THR:CG2	2.80	0.59
1:AA:1349:A:H5''	9:AI:120:ARG:C	2.22	0.59
1:AA:742:G:OP1	15:AO:55:GLY:HA2	2.02	0.59
1:AA:949:A:C5'	13:AM:102:ARG:NH2	2.26	0.59
1:AA:982:U:P	14:AN:23:ARG:NH2	2.73	0.59
2:AB:134:GLU:HA	2:AB:137:ARG:HE	1.66	0.59
3:AC:140:ARG:HB2	3:AC:140:ARG:CZ	2.32	0.59
7:AG:120:ILE:O	7:AG:124:LEU:HG	2.02	0.59
11:AK:24:SER:O	11:AK:88:GLY:HA2	2.03	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:BB:1668:G:OP1	35:BO:11:ASN:CB	2.49	0.59
22:BB:1883:A:C5	22:BB:1953:A:C6	2.90	0.59
22:BB:1917:C:H2'	22:BB:1918:G:O4'	2.03	0.59
22:BB:1982:C:H4'	22:BB:2702:G:H22	1.66	0.59
22:BB:2039:G:N3	48:B2:5:PRO:HG3	2.16	0.59
22:BB:2617:G:H1	22:BB:2755:A:C2'	2.14	0.59
22:BB:2807:U:O2'	22:BB:2808:U:H5''	2.03	0.59
22:BB:3093:C:H1'	22:BB:2181:A:C6	2.38	0.59
22:BB:543:G:C5	22:BB:570:G:N2	2.71	0.59
22:BB:66:U:C6	22:BB:87:G:C2	2.91	0.59
22:BB:888:G:C1'	43:BW:165:GLU:CG	2.76	0.59
26:BF:176:ASN:OD1	26:BF:178:TYR:HB3	2.03	0.59
23:BA:59:A:HO2'	27:BG:22:TYR:HE2	0.70	0.59
28:BH:78:GLY:HA2	28:BH:83:TYR:HE2	1.68	0.59
31:BK:46:ALA:HB1	31:BK:85:ALA:H	1.68	0.59
32:BL:90:ARG:O	37:BQ:79:ARG:HA	2.03	0.59
22:BB:1669:A:P	35:BO:9:LYS:NZ	2.76	0.59
25:BE:7:THR:H	37:BQ:3:THR:HG1	1.49	0.59
22:BB:527:C:H5''	40:BT:36:ARG:NH1	2.18	0.59
40:BT:73:ASN:HD22	40:BT:73:ASN:H	1.50	0.59
1:CA:1061:G:H1'	10:CJ:56:HIS:CD2	2.37	0.59
1:CA:1256:A:H5'	1:CA:1258:G:H1'	1.84	0.59
1:CA:958:A:C2	19:CS:56:GLN:NE2	2.64	0.59
7:CG:38:LEU:O	7:CG:42:ILE:HG13	2.02	0.59
9:CI:10:ARG:HG2	9:CI:75:ASP:HB2	1.85	0.59
11:CK:24:SER:O	11:CK:88:GLY:HA2	2.03	0.59
1:CA:1230:C:C2'	13:CM:126:LYS:HE3	2.33	0.59
13:CM:13:LYS:HG2	13:CM:14:ARG:H	1.66	0.59
1:CA:43:C:H3'	16:CP:12:LYS:CE	2.33	0.59
16:CP:71:ARG:HA	16:CP:74:LEU:HG	1.84	0.59
51:D5:28:GLY:N	51:D5:30:ARG:HH22	2.00	0.59
52:D6:2:LYS:HE3	52:D6:34:GLN:HG2	1.84	0.59
22:DB:1513:U:C4	22:DB:1594:U:OP1	2.56	0.59
22:DB:1670:G:N2	35:DO:11:ASN:ND2	2.50	0.59
22:DB:190:A:H2'	22:DB:191:G:C8	2.38	0.59
22:DB:219:G:C5'	51:D5:62:LEU:CD1	2.35	0.59
22:DB:2647:G:H2'	22:DB:2648:G:C8	2.37	0.59
22:DB:2807:U:O2'	22:DB:2808:U:H5''	2.03	0.59
22:DB:596:C:C4'	33:DM:28:LYS:NZ	2.66	0.59
22:DB:872:G:H2'	22:DB:928:G:C6	2.38	0.59
22:DB:677:G:H4'	22:DB:951:G:C5'	2.32	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:DH:78:GLY:HA2	28:DH:83:TYR:HE2	1.68	0.59
22:DB:2760:G:C5'	31:DK:149:LYS:HD2	2.29	0.59
38:DR:95:LEU:HB2	39:DS:10:LYS:HE2	1.84	0.59
43:DW:151:ASP:O	43:DW:154:LEU:HB2	2.02	0.59
46:DZ:32:ARG:HG2	46:DZ:33:GLU:H	1.68	0.59
22:DB:864:C:H5'	46:DZ:43:MET:HG2	1.82	0.59
1:EA:1256:A:H5'	1:EA:1258:G:H1'	1.84	0.59
1:EA:1299:A:N7	1:EA:1301:U:H1'	2.18	0.59
1:EA:158:G:H1	1:EA:163:C:N4	1.99	0.59
1:EA:15:G:H2'	1:EA:16:A:O4'	2.02	0.59
1:EA:978:A:H1'	1:EA:1321:C:H42	1.68	0.59
9:EI:10:ARG:HG2	9:EI:75:ASP:HB2	1.85	0.59
1:EA:538:G:P	12:EL:113:ARG:HD3	2.42	0.59
13:EM:84:ILE:HG13	13:EM:86:CYS:H	1.66	0.59
10:EJ:62:HIS:CG	14:EN:61:TRP:HZ3	2.15	0.59
51:F5:46:LYS:H	51:F5:46:LYS:HD3	1.67	0.59
22:FB:2284:U:C1'	27:FG:152:MET:CE	2.57	0.59
22:FB:2714:A:N6	22:FB:2750:G:N9	2.49	0.59
22:FB:2807:U:O2'	22:FB:2808:U:H5''	2.03	0.59
22:FB:333:A:H1'	22:FB:351:A:C4	2.38	0.59
22:FB:688:A:H3'	22:FB:815:A:H62	1.66	0.59
22:FB:872:G:H2'	22:FB:928:G:C6	2.38	0.59
24:FD:72:LYS:HD3	24:FD:119:ALA:HB1	1.85	0.59
28:FH:22:GLY:CA	28:FH:37:TYR:HB2	2.33	0.59
22:FB:2760:G:N1	31:FK:125:ARG:HD3	2.12	0.59
33:FM:101:ARG:H	33:FM:101:ARG:HD2	1.68	0.59
35:FO:41:ALA:HA	35:FO:44:LEU:HB3	1.83	0.59
40:FT:78:ASN:HA	40:FT:82:ASN:HD22	1.67	0.59
22:FB:1406:A:C6	41:FU:15:LYS:HG2	2.33	0.59
42:FV:53:VAL:HG12	42:FV:54:ILE:H	1.67	0.59
22:FB:338:G:H2'	42:FV:77:HIS:HE1	1.68	0.59
43:FW:88:TYR:CD2	43:FW:91:PRO:HA	2.37	0.59
46:FZ:53:VAL:HG13	46:FZ:54:GLN:H	1.67	0.59
1:GA:1455:G:C2'	1:GA:1455:G:N3	2.65	0.59
1:GA:376:G:H2'	1:GA:377:G:C8	2.38	0.59
1:GA:932:C:H5'	7:GG:4:ARG:CB	2.32	0.59
1:GA:969:A:C6	13:GM:126:LYS:NZ	2.71	0.59
4:GD:14:ARG:HA	4:GD:39:PRO:HB3	1.84	0.59
4:GD:57:ARG:N	4:GD:57:ARG:HD2	2.17	0.59
7:GG:153:HIS:NE2	11:GK:93:GLN:HG3	2.18	0.59
5:GE:78:HIS:CB	8:GH:138:TRP:CE3	2.84	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:GS:43:GLU:HG3	19:GS:44:MET:HG3	1.84	0.59
13:GM:86:CYS:CB	19:GS:74:PHE:HE2	2.14	0.59
22:HB:1015:U:H1'	22:HB:1021:A:H2'	1.85	0.59
22:HB:1447:U:H3	22:HB:1576:G:H1	1.48	0.59
22:HB:2357:A:H4'	36:HP:26:ARG:HD2	1.83	0.59
22:HB:644:A:C2	22:HB:2382:C:H5''	2.37	0.59
22:HB:248:A:N7	22:HB:373:A:N6	2.50	0.59
22:HB:2457:A:O2'	22:HB:2507:U:O2'	2.19	0.59
22:HB:2691:C:OP1	22:HB:2694:G:H4'	2.02	0.59
22:HB:1750:A:C5'	22:HB:2695:C:O2'	2.51	0.59
22:HB:2747:C:H5''	31:HK:112:THR:CG2	2.32	0.59
22:HB:2814:G:O4'	35:HO:45:ARG:CG	2.35	0.59
22:HB:417:C:O2'	22:HB:418:C:H4'	2.01	0.59
22:HB:1582:A:C4	24:HD:211:ARG:O	2.56	0.59
32:HL:76:ARG:HB3	32:HL:90:ARG:HH12	1.66	0.59
33:HM:67:ASN:ND2	51:H5:11:LYS:NZ	2.51	0.59
37:HQ:28:ARG:CZ	37:HQ:95:GLU:HB2	2.33	0.59
22:HB:542:A:C4	38:HR:41:ASN:ND2	2.71	0.59
22:HB:759:C:O5'	40:HT:111:ARG:CG	2.51	0.59
1:IA:1256:A:H5'	1:IA:1258:G:H1'	1.85	0.59
1:IA:1393:U:H3'	1:IA:1394:A:OP2	2.02	0.59
1:IA:1515:C:H2'	1:IA:1516:G:O4'	2.02	0.59
1:IA:587:G:C5'	8:IH:89:PRO:HB3	2.32	0.59
1:IA:727:G:H1'	1:IA:731:G:H1	1.68	0.59
1:IA:814:A:H1'	1:IA:1511:G:O4'	2.02	0.59
1:IA:902:G:H2'	1:IA:903:G:C8	2.37	0.59
9:II:49:PRO:CG	9:II:81:ILE:HD13	2.32	0.59
22:JB:3119:A:N6	53:J7:101:LYS:HZ2	1.73	0.59
22:JB:1455:C:C5'	22:JB:1643:A:H4'	2.33	0.59
22:JB:1761:G:HO2'	22:JB:1921:A:H8	1.48	0.59
22:JB:1829:C:C4'	22:JB:1911:A:O4'	2.51	0.59
22:JB:1829:C:O5'	22:JB:1911:A:H4'	2.02	0.59
22:JB:2356:A:H2'	22:JB:2357:A:O4'	2.02	0.59
22:JB:2363:G:P	44:JX:39:ARG:NE	2.61	0.59
22:JB:2519:C:OP1	52:J6:4:ARG:NH2	2.35	0.59
22:JB:2647:G:H2'	22:JB:2648:G:C8	2.37	0.59
22:JB:79:G:H4'	22:JB:356:A:C2	2.37	0.59
22:JB:491:A:C4'	42:JV:72:ARG:HG2	2.31	0.59
22:JB:592:G:H4'	38:JR:5:LYS:HD3	1.80	0.59
22:JB:598:U:H2'	22:JB:599:A:C8	2.37	0.59
22:JB:797:A:H62	24:JD:229:VAL:HG22	1.65	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:JB:688:A:H3'	22:JB:815:A:H62	1.66	0.59
26:JF:22:VAL:HG13	26:JF:23:ASN:N	2.10	0.59
38:JR:93:LYS:C	38:JR:95:LEU:H	2.06	0.59
1:AA:1256:A:H5'	1:AA:1258:G:H1'	1.84	0.59
1:AA:1455:G:C2'	1:AA:1455:G:N3	2.65	0.59
1:AA:158:G:H1	1:AA:163:C:N4	1.98	0.59
1:AA:17:U:C5'	5:AE:16:THR:CG2	2.70	0.59
4:AD:92:VAL:O	4:AD:96:LEU:HD13	2.02	0.59
4:AD:93:PHE:HA	4:AD:96:LEU:HD22	1.84	0.59
7:AG:103:TRP:NE1	7:AG:137:LYS:HB2	2.16	0.59
8:AH:6:ILE:HB	8:AH:85:ARG:HD2	1.85	0.59
1:AA:1061:G:C4'	10:AJ:58:ASP:CB	2.65	0.59
1:AA:980:C:C5'	14:AN:19:ARG:HH22	2.12	0.59
10:AJ:50:ILE:HB	14:AN:41:ARG:HD2	1.83	0.59
19:AS:40:ILE:HD12	19:AS:62:ILE:HD13	1.85	0.59
1:AA:332:G:O4'	20:AT:13:LEU:HG	2.02	0.59
22:BB:1374:G:P	47:B1:52:THR:CG2	2.88	0.59
48:B2:46:CYS:HB3	48:B2:48:ASN:H	1.66	0.59
51:B5:24:ALA:O	51:B5:46:LYS:HA	2.02	0.59
22:BB:659:G:N2	51:B5:46:LYS:CE	2.42	0.59
22:BB:1015:U:H1'	22:BB:1021:A:H2'	1.85	0.59
22:BB:2411:A:C2	47:B1:22:MET:CE	2.86	0.59
22:BB:2505:G:C5'	22:BB:2722:C:H4'	2.33	0.59
22:BB:3122:U:H5''	53:B7:160:LYS:HZ3	1.66	0.59
24:BD:12:SER:HA	24:BD:22:SER:N	2.17	0.59
22:BB:2753:C:C4'	25:BE:163:GLU:HG2	2.32	0.59
22:BB:6:A:C2'	31:BK:163:PRO:HG2	2.28	0.59
39:BS:72:ARG:HG3	39:BS:73:LYS:H	1.68	0.59
43:BW:134:LEU:HD13	43:BW:153:LYS:O	2.02	0.59
1:CA:1518:A:H2'	1:CA:1519:A:H8	1.67	0.59
1:CA:412:A:H2	4:CD:32:ALA:H	1.51	0.59
1:CA:673:G:C4'	18:CR:75:ILE:CG2	2.72	0.59
3:CC:140:ARG:CZ	3:CC:140:ARG:HB2	2.32	0.59
9:CI:11:LYS:H	9:CI:104:ARG:HE	1.50	0.59
9:CI:47:LEU:C	9:CI:51:ARG:HH11	2.05	0.59
1:CA:1357:A:O2'	14:CN:34:TYR:CZ	2.56	0.59
49:D3:28:ARG:HG3	49:D3:29:ARG:H	1.68	0.59
22:DB:1007:A:H5'	38:DR:93:LYS:O	1.56	0.59
22:DB:1015:U:H1'	22:DB:1021:A:H2'	1.85	0.59
22:DB:1080:A:H62	22:DB:1084:A:N6	2.01	0.59
22:DB:1731:C:OP2	22:DB:1732:U:H5''	2.02	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:DB:1917:C:H2'	22:DB:1918:G:O4'	2.03	0.59
22:DB:424:G:P	22:DB:2386:G:OP2	2.61	0.59
22:DB:632:A:H2'	22:DB:633:G:O4'	2.02	0.59
22:DB:688:A:H3'	22:DB:815:A:H62	1.67	0.59
22:DB:917:U:H1'	43:DW:166:LEU:HD21	1.82	0.59
22:DB:2218:G:C3'	24:DD:230:ASP:HA	2.33	0.59
24:DD:72:LYS:HD3	24:DD:119:ALA:HB1	1.85	0.59
41:DU:88:ILE:HG12	41:DU:90:ALA:N	2.14	0.59
1:EA:1263:C:C4'	1:IA:1263:C:H4'	2.31	0.59
1:EA:1361:G:H2'	1:EA:2361:C:O4'	2.02	0.59
3:EC:55:VAL:HA	3:EC:68:VAL:HG13	1.82	0.59
4:ED:14:ARG:HA	4:ED:39:PRO:HB3	1.84	0.59
5:EE:78:HIS:O	5:EE:93:PRO:HD3	2.01	0.59
1:EA:1297:C:O2'	7:EG:114:ARG:NH2	2.36	0.59
10:EJ:60:ARG:O	10:EJ:61:GLU:HB3	2.01	0.59
11:EK:24:SER:O	11:EK:88:GLY:HA2	2.03	0.59
1:EA:111:G:OP1	16:EP:27:LYS:HG2	2.03	0.59
22:FB:1003:C:H5''	38:FR:47:TYR:CE1	2.37	0.59
22:FB:121:G:H2'	22:FB:122:G:O4'	2.02	0.59
22:FB:1876:C:H2'	22:FB:1877:C:O4'	2.03	0.59
22:FB:2615:U:OP1	25:FE:79:ARG:O	2.19	0.59
22:FB:2035:G:N2	25:FE:148:GLY:O	2.36	0.59
25:FE:107:THR:HB	25:FE:162:MET:HG3	1.85	0.59
28:FH:18:ASN:HB2	28:FH:24:PHE:HA	1.84	0.59
31:FK:75:ILE:CG2	31:FK:140:GLN:HA	2.30	0.59
33:FM:122:VAL:HG22	33:FM:124:ALA:H	1.68	0.59
22:FB:675:C:H5'	33:FM:26:THR:HG23	1.83	0.59
23:FA:117:G:O4'	36:FP:41:GLN:NE2	2.36	0.59
37:FQ:28:ARG:CZ	37:FQ:95:GLU:HB2	2.33	0.59
22:FB:2309:G:O2'	44:FX:36:ILE:CD1	2.51	0.59
46:FZ:32:ARG:HG2	46:FZ:33:GLU:H	1.68	0.59
46:FZ:6:VAL:HB	46:FZ:50:LEU:HD23	1.84	0.59
1:GA:1196:U:O4	1:GA:1397:C:H5	1.86	0.59
1:GA:1255:G:H4'	1:GA:1258:G:O2'	2.02	0.59
1:GA:927:G:C4'	1:GA:1503:A:C8	2.71	0.59
1:GA:576:G:H3'	1:GA:577:G:H5''	1.85	0.59
1:GA:59:A:H5''	1:GA:60:A:H5''	1.85	0.59
1:GA:673:G:H5''	6:GF:87:ARG:NH2	2.18	0.59
2:GB:176:GLU:HG3	2:GB:179:LYS:NZ	2.17	0.59
2:GB:215:LEU:O	2:GB:219:VAL:HG23	2.03	0.59
4:GD:108:LEU:HA	4:GD:170:VAL:HG21	1.84	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:GG:35:LYS:HG2	7:GG:38:LEU:H	1.67	0.59
11:GK:62:GLN:HB2	11:GK:93:GLN:HB3	1.84	0.59
13:GM:22:ILE:HD12	13:GM:25:ILE:HD12	1.85	0.59
22:HB:2029:G:H1'	48:H2:22:HIS:CB	2.33	0.59
22:HB:1312:G:H4'	22:HB:1314:A:N9	2.18	0.59
22:HB:1805:G:N3	24:HD:52:ARG:CD	2.65	0.59
22:HB:1829:C:C5'	22:HB:1911:A:C5'	2.73	0.59
22:HB:2353:G:H2'	22:HB:2354:G:O4'	2.02	0.59
22:HB:690:A:H4'	22:HB:2054:A:H4'	1.84	0.59
24:HD:55:GLY:HA2	24:HD:218:LYS:H	1.68	0.59
24:HD:221:GLN:H	24:HD:222:ARG:HH11	1.51	0.59
28:HH:148:VAL:HG23	28:HH:149:ARG:HE	1.67	0.59
22:HB:818:G:P	33:HM:42:GLY:N	2.73	0.59
23:HA:52:G:OP2	36:HP:64:LYS:CD	2.50	0.59
38:HR:91:ASN:ND2	39:HS:40:VAL:HG11	2.18	0.59
42:HV:53:VAL:HG12	42:HV:54:ILE:H	1.67	0.59
43:HW:99:HIS:CG	43:HW:100:THR:H	2.21	0.59
22:HB:2236:U:P	44:HX:10:SER:N	2.76	0.59
41:HU:45:ALA:HB3	45:HY:16:LYS:HG2	1.83	0.59
1:IA:1299:A:N7	1:IA:1301:U:H1'	2.18	0.59
1:IA:1392:G:C1'	1:IA:1531:A:H5''	2.33	0.59
1:IA:532:A:C6	1:IA:1207:G:H5'	2.38	0.59
2:IB:215:LEU:O	2:IB:219:VAL:HG23	2.03	0.59
4:ID:92:VAL:O	4:ID:96:LEU:HD13	2.02	0.59
6:IF:2:ARG:HH12	15:IO:2:PRO:CB	2.04	0.59
1:IA:452:A:C1'	16:IP:72:ARG:HD2	2.32	0.59
51:J5:28:GLY:N	51:J5:30:ARG:HH22	2.00	0.59
22:JB:10:A:N6	22:JB:2608:A:C1'	2.66	0.59
22:JB:16:G:O3'	48:J2:14:SER:O	2.20	0.59
22:JB:2074:U:H5''	29:JI:24:TYR:CZ	2.36	0.59
22:JB:2260:C:C5'	22:JB:2368:G:N2	2.65	0.59
22:JB:2491:C:H4'	25:JE:138:PRO:HB3	1.82	0.59
22:JB:339:U:O2	42:JV:78:ALA:O	2.21	0.59
22:JB:348:U:H5''	42:JV:13:LYS:CB	2.25	0.59
22:JB:690:A:H4'	22:JB:2054:A:H4'	1.84	0.59
22:JB:1781:C:H1'	24:JD:209:ALA:HB2	1.85	0.59
30:JJ:103:GLN:HG3	30:JJ:107:ILE:HG13	1.83	0.59
30:JJ:28:GLY:HA2	30:JJ:32:ALA:HB3	1.84	0.59
22:JB:567:G:O2'	31:JK:73:ASN:HA	2.02	0.59
22:JB:2826:C:H1'	35:JO:61:HIS:HB3	1.85	0.59
37:JQ:28:ARG:CZ	37:JQ:95:GLU:HB2	2.33	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:JB:348:U:C5'	42:JV:13:LYS:HZ3	2.09	0.59
22:JB:308:C:H5''	42:JV:93:ARG:NH2	2.17	0.59
42:JV:96:LYS:HB3	42:JV:98:ILE:HG13	1.83	0.59
46:JZ:53:VAL:HG13	46:JZ:54:GLN:H	1.67	0.59
1:AA:1299:A:N7	1:AA:1301:U:H1'	2.18	0.59
1:AA:1420:C:H2'	1:AA:1421:G:H8	1.67	0.59
1:AA:1441:G:O6	20:AT:27:LYS:CE	2.51	0.59
1:AA:1442:G:N2	1:AA:1443:G:H3'	2.18	0.59
1:AA:1472:U:H2'	1:AA:1473:A:O4'	2.03	0.59
1:AA:815:A:C4	1:AA:1529:G:C4	2.91	0.59
1:AA:949:A:H5''	13:AM:102:ARG:HH22	1.57	0.59
1:AA:973:G:O2'	14:AN:29:ARG:NH2	2.36	0.59
1:AA:620:C:O2'	4:AD:138:TYR:CD1	2.47	0.59
5:AE:149:GLU:H	8:AH:107:LEU:CD2	2.16	0.59
7:AG:26:PHE:HB2	7:AG:101:LEU:HD22	1.83	0.59
1:AA:1060:C:C5'	10:AJ:52:GLY:N	2.59	0.59
12:AL:10:LEU:HD13	17:AQ:32:TYR:CZ	2.38	0.59
47:B1:22:MET:HB3	47:B1:29:PRO:HB3	1.83	0.59
49:B3:22:TYR:C	49:B3:24:THR:H	2.06	0.59
49:B3:28:ARG:HG3	49:B3:29:ARG:H	1.68	0.59
52:B6:2:LYS:HE3	52:B6:34:GLN:HG2	1.85	0.59
22:BB:1044:U:H5''	52:B6:16:VAL:CG2	1.92	0.59
22:BB:1142:G:O4'	31:BK:110:LEU:C	2.41	0.59
22:BB:1915:A:N1	22:BB:1956:G:H1'	2.18	0.59
22:BB:2344:G:H5'	44:BX:42:GLY:N	2.18	0.59
22:BB:2647:G:H2'	22:BB:2648:G:C8	2.37	0.59
22:BB:2671:C:O2	22:BB:2822:U:H4'	2.03	0.59
22:BB:333:A:H1'	22:BB:351:A:C4	2.38	0.59
22:BB:523:A:C2	38:BR:11:ARG:CZ	2.86	0.59
6:AF:81:ILE:O	24:BD:137:PRO:CB	2.45	0.59
22:BB:1142:G:C5'	31:BK:110:LEU:O	2.51	0.59
22:BB:2462:C:C2	34:BN:54:VAL:CG1	2.85	0.59
22:BB:2814:G:P	35:BO:46:PRO:HG3	2.42	0.59
37:BQ:28:ARG:CZ	37:BQ:95:GLU:HB2	2.33	0.59
1:CA:1060:C:C5'	10:CJ:52:GLY:CA	2.75	0.59
1:CA:158:G:H1	1:CA:163:C:N4	1.99	0.59
1:CA:233:C:O2'	17:CQ:64:PRO:CD	2.47	0.59
1:CA:597:G:N2	8:CH:132:GLU:CD	2.55	0.59
1:CA:753:A:H4'	1:CA:754:C:O5'	2.03	0.59
2:CB:62:ALA:HA	2:CB:222:ILE:HG23	1.83	0.59
1:CA:1113:C:O2'	14:CN:57:ARG:NH1	2.36	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:1320:C:C1'	19:CS:72:GLY:C	2.64	0.59
23:DA:92:G:N3	34:DN:21:ASP:CB	2.66	0.59
22:DB:1325:U:N1	41:DU:61:LYS:HE3	2.08	0.59
22:DB:1815:G:H5''	24:DD:54:ILE:CG1	2.32	0.59
22:DB:2328:G:OP1	51:D5:42:ARG:CZ	2.50	0.59
22:DB:917:U:C4'	43:DW:122:ILE:CA	2.81	0.59
24:DD:227:ASN:O	24:DD:228:PRO:C	2.41	0.59
25:DE:107:THR:HB	25:DE:162:MET:HG3	1.85	0.59
26:DF:176:ASN:OD1	26:DF:178:TYR:HB3	2.03	0.59
28:DH:22:GLY:CA	28:DH:37:TYR:HB2	2.32	0.59
28:DH:69:ARG:HH21	28:DH:72:VAL:HG11	1.67	0.59
31:DK:126:VAL:HG22	31:DK:127:ILE:N	2.16	0.59
32:DL:85:ASP:O	37:DQ:83:PHE:CG	2.56	0.59
38:DR:93:LYS:C	38:DR:95:LEU:H	2.06	0.59
39:DS:21:ARG:NE	39:DS:22:VAL:H	2.01	0.59
22:DB:498:C:O4'	40:DT:77:ALA:CB	2.50	0.59
22:DB:1355:A:P	41:DU:56:MET:HA	2.43	0.59
1:EA:275:G:O3'	17:EQ:15:MET:HE2	2.03	0.59
1:EA:83:C:H1'	1:EA:87:G:N2	2.18	0.59
3:EC:140:ARG:NH1	3:EC:140:ARG:HB2	2.18	0.59
14:EN:33:VAL:HG12	14:EN:40:CYS:HB3	1.84	0.59
20:ET:26:ASN:HA	20:ET:29:LYS:HD2	1.83	0.59
20:ET:39:LYS:HB3	20:ET:43:LEU:HD12	1.85	0.59
49:F3:22:TYR:C	49:F3:24:THR:H	2.06	0.59
22:FB:1917:C:H2'	22:FB:1918:G:O4'	2.03	0.59
22:FB:2311:U:H5'	44:FX:70:ILE:CG2	2.33	0.59
22:FB:2805:G:H21	22:FB:2811:G:H21	1.51	0.59
22:FB:632:A:H2'	22:FB:633:G:O4'	2.02	0.59
1:EA:899:C:O2	24:FD:14:ARG:NH1	2.36	0.59
24:FD:221:GLN:H	24:FD:222:ARG:HH11	1.51	0.59
24:FD:259:THR:HG22	24:FD:260:ARG:H	1.67	0.59
22:FB:2736:U:C4	28:FH:67:LEU:HD23	2.37	0.59
28:FH:65:HIS:HA	28:FH:68:THR:HG23	1.85	0.59
22:FB:2627:G:H21	32:FL:26:ASN:HD21	1.50	0.59
32:FL:59:ALA:HB3	32:FL:64:VAL:HB	1.85	0.59
22:FB:596:C:C2	33:FM:29:THR:HG21	2.38	0.59
22:FB:458:G:H5''	38:FR:5:LYS:NZ	2.12	0.59
1:GA:1299:A:N7	1:GA:1301:U:H1'	2.18	0.59
1:GA:1391:U:H1'	1:GA:1531:A:O2'	2.03	0.59
1:GA:1518:A:H2'	1:GA:1519:A:H8	1.67	0.59
2:GB:71:VAL:HB	2:GB:164:VAL:HA	1.85	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
53:H7:5:LYS:HA	53:H7:184:ILE:HD12	1.85	0.59
22:HB:1485:U:H5	22:HB:1537:U:O4	1.82	0.59
22:HB:1980:A:OP2	25:HE:135:HIS:CD2	2.56	0.59
22:HB:221:A:O3'	33:HM:68:VAL:CG2	2.45	0.59
22:HB:2276:C:N4	22:HB:2299:A:H1'	2.16	0.59
22:HB:402:A:C4	22:HB:2392:G:H4'	2.38	0.59
22:HB:7:G:C6	22:HB:2870:C:N4	2.67	0.59
22:HB:1835:C:C5'	24:HD:255:LYS:HZ3	1.94	0.59
28:HH:18:ASN:HB2	28:HH:24:PHE:HA	1.84	0.59
34:HN:110:VAL:O	34:HN:113:GLU:HG2	2.03	0.59
23:HA:93:G:C3'	34:HN:23:LYS:HZ2	2.15	0.59
22:HB:2448:A:O3'	34:HN:57:ARG:CZ	2.51	0.59
39:HS:21:ARG:NE	39:HS:22:VAL:H	2.01	0.59
39:HS:72:ARG:HG3	39:HS:73:LYS:H	1.68	0.59
1:EA:1265:G:C4'	1:IA:1272:G:C2'	2.56	0.59
1:IA:186:C:C4'	20:IT:81:LYS:HB3	2.33	0.59
1:IA:246:A:C4	17:IQ:97:SER:O	2.56	0.59
1:IA:450:G:OP1	16:IP:43:LYS:HB2	2.02	0.59
1:IA:506:G:H2'	1:IA:507:C:O4'	2.01	0.59
1:IA:644:G:H4'	8:IH:92:ARG:CD	2.32	0.59
1:IA:922:G:C2'	5:IE:19:MET:HE1	2.32	0.59
4:ID:93:PHE:HA	4:ID:96:LEU:HD22	1.84	0.59
1:IA:640:A:H4'	8:IH:127:LEU:HD13	1.85	0.59
1:IA:654:G:N3	8:IH:1:MET:HG3	2.17	0.59
22:JB:1811:A:N3	22:JB:1811:A:H2'	2.17	0.59
22:JB:1906:U:H2'	22:JB:1907:C:H6	1.68	0.59
22:JB:2276:C:N4	22:JB:2299:A:H1'	2.16	0.59
22:JB:2495:G:O6	22:JB:2546:G:C6	2.56	0.59
22:JB:2723:C:OP1	52:J6:33:LYS:CE	2.51	0.59
22:JB:2820:C:C5'	37:JQ:62:SER:CA	2.77	0.59
22:JB:44:G:H1'	22:JB:448:C:H42	1.68	0.59
22:JB:455:A:N6	26:JF:39:ARG:HG2	2.18	0.59
15:IO:89:GLY:C	22:JB:730:C:H42	2.01	0.59
24:JD:227:ASN:HB2	24:JD:231:HIS:HB2	1.85	0.59
22:JB:1265:G:C4	38:JR:32:TYR:HE1	2.21	0.59
39:JS:21:ARG:NE	39:JS:22:VAL:H	2.01	0.59
40:JT:73:ASN:H	40:JT:73:ASN:HD22	1.50	0.59
41:JU:46:PHE:HZ	41:JU:91:LEU:HD11	1.66	0.59
43:JW:3:LEU:HA	43:JW:34:LEU:HD21	1.84	0.59
34:JN:129:GLN:HE21	43:JW:74:ARG:NH1	1.91	0.59
22:JB:2240:C:C2'	44:JX:14:ARG:C	2.66	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1379:G:OP2	7:AG:6:ARG:NH2	2.36	0.58
1:AA:346:G:P	37:BQ:51:GLU:HG3	2.43	0.58
1:AA:518:C:H4'	12:AL:50:SER:H	0.77	0.58
1:AA:676:A:HO2'	11:AK:119:CYS:HG	1.48	0.58
1:AA:1189:C:H5'	3:AC:10:PHE:CZ	2.37	0.58
1:AA:558:G:H5''	5:AE:121:LYS:HZ3	1.66	0.58
1:AA:922:G:N2	5:AE:19:MET:CE	2.66	0.58
1:AA:564:C:C1'	8:AH:91:ARG:HH21	2.16	0.58
14:AN:24:CYS:SG	14:AN:39:LEU:HD23	2.42	0.58
16:AP:55:ARG:HE	16:AP:55:ARG:HA	1.67	0.58
51:B5:28:GLY:N	51:B5:30:ARG:HH22	2.00	0.58
33:BM:58:ALA:HA	51:B5:9:MET:HG3	1.85	0.58
22:BB:1041:G:C2	52:B6:7:VAL:HG13	2.36	0.58
22:BB:1081:A:C2	30:BJ:10:LEU:HA	2.38	0.58
22:BB:121:G:H2'	22:BB:122:G:O4'	2.03	0.58
22:BB:1338:G:N3	40:BT:107:ILE:CG2	2.45	0.58
22:BB:2343:C:C4'	44:BX:40:GLN:CB	2.57	0.58
22:BB:2658:A:C2'	25:BE:187:ALA:HB1	2.33	0.58
22:BB:2790:C:O2'	48:B2:43:HIS:CA	2.50	0.58
22:BB:818:G:P	33:BM:42:GLY:H	2.25	0.58
22:BB:862:A:C2	46:BZ:21:GLN:HG2	2.37	0.58
22:BB:2599:U:C2	25:BE:156:MET:CE	2.86	0.58
28:BH:18:ASN:HB2	28:BH:24:PHE:HA	1.84	0.58
31:BK:75:ILE:CG2	31:BK:140:GLN:HA	2.30	0.58
22:BB:542:A:C2'	38:BR:41:ASN:ND2	2.64	0.58
22:BB:886:A:C4	43:BW:167:THR:HG23	1.94	0.58
1:CA:426:G:H4'	4:CD:42:GLN:N	2.18	0.58
1:CA:612:C:O2'	4:CD:86:LYS:HE2	2.03	0.58
1:CA:701:C:H4'	1:CA:702:A:OP2	2.02	0.58
1:CA:8:A:O4'	5:CE:102:ALA:O	2.21	0.58
1:CA:933:G:OP2	7:CG:3:ARG:HD2	2.02	0.58
4:CD:204:ILE:HD12	5:CE:99:GLY:HA3	1.84	0.58
1:CA:430:A:OP1	4:CD:8:VAL:HG23	1.96	0.58
13:CM:81:LEU:O	13:CM:92:HIS:CA	2.50	0.58
14:CN:24:CYS:SG	14:CN:39:LEU:HD23	2.42	0.58
48:D2:46:CYS:HB3	48:D2:48:ASN:H	1.67	0.58
23:DA:78:A:H5'	43:DW:31:SER:HB3	1.85	0.58
23:DA:78:A:OP1	43:DW:8:ARG:C	2.41	0.58
22:DB:1808:C:H5'	24:DD:63:ARG:HD3	1.83	0.58
22:DB:2040:A:O2'	48:D2:6:VAL:HG13	2.03	0.58
22:DB:2184:C:H2'	22:DB:2185:U:C5	2.38	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:DB:2461:G:C6	34:DN:54:VAL:HG12	2.38	0.58
22:DB:888:G:C6	43:DW:165:GLU:CB	2.59	0.58
31:DK:169:GLN:HG3	31:DK:170:PRO:HD2	1.84	0.58
34:DN:76:THR:HA	34:DN:89:GLY:O	2.03	0.58
32:DL:85:ASP:C	37:DQ:84:ALA:CB	2.72	0.58
22:DB:1173:G:O2'	39:DS:23:GLU:HB2	2.03	0.58
22:DB:1172:U:H1'	39:DS:8:GLY:HA2	1.85	0.58
22:DB:339:U:O4'	42:DV:77:HIS:HE1	1.86	0.58
43:DW:134:LEU:HD13	43:DW:153:LYS:O	2.02	0.58
46:DZ:6:VAL:HB	46:DZ:50:LEU:HD23	1.84	0.58
1:EA:1133:G:C2	1:EA:1134:G:H1'	2.37	0.58
1:EA:1179:A:OP2	9:EI:83:ARG:NH2	2.33	0.58
1:EA:1229:A:N3	1:EA:1229:A:H2'	2.18	0.58
1:EA:178:C:N3	1:EA:195:A:H5'	2.18	0.58
1:EA:376:G:C4'	16:EP:28:ARG:CZ	2.79	0.58
1:EA:125:U:C5'	1:EA:605:U:O2'	2.51	0.58
4:ED:36:ARG:NH2	4:ED:40:PRO:HA	2.18	0.58
8:EH:14:ARG:NH2	8:EH:83:ILE:HG23	2.18	0.58
8:EH:6:ILE:HB	8:EH:85:ARG:HD2	1.85	0.58
1:EA:878:G:C5'	8:EH:88:LYS:CG	2.81	0.58
22:FB:1015:U:H1'	22:FB:1021:A:H2'	1.85	0.58
22:FB:2184:C:H2'	22:FB:2185:U:C5	2.38	0.58
22:FB:23:G:H1'	40:FT:96:TYR:CD2	2.35	0.58
22:FB:599:A:H2'	22:FB:600:G:O4'	2.01	0.58
22:FB:625:A:N6	26:FF:172:VAL:HB	2.17	0.58
22:FB:1835:C:H4'	24:FD:255:LYS:HD2	1.84	0.58
26:FF:176:ASN:OD1	26:FF:178:TYR:HB3	2.03	0.58
22:FB:455:A:C8	26:FF:39:ARG:HD3	2.37	0.58
22:FB:597:U:C1'	26:FF:84:PHE:CZ	2.80	0.58
28:FH:96:ALA:HB1	28:FH:103:LEU:HD21	1.85	0.58
22:FB:2741:G:H1'	28:FH:143:GLN:HE22	1.67	0.58
34:FN:110:VAL:O	34:FN:113:GLU:HG2	2.03	0.58
23:FA:117:G:C1'	36:FP:41:GLN:HG2	2.22	0.58
22:FB:1167:A:H2	38:FR:52:ASN:ND2	2.01	0.58
38:FR:65:ILE:O	38:FR:76:TYR:HB2	2.03	0.58
38:FR:44:THR:H	39:FS:75:LYS:HG3	1.68	0.58
22:FB:496:C:O2	40:FT:82:ASN:OD1	2.21	0.58
1:GA:1127:G:H1	1:GA:1145:C:N4	2.01	0.58
1:GA:255:G:C8	17:GQ:17:LYS:HD2	2.38	0.58
1:GA:527:G:H21	1:GA:535:A:H2	1.51	0.58
1:GA:727:G:H1'	1:GA:731:G:H1	1.68	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:GJ:22:LYS:HB3	10:GJ:23:ILE:HD12	1.84	0.58
1:GA:230:G:H5'	16:GP:26:ARG:HH21	1.54	0.58
1:GA:331:G:C5	20:GT:9:ASN:O	2.52	0.58
53:H7:105:ARG:HG3	53:H7:131:ARG:HE	1.67	0.58
22:HB:1750:A:O3'	22:HB:2694:G:O2'	2.21	0.58
22:HB:1827:G:C2	22:HB:1828:C:N4	2.70	0.58
22:HB:2309:G:C4'	44:HX:71:ASN:ND2	2.65	0.58
22:HB:2432:A:O4'	22:HB:2551:A:O2'	2.19	0.58
22:HB:44:G:H1'	22:HB:448:C:H42	1.68	0.58
22:HB:632:A:H2'	22:HB:633:G:O4'	2.02	0.58
22:HB:642:A:H61	22:HB:2394:G:H21	1.49	0.58
22:HB:822:G:N7	33:HM:40:ARG:CZ	2.65	0.58
22:HB:647:G:C6	33:HM:128:ALA:HB2	2.35	0.58
38:HR:65:ILE:O	38:HR:76:TYR:HB2	2.03	0.58
44:HX:40:GLN:HA	44:HX:41:ARG:HH21	1.68	0.58
1:IA:1134:G:H2'	1:IA:1135:U:H5'	1.85	0.58
1:IA:1148:U:C5'	9:II:66:ARG:NH2	2.35	0.58
1:IA:1432:G:OP1	37:JQ:115:ALA:CA	2.51	0.58
1:IA:527:G:H21	1:IA:535:A:H2	1.51	0.58
1:IA:576:G:H3'	1:IA:577:G:H5''	1.85	0.58
2:IB:230:VAL:HG12	2:IB:231:GLU:H	1.68	0.58
1:IA:1056:U:OP1	3:IC:162:GLN:CA	2.46	0.58
7:IG:26:PHE:HB2	7:IG:101:LEU:HD13	1.83	0.58
1:IA:1228:C:H5	13:IM:104:ARG:HG3	1.67	0.58
14:IN:39:LEU:HD22	14:IN:44:LEU:HB2	1.85	0.58
6:IF:2:ARG:HH22	15:IO:2:PRO:HG3	1.67	0.58
33:JM:62:LYS:CD	51:J5:30:ARG:CD	2.75	0.58
22:JB:1268:U:C6	26:JF:66:ASN:CB	2.83	0.58
22:JB:1695:U:O2'	22:JB:1974:U:H4'	2.02	0.58
22:JB:223:C:N4	51:J5:7:HIS:O	2.36	0.58
22:JB:1140:A:O2'	22:JB:2494:C:O2	2.20	0.58
22:JB:2847:G:H22	35:JO:9:LYS:HA	1.68	0.58
22:JB:3148:G:H2'	22:JB:3149:G:O4'	2.03	0.58
22:JB:3178:C:O4'	53:J7:161:ASP:C	2.41	0.58
22:JB:1856:U:N3	22:JB:3865:A:N7	2.50	0.58
22:JB:488:A:N3	42:JV:76:LEU:CD1	2.66	0.58
22:JB:490:A:OP1	42:JV:3:ARG:NH2	2.35	0.58
22:JB:882:C:H4'	34:JN:13:GLN:HG2	1.85	0.58
24:JD:221:GLN:H	24:JD:222:ARG:HH11	1.51	0.58
25:JE:117:MET:HG3	25:JE:123:ALA:HB2	1.83	0.58
26:JF:176:ASN:OD1	26:JF:178:TYR:HB3	2.03	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:JH:18:ASN:HB2	28:JH:24:PHE:HA	1.84	0.58
28:JH:78:GLY:HA2	28:JH:83:TYR:HE2	1.68	0.58
1:IA:1463:C:H5''	37:JQ:117:ILE:HG12	1.85	0.58
22:JB:2366:U:H5'	44:JX:38:VAL:HG21	1.84	0.58
44:JX:40:GLN:HA	44:JX:41:ARG:HH21	1.67	0.58
44:JX:49:GLN:H	44:JX:49:GLN:NE2	2.02	0.58
1:AA:1394:A:N7	1:AA:1501:C:H4'	2.17	0.58
1:AA:701:C:H4'	1:AA:702:A:OP2	2.02	0.58
2:AB:62:ALA:HA	2:AB:222:ILE:HG23	1.83	0.58
1:AA:439:A:O4'	4:AD:122:ARG:NH1	2.36	0.58
10:AJ:50:ILE:CB	14:AN:41:ARG:HD2	2.28	0.58
1:AA:761:G:C5'	17:AQ:102:GLY:C	2.70	0.58
17:AQ:26:GLN:HG2	17:AQ:37:LYS:HA	1.83	0.58
19:AS:43:GLU:HG3	19:AS:44:MET:HG3	1.84	0.58
20:AT:39:LYS:HB3	20:AT:43:LEU:HD12	1.85	0.58
22:BB:419:G:H5'	53:B7:198:THR:CG2	2.33	0.58
22:BB:1040:A:H1'	22:BB:2465:G:C5'	2.33	0.58
22:BB:1080:A:H62	22:BB:1084:A:N6	2.02	0.58
22:BB:156:G:H3'	22:BB:157:G:P	2.43	0.58
22:BB:1731:C:OP2	22:BB:1732:U:H5''	2.02	0.58
22:BB:1817:U:C5'	24:BD:223:GLY:C	2.64	0.58
22:BB:6:A:C4'	31:BK:162:LYS:CE	2.81	0.58
33:BM:122:VAL:HG22	33:BM:124:ALA:H	1.68	0.58
22:BB:2394:G:C5'	33:BM:64:GLY:HA2	2.32	0.58
39:BS:21:ARG:HE	39:BS:22:VAL:H	1.49	0.58
40:BT:78:ASN:HA	40:BT:82:ASN:HD22	1.67	0.58
44:BX:49:GLN:H	44:BX:49:GLN:NE2	2.01	0.58
46:BZ:6:VAL:HB	46:BZ:50:LEU:HD23	1.84	0.58
1:CA:1229:A:N3	1:CA:1229:A:H2'	2.19	0.58
1:CA:1442:G:N2	1:CA:1443:G:H3'	2.18	0.58
1:CA:1361:G:H2'	1:CA:2361:C:O4'	2.02	0.58
1:CA:276:G:C4'	17:CQ:18:THR:HG23	2.32	0.58
2:CB:230:VAL:HG12	2:CB:231:GLU:H	1.68	0.58
3:CC:173:VAL:HG22	3:CC:203:PHE:HB2	1.85	0.58
4:CD:121:VAL:O	4:CD:134:ASP:HA	2.02	0.58
7:CG:103:TRP:NE1	7:CG:137:LYS:HB2	2.16	0.58
1:CA:1343:G:C4'	9:CI:122:ALA:H	2.15	0.58
1:CA:1188:A:C3'	10:CJ:61:GLU:OE2	2.50	0.58
17:CQ:17:LYS:HD3	17:CQ:45:HIS:HE1	1.69	0.58
49:D3:41:ASP:N	49:D3:47:HIS:HD1	2.01	0.58
22:DB:1072:U:O2	30:DJ:10:LEU:HA	2.01	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:DB:2023:C:P	31:DK:132:PHE:CD2	2.94	0.58
22:DB:333:A:H1'	22:DB:351:A:C4	2.38	0.58
22:DB:638:A:H1'	22:DB:662:G:C4'	2.34	0.58
24:DD:144:ALA:HB2	24:DD:192:THR:HG22	1.85	0.58
25:DE:111:LYS:HD3	25:DE:111:LYS:H	1.67	0.58
22:DB:2614:A:H5''	25:DE:78:LEU:HD12	1.84	0.58
22:DB:2725:C:C4'	28:DH:141:VAL:HG23	2.22	0.58
25:DE:13:GLN:OE1	37:DQ:17:GLU:OE2	2.20	0.58
37:DQ:64:LYS:HA	37:DQ:86:PRO:HG2	1.84	0.58
1:EA:1163:C:H2'	1:EA:1164:G:C8	2.38	0.58
1:EA:1228:C:H2'	1:EA:1229:A:C8	2.38	0.58
1:EA:1394:A:N7	1:EA:1501:C:H4'	2.17	0.58
1:EA:1360:A:OP2	14:EN:21:TYR:CB	2.52	0.58
3:EC:18:TRP:NE1	14:EN:52:GLN:N	2.51	0.58
1:EA:1318:A:H2	19:ES:37:ARG:HH12	1.39	0.58
22:FB:2005:U:C4	48:F2:9:LYS:CE	2.86	0.58
52:F6:23:VAL:HG12	52:F6:36:GLN:NE2	2.17	0.58
53:F7:111:LEU:HD13	53:F7:148:ILE:HG23	1.85	0.58
53:F7:81:PRO:HG3	53:F7:152:LYS:HZ2	1.69	0.58
22:FB:1043:A:H4'	52:F6:23:VAL:CB	2.33	0.58
22:FB:1049:C:C4	22:FB:1129:A:N1	2.71	0.58
22:FB:50:G:C4	22:FB:117:A:C2	2.91	0.58
22:FB:1351:G:O3'	41:FU:15:LYS:HB3	2.03	0.58
22:FB:1405:A:N6	41:FU:15:LYS:CD	2.63	0.58
22:FB:1673:C:O3'	25:FE:136:ARG:HB3	1.98	0.58
22:FB:1731:C:OP2	22:FB:1732:U:H5''	2.02	0.58
22:FB:1742:G:O2'	22:FB:2835:A:H2'	2.02	0.58
22:FB:1943:A:H2'	22:FB:1944:C:C6	2.37	0.58
22:FB:2804:G:H21	22:FB:2811:G:H1'	1.67	0.58
22:FB:309:G:N7	42:FV:13:LYS:NZ	2.50	0.58
22:FB:864:C:H5'	46:FZ:42:GLY:C	2.17	0.58
24:FD:144:ALA:HB2	24:FD:192:THR:HG22	1.85	0.58
28:FH:138:LYS:HD2	28:FH:141:VAL:HG11	1.83	0.58
22:FB:2637:C:H5'	28:FH:158:HIS:HE1	1.68	0.58
22:FB:2652:G:C3'	32:FL:46:HIS:HE1	2.15	0.58
22:FB:2372:A:N9	33:FM:59:ARG:HG2	2.19	0.58
34:FN:76:THR:N	34:FN:90:ALA:HA	2.18	0.58
36:FP:29:LEU:HB3	36:FP:91:ARG:HB2	1.85	0.58
39:FS:21:ARG:NE	39:FS:22:VAL:H	2.01	0.58
43:FW:30:VAL:HG12	43:FW:31:SER:H	1.68	0.58
44:FX:44:LYS:HA	44:FX:64:ASP:HA	1.85	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:GA:108:G:C5	20:GT:15:ARG:HB3	2.38	0.58
1:GA:1373:G:H5'	7:GG:35:LYS:HA	1.85	0.58
1:GA:1430:C:H4'	22:HB:1721:G:OP1	2.04	0.58
1:GA:335:C:H1'	1:GA:1434:A:N3	2.18	0.58
1:GA:125:U:C1'	1:GA:633:G:H22	2.10	0.58
4:GD:36:ARG:NH2	4:GD:40:PRO:HA	2.18	0.58
7:GG:38:LEU:O	7:GG:42:ILE:HG13	2.02	0.58
11:GK:24:SER:O	11:GK:88:GLY:HA2	2.03	0.58
14:GN:39:LEU:HD22	14:GN:44:LEU:HB2	1.84	0.58
22:HB:2062:U:C3'	47:H1:32:HIS:ND1	2.65	0.58
22:HB:418:C:C6	53:H7:191:GLU:HG2	2.37	0.58
53:H7:81:PRO:HG3	53:H7:152:LYS:HZ2	1.68	0.58
22:HB:1020:A:H4'	38:HR:62:ILE:HD13	1.85	0.58
22:HB:1074:G:N2	30:HJ:88:SER:HB2	2.17	0.58
22:HB:1374:G:H5''	47:H1:53:GLU:HB2	1.84	0.58
22:HB:1377:G:O5'	47:H1:40:HIS:CE1	2.56	0.58
22:HB:1582:A:N9	24:HD:211:ARG:O	2.36	0.58
22:HB:1811:A:H2'	22:HB:1811:A:N3	2.17	0.58
22:HB:215:G:H22	22:HB:236:C:H2'	1.68	0.58
22:HB:2494:C:H5'	25:HE:151:TYR:OH	2.04	0.58
22:HB:2659:C:H5''	25:HE:192:ASN:H	1.68	0.58
22:HB:2815:C:O2'	35:HO:91:PRO:HB2	1.93	0.58
22:HB:510:G:C3'	40:HT:16:GLN:HE22	2.15	0.58
22:HB:64:C:C2	22:HB:88:G:C2	2.90	0.58
22:HB:638:A:H1'	22:HB:662:G:O4'	2.03	0.58
22:HB:717:G:C6	22:HB:739:G:O6	2.56	0.58
22:HB:688:A:H3'	22:HB:815:A:H62	1.67	0.58
24:HD:72:LYS:HZ1	24:HD:75:VAL:HG11	1.68	0.58
25:HE:117:MET:HG3	25:HE:123:ALA:HB2	1.83	0.58
25:HE:167:VAL:HG11	25:HE:170:LEU:HD12	1.85	0.58
26:HF:16:GLU:HG3	26:HF:17:LEU:N	2.17	0.58
28:HH:96:ALA:HB1	28:HH:103:LEU:HD21	1.85	0.58
32:HL:21:CYS:CA	32:HL:54:SER:H	2.13	0.58
33:HM:122:VAL:HG22	33:HM:124:ALA:H	1.68	0.58
22:HB:575:U:O4	39:HS:79:GLN:CG	2.51	0.58
22:HB:511:A:C3'	40:HT:16:GLN:HG2	2.26	0.58
41:HU:42:ILE:H	41:HU:42:ILE:HD12	1.67	0.58
22:HB:489:A:C5'	42:HV:4:PRO:O	2.51	0.58
44:HX:44:LYS:HA	44:HX:64:ASP:HA	1.85	0.58
44:HX:49:GLN:HG3	44:HX:55:ARG:HD3	1.85	0.58
46:HZ:32:ARG:HG2	46:HZ:33:GLU:H	1.68	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:IA:1127:G:H1	1:IA:1145:C:N4	2.01	0.58
1:IA:1518:A:H2'	1:IA:1519:A:H8	1.67	0.58
1:IA:610:G:O2'	1:IA:611:A:H5'	2.04	0.58
6:IF:10:LEU:HB3	6:IF:85:VAL:HA	1.86	0.58
7:IG:38:LEU:O	7:IG:42:ILE:HG13	2.02	0.58
22:JB:1999:U:H5'	48:J2:3:LYS:HB3	1.85	0.58
49:J3:28:ARG:HG3	49:J3:29:ARG:H	1.68	0.58
23:JA:53:G:C5'	36:JP:63:ASN:ND2	2.49	0.58
22:JB:1964:A:OP2	22:JB:1964:A:H3'	2.02	0.58
22:JB:2510:A:H5'	28:JH:174:GLY:HA3	1.84	0.58
22:JB:2807:U:O2'	22:JB:2808:U:H5''	2.03	0.58
22:JB:80:A:H1'	22:JB:305:A:C4	2.38	0.58
22:JB:417:C:O2'	22:JB:418:C:H4'	2.01	0.58
22:JB:474:G:N2	50:J4:12:ARG:NH2	2.50	0.58
22:JB:491:A:H1'	42:JV:54:ILE:H	1.68	0.58
22:JB:891:A:N6	22:JB:909:C:N4	2.51	0.58
27:JG:66:ILE:O	27:JG:67:ILE:HG22	2.02	0.58
22:JB:1307:U:C2'	35:JO:23:ALA:CB	2.81	0.58
40:JT:78:ASN:HA	40:JT:82:ASN:HD22	1.67	0.58
46:JZ:5:LEU:HD13	46:JZ:31:SER:HB3	1.85	0.58
1:AA:10:A:H62	1:AA:559:A:N6	1.99	0.58
1:AA:1163:C:H2'	1:AA:1164:G:C8	2.38	0.58
1:AA:1229:A:OP2	13:AM:119:GLY:HA2	2.01	0.58
1:AA:978:A:H1'	1:AA:1321:C:H42	1.68	0.58
1:AA:323:U:O3'	20:AT:22:ARG:NE	2.36	0.58
1:AA:545:C:P	4:AD:72:GLU:HB2	2.42	0.58
1:AA:727:G:H1'	1:AA:731:G:H1	1.68	0.58
1:AA:824:C:O2'	8:AH:2:LEU:CD2	2.51	0.58
1:AA:427:U:P	4:AD:41:GLY:HA2	2.43	0.58
5:AE:18:ARG:HH22	5:AE:27:ARG:HB2	1.68	0.58
13:AM:97:PRO:CD	13:AM:110:ARG:HD3	2.34	0.58
1:AA:974:A:O5'	14:AN:32:SER:HB3	2.03	0.58
22:BB:1150:C:O2'	22:BB:1151:U:H5'	2.03	0.58
22:BB:1368:G:H2'	22:BB:1369:G:H8	1.68	0.58
22:BB:2184:C:H2'	22:BB:2185:U:C5	2.38	0.58
22:BB:2611:A:H4'	22:BB:2786:G:N2	2.18	0.58
22:BB:493:A:H1'	22:BB:508:G:H22	1.68	0.58
22:BB:504:G:N2	40:BT:77:ALA:CB	2.52	0.58
22:BB:543:G:N3	22:BB:570:G:C2	2.71	0.58
22:BB:632:A:H2'	22:BB:633:G:O4'	2.02	0.58
22:BB:638:A:H1'	22:BB:662:G:C4'	2.34	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:BJ:55:VAL:HG22	30:BJ:57:ILE:H	1.67	0.58
22:BB:6:A:H4'	31:BK:162:LYS:CE	2.33	0.58
38:BR:65:ILE:O	38:BR:76:TYR:HB2	2.03	0.58
22:BB:887:G:C4'	43:BW:167:THR:O	2.51	0.58
44:BX:47:ALA:HB1	44:BX:77:ARG:HH21	1.68	0.58
46:BZ:5:LEU:HD13	46:BZ:31:SER:HB3	1.85	0.58
1:CA:1472:U:H2'	1:CA:1473:A:O4'	2.04	0.58
1:CA:178:C:N3	1:CA:195:A:H5'	2.18	0.58
1:CA:644:G:C8	8:CH:92:ARG:CD	2.87	0.58
2:CB:215:LEU:O	2:CB:219:VAL:HG23	2.03	0.58
1:CA:1256:A:H62	3:CC:26:LYS:NZ	1.99	0.58
5:CE:90:VAL:O	5:CE:120:THR:HG23	2.03	0.58
1:CA:1375:A:H5'	7:CG:28:ASN:CB	2.33	0.58
10:CJ:21:GLN:HB3	10:CJ:25:GLU:HG3	1.86	0.58
1:CA:1231:G:N7	13:CM:126:LYS:HG2	2.19	0.58
53:D7:81:PRO:HG3	53:D7:152:LYS:HZ2	1.68	0.58
22:DB:874:A:C2	23:DA:81:C:O4'	2.56	0.58
22:DB:1789:U:H5'	24:DD:257:LEU:CD1	2.32	0.58
22:DB:536:A:C2	22:DB:2027:C:H1'	2.38	0.58
22:DB:2713:A:H61	25:DE:203:LYS:HZ3	0.87	0.58
22:DB:2804:G:H21	22:DB:2811:G:H1'	1.67	0.58
22:DB:507:A:OP1	40:DT:20:LEU:CA	2.44	0.58
22:DB:915:C:O5'	43:DW:163:ASP:CG	2.42	0.58
22:DB:625:A:N3	26:DF:176:ASN:ND2	2.51	0.58
27:DG:84:PRO:HG2	27:DG:85:VAL:H	1.68	0.58
34:DN:110:VAL:O	34:DN:113:GLU:HG2	2.03	0.58
37:DQ:28:ARG:CZ	37:DQ:95:GLU:HB2	2.33	0.58
43:DW:134:LEU:HD12	43:DW:135:VAL:H	1.68	0.58
34:DN:36:ILE:C	43:DW:74:ARG:NH2	2.56	0.58
46:DZ:5:LEU:HD13	46:DZ:31:SER:HB3	1.85	0.58
1:EA:1106:G:OP1	3:EC:172:ARG:CD	2.49	0.58
1:EA:1420:C:H2'	1:EA:1421:G:H8	1.67	0.58
1:EA:1442:G:N2	1:EA:1443:G:H3'	2.18	0.58
1:EA:7:G:H3'	5:EE:119:LEU:HD22	1.85	0.58
7:EG:26:PHE:HB2	7:EG:101:LEU:HD13	1.84	0.58
1:EA:932:C:H5'	7:EG:3:ARG:HD3	1.83	0.58
16:EP:71:ARG:HA	16:EP:74:LEU:HG	1.84	0.58
22:FB:1080:A:H62	22:FB:1084:A:N6	2.01	0.58
22:FB:1111:C:C1'	28:FH:168:GLN:NE2	2.66	0.58
22:FB:1150:C:O2'	22:FB:1151:U:H5'	2.03	0.58
22:FB:1290:A:H4'	35:FO:36:THR:OG1	2.02	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:FB:1586:A:C8	22:FB:1587:A:N7	2.72	0.58
22:FB:1888:C:H2'	22:FB:1913:G:C5	2.38	0.58
22:FB:215:G:O2'	22:FB:617:U:O2'	2.06	0.58
22:FB:3093:C:H1'	22:FB:2181:A:N1	2.18	0.58
22:FB:2259:G:N3	22:FB:2367:A:H2	1.95	0.58
22:FB:498:C:H1'	40:FT:77:ALA:HB2	1.85	0.58
22:FB:638:A:H1'	22:FB:662:G:C4'	2.34	0.58
23:FA:57:U:C4'	27:FG:26:MET:HE3	2.33	0.58
28:FH:69:ARG:HH21	28:FH:72:VAL:HG11	1.68	0.58
29:FI:8:PRO:HB3	29:FI:13:LYS:HB2	1.83	0.58
22:FB:2652:G:C1'	32:FL:46:HIS:CE1	2.85	0.58
22:FB:676:G:OP1	33:FM:27:ASP:OD2	2.22	0.58
22:FB:969:U:C6	34:FN:21:ASP:OD2	2.55	0.58
37:FQ:33:VAL:HG22	37:FQ:96:ARG:O	2.04	0.58
22:FB:590:C:C5'	38:FR:32:TYR:HB3	2.27	0.58
22:FB:1006:C:H2'	38:FR:97:ASP:OD1	2.03	0.58
22:FB:528:G:O3'	40:FT:39:ARG:CB	2.51	0.58
40:FT:73:ASN:H	40:FT:73:ASN:HD22	1.50	0.58
22:FB:2311:U:H5'	44:FX:70:ILE:O	2.03	0.58
22:FB:999:A:H5''	46:FZ:28:ILE:HD12	1.84	0.58
46:FZ:5:LEU:HD13	46:FZ:31:SER:HB3	1.85	0.58
27:DG:179:LYS:CD	1:GA:1021:G:C2'	2.81	0.58
1:GA:1176:A:N6	1:GA:1181:G:H1	1.99	0.58
1:GA:17:U:O2'	1:GA:1079:G:C1'	2.38	0.58
1:GA:315:A:H5''	1:GA:317:G:OP2	2.03	0.58
1:GA:689:C:OP2	11:GK:51:LYS:CE	2.52	0.58
1:GA:413:G:N2	4:GD:31:CYS:HA	2.18	0.58
6:GF:10:LEU:HB3	6:GF:85:VAL:HA	1.86	0.58
8:GH:132:GLU:HG2	8:GH:133:LEU:H	1.67	0.58
22:HB:1042:G:OP1	52:H6:8:LYS:CE	2.50	0.58
22:HB:3122:U:P	53:H7:130:PRO:HB2	2.42	0.58
22:HB:3122:U:C2'	53:H7:158:LYS:NZ	2.66	0.58
22:HB:1256:C:H4'	33:HM:17:LYS:CE	2.33	0.58
22:HB:1583:A:H61	24:HD:89:SER:CB	2.12	0.58
22:HB:1695:U:O2'	22:HB:1974:U:H4'	2.02	0.58
22:HB:2533:U:C6	22:HB:2535:C:N4	2.71	0.58
22:HB:2560:G:O3'	22:HB:2561:G:H3'	2.03	0.58
22:HB:2826:C:H5'	35:HO:61:HIS:HD1	1.24	0.58
22:HB:8:A:C6	22:HB:2869:U:N3	2.49	0.58
22:HB:3130:G:H1'	22:HB:3159:G:H22	1.67	0.58
22:HB:325:U:H2'	22:HB:326:A:C8	2.39	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:HB:57:G:C5'	41:HU:75:ARG:HH12	2.15	0.58
25:HE:107:THR:HB	25:HE:162:MET:HG3	1.85	0.58
22:HB:596:C:O5'	33:HM:28:LYS:O	2.21	0.58
22:HB:95:G:C2'	45:HY:45:GLN:CD	2.69	0.58
1:IA:1255:G:H4'	1:IA:1258:G:O2'	2.03	0.58
1:IA:452:A:OP1	16:IP:39:TYR:OH	2.20	0.58
1:IA:590:C:C5'	8:IH:30:ARG:CG	2.82	0.58
3:IC:173:VAL:HG22	3:IC:203:PHE:HB2	1.85	0.58
1:IA:1190:G:N7	3:IC:3:ASN:CB	2.67	0.58
4:ID:57:ARG:HD2	4:ID:57:ARG:N	2.17	0.58
12:IL:10:LEU:HB2	17:IQ:34:LYS:CE	2.21	0.58
16:IP:55:ARG:HE	16:IP:55:ARG:HA	1.67	0.58
22:JB:2064:U:OP1	47:J1:33:VAL:CG1	2.51	0.58
22:JB:2073:A:C2	47:J1:42:PHE:HD1	2.18	0.58
52:J6:19:ARG:HB3	52:J6:19:ARG:HH21	1.67	0.58
22:JB:1256:C:H5'	33:JM:17:LYS:NZ	2.18	0.58
22:JB:1629:G:H4'	50:J4:3:ARG:CG	2.34	0.58
22:JB:1760:G:H1'	22:JB:1941:C:H5'	1.84	0.58
22:JB:1791:C:O3'	24:JD:147:LEU:HD22	2.03	0.58
22:JB:1917:C:H2'	22:JB:1918:G:O4'	2.03	0.58
22:JB:2002:A:OP2	48:J2:8:LYS:HB3	2.02	0.58
22:JB:2195:C:OP1	47:J1:53:GLU:HG2	2.02	0.58
22:JB:2258:G:C4	22:JB:2306:A:N3	2.71	0.58
22:JB:215:G:H22	22:JB:236:C:H2'	1.68	0.58
22:JB:2560:G:O3'	22:JB:2561:G:H3'	2.03	0.58
22:JB:3179:C:OP2	53:J7:38:GLY:O	2.21	0.58
22:JB:325:U:H2'	22:JB:326:A:C8	2.39	0.58
22:JB:576:A:H5'	33:JM:40:ARG:NH2	2.18	0.58
22:JB:79:G:H4'	22:JB:356:A:N3	2.18	0.58
26:JF:28:HIS:HB2	33:JM:18:ARG:CD	2.33	0.58
31:JK:68:PRO:HD2	31:JK:70:PHE:CD2	2.39	0.58
32:JL:123:PHE:HA	32:JL:126:ILE:HD12	1.86	0.58
22:JB:2542:U:H5'	32:JL:40:GLY:O	2.01	0.58
22:JB:596:C:P	33:JM:28:LYS:NZ	2.76	0.58
23:JA:92:G:N2	34:JN:22:ALA:HA	2.09	0.58
38:JR:65:ILE:O	38:JR:76:TYR:HB2	2.03	0.58
39:JS:36:LYS:HA	39:JS:36:LYS:NZ	2.16	0.58
1:AA:1133:G:C2	1:AA:1134:G:H1'	2.37	0.58
1:AA:1233:G:H2'	1:AA:1234:C:C6	2.39	0.58
1:AA:1361:G:H2'	1:AA:2361:C:O4'	2.02	0.58
1:AA:334:C:H1'	1:AA:1435:G:H5'	1.83	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:610:G:O2'	1:AA:611:A:H5'	2.04	0.58
1:AA:753:A:H4'	1:AA:754:C:O5'	2.04	0.58
4:AD:162:LEU:HB3	4:AD:166:LYS:HG3	1.85	0.58
1:AA:1396:A:C5	5:AE:19:MET:CE	2.76	0.58
1:AA:877:C:C4'	8:AH:89:PRO:CG	2.80	0.58
1:AA:689:C:P	11:AK:51:LYS:HD2	2.37	0.58
1:AA:1225:A:P	13:AM:104:ARG:HB2	2.43	0.58
13:AM:83:ASP:O	13:AM:93:ARG:NH1	2.36	0.58
1:AA:973:G:C2'	14:AN:29:ARG:NH2	2.67	0.58
1:AA:255:G:P	17:AQ:17:LYS:HD3	2.42	0.58
50:B4:12:ARG:HD2	50:B4:16:HIS:HB3	1.85	0.58
22:BB:469:G:N7	50:B4:40:HIS:HD2	2.00	0.58
22:BB:1045:G:O2'	52:B6:18:ARG:CZ	2.51	0.58
53:B7:64:VAL:HG11	53:B7:111:LEU:HD12	1.86	0.58
22:BB:1020:A:H4'	38:BR:62:ILE:HB	1.85	0.58
22:BB:1043:A:C2'	52:B6:16:VAL:CG1	2.81	0.58
1:AA:1429:C:O2'	22:BB:1720:G:C5'	2.52	0.58
22:BB:2790:C:HO2'	48:B2:43:HIS:N	1.96	0.58
22:BB:638:A:H1'	22:BB:662:G:O4'	2.03	0.58
22:BB:742:G:OP1	24:BD:18:THR:CB	2.50	0.58
28:BH:65:HIS:HA	28:BH:68:THR:HG23	1.86	0.58
30:BJ:125:ASN:N	30:BJ:125:ASN:HD22	1.97	0.58
32:BL:123:PHE:HA	32:BL:126:ILE:HD12	1.86	0.58
33:BM:63:ARG:CD	51:B5:8:LYS:HD3	2.31	0.58
22:BB:504:G:N2	40:BT:74:SER:O	2.34	0.58
43:BW:134:LEU:HD12	43:BW:135:VAL:H	1.68	0.58
1:CA:1133:G:C2	1:CA:1134:G:H1'	2.37	0.58
1:CA:1163:C:H2'	1:CA:1164:G:C8	2.38	0.58
1:CA:1297:C:P	13:CM:13:LYS:HZ1	2.27	0.58
1:CA:610:G:O2'	1:CA:611:A:H5'	2.04	0.58
4:CD:92:VAL:O	4:CD:96:LEU:HD13	2.02	0.58
8:CH:6:ILE:HB	8:CH:85:ARG:HD2	1.85	0.58
11:CK:23:ALA:HB1	11:CK:88:GLY:N	2.19	0.58
53:D7:5:LYS:HA	53:D7:184:ILE:HD12	1.85	0.58
22:DB:1943:A:H2'	22:DB:1944:C:C6	2.37	0.58
22:DB:2646:C:C6	28:DH:109:TYR:CD1	2.91	0.58
22:DB:2700:U:C4	22:DB:2848:A:N6	2.72	0.58
22:DB:2745:A:O3'	22:DB:2746:G:H5'	2.00	0.58
22:DB:2767:C:C2	25:DE:61:LYS:HG2	2.37	0.58
22:DB:3148:G:H2'	22:DB:3149:G:O4'	2.03	0.58
22:DB:916:U:C5	43:DW:163:ASP:HB2	2.38	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:DB:1581:C:N4	24:DD:28:ARG:NH2	2.49	0.58
24:DD:85:ASP:H	24:DD:86:PRO:HD2	1.69	0.58
22:DB:2035:G:H4'	25:DE:143:GLN:H	1.69	0.58
28:DH:148:VAL:HG23	28:DH:149:ARG:HE	1.67	0.58
28:DH:65:HIS:HA	28:DH:68:THR:HG23	1.86	0.58
30:DJ:28:GLY:HA2	30:DJ:32:ALA:HB3	1.84	0.58
32:DL:76:ARG:HB3	32:DL:90:ARG:HH12	1.66	0.58
23:DA:117:G:HO2'	36:DP:53:ALA:CB	2.16	0.58
38:DR:94:VAL:CB	39:DS:10:LYS:HB3	2.32	0.58
43:DW:48:THR:CG2	43:DW:129:ARG:O	2.45	0.58
1:EA:1374:A:N3	7:EG:29:LYS:HE3	2.19	0.58
1:EA:1433:A:C4'	37:FQ:116:ARG:NH1	2.67	0.58
1:EA:1472:U:H2'	1:EA:1473:A:O4'	2.04	0.58
1:EA:621:A:H5'	4:ED:139:ARG:NE	1.99	0.58
1:EA:753:A:H4'	1:EA:754:C:O5'	2.04	0.58
4:ED:57:ARG:HD2	4:ED:57:ARG:N	2.17	0.58
5:EE:90:VAL:O	5:EE:120:THR:HG23	2.04	0.58
5:EE:18:ARG:HH22	5:EE:27:ARG:HB2	1.68	0.58
7:EG:16:LEU:CB	9:EI:41:VAL:HA	2.33	0.58
1:EA:529:G:H1	12:EL:51:ALA:HB3	1.68	0.58
50:F4:12:ARG:HD2	50:F4:16:HIS:HB3	1.86	0.58
23:FA:77:G:H21	43:FW:22:VAL:HG23	1.66	0.58
22:FB:1447:U:H3	22:FB:1576:G:H1	1.48	0.58
22:FB:2284:U:O4'	27:FG:152:MET:CA	2.51	0.58
22:FB:2293:G:O3'	27:FG:33:LYS:CE	2.44	0.58
22:FB:2733:A:H1'	52:F6:15:LYS:CE	2.33	0.58
22:FB:3148:G:H2'	22:FB:3149:G:O4'	2.03	0.58
22:FB:469:G:N7	50:F4:40:HIS:CB	2.61	0.58
22:FB:660:G:O2'	51:F5:17:THR:HG21	1.92	0.58
22:FB:968:C:OP2	34:FN:75:VAL:HG13	2.03	0.58
22:FB:1269:G:C2	26:FF:76:THR:CB	2.86	0.58
30:FJ:55:VAL:HG22	30:FJ:57:ILE:H	1.67	0.58
1:GA:1059:C:HO2'	10:GJ:52:GLY:CA	1.93	0.58
1:GA:1060:C:O2'	10:GJ:56:HIS:CB	2.51	0.58
1:GA:1134:G:H2'	1:GA:1135:U:H5'	1.85	0.58
1:GA:1309:G:H3'	13:GM:99:ARG:CZ	2.32	0.58
1:GA:227:G:H2'	1:GA:228:A:C8	2.38	0.58
1:GA:610:G:O2'	1:GA:611:A:H5'	2.04	0.58
3:GC:140:ARG:NH1	3:GC:140:ARG:HB2	2.18	0.58
1:GA:1375:A:P	7:GG:28:ASN:ND2	2.76	0.58
19:GS:40:ILE:HD13	19:GS:62:ILE:HB	1.84	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:GS:40:ILE:HD12	19:GS:62:ILE:HD13	1.85	0.58
22:HB:3178:C:HO2'	53:H7:39:ILE:HB	1.67	0.58
22:HB:7:G:N1	22:HB:2870:C:C2	2.43	0.58
22:HB:638:A:H1'	22:HB:662:G:C4'	2.34	0.58
22:HB:891:A:N3	22:HB:893:G:C4	2.70	0.58
28:HH:65:HIS:HA	28:HH:68:THR:HG23	1.86	0.58
35:HO:5:LYS:NZ	35:HO:6:ALA:HB2	2.17	0.58
22:HB:1202:U:H5''	39:HS:81:ARG:NH1	2.18	0.58
44:HX:49:GLN:NE2	44:HX:49:GLN:H	2.02	0.58
46:HZ:5:LEU:HD13	46:HZ:31:SER:HB3	1.85	0.58
1:IA:1176:A:N6	1:IA:1181:G:H1	1.99	0.58
1:IA:1463:C:OP2	37:JQ:116:ARG:CZ	2.51	0.58
11:IK:86:GLY:HA2	11:IK:112:THR:HG23	1.86	0.58
1:IA:718:G:O6	18:IR:81:PHE:CE2	2.52	0.58
20:IT:39:LYS:HB3	20:IT:43:LEU:HD12	1.85	0.58
22:JB:3179:C:P	53:J7:38:GLY:O	2.62	0.58
53:J7:81:PRO:HG3	53:J7:152:LYS:HZ2	1.68	0.58
22:JB:1080:A:H62	22:JB:1084:A:N6	2.01	0.58
22:JB:2261:G:O5'	49:J3:3:LYS:NZ	2.36	0.58
22:JB:2353:G:H2'	22:JB:2354:G:O4'	2.02	0.58
22:JB:2372:A:P	51:J5:29:LYS:HA	2.43	0.58
22:JB:2525:U:C1'	22:JB:2544:A:C2	2.82	0.58
22:JB:2850:U:N3	37:JQ:14:ARG:CZ	2.66	0.58
22:JB:338:G:H2'	42:JV:77:HIS:NE2	2.11	0.58
22:JB:499:G:N2	22:JB:501:G:H3'	2.18	0.58
22:JB:61:U:O2	22:JB:89:A:C2	2.56	0.58
22:JB:632:A:H2'	22:JB:633:G:O4'	2.02	0.58
22:JB:846:A:C2	22:JB:2337:A:C6	2.91	0.58
22:JB:954:U:O5'	33:JM:39:SER:OG	2.22	0.58
24:JD:227:ASN:O	24:JD:228:PRO:C	2.41	0.58
28:JH:65:HIS:HA	28:JH:68:THR:HG23	1.86	0.58
22:JB:2393:G:C1'	33:JM:66:ASN:HD21	2.17	0.58
34:JN:103:VAL:H	34:JN:104:MET:CE	2.16	0.58
34:JN:110:VAL:O	34:JN:113:GLU:HG2	2.03	0.58
34:JN:76:THR:HA	34:JN:89:GLY:O	2.04	0.58
34:JN:76:THR:N	34:JN:90:ALA:HA	2.19	0.58
1:AA:178:C:N3	1:AA:195:A:H5'	2.18	0.58
1:AA:309:G:H21	1:AA:607:A:H62	1.51	0.58
1:AA:780:A:O3'	1:AA:1523:G:C5'	2.38	0.58
1:AA:875:C:C1'	8:AH:11:THR:HG21	2.33	0.58
2:AB:71:VAL:HB	2:AB:164:VAL:HA	1.86	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AB:73:THR:HG22	2:AB:96:ARG:NH1	2.18	0.58
4:AD:57:ARG:HD2	4:AD:57:ARG:N	2.17	0.58
5:AE:132:ALA:O	5:AE:136:MET:HG2	2.04	0.58
6:AF:10:LEU:HB3	6:AF:85:VAL:HA	1.86	0.58
1:AA:1382:C:C4'	7:AG:79:ARG:CD	2.80	0.58
1:AA:1342:C:H1'	9:AI:124:GLN:HA	1.84	0.58
1:AA:718:G:C2'	11:AK:116:HIS:HD1	1.99	0.58
16:AP:71:ARG:HA	16:AP:74:LEU:HG	1.84	0.58
20:AT:98:PRO:HG3	1:GA:180:U:O2'	2.03	0.58
22:BB:226:C:P	47:B1:28:ARG:HH11	2.23	0.58
53:B7:5:LYS:HA	53:B7:184:ILE:HD12	1.85	0.58
22:BB:1236:G:C6	39:BS:73:LYS:HE2	2.38	0.58
22:BB:1437:A:C6	22:BB:1439:G:N2	2.71	0.58
22:BB:1447:U:H3	22:BB:1576:G:H1	1.48	0.58
22:BB:2422:C:H5''	26:BF:62:LYS:HZ2	1.68	0.58
22:BB:2503:G:H2'	22:BB:2721:A:H2	1.67	0.58
22:BB:2814:G:O3'	35:BO:50:GLN:CB	2.51	0.58
22:BB:536:A:C2	22:BB:2027:C:H1'	2.38	0.58
22:BB:575:U:O4	39:BS:79:GLN:C	2.42	0.58
22:BB:926:C:H2'	22:BB:927:C:H5'	1.85	0.58
28:BH:148:VAL:HG23	28:BH:149:ARG:HE	1.67	0.58
28:BH:69:ARG:HH21	28:BH:72:VAL:HG11	1.68	0.58
34:BN:110:VAL:O	34:BN:113:GLU:HG2	2.03	0.58
22:BB:1236:G:O6	39:BS:72:ARG:C	2.42	0.58
40:BT:106:LEU:HG	40:BT:117:ILE:HG12	1.86	0.58
22:BB:319:G:OP2	40:BT:12:LYS:CB	2.51	0.58
1:CA:125:U:H2'	1:CA:126:G:C8	2.38	0.58
1:CA:1394:A:N7	1:CA:1501:C:H4'	2.17	0.58
1:CA:376:G:H2'	1:CA:377:G:C8	2.38	0.58
1:CA:523:A:N1	12:CL:90:VAL:CA	2.65	0.58
1:CA:978:A:H1'	1:CA:1321:C:H42	1.69	0.58
3:CC:37:GLN:HA	3:CC:40:ARG:HB2	1.86	0.58
1:CA:1350:A:H1'	7:CG:33:ASP:HA	1.86	0.58
14:CN:33:VAL:HA	14:CN:40:CYS:HA	1.84	0.58
14:CN:33:VAL:HG12	14:CN:40:CYS:HB3	1.84	0.58
50:D4:12:ARG:HD2	50:D4:16:HIS:HB3	1.86	0.58
22:DB:1150:C:O2'	22:DB:1151:U:H5'	2.03	0.58
22:DB:1289:A:H2	35:DO:23:ALA:C	2.06	0.58
22:DB:425:A:C6	22:DB:2391:A:H1'	2.39	0.58
22:DB:548:G:O3'	31:DK:32:TYR:HE2	1.83	0.58
22:DB:1240:G:C5'	38:DR:16:LYS:CD	2.82	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:DT:106:LEU:HG	40:DT:117:ILE:HG12	1.86	0.58
42:DV:53:VAL:HG12	42:DV:54:ILE:H	1.67	0.58
1:EA:376:G:H2'	1:EA:377:G:C8	2.38	0.58
1:EA:701:C:H4'	1:EA:702:A:OP2	2.02	0.58
2:EB:230:VAL:HG12	2:EB:231:GLU:H	1.68	0.58
1:EA:438:G:C5'	4:ED:125:HIS:CD2	2.86	0.58
3:EC:167:TRP:HE1	5:EE:25:ARG:NH2	2.01	0.58
11:EK:86:GLY:HA2	11:EK:112:THR:HG23	1.85	0.58
19:ES:40:ILE:HD12	19:ES:62:ILE:HD13	1.84	0.58
1:EA:1320:C:O2	19:ES:72:GLY:HA3	2.02	0.58
23:FA:10:U:H1'	36:FP:49:GLN:CB	2.34	0.58
23:FA:44:C:C5'	27:FG:66:ILE:HD11	2.32	0.58
22:FB:124:A:H4'	50:F4:19:ARG:NE	2.12	0.58
1:EA:1483:A:H1'	22:FB:1930:C:O2	2.03	0.58
22:FB:536:A:C2	22:FB:2027:C:H1'	2.38	0.58
22:FB:2241:U:C4'	22:FB:2307:A:N3	2.67	0.58
22:FB:2560:G:O3'	22:FB:2561:G:H3'	2.03	0.58
22:FB:2715:C:O2	22:FB:2749:A:N3	2.36	0.58
22:FB:499:G:N2	22:FB:501:G:H3'	2.18	0.58
24:FD:228:PRO:O	24:FD:229:VAL:HG23	2.02	0.58
27:FG:108:LEU:N	27:FG:109:PRO:HD2	2.18	0.58
27:FG:84:PRO:HG2	27:FG:85:VAL:H	1.69	0.58
38:FR:46:GLU:CB	39:FS:75:LYS:HG2	2.27	0.58
22:FB:25:U:C4'	40:FT:100:GLY:C	2.71	0.58
40:FT:106:LEU:HG	40:FT:117:ILE:HG12	1.86	0.58
1:GA:1196:U:C5	1:GA:1397:C:H5	2.18	0.58
1:GA:1229:A:N3	1:GA:1229:A:H2'	2.19	0.58
1:GA:1251:A:H5'	9:GI:12:GLU:CD	2.24	0.58
1:GA:1308:U:H4'	13:GM:110:ARG:HH22	1.69	0.58
1:GA:1397:C:H4'	1:GA:1398:A:O5'	2.02	0.58
5:GE:78:HIS:CG	8:GH:138:TRP:HZ3	2.21	0.58
1:GA:932:C:OP1	7:GG:4:ARG:N	2.36	0.58
5:GE:154:GLY:OXT	8:GH:67:PRO:CD	2.51	0.58
9:GI:10:ARG:HG2	9:GI:75:ASP:HB2	1.85	0.58
10:GJ:65:LEU:CA	14:GN:56:VAL:CA	2.59	0.58
11:GK:86:GLY:HA2	11:GK:112:THR:HG23	1.86	0.58
20:GT:39:LYS:HB3	20:GT:43:LEU:HD12	1.85	0.58
1:GA:262:A:H5'	20:GT:74:LYS:HZ2	1.67	0.58
22:HB:2184:C:P	47:H1:43:TRP:CE3	2.96	0.58
22:HB:696:U:H5''	50:H4:16:HIS:CE1	2.38	0.58
50:H4:12:ARG:HD2	50:H4:16:HIS:HB3	1.86	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
51:H5:24:ALA:O	51:H5:46:LYS:HA	2.02	0.58
52:H6:19:ARG:HB3	52:H6:19:ARG:HH21	1.68	0.58
53:H7:111:LEU:HD13	53:H7:148:ILE:HG23	1.85	0.58
22:HB:1861:G:N2	53:H7:45:ASP:CG	2.57	0.58
22:HB:1368:G:H2'	22:HB:1369:G:H8	1.69	0.58
22:HB:1917:C:H2'	22:HB:1918:G:O4'	2.03	0.58
22:HB:1964:A:OP2	22:HB:1964:A:H3'	2.03	0.58
22:HB:536:A:C2	22:HB:2027:C:H1'	2.38	0.58
22:HB:2235:G:C5'	44:HX:5:LYS:HB2	2.33	0.58
22:HB:2239:C:O2'	22:HB:2367:A:H4'	2.02	0.58
22:HB:2426:G:H4'	22:HB:2427:A:OP2	2.03	0.58
22:HB:2807:U:O2'	22:HB:2808:U:H5''	2.03	0.58
22:HB:499:G:N2	22:HB:501:G:H3'	2.19	0.58
22:HB:543:G:H21	38:HR:45:TYR:HE1	1.50	0.58
22:HB:679:C:OP1	33:HM:50:GLU:HA	2.03	0.58
24:HD:157:ARG:HB3	24:HD:202:LYS:HZ2	1.69	0.58
30:HJ:28:GLY:HA2	30:HJ:32:ALA:HB3	1.85	0.58
30:HJ:55:VAL:HG22	30:HJ:57:ILE:H	1.67	0.58
33:HM:101:ARG:H	33:HM:101:ARG:HD2	1.68	0.58
34:HN:9:LYS:HD3	34:HN:93:TYR:HE2	1.69	0.58
22:HB:1668:G:OP1	35:HO:11:ASN:ND2	2.24	0.58
22:HB:514:G:P	40:HT:18:VAL:HG11	2.43	0.58
42:HV:47:VAL:O	42:HV:48:VAL:HG12	2.04	0.58
1:IA:1206:G:C5'	3:IC:192:THR:C	2.69	0.58
1:IA:1229:A:N3	1:IA:1229:A:H2'	2.19	0.58
1:IA:927:G:O2'	1:IA:1532:U:O2	2.22	0.58
1:IA:227:G:H2'	1:IA:228:A:C8	2.38	0.58
1:IA:315:A:H5''	1:IA:317:G:OP2	2.03	0.58
11:IK:62:GLN:HB2	11:IK:93:GLN:HB3	1.84	0.58
14:IN:15:LYS:CD	14:IN:16:PHE:H	2.13	0.58
1:IA:720:C:O2	18:IR:50:ILE:CD1	2.52	0.58
1:IA:835:U:OP1	18:IR:64:ARG:HD2	2.00	0.58
47:J1:48:ARG:HH21	47:J1:49:PHE:HB3	1.64	0.58
22:JB:2362:G:H22	49:J3:27:ASN:HB3	1.69	0.58
22:JB:2517:C:C1'	52:J6:2:LYS:HB3	2.12	0.58
22:JB:203:G:H2'	22:JB:204:A:O4'	2.03	0.58
22:JB:2241:U:C6	44:JX:15:ASP:CG	2.77	0.58
22:JB:2426:G:H4'	22:JB:2427:A:OP2	2.03	0.58
22:JB:2528:G:N1	22:JB:2539:C:C4	2.72	0.58
22:JB:2701:A:C5	22:JB:2848:A:C5	2.92	0.58
22:JB:1727:C:C5'	22:JB:2833:C:O2	2.52	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:JB:3876:A:H3'	53:J7:43:LYS:HD3	1.85	0.58
22:JB:638:A:H1'	22:JB:662:G:O4'	2.03	0.58
22:JB:999:A:OP2	46:JZ:8:SER:HA	2.04	0.58
24:JD:72:LYS:HD3	24:JD:119:ALA:HB1	1.85	0.58
24:JD:85:ASP:H	24:JD:86:PRO:HD2	1.68	0.58
22:JB:573:C:C4'	38:JR:40:LEU:HG	2.28	0.58
38:JR:88:ILE:CG2	39:JS:40:VAL:HG22	2.29	0.58
22:JB:1200:G:C1'	39:JS:83:ARG:HH21	2.10	0.58
41:JU:88:ILE:HG12	41:JU:90:ALA:N	2.14	0.58
42:JV:53:VAL:HG12	42:JV:54:ILE:H	1.67	0.58
44:JX:31:VAL:HG12	44:JX:32:LYS:HG2	1.86	0.58
44:JX:44:LYS:HA	44:JX:64:ASP:HA	1.85	0.58
1:AA:1239:A:H2'	7:AG:115:ARG:HG3	1.85	0.58
1:AA:125:U:H2'	1:AA:126:G:C8	2.38	0.58
1:AA:1392:G:O4'	1:AA:1531:A:C4'	2.52	0.58
1:AA:607:A:H2'	1:AA:608:A:N7	2.18	0.58
3:AC:37:GLN:HA	3:AC:40:ARG:HB2	1.86	0.58
1:AA:1374:A:O4'	7:AG:31:MET:HE1	2.03	0.58
9:AI:11:LYS:H	9:AI:104:ARG:HE	1.50	0.58
13:AM:31:LYS:HG3	13:AM:34:LEU:HD12	1.84	0.58
14:AN:33:VAL:HA	14:AN:40:CYS:HA	1.84	0.58
23:BA:92:G:H1	34:BN:39:GLU:CD	2.02	0.58
22:BB:1012:A:H61	22:BB:1165:G:H1'	1.69	0.58
22:BB:2560:G:O3'	22:BB:2561:G:H3'	2.03	0.58
22:BB:3124:G:O2'	53:B7:208:THR:HG23	2.04	0.58
22:BB:340:G:N2	22:BB:511:A:C8	2.71	0.58
24:BD:72:LYS:HD3	24:BD:119:ALA:HB1	1.85	0.58
25:BE:117:MET:HG3	25:BE:123:ALA:HB2	1.83	0.58
22:BB:686:C:C2'	26:BF:68:ARG:NH1	2.66	0.58
22:BB:2025:A:N7	31:BK:142:ARG:NH2	2.50	0.58
31:BK:68:PRO:HD2	31:BK:70:PHE:CD2	2.39	0.58
22:BB:968:C:OP1	34:BN:76:THR:O	2.20	0.58
38:BR:93:LYS:C	38:BR:95:LEU:H	2.06	0.58
41:BU:42:ILE:HD12	41:BU:42:ILE:H	1.67	0.58
42:BV:47:VAL:O	42:BV:48:VAL:HG12	2.03	0.58
43:BW:151:ASP:O	43:BW:154:LEU:HB2	2.03	0.58
46:BZ:32:ARG:HG2	46:BZ:33:GLU:H	1.67	0.58
1:CA:1233:G:H2'	1:CA:1234:C:C6	2.39	0.58
1:CA:581:G:N3	17:CQ:105:ALA:HB2	2.19	0.58
13:CM:97:PRO:CD	13:CM:110:ARG:HD3	2.34	0.58
16:CP:8:ARG:HH21	16:CP:15:PRO:HB3	1.69	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:DB:2733:A:H1'	52:D6:15:LYS:HZ1	1.69	0.58
22:DB:1135:C:O2	52:D6:5:SER:CA	2.51	0.58
22:DB:1861:G:O6	53:D7:199:ASN:C	2.42	0.58
53:D7:17:SER:OG	53:D7:20:TYR:HB2	2.02	0.58
22:DB:1263:G:H1'	38:DR:13:ARG:CZ	2.28	0.58
22:DB:1797:C:C2'	24:DD:49:ILE:HG13	2.34	0.58
22:DB:2284:U:C4'	27:DG:152:MET:H	2.16	0.58
22:DB:325:U:H2'	22:DB:326:A:C8	2.39	0.58
22:DB:404:A:H62	22:DB:424:G:H21	1.51	0.58
29:DI:8:PRO:HB3	29:DI:13:LYS:HB2	1.83	0.58
31:DK:74:MET:HE2	31:DK:75:ILE:HG23	1.85	0.58
32:DL:123:PHE:HA	32:DL:126:ILE:HD12	1.86	0.58
22:DB:1666:G:H22	35:DO:106:ASP:HB2	1.60	0.58
22:DB:1263:G:H1'	38:DR:13:ARG:HH22	0.55	0.58
44:DX:44:LYS:HA	44:DX:64:ASP:HA	1.86	0.58
1:EA:1455:G:C2'	1:EA:1455:G:N3	2.66	0.58
1:EA:527:G:H21	1:EA:535:A:H2	1.51	0.58
8:EH:43:GLY:HA3	8:EH:79:VAL:HG11	1.86	0.58
1:EA:537:G:O5'	12:EL:113:ARG:CZ	2.50	0.58
1:EA:521:G:C5'	12:EL:71:PRO:HA	2.26	0.58
13:EM:22:ILE:HD12	13:EM:25:ILE:HD12	1.86	0.58
16:EP:53:VAL:HB	16:EP:56:ALA:HB3	1.84	0.58
22:FB:15:G:P	48:F2:21:SER:HB2	2.44	0.58
51:F5:39:ASP:N	51:F5:41:ILE:HG22	2.19	0.58
53:F7:5:LYS:HA	53:F7:184:ILE:HD12	1.85	0.58
23:FA:117:G:O3'	36:FP:52:ALA:CA	2.52	0.58
22:FB:1149:G:P	31:FK:55:ALA:CB	2.92	0.58
22:FB:1829:C:H5'	22:FB:1911:A:O5'	2.03	0.58
22:FB:2520:A:H1'	22:FB:2745:A:C2	2.37	0.58
22:FB:493:A:H1'	22:FB:508:G:H22	1.69	0.58
22:FB:19:C:H5'	22:FB:563:U:OP1	2.04	0.58
22:FB:638:A:H1'	22:FB:662:G:O4'	2.03	0.58
22:FB:777:A:O4'	24:FD:210:GLY:CA	2.51	0.58
22:FB:871:U:H2'	22:FB:2247:A:C2'	2.33	0.58
22:FB:879:A:C4	22:FB:2298:U:O4	2.57	0.58
31:FK:68:PRO:HD2	31:FK:70:PHE:CD2	2.38	0.58
22:FB:1746:A:C4'	37:FQ:126:LYS:O	2.51	0.58
38:FR:93:LYS:C	38:FR:95:LEU:H	2.07	0.58
40:FT:26:ALA:HB3	40:FT:126:ILE:HB	1.85	0.58
1:GA:125:U:H2'	1:GA:126:G:C8	2.38	0.58
1:GA:132:C:H4'	20:GT:74:LYS:CE	2.27	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:GA:1420:C:H2'	1:GA:1421:G:H8	1.67	0.58
1:GA:607:A:H2'	1:GA:608:A:N7	2.18	0.58
1:GA:826:C:C3'	8:GH:12:ARG:HD2	2.34	0.58
7:GG:108:ALA:HA	7:GG:111:ARG:HD2	1.85	0.58
22:HB:1041:G:C4	52:H6:6:SER:CB	2.71	0.58
22:HB:1136:G:H5'	52:H6:4:ARG:HB3	1.86	0.58
22:HB:1148:G:H4'	31:HK:133:GLY:C	2.23	0.58
22:HB:1263:G:C4'	38:HR:6:THR:CG2	2.68	0.58
22:HB:1453:A:N9	22:HB:1454:U:C5	2.69	0.58
1:GA:1428:A:C4'	22:HB:1704:G:H4'	2.34	0.58
22:HB:922:A:H1'	22:HB:2244:C:H5'	1.84	0.58
24:HD:72:LYS:HD3	24:HD:119:ALA:HB1	1.85	0.58
24:HD:227:ASN:O	24:HD:228:PRO:C	2.41	0.58
26:HF:176:ASN:OD1	26:HF:178:TYR:HB3	2.03	0.58
22:HB:811:G:OP2	26:HF:56:ARG:CD	2.52	0.58
28:HH:78:GLY:HA2	28:HH:83:TYR:HE2	1.68	0.58
32:HL:99:ILE:HG12	32:HL:105:PRO:HA	1.86	0.58
34:HN:76:THR:N	34:HN:90:ALA:HA	2.19	0.58
22:HB:1265:G:H1	38:HR:36:PHE:HD1	1.46	0.58
38:HR:17:VAL:CG2	39:HS:75:LYS:HZ1	2.00	0.58
1:IA:864:A:O2'	1:IA:1079:G:N1	2.37	0.58
1:IA:1158:C:HO2'	2:IB:133:LYS:HD2	1.67	0.58
1:IA:1397:C:H4'	1:IA:1398:A:O5'	2.02	0.58
1:IA:607:A:H2'	1:IA:608:A:N7	2.18	0.58
7:IG:108:ALA:HA	7:IG:111:ARG:HD2	1.85	0.58
8:IH:14:ARG:NH2	8:IH:83:ILE:HG23	2.19	0.58
9:II:10:ARG:HG2	9:II:75:ASP:HB2	1.85	0.58
11:IK:23:ALA:HB1	11:IK:88:GLY:N	2.19	0.58
19:IS:40:ILE:HD12	19:IS:62:ILE:HD13	1.85	0.58
19:IS:40:ILE:HD13	19:IS:62:ILE:HB	1.84	0.58
22:JB:222:G:P	51:J5:11:LYS:NZ	2.76	0.58
53:J7:111:LEU:HD13	53:J7:148:ILE:HG23	1.86	0.58
22:JB:1150:C:O2'	22:JB:1151:U:H5'	2.03	0.58
22:JB:1486:A:N6	22:JB:1536:G:C6	2.71	0.58
22:JB:1790:G:H22	24:JD:177:LEU:CD1	2.16	0.58
22:JB:1807:A:H5'	24:JD:157:ARG:NH1	2.18	0.58
22:JB:1876:C:H2'	22:JB:1877:C:O4'	2.03	0.58
22:JB:541:C:OP1	22:JB:2004:U:C4	2.56	0.58
22:JB:3124:G:C5'	53:J7:61:ALA:O	2.52	0.58
22:JB:536:A:C2	22:JB:2027:C:H1'	2.38	0.58
22:JB:638:A:H1'	22:JB:662:G:C4'	2.34	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:JB:63:A:H1'	41:JU:62:ARG:CG	2.24	0.58
22:JB:644:A:H1'	22:JB:2382:C:HO2'	1.67	0.58
22:JB:687:G:H5'	26:JF:70:GLY:C	2.24	0.58
24:JD:55:GLY:HA2	24:JD:218:LYS:H	1.68	0.58
28:JH:69:ARG:HH21	28:JH:72:VAL:HG11	1.68	0.58
31:JK:126:VAL:HG13	31:JK:127:ILE:HG13	1.86	0.58
32:JL:2:ILE:HG22	32:JL:44:TYR:HB2	1.86	0.58
39:JS:72:ARG:HG3	39:JS:73:LYS:H	1.68	0.58
40:JT:36:ARG:HH21	48:J2:16:ARG:NH1	2.01	0.58
1:AA:1197:G:OP1	1:AA:1197:G:H3'	2.03	0.58
1:AA:19:C:OP1	5:AE:130:ASN:HB2	2.04	0.58
1:AA:265:G:H21	17:AQ:64:PRO:HB3	1.69	0.58
1:AA:668:G:C1'	15:AO:45:VAL:CG1	2.56	0.58
1:AA:780:A:O2'	1:AA:1523:G:H5'	2.04	0.58
1:AA:939:G:HO2'	7:AG:29:LYS:CD	2.05	0.58
1:AA:952:U:H3	13:AM:125:ARG:HB3	1.69	0.58
2:AB:115:LEU:HD12	2:AB:142:LEU:HD22	1.85	0.58
1:AA:876:G:H1'	8:AH:4:ASP:HB3	1.85	0.58
13:AM:88:ARG:CB	13:AM:92:HIS:HD1	2.15	0.58
14:AN:33:VAL:HG12	14:AN:40:CYS:HB3	1.84	0.58
10:AJ:49:VAL:HG12	14:AN:45:ARG:HG3	0.59	0.58
1:AA:668:G:P	15:AO:48:LYS:CB	2.92	0.58
52:B6:19:ARG:HB3	52:B6:19:ARG:HH21	1.68	0.58
22:BB:147:G:OP1	47:B1:49:PHE:HE1	1.82	0.58
22:BB:1436:G:N2	22:BB:1508:G:C2	2.72	0.58
22:BB:1943:A:H2'	22:BB:1944:C:C6	2.38	0.58
22:BB:203:G:H2'	22:BB:204:A:O4'	2.03	0.58
22:BB:2426:G:H4'	22:BB:2427:A:OP2	2.03	0.58
22:BB:1141:U:OP2	22:BB:2494:C:O2	2.22	0.58
22:BB:2505:G:C5'	22:BB:2722:C:OP1	2.52	0.58
22:BB:2804:G:H21	22:BB:2811:G:H1'	1.66	0.58
22:BB:2671:C:C2'	22:BB:2822:U:H1'	2.32	0.58
22:BB:3124:G:N2	53:B7:209:MSE:SE	2.87	0.58
22:BB:499:G:N2	22:BB:501:G:H3'	2.19	0.58
22:BB:2192:U:C6	24:BD:39:LYS:NZ	2.71	0.58
22:BB:1675:C:OP1	25:BE:131:SER:OG	2.21	0.58
22:BB:1674:C:P	25:BE:134:TRP:CG	2.96	0.58
25:BE:51:TYR:CE1	37:BQ:5:ILE:HD11	2.37	0.58
37:BQ:64:LYS:HA	37:BQ:86:PRO:HG2	1.84	0.58
22:BB:887:G:N9	43:BW:167:THR:HA	2.14	0.58
46:BZ:53:VAL:HG13	46:BZ:54:GLN:H	1.67	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:1077:G:N1	5:CE:45:PHE:HE2	1.78	0.58
1:CA:402:G:O3'	4:CD:135:LEU:HD11	2.03	0.58
1:CA:59:A:H5''	1:CA:60:A:H5''	1.85	0.58
1:CA:727:G:H1'	1:CA:731:G:H1	1.68	0.58
8:CH:43:GLY:HA3	8:CH:79:VAL:HG11	1.86	0.58
3:CC:23:TYR:CD1	10:CJ:10:GLY:HA2	2.39	0.58
22:DB:931:G:H4'	23:DA:83:C:O4'	2.04	0.58
22:DB:1163:C:H4'	38:DR:80:ILE:H	1.68	0.58
22:DB:1173:G:C1'	39:DS:22:VAL:HG11	2.25	0.58
22:DB:1368:G:H2'	22:DB:1369:G:H8	1.69	0.58
22:DB:1999:U:H4'	48:D2:6:VAL:CG1	2.29	0.58
22:DB:3197:U:HO3'	22:DB:2181:A:P	2.24	0.58
22:DB:2628:C:H4'	32:DL:29:ILE:CG1	2.21	0.58
22:DB:499:G:N2	22:DB:501:G:H3'	2.19	0.58
22:DB:503:G:H4'	40:DT:29:LYS:CD	2.30	0.58
22:DB:493:A:H1'	22:DB:508:G:H22	1.69	0.58
25:DE:152:LYS:HB2	31:DK:106:TYR:CE2	2.39	0.58
32:DL:99:ILE:HG12	32:DL:105:PRO:HA	1.86	0.58
33:DM:122:VAL:HG22	33:DM:124:ALA:H	1.68	0.58
22:DB:613:A:N6	33:DM:97:ARG:HG3	2.12	0.58
37:DQ:33:VAL:HG22	37:DQ:96:ARG:O	2.04	0.58
22:DB:869:C:C4'	44:DX:56:ASP:CG	2.43	0.58
1:EA:111:G:H5'	16:EP:27:LYS:CG	2.32	0.58
1:EA:59:A:H5''	1:EA:60:A:H5''	1.85	0.58
6:EF:45:LEU:HD12	6:EF:59:TYR:HD1	1.68	0.58
6:EF:51:PRO:HB3	6:EF:56:PRO:HB3	1.86	0.58
10:EJ:21:GLN:HB3	10:EJ:25:GLU:HG3	1.86	0.58
13:EM:31:LYS:HG3	13:EM:34:LEU:HD12	1.84	0.58
1:EA:1320:C:C1'	19:ES:72:GLY:C	2.55	0.58
1:EA:1225:A:O5'	19:ES:78:ARG:NH2	2.37	0.58
22:FB:2325:A:H2'	49:F3:25:THR:CG2	2.32	0.58
22:FB:123:A:P	50:F4:23:LYS:HZ3	2.27	0.58
53:F7:64:VAL:HG11	53:F7:111:LEU:HD12	1.86	0.58
23:FA:77:G:N2	23:FA:105:G:H22	2.00	0.58
23:FA:51:G:OP2	36:FP:97:HIS:HB3	2.03	0.58
22:FB:1012:A:H61	22:FB:1165:G:H1'	1.69	0.58
22:FB:1049:C:C4	22:FB:1129:A:C6	2.92	0.58
22:FB:203:G:H2'	22:FB:204:A:O4'	2.03	0.58
22:FB:2362:G:H1	49:F3:27:ASN:HA	1.68	0.58
22:FB:2261:G:H22	22:FB:2404:A:C5'	2.16	0.58
22:FB:2713:A:N6	25:FE:203:LYS:CB	2.61	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:FB:325:U:H2'	22:FB:326:A:C8	2.39	0.58
22:FB:404:A:H62	22:FB:424:G:H21	1.51	0.58
22:FB:644:A:N3	22:FB:2382:C:O3'	2.37	0.58
24:FD:85:ASP:H	24:FD:86:PRO:HD2	1.68	0.58
22:FB:538:A:C8	31:FK:142:ARG:NH1	2.72	0.58
34:FN:103:VAL:H	34:FN:104:MET:CE	2.16	0.58
39:FS:21:ARG:HE	39:FS:22:VAL:H	1.49	0.58
22:FB:1630:A:N6	40:FT:109:ARG:N	2.43	0.58
42:FV:47:VAL:O	42:FV:48:VAL:HG12	2.04	0.58
43:FW:88:TYR:N	43:FW:91:PRO:N	2.51	0.58
22:FB:2364:C:H1'	44:FX:37:LEU:HD21	1.84	0.58
22:FB:863:C:O2'	46:FZ:43:MET:CG	2.50	0.58
1:GA:1163:C:H2'	1:GA:1164:G:C8	2.38	0.58
1:GA:223:U:H5'	20:GT:68:LYS:HA	1.86	0.58
1:GA:677:U:C2	11:GK:119:CYS:SG	2.97	0.58
7:GG:150:ALA:O	11:GK:59:TYR:CZ	2.57	0.58
9:GI:116:LYS:HZ3	9:GI:121:ARG:C	2.07	0.58
11:GK:23:ALA:HB1	11:GK:88:GLY:N	2.19	0.58
10:GJ:63:PHE:HZ	14:GN:49:HIS:H	1.49	0.58
22:HB:2062:U:C2'	47:H1:32:HIS:ND1	2.66	0.58
22:HB:1135:C:H2'	52:H6:5:SER:HA	1.85	0.58
22:HB:3875:A:HO2'	53:H7:42:LYS:HG3	1.63	0.58
22:HB:1453:A:C4	22:HB:1454:U:C5	2.91	0.58
22:HB:203:G:H2'	22:HB:204:A:O4'	2.03	0.58
22:HB:2606:G:O4'	22:HB:2757:G:N2	2.37	0.58
22:HB:3876:A:N6	53:H7:45:ASP:N	2.51	0.58
22:HB:597:U:C2'	26:HF:84:PHE:CE2	2.84	0.58
22:HB:918:A:H5'	43:HW:118:HIS:NE2	2.13	0.58
25:HE:111:LYS:HD3	25:HE:111:LYS:H	1.66	0.58
22:HB:1081:A:C1'	30:HJ:11:GLN:OE1	2.51	0.58
31:HK:126:VAL:HG22	31:HK:127:ILE:N	2.16	0.58
32:HL:113:PRO:HD3	37:HQ:75:GLU:CG	2.20	0.58
23:HA:93:G:C4'	34:HN:23:LYS:HZ2	2.16	0.58
34:HN:62:GLY:C	43:HW:110:GLY:HA2	2.24	0.58
1:IA:1100:C:C2'	2:IB:98:LEU:HD21	2.34	0.58
1:IA:373:A:N6	1:IA:482:A:H62	2.02	0.58
1:IA:589:C:C4'	8:IH:30:ARG:CB	2.82	0.58
1:IA:967:C:H6	9:II:128:ARG:OXT	1.84	0.58
1:IA:1055:A:HO2'	3:IC:161:GLU:HA	1.68	0.58
5:IE:90:VAL:O	5:IE:120:THR:HG23	2.03	0.58
1:IA:670:G:N2	6:IF:77:ARG:NH1	2.27	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:IF:80:ARG:HA	6:IF:85:VAL:HB	1.86	0.58
10:IJ:63:PHE:O	14:IN:59:ALA:CB	2.52	0.58
1:IA:1228:C:C4	13:IM:104:ARG:CG	2.85	0.58
13:IM:70:LEU:HD23	13:IM:73:GLU:HB3	1.86	0.58
1:IA:958:A:C1'	19:IS:55:LYS:CD	2.82	0.58
1:IA:191:G:O2'	20:IT:102:GLY:O	2.13	0.58
22:JB:2210:C:P	47:J1:39:VAL:HA	2.43	0.58
53:J7:105:ARG:HG3	53:J7:131:ARG:HE	1.67	0.58
22:JB:1368:G:H2'	22:JB:1369:G:H8	1.69	0.58
22:JB:1473:U:H5'	22:JB:1474:A:H5'	1.85	0.58
22:JB:205:A:H5'	33:JM:144:GLU:CG	2.06	0.58
22:JB:2240:C:H5'	22:JB:2367:A:O5'	2.04	0.58
22:JB:2815:C:O2'	35:JO:91:PRO:CB	2.52	0.58
22:JB:3130:G:H1'	22:JB:3159:G:H22	1.67	0.58
22:JB:3197:U:C5	22:JB:2203:G:O6	2.43	0.58
22:JB:493:A:H1'	22:JB:508:G:H22	1.69	0.58
22:JB:93:A:C6	45:JY:41:HIS:CE1	2.91	0.58
24:JD:144:ALA:HB2	24:JD:192:THR:HG22	1.84	0.58
22:JB:1581:C:H5	24:JD:28:ARG:NH1	2.01	0.58
27:JG:33:LYS:NZ	27:JG:157:VAL:HG21	2.19	0.58
46:JZ:32:ARG:HG2	46:JZ:33:GLU:H	1.68	0.58
1:AA:262:A:OP2	20:AT:74:LYS:NZ	2.33	0.58
1:AA:299:G:H2'	1:AA:300:A:H8	1.67	0.58
5:AE:135:THR:O	5:AE:139:LEU:HG	2.04	0.58
1:AA:1081:G:H8	5:AE:18:ARG:HH21	1.52	0.58
6:AF:80:ARG:HA	6:AF:85:VAL:HB	1.86	0.58
9:AI:116:LYS:HZ3	9:AI:121:ARG:C	2.06	0.58
11:AK:45:GLY:HA3	11:AK:60:ALA:O	2.04	0.58
1:AA:254:G:C3'	17:AQ:45:HIS:HE1	2.14	0.58
22:BB:1143:A:C2	31:BK:103:TYR:N	2.69	0.58
22:BB:1002:C:O2	22:BB:1174:G:N2	2.34	0.58
22:BB:1356:G:C4'	22:BB:1613:G:OP2	2.51	0.58
22:BB:2503:G:C4	22:BB:2744:A:C2	2.92	0.58
24:BD:144:ALA:HB2	24:BD:192:THR:HG22	1.85	0.58
22:BB:2008:C:OP1	25:BE:147:PRO:HG3	2.04	0.58
22:BB:811:G:OP2	26:BF:56:ARG:HD3	2.03	0.58
27:BG:11:GLN:HE22	27:BG:12:VAL:HG13	1.67	0.58
33:BM:101:ARG:H	33:BM:101:ARG:HD2	1.68	0.58
33:BM:63:ARG:NH1	51:B5:9:MET:CE	2.65	0.58
34:BN:76:THR:HA	34:BN:89:GLY:O	2.04	0.58
35:BO:5:LYS:NZ	35:BO:6:ALA:HB2	2.18	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:BL:85:ASP:OD2	37:BQ:87:LEU:CD2	2.51	0.58
22:BB:1630:A:N7	40:BT:108:PRO:HB3	2.19	0.58
44:BX:31:VAL:HG12	44:BX:32:LYS:HG2	1.86	0.58
1:CA:299:G:H2'	1:CA:300:A:H8	1.68	0.58
1:CA:576:G:H3'	1:CA:577:G:H5''	1.85	0.58
1:CA:625:G:OP1	16:CP:10:GLY:HA2	2.04	0.58
1:CA:958:A:H1'	19:CS:55:LYS:HD3	1.85	0.58
1:CA:970:C:N4	9:CI:128:ARG:HH12	2.01	0.58
11:CK:33:THR:HG22	11:CK:39:PRO:HA	1.86	0.58
22:DB:465:C:N4	50:D4:39:ARG:HE	2.01	0.58
53:D7:80:SER:N	53:D7:81:PRO:HD3	2.19	0.58
22:DB:1398:G:C4	22:DB:1416:A:C2	2.91	0.58
22:DB:1447:U:H3	22:DB:1576:G:H1	1.48	0.58
22:DB:1809:G:OP1	24:DD:63:ARG:CD	2.51	0.58
22:DB:2560:G:O3'	22:DB:2561:G:H3'	2.03	0.58
22:DB:2745:A:C4	22:DB:2746:G:N9	2.71	0.58
22:DB:3125:G:H4'	53:D7:209:MSE:HE2	1.86	0.58
22:DB:3197:U:H1'	22:DB:2181:A:C8	2.30	0.58
22:DB:568:G:H2'	22:DB:569:C:H1'	1.86	0.58
22:DB:790:A:H2'	22:DB:791:G:C8	2.39	0.58
22:DB:869:C:O4'	44:DX:24:LYS:HG3	2.01	0.58
22:DB:926:C:H2'	22:DB:927:C:H5'	1.85	0.58
22:DB:686:C:H2'	26:DF:68:ARG:HH12	1.69	0.58
30:DJ:55:VAL:HG22	30:DJ:57:ILE:H	1.67	0.58
22:DB:2627:G:H22	32:DL:28:GLY:HA3	0.75	0.58
22:DB:1006:C:C6	38:DR:97:ASP:OD2	2.56	0.58
1:EA:1233:G:H2'	1:EA:1234:C:C6	2.38	0.58
1:EA:1396:A:H5'	1:EA:1398:A:OP1	2.03	0.58
1:EA:610:G:O2'	1:EA:611:A:H5'	2.04	0.58
2:EB:163:PHE:HA	2:EB:185:ILE:HB	1.83	0.58
2:EB:215:LEU:O	2:EB:219:VAL:HG23	2.03	0.58
1:EA:674:G:P	6:EF:87:ARG:HH21	2.27	0.58
11:EK:45:GLY:HA3	11:EK:60:ALA:O	2.04	0.58
1:EA:632:A:H1'	17:EQ:30:PRO:HB2	1.84	0.58
49:F3:42:PRO:HG3	49:F3:48:VAL:HB	1.86	0.58
52:F6:17:VAL:HG21	52:F6:24:LEU:HG	1.86	0.58
23:FA:117:G:C3'	36:FP:52:ALA:HA	2.32	0.58
22:FB:1565:G:H2'	22:FB:1566:G:C8	2.38	0.58
22:FB:1673:C:H5''	25:FE:136:ARG:HG3	1.73	0.58
22:FB:2262:C:O2'	49:F3:8:ILE:HD11	1.93	0.58
22:FB:2426:G:H4'	22:FB:2427:A:OP2	2.03	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:FB:10:A:C5	22:FB:2608:A:C4	2.91	0.58
22:FB:402:A:H1'	22:FB:2391:A:O2'	2.03	0.58
22:FB:926:C:H2'	22:FB:927:C:H5'	1.85	0.58
22:FB:1885:C:O3'	24:FD:241:GLY:O	2.21	0.58
25:FE:143:GLN:HB2	25:FE:144:ARG:NH1	2.19	0.58
32:FL:99:ILE:HG12	32:FL:105:PRO:HA	1.86	0.58
38:FR:3:ARG:HE	38:FR:4:ALA:N	1.96	0.58
22:FB:1996:A:C1'	40:FT:109:ARG:NH2	2.64	0.58
44:FX:31:VAL:HG12	44:FX:32:LYS:HG2	1.86	0.58
1:GA:1103:C:P	2:GB:98:LEU:CD2	2.89	0.58
1:GA:1197:G:H3'	1:GA:1197:G:OP1	2.03	0.58
1:GA:1249:C:O3'	9:GI:68:GLY:C	2.41	0.58
1:GA:1394:A:N7	1:GA:1501:C:H4'	2.17	0.58
2:GB:115:LEU:HD12	2:GB:142:LEU:HD22	1.86	0.58
6:GF:45:LEU:HD12	6:GF:59:TYR:HD1	1.69	0.58
8:GH:14:ARG:NH2	8:GH:83:ILE:HG23	2.19	0.58
1:GA:35:G:C2	12:GL:118:SER:CA	2.86	0.58
1:GA:254:G:O4'	17:GQ:17:LYS:C	2.42	0.58
1:GA:255:G:H5''	17:GQ:45:HIS:CE1	2.37	0.58
49:H3:28:ARG:HG3	49:H3:29:ARG:H	1.68	0.58
23:HA:31:A:H1'	23:HA:61:A:H61	1.68	0.58
22:HB:1090:C:H1'	30:HJ:132:ARG:CD	2.31	0.58
22:HB:1150:C:O2'	22:HB:1151:U:H5'	2.03	0.58
22:HB:1473:U:H5'	22:HB:1474:A:H5'	1.85	0.58
22:HB:1876:C:H2'	22:HB:1877:C:O4'	2.03	0.58
22:HB:1749:G:OP2	22:HB:2675:U:O4'	2.22	0.58
22:HB:68:C:C4'	22:HB:74:G:C6	2.80	0.58
22:HB:68:C:H4'	22:HB:74:G:O6	2.02	0.58
22:HB:759:C:C2'	48:H2:2:ALA:N	2.66	0.58
22:HB:637:G:H21	33:HM:74:VAL:CB	2.16	0.58
22:HB:1664:G:H2'	40:HT:107:ILE:CD1	2.34	0.58
1:IA:83:C:H1'	1:IA:87:G:N2	2.18	0.58
5:IE:18:ARG:HH22	5:IE:27:ARG:HB2	1.68	0.58
1:IA:932:C:C4'	7:IG:4:ARG:CZ	2.77	0.58
1:IA:716:A:O2'	11:IK:117:ASN:CG	2.42	0.58
14:IN:33:VAL:HA	14:IN:40:CYS:HA	1.84	0.58
22:JB:2263:C:P	49:J3:8:ILE:HG12	2.37	0.58
50:J4:12:ARG:HD2	50:J4:16:HIS:HB3	1.86	0.58
22:JB:1005:U:C4	22:JB:1171:A:N6	2.72	0.58
22:JB:1202:U:C6	39:JS:81:ARG:NH1	2.36	0.58
22:JB:3171:A:C8	53:J7:101:LYS:CG	2.87	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:JB:1810:U:OP2	24:JD:154:GLN:O	2.22	0.58
24:JD:259:THR:HG22	24:JD:260:ARG:H	1.67	0.58
29:JI:8:PRO:HB3	29:JI:13:LYS:HB2	1.83	0.58
22:JB:2747:C:O2'	31:JK:112:THR:CG2	2.51	0.58
22:JB:2372:A:C5'	33:JM:60:LEU:O	2.52	0.58
34:JN:9:LYS:HD3	34:JN:93:TYR:HE2	1.69	0.58
22:JB:1470:G:N3	35:JO:60:LEU:HD21	2.19	0.58
22:JB:1173:G:C2'	39:JS:89:ASN:O	2.51	0.58
40:JT:40:LEU:HD13	48:J2:20:ARG:CG	2.07	0.58
43:JW:3:LEU:HB2	43:JW:56:VAL:HA	1.86	0.58
22:JB:59:G:C5'	45:JY:44:ARG:HH11	2.16	0.58
1:AA:1049:U:C5	14:AN:3:ARG:HB2	2.38	0.58
1:AA:111:G:H5''	16:AP:27:LYS:HG2	1.86	0.58
1:AA:339:C:O5'	32:BL:109:ARG:NE	2.37	0.58
1:AA:576:G:H3'	1:AA:577:G:H5''	1.85	0.58
5:AE:90:VAL:O	5:AE:120:THR:HG23	2.03	0.58
8:AH:14:ARG:NH2	8:AH:83:ILE:HG23	2.19	0.58
9:AI:49:PRO:CG	9:AI:81:ILE:HD13	2.32	0.58
10:AJ:21:GLN:HB3	10:AJ:25:GLU:HG3	1.86	0.58
1:AA:948:C:OP2	13:AM:108:ARG:CG	2.51	0.58
17:AQ:17:LYS:HD3	17:AQ:45:HIS:HE1	1.68	0.58
22:BB:2029:G:H1'	48:B2:22:HIS:CG	2.38	0.58
53:B7:111:LEU:HD13	53:B7:148:ILE:HG23	1.86	0.58
23:BA:77:G:N2	23:BA:105:G:H22	2.00	0.58
22:BB:1015:U:O2'	22:BB:1022:A:H5''	2.04	0.58
22:BB:1119:U:C3'	22:BB:1120:C:P	2.91	0.58
22:BB:1356:G:C1'	22:BB:1613:G:C8	2.86	0.58
22:BB:1811:A:H2'	22:BB:1811:A:N3	2.17	0.58
22:BB:2457:A:C8	22:BB:2508:G:C5	2.91	0.58
22:BB:325:U:H2'	22:BB:326:A:C8	2.39	0.58
22:BB:641:G:OP1	51:B5:46:LYS:CD	2.45	0.58
22:BB:676:G:N2	22:BB:950:G:H4'	2.19	0.58
24:BD:227:ASN:HB2	24:BD:231:HIS:HB2	1.85	0.58
27:BG:84:PRO:HG2	27:BG:85:VAL:H	1.69	0.58
32:BL:2:ILE:HG22	32:BL:44:TYR:HB2	1.86	0.58
22:BB:2653:A:C1'	32:BL:41:ASN:HD21	1.98	0.58
32:BL:59:ALA:HB3	32:BL:64:VAL:HB	1.85	0.58
23:BA:92:G:C1'	34:BN:22:ALA:CA	2.80	0.58
22:BB:2463:G:H5''	34:BN:47:GLN:HG2	1.85	0.58
38:BR:101:ARG:NH2	39:BS:43:GLU:CD	2.57	0.58
23:BA:96:C:C5'	43:BW:11:LYS:HA	2.30	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:1228:C:H4'	13:CM:118:ALA:CA	2.31	0.58
1:CA:1382:C:O2	7:CG:77:SER:OG	2.10	0.58
1:CA:527:G:H21	1:CA:535:A:H2	1.51	0.58
1:CA:607:A:H2'	1:CA:608:A:N7	2.18	0.58
2:CB:71:VAL:HB	2:CB:164:VAL:HA	1.85	0.58
1:CA:436:C:C5'	4:CD:156:GLU:CA	2.69	0.58
1:CA:1298:C:C4	7:CG:114:ARG:HB3	2.39	0.58
8:CH:14:ARG:NH2	8:CH:83:ILE:HG23	2.18	0.58
1:CA:827:U:H5'	8:CH:21:LYS:CD	2.03	0.58
22:DB:478:G:H5''	50:D4:34:ARG:HH12	1.67	0.58
33:DM:52:GLY:HA2	51:D5:55:TRP:CZ3	2.39	0.58
53:D7:41:MSE:HE2	53:D7:47:LYS:HD2	1.85	0.58
22:DB:1437:A:N6	22:DB:1439:G:N2	2.51	0.58
22:DB:1565:G:H2'	22:DB:1566:G:C8	2.38	0.58
22:DB:2015:G:N3	22:DB:2551:A:H2	2.00	0.58
22:DB:2284:U:O2'	27:DG:151:GLY:HA3	2.03	0.58
22:DB:2628:C:C3'	32:DL:29:ILE:HD12	2.33	0.58
22:DB:2661:G:N9	25:DE:12:THR:N	2.51	0.58
22:DB:356:A:H2'	22:DB:357:A:H8	1.69	0.58
22:DB:404:A:H62	22:DB:424:G:N2	2.02	0.58
24:DD:227:ASN:HB2	24:DD:231:HIS:HB2	1.85	0.58
22:DB:2766:U:O2	25:DE:61:LYS:HB2	2.02	0.58
22:DB:1109:A:O3'	30:DJ:7:ILE:HD11	2.04	0.58
31:DK:68:PRO:HD2	31:DK:70:PHE:CD2	2.38	0.58
22:DB:596:C:H5	33:DM:30:ALA:HB1	1.59	0.58
22:DB:590:C:C4'	38:DR:32:TYR:HB3	2.33	0.58
41:DU:42:ILE:HD12	41:DU:42:ILE:H	1.67	0.58
23:DA:77:G:C4	43:DW:29:ASN:CG	2.77	0.58
44:DX:74:LYS:HZ2	44:DX:74:LYS:N	2.01	0.58
1:EA:125:U:H2'	1:EA:126:G:C8	2.38	0.58
1:EA:52:G:N1	1:EA:360:A:H1'	2.18	0.58
1:EA:579:G:H5'	1:EA:728:A:H1'	1.85	0.58
1:EA:607:A:H2'	1:EA:608:A:N7	2.18	0.58
1:EA:727:G:H1'	1:EA:731:G:H1	1.68	0.58
1:EA:73:C:H2'	1:EA:74:G:H8	1.69	0.58
2:EB:7:VAL:HG12	2:EB:221:LEU:HD11	1.86	0.58
1:EA:1185:G:O2'	9:EI:110:GLU:CG	2.52	0.58
11:EK:62:GLN:HB2	11:EK:93:GLN:HB3	1.84	0.58
13:EM:97:PRO:CD	13:EM:110:ARG:HD3	2.34	0.58
22:FB:2063:A:C5'	47:F1:33:VAL:HG22	2.34	0.58
40:FT:40:LEU:HD12	48:F2:20:ARG:HD2	1.86	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
52:F6:19:ARG:HH21	52:F6:19:ARG:HB3	1.67	0.58
22:FB:113:C:C2'	22:FB:125:A:H4'	2.34	0.58
22:FB:1368:G:H2'	22:FB:1369:G:H8	1.69	0.58
22:FB:75:C:O2'	45:FY:48:ARG:CG	2.51	0.58
22:FB:790:A:H2'	22:FB:791:G:C8	2.39	0.58
24:FD:157:ARG:HB3	24:FD:202:LYS:HZ2	1.68	0.58
28:FH:78:GLY:HA2	28:FH:83:TYR:HE2	1.68	0.58
22:FB:2692:A:C2'	35:FO:14:SER:C	2.72	0.58
43:FW:151:ASP:O	43:FW:154:LEU:HB2	2.02	0.58
1:GA:1517:G:H8	22:HB:1903:C:OP1	1.85	0.58
20:AT:102:GLY:C	1:GA:181:G:P	2.82	0.58
1:GA:223:U:O4'	20:GT:68:LYS:CD	2.50	0.58
1:GA:579:G:H5'	1:GA:728:A:H1'	1.85	0.58
1:GA:737:A:H5'	6:GF:90:VAL:O	2.03	0.58
4:GD:162:LEU:HB3	4:GD:166:LYS:HG3	1.85	0.58
5:GE:18:ARG:HH22	5:GE:27:ARG:HB2	1.68	0.58
16:GP:8:ARG:HH21	16:GP:15:PRO:HB3	1.69	0.58
22:HB:1377:G:O5'	47:H1:3:LYS:HE3	2.04	0.58
49:H3:28:ARG:HG3	49:H3:29:ARG:N	2.19	0.58
22:HB:1080:A:H62	22:HB:1084:A:N6	2.01	0.58
22:HB:1685:A:H62	22:HB:1691:G:C1'	2.17	0.58
22:HB:2225:G:N2	22:HB:2405:A:O2'	2.36	0.58
22:HB:2537:C:H2'	22:HB:2538:C:C6	2.39	0.58
22:HB:498:C:N3	40:HT:74:SER:OG	2.31	0.58
27:HG:33:LYS:NZ	27:HG:157:VAL:HG21	2.19	0.58
34:HN:103:VAL:H	34:HN:104:MET:CE	2.16	0.58
41:HU:45:ALA:HB3	45:HY:16:LYS:CG	2.22	0.58
1:IA:1056:U:O2'	3:IC:156:ARG:HD2	2.04	0.58
1:IA:1106:G:H4'	3:IC:170:GLN:CA	2.34	0.58
1:IA:1163:C:H2'	1:IA:1164:G:C8	2.38	0.58
1:IA:1396:A:H5'	1:IA:1398:A:OP1	2.03	0.58
1:IA:639:G:H2'	1:IA:640:A:C8	2.38	0.58
1:IA:958:A:N1	19:IS:77:THR:HG23	2.19	0.58
2:IB:115:LEU:HD12	2:IB:142:LEU:HD22	1.85	0.58
1:IA:673:G:H5'	6:IF:87:ARG:CZ	2.24	0.58
1:IA:1376:U:C5'	7:IG:95:ARG:HH22	2.16	0.58
1:IA:1186:G:HO2'	9:II:113:LYS:HD3	1.65	0.58
1:IA:684:A:C4	11:IK:39:PRO:CD	2.87	0.58
1:IA:279:A:N6	17:IQ:98:LEU:N	2.47	0.58
22:JB:2399:C:C3'	51:J5:33:ASN:N	2.38	0.58
53:J7:64:VAL:HG11	53:J7:111:LEU:HD12	1.85	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:JB:3122:U:O3'	53:J7:133:LYS:HG2	2.04	0.58
22:JB:1075:C:H5''	30:JJ:84:ILE:CG2	2.34	0.58
22:JB:113:C:H2'	22:JB:124:A:O2'	1.99	0.58
22:JB:1003:C:C2	22:JB:1174:G:N2	2.72	0.58
22:JB:1268:U:N1	26:JF:66:ASN:CB	2.64	0.58
22:JB:1385:C:H1'	22:JB:2193:C:N4	2.17	0.58
22:JB:1565:G:H2'	22:JB:1566:G:C8	2.38	0.58
22:JB:1685:A:H62	22:JB:1691:G:C1'	2.17	0.58
22:JB:1861:G:C3'	22:JB:1862:C:P	2.92	0.58
22:JB:222:G:OP2	51:J5:11:LYS:CE	2.50	0.58
22:JB:2537:C:H2'	22:JB:2538:C:C6	2.39	0.58
22:JB:2680:U:H3'	22:JB:2681:A:C5'	2.34	0.58
22:JB:346:C:C2	42:JV:79:SER:HA	2.39	0.58
22:JB:411:C:H5'	47:J1:62:ARG:NH2	2.14	0.58
22:JB:489:A:N3	42:JV:74:LEU:HD11	1.57	0.58
22:JB:839:U:C5'	22:JB:2407:G:C3'	2.82	0.58
22:JB:846:A:C2	22:JB:2337:A:C5	2.92	0.58
24:JD:145:LEU:N	24:JD:155:LEU:HD21	2.18	0.58
31:JK:74:MET:HE3	31:JK:75:ILE:HG23	1.85	0.58
22:JB:1174:G:H8	39:JS:89:ASN:C	2.06	0.58
22:JB:1338:G:H1'	40:JT:107:ILE:HG21	1.85	0.58
1:AA:1229:A:N1	13:AM:125:ARG:HB3	2.19	0.58
1:AA:28:G:H2'	1:AA:29:G:O4'	2.04	0.58
1:AA:52:G:N1	1:AA:360:A:H1'	2.18	0.58
1:AA:7:G:C8	5:AE:119:LEU:HD22	2.39	0.58
7:AG:87:VAL:HG13	7:AG:151:TYR:CD1	2.39	0.58
1:AA:1228:C:C2	13:AM:118:ALA:O	2.39	0.58
22:BB:2556:A:C1'	48:B2:4:HIS:HE1	2.17	0.58
53:B7:81:PRO:HG3	53:B7:152:LYS:HZ2	1.68	0.58
22:BB:1029:C:H4'	22:BB:1131:G:N2	2.18	0.58
22:BB:1040:A:C1'	34:BN:123:GLY:O	2.52	0.58
22:BB:1070:G:N2	30:BJ:126:THR:O	2.37	0.58
22:BB:1565:G:H2'	22:BB:1566:G:C8	2.38	0.58
22:BB:2398:U:OP2	51:B5:34:THR:CG2	2.50	0.58
22:BB:300:C:H42	22:BB:363:G:H1'	1.69	0.58
22:BB:916:U:O2	43:BW:165:GLU:O	2.22	0.58
24:BD:145:LEU:N	24:BD:155:LEU:HD21	2.19	0.58
22:BB:1674:C:OP2	25:BE:134:TRP:HB3	2.01	0.58
25:BE:143:GLN:HB2	25:BE:144:ARG:NH1	2.19	0.58
25:BE:8:LYS:HB3	37:BQ:3:THR:HG21	1.86	0.58
22:BB:683:A:OP2	33:BM:46:GLY:HA2	2.03	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:BB:827:C:P	39:BS:83:ARG:O	2.60	0.58
22:BB:761:G:C5	40:BT:111:ARG:HD2	2.37	0.58
1:CA:1013:G:OP2	19:CS:18:LYS:HD3	2.03	0.58
1:CA:1206:G:H5'	3:CC:194:GLY:N	2.19	0.58
1:CA:1221:G:O3'	19:CS:77:THR:HB	2.00	0.58
1:CA:932:C:H3'	7:CG:3:ARG:HD3	1.50	0.58
1:CA:974:A:C2	14:CN:31:ARG:CB	2.86	0.58
6:CF:51:PRO:HB3	6:CF:56:PRO:HB3	1.86	0.58
1:CA:1382:C:C5'	7:CG:79:ARG:CG	2.82	0.58
1:CA:1187:G:C4	14:CN:61:TRP:CA	2.85	0.58
1:CA:236:G:O2'	17:CQ:25:ARG:NH2	2.36	0.58
22:DB:1636:G:H4'	50:D4:1:MET:HE1	1.84	0.58
22:DB:1012:A:H61	22:DB:1165:G:H1'	1.69	0.58
22:DB:1015:U:O2'	22:DB:1022:A:H5''	2.04	0.58
22:DB:1325:U:C2	41:DU:61:LYS:HE3	2.35	0.58
22:DB:203:G:H2'	22:DB:204:A:O4'	2.03	0.58
22:DB:2229:G:C1'	34:DN:84:MET:O	2.52	0.58
22:DB:2229:G:H2'	34:DN:84:MET:O	2.01	0.58
22:DB:630:G:O6	26:DF:97:ARG:NH2	2.37	0.58
26:DF:179:ASP:HA	26:DF:182:ARG:HG3	1.86	0.58
31:DK:46:ALA:HB1	31:DK:85:ALA:H	1.67	0.58
23:DA:94:G:P	34:DN:23:LYS:HZ2	2.18	0.58
1:EA:111:G:OP1	16:EP:27:LYS:CD	2.51	0.58
1:EA:1127:G:H1	1:EA:1145:C:N4	2.01	0.58
1:EA:955:U:H2'	1:EA:956:U:O4'	2.04	0.58
7:EG:108:ALA:HA	7:EG:111:ARG:HD2	1.85	0.58
1:EA:827:U:H4'	8:EH:19:VAL:CG2	2.34	0.58
1:EA:188:C:N4	20:ET:104:LEU:C	2.55	0.58
49:F3:26:LYS:NZ	51:F5:33:ASN:HD22	1.92	0.58
53:F7:80:SER:N	53:F7:81:PRO:HD3	2.19	0.58
23:FA:31:A:H1'	23:FA:61:A:H61	1.68	0.58
22:FB:1008:G:P	38:FR:92:ARG:CB	2.89	0.58
22:FB:1322:G:O2'	50:F4:7:PRO:HB3	2.04	0.58
22:FB:1992:G:C5'	40:FT:62:ARG:C	2.72	0.58
22:FB:2039:G:N2	48:F2:2:ALA:CA	2.67	0.58
22:FB:2281:C:O2'	27:FG:129:ASN:ND2	2.33	0.58
22:FB:2600:A:H4'	25:FE:159:HIS:CA	2.21	0.58
22:FB:2725:C:N4	22:FB:2740:C:H42	2.01	0.58
22:FB:575:U:OP2	39:FS:82:ARG:NH1	2.37	0.58
22:FB:58:C:C6	22:FB:72:A:C6	2.92	0.58
22:FB:63:A:C5'	41:FU:61:LYS:CA	2.82	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:FD:145:LEU:N	24:FD:155:LEU:HD21	2.19	0.58
22:FB:2618:A:C1'	31:FK:125:ARG:NH2	2.67	0.58
31:FK:126:VAL:HG13	31:FK:127:ILE:HG13	1.86	0.58
31:FK:67:ARG:HA	31:FK:70:PHE:HD2	1.69	0.58
22:FB:2701:A:C2'	35:FO:5:LYS:HZ3	2.16	0.58
25:FE:19:ARG:CZ	37:FQ:65:SER:OG	2.51	0.58
38:FR:43:ALA:CA	39:FS:75:LYS:CB	2.45	0.58
22:FB:29:U:O2'	38:FR:8:ILE:HG12	2.04	0.58
43:FW:134:LEU:HD12	43:FW:135:VAL:H	1.68	0.58
43:FW:3:LEU:HB2	43:FW:56:VAL:HA	1.86	0.58
22:FB:73:A:H5'	45:FY:44:ARG:CZ	2.19	0.58
1:CA:1266:G:P	1:GA:1273:G:H4'	2.42	0.58
1:GA:1472:U:H2'	1:GA:1473:A:O4'	2.03	0.58
1:GA:1483:A:H2	22:HB:1943:A:C1'	2.16	0.58
20:AT:103:GLY:CA	1:GA:181:G:OP1	2.52	0.58
1:GA:208:U:H2'	1:GA:209:U:H5''	1.85	0.58
1:GA:373:A:N6	1:GA:482:A:H62	2.02	0.58
3:GC:37:GLN:HA	3:GC:40:ARG:HB2	1.85	0.58
14:GN:27:CYS:HG	14:GN:42:ILE:HD12	1.68	0.58
16:GP:53:VAL:HB	16:GP:56:ALA:HB3	1.84	0.58
1:GA:223:U:C4'	20:GT:68:LYS:HG3	2.34	0.58
22:HB:3177:C:C4'	53:H7:163:PRO:HG3	2.26	0.58
23:HA:68:A:H62	43:HW:90:GLU:HB2	1.69	0.58
22:HB:1261:G:C2'	38:HR:3:ARG:N	2.65	0.58
22:HB:1338:G:N3	40:HT:106:LEU:HA	2.19	0.58
22:HB:1565:G:H2'	22:HB:1566:G:C8	2.38	0.58
22:HB:1797:C:O2'	24:HD:49:ILE:CD1	2.52	0.58
22:HB:17:G:OP1	48:H2:13:LYS:NZ	2.27	0.58
22:HB:2235:G:P	44:HX:5:LYS:HB2	2.43	0.58
22:HB:2265:A:H4'	22:HB:2266:A:C4	2.39	0.58
22:HB:3197:U:C2'	22:HB:2203:G:O6	2.52	0.58
22:HB:493:A:H1'	22:HB:508:G:H22	1.69	0.58
22:HB:541:C:H41	22:HB:572:G:C1'	2.16	0.58
22:HB:567:G:H5'	31:HK:73:ASN:CB	2.32	0.58
22:HB:955:G:H4'	22:HB:956:A:C8	2.39	0.58
24:HD:227:ASN:HB2	24:HD:231:HIS:HB2	1.85	0.58
22:HB:2056:C:O3'	24:HD:228:PRO:HB3	2.03	0.58
25:HE:53:PRO:HG3	25:HE:74:PRO:C	2.24	0.58
25:HE:91:VAL:HG22	25:HE:93:VAL:N	2.09	0.58
31:HK:139:ARG:HH21	31:HK:139:ARG:HA	1.67	0.58
34:HN:45:SER:O	34:HN:48:ILE:HG22	2.04	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:IA:125:U:H2'	1:IA:126:G:C8	2.38	0.58
1:IA:1316:G:H1	19:IS:5:LEU:HA	1.67	0.58
1:IA:125:U:C5'	1:IA:605:U:O2'	2.50	0.58
5:IE:132:ALA:O	5:IE:136:MET:HG2	2.04	0.58
7:IG:87:VAL:HG13	7:IG:151:TYR:CD1	2.39	0.58
7:IG:35:LYS:HG2	7:IG:38:LEU:H	1.67	0.58
1:IA:588:G:O4'	8:IH:5:PRO:HG2	2.04	0.58
22:JB:2062:U:H4'	47:J1:32:HIS:ND1	2.19	0.58
22:JB:1042:G:H4'	52:J6:8:LYS:NZ	2.19	0.58
22:JB:1166:A:H2'	22:JB:1168:G:N7	2.18	0.58
22:JB:15:G:H1'	48:J2:18:MET:HB3	1.82	0.58
22:JB:2449:G:O2'	22:JB:2450:A:H5'	2.04	0.58
22:JB:2722:C:H5''	52:J6:35:ARG:CZ	2.33	0.58
22:JB:348:U:C5'	42:JV:13:LYS:HZ2	2.11	0.58
22:JB:644:A:N3	22:JB:2382:C:H4'	2.18	0.58
22:JB:936:A:H2'	22:JB:937:C:C6	2.39	0.58
31:JK:122:HIS:HB3	31:JK:125:ARG:HB3	1.86	0.58
31:JK:46:ALA:HB1	31:JK:85:ALA:H	1.67	0.58
33:JM:122:VAL:HG22	33:JM:124:ALA:H	1.68	0.58
22:JB:592:G:C4'	38:JR:5:LYS:CE	2.77	0.58
40:JT:26:ALA:HB3	40:JT:126:ILE:HB	1.85	0.58
22:JB:2344:G:C4'	44:JX:66:LYS:CD	2.81	0.58
46:JZ:6:VAL:HB	46:JZ:50:LEU:HD23	1.85	0.58
1:AA:1127:G:H1	1:AA:1145:C:N4	2.01	0.57
1:AA:1471:G:P	32:BL:17:ARG:CD	2.92	0.57
1:AA:132:C:H5'	1:AA:262:A:O4'	2.04	0.57
1:AA:376:G:H2'	1:AA:377:G:C8	2.38	0.57
1:AA:527:G:H21	1:AA:535:A:H2	1.52	0.57
1:AA:579:G:H5'	1:AA:728:A:H1'	1.85	0.57
1:AA:955:U:H2'	1:AA:956:U:O4'	2.04	0.57
1:AA:973:G:H5''	14:AN:41:ARG:HH22	1.69	0.57
1:AA:429:U:H5'	4:AD:9:CYS:H	1.69	0.57
7:AG:108:ALA:HA	7:AG:111:ARG:HD2	1.85	0.57
8:AH:38:ILE:HA	8:AH:41:ARG:CZ	2.34	0.57
12:AL:83:VAL:HA	12:AL:105:TYR:HB2	1.86	0.57
52:B6:17:VAL:HG21	52:B6:24:LEU:HG	1.86	0.57
22:BB:1473:U:H5'	22:BB:1474:A:H5'	1.85	0.57
22:BB:1488:G:C2	22:BB:1535:C:N4	2.71	0.57
1:AA:270:A:C5'	22:BB:1738:U:C1'	2.82	0.57
22:BB:922:A:N3	22:BB:2243:C:O2'	2.31	0.57
22:BB:2725:C:N4	22:BB:2740:C:H42	2.02	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:BB:404:A:H62	22:BB:424:G:H21	1.51	0.57
22:BB:955:G:H4'	22:BB:956:A:C8	2.39	0.57
25:BE:53:PRO:HG3	25:BE:74:PRO:C	2.24	0.57
34:BN:76:THR:N	34:BN:90:ALA:HA	2.19	0.57
22:BB:888:G:N9	43:BW:165:GLU:HG3	2.18	0.57
1:CA:780:A:C2'	1:CA:1523:G:H5'	2.34	0.57
1:CA:279:A:H2'	17:CQ:95:TYR:CG	2.36	0.57
1:CA:315:A:H5''	1:CA:317:G:OP2	2.03	0.57
1:CA:599:C:O4'	8:CH:130:GLY:O	2.22	0.57
1:CA:8:A:H1'	5:CE:104:ALA:H	1.69	0.57
1:CA:8:A:HO2'	4:CD:209:ARG:NH1	2.00	0.57
3:CC:140:ARG:HB2	3:CC:140:ARG:NH1	2.18	0.57
6:CF:10:LEU:HB3	6:CF:85:VAL:HA	1.85	0.57
1:CA:1374:A:P	7:CG:36:LYS:NZ	2.77	0.57
7:CG:87:VAL:HG13	7:CG:151:TYR:CD1	2.39	0.57
5:CE:151:LEU:HB2	8:CH:42:GLU:O	2.02	0.57
1:CA:518:C:H4'	12:CL:51:ALA:N	2.19	0.57
1:CA:236:G:O2'	17:CQ:42:TYR:OH	2.18	0.57
12:CL:12:ARG:NH1	17:CQ:98:LEU:CD1	2.61	0.57
20:CT:52:ALA:C	20:CT:92:LEU:HD11	2.25	0.57
22:DB:1381:G:OP1	50:D4:25:LYS:HG3	2.04	0.57
52:D6:17:VAL:HG21	52:D6:24:LEU:HG	1.86	0.57
22:DB:418:C:H3'	53:D7:197:GLU:OE2	2.04	0.57
22:DB:1002:C:O2	22:DB:1175:A:C4	2.57	0.57
22:DB:1234:C:O3'	39:DS:68:LYS:HD3	1.88	0.57
22:DB:1397:A:N1	22:DB:1418:C:C4	2.72	0.57
22:DB:1473:U:H5'	22:DB:1474:A:H5'	1.85	0.57
22:DB:215:G:H22	22:DB:236:C:H2'	1.68	0.57
22:DB:2426:G:H4'	22:DB:2427:A:OP2	2.03	0.57
22:DB:2612:G:C2	25:DE:62:PRO:HB3	2.39	0.57
22:DB:2682:C:H2'	22:DB:2683:C:C6	2.39	0.57
22:DB:2753:C:O2'	25:DE:163:GLU:CD	2.32	0.57
22:DB:300:C:H42	22:DB:363:G:H1'	1.69	0.57
22:DB:638:A:H1'	22:DB:662:G:O4'	2.03	0.57
22:DB:1834:G:HO2'	24:DD:244:ARG:HB2	1.66	0.57
30:DJ:111:LYS:NZ	30:DJ:115:LEU:HG	2.19	0.57
31:DK:122:HIS:HB3	31:DK:125:ARG:HB3	1.86	0.57
36:DP:29:LEU:HB3	36:DP:91:ARG:HB2	1.84	0.57
38:DR:65:ILE:O	38:DR:76:TYR:HB2	2.03	0.57
39:DS:21:ARG:HE	39:DS:22:VAL:H	1.49	0.57
22:DB:503:G:H4'	40:DT:29:LYS:HB2	1.86	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:DB:529:U:H5'	40:DT:39:ARG:HH21	1.61	0.57
44:DX:31:VAL:HG12	44:DX:32:LYS:HG2	1.86	0.57
44:DX:49:GLN:NE2	44:DX:49:GLN:H	2.02	0.57
1:EA:1272:G:N2	1:IA:1264:C:O4'	2.36	0.57
1:EA:1240:U:OP2	7:EG:115:ARG:HG2	2.03	0.57
7:EG:87:VAL:HG13	7:EG:151:TYR:CD1	2.39	0.57
8:EH:6:ILE:O	8:EH:10:LEU:HG	2.04	0.57
1:EA:643:C:H1'	8:EH:113:SER:HB3	1.84	0.57
8:EH:91:ARG:NH2	17:EQ:34:LYS:NZ	2.52	0.57
53:F7:41:MSE:HE2	53:F7:47:LYS:HD2	1.84	0.57
22:FB:1167:A:C5'	22:FB:1168:G:C8	2.83	0.57
22:FB:1364:C:H4'	22:FB:1588:A:H5'	1.82	0.57
22:FB:1473:U:H5'	22:FB:1474:A:H5'	1.85	0.57
22:FB:1698:C:C3'	22:FB:1699:A:H5'	2.31	0.57
22:FB:2276:C:N4	22:FB:2299:A:H1'	2.16	0.57
22:FB:2618:A:C5	22:FB:2619:G:H1'	2.39	0.57
22:FB:2730:A:N6	52:F6:18:ARG:NH2	2.51	0.57
22:FB:2:G:N2	22:FB:2876:C:C6	2.72	0.57
22:FB:772:G:H2'	22:FB:773:G:H8	1.69	0.57
22:FB:999:A:OP1	46:FZ:8:SER:N	2.35	0.57
24:FD:55:GLY:HA2	24:FD:218:LYS:H	1.68	0.57
22:FB:2636:A:OP2	28:FH:181:GLY:HA2	2.04	0.57
31:FK:122:HIS:HB3	31:FK:125:ARG:HB3	1.86	0.57
22:FB:2372:A:C4'	33:FM:60:LEU:HA	2.34	0.57
34:FN:121:LEU:H	34:FN:121:LEU:HD22	1.69	0.57
34:FN:9:LYS:HD3	34:FN:93:TYR:HE2	1.69	0.57
38:FR:24:PHE:HB3	38:FR:28:ARG:CZ	2.34	0.57
22:FB:1173:G:H1'	39:FS:90:PHE:CE1	2.39	0.57
34:FN:106:GLU:HG2	43:FW:115:ILE:CG1	2.33	0.57
1:GA:413:G:H22	4:GD:31:CYS:HA	1.70	0.57
2:GB:230:VAL:HG12	2:GB:231:GLU:H	1.68	0.57
1:GA:1112:C:H42	3:GC:177:THR:HA	1.68	0.57
9:GI:43:ALA:HA	9:GI:74:ILE:HG21	1.86	0.57
11:GK:33:THR:HG22	11:GK:39:PRO:HA	1.86	0.57
1:GA:278:G:H2'	17:GQ:95:TYR:CE2	2.39	0.57
1:GA:734:G:C4'	18:GR:71:LYS:HZ3	2.01	0.57
22:HB:1298:G:N7	22:HB:1342:U:O4	2.37	0.57
22:HB:1668:G:P	35:HO:11:ASN:OD1	2.62	0.57
22:HB:1809:G:OP1	24:HD:63:ARG:NE	2.37	0.57
22:HB:2680:U:H3'	22:HB:2681:A:C5'	2.34	0.57
22:HB:926:C:H2'	22:HB:927:C:H5'	1.85	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:HD:145:LEU:N	24:HD:155:LEU:HD21	2.18	0.57
22:HB:2372:A:H5'	33:HM:62:LYS:NZ	2.19	0.57
22:HB:498:C:N1	40:HT:74:SER:HA	2.19	0.57
22:HB:505:G:C6	40:HT:82:ASN:OD1	2.32	0.57
22:HB:95:G:C2'	45:HY:45:GLN:NE2	2.67	0.57
22:HB:71:A:H1'	45:HY:54:ASN:O	2.00	0.57
22:HB:864:C:O2'	46:HZ:42:GLY:O	2.13	0.57
1:IA:1320:C:OP1	19:IS:3:ARG:CB	2.52	0.57
1:IA:925:G:N2	1:IA:1531:A:C1'	2.66	0.57
1:IA:52:G:N1	1:IA:360:A:H1'	2.19	0.57
1:IA:579:G:H5'	1:IA:728:A:H1'	1.85	0.57
3:IC:140:ARG:NH1	3:IC:140:ARG:HB2	2.18	0.57
13:IM:31:LYS:HG3	13:IM:34:LEU:HD12	1.84	0.57
16:IP:8:ARG:HH21	16:IP:15:PRO:HB3	1.69	0.57
1:IA:332:G:C1'	20:IT:16:HIS:HE2	2.13	0.57
49:J3:28:ARG:HG3	49:J3:29:ARG:N	2.19	0.57
49:J3:14:SER:HA	49:J3:52:GLU:HG3	1.86	0.57
53:J7:80:SER:N	53:J7:81:PRO:HD3	2.19	0.57
22:JB:105:G:H4'	22:JB:304:A:H2'	1.84	0.57
22:JB:1174:G:C8	39:JS:89:ASN:HB2	2.39	0.57
22:JB:1996:A:O3'	40:JT:116:ILE:CB	2.52	0.57
22:JB:2260:C:O3'	22:JB:2368:G:N3	2.26	0.57
22:JB:2550:C:C2	22:JB:2553:G:C1'	2.86	0.57
22:JB:404:A:H62	22:JB:424:G:N2	2.02	0.57
22:JB:66:U:C4	22:JB:87:G:C2	2.92	0.57
22:JB:76:C:H5'	45:JY:56:VAL:HB	1.81	0.57
22:JB:946:U:O2'	22:JB:947:C:C1'	2.52	0.57
22:JB:597:U:H1'	26:JF:84:PHE:HE2	0.65	0.57
28:JH:96:ALA:HB1	28:JH:103:LEU:HD21	1.85	0.57
32:JL:59:ALA:HB3	32:JL:64:VAL:HB	1.85	0.57
32:JL:99:ILE:HG12	32:JL:105:PRO:HA	1.86	0.57
22:JB:2001:G:C1'	38:JR:33:ARG:HD3	2.14	0.57
23:JA:14:C:H5	44:JX:52:GLY:O	1.77	0.57
1:AA:59:A:H5''	1:AA:60:A:H5''	1.85	0.57
1:AA:927:G:H2'	1:AA:928:G:O4'	2.04	0.57
3:AC:140:ARG:HB2	3:AC:140:ARG:NH1	2.18	0.57
3:AC:162:GLN:CD	3:AC:163:ALA:H	2.08	0.57
1:AA:619:U:HO2'	4:AD:129:ASN:ND2	1.96	0.57
6:AF:51:PRO:HB3	6:AF:56:PRO:HB3	1.86	0.57
11:AK:23:ALA:HB1	11:AK:88:GLY:N	2.19	0.57
14:AN:48:ALA:HA	14:AN:53:LEU:HD21	1.86	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:AQ:28:PRO:HB3	17:AQ:35:VAL:HA	1.86	0.57
49:B3:42:PRO:HG3	49:B3:48:VAL:HB	1.86	0.57
22:BB:1225:G:H1	40:BT:12:LYS:HZ1	1.44	0.57
22:BB:1309:G:H5''	22:BB:2688:G:O2'	2.05	0.57
22:BB:1685:A:H62	22:BB:1691:G:C1'	2.17	0.57
22:BB:1887:G:H22	22:BB:1912:G:C5'	2.17	0.57
22:BB:215:G:H22	22:BB:236:C:H2'	1.68	0.57
22:BB:2618:A:C5	22:BB:2619:G:H1'	2.39	0.57
22:BB:457:C:H5''	38:BR:3:ARG:CG	2.34	0.57
22:BB:540:G:C8	22:BB:2019:C:OP1	2.57	0.57
22:BB:697:G:OP1	50:B4:16:HIS:HB2	2.04	0.57
22:BB:737:C:C2'	22:BB:738:G:H5'	2.33	0.57
22:BB:790:A:H2'	22:BB:791:G:C8	2.39	0.57
22:BB:969:U:O4	34:BN:20:GLY:C	2.41	0.57
1:AA:712:A:P	24:BD:184:ARG:NH1	2.77	0.57
22:BB:742:G:N7	24:BD:208:LYS:HD2	2.19	0.57
22:BB:2008:C:C5	31:BK:103:TYR:OH	2.44	0.57
31:BK:34:PRO:HB2	31:BK:37:ASP:HB3	1.86	0.57
34:BN:127:PRO:HB2	34:BN:129:GLN:HE22	1.69	0.57
34:BN:9:LYS:HD3	34:BN:93:TYR:HE2	1.69	0.57
36:BP:29:LEU:HB3	36:BP:91:ARG:HB2	1.85	0.57
44:BX:74:LYS:N	44:BX:74:LYS:HZ2	2.02	0.57
1:CA:16:A:H4'	5:CE:16:THR:CA	2.31	0.57
1:CA:132:C:H5'	1:CA:262:A:O4'	2.04	0.57
1:CA:335:C:H5'	1:CA:1434:A:HO2'	1.62	0.57
2:CB:73:THR:HG22	2:CB:96:ARG:NH1	2.19	0.57
3:CC:162:GLN:CD	3:CC:163:ALA:H	2.08	0.57
4:CD:153:ARG:HD2	4:CD:181:MET:SD	2.44	0.57
5:CE:132:ALA:O	5:CE:136:MET:HG2	2.04	0.57
6:CF:45:LEU:HD12	6:CF:59:TYR:HD1	1.68	0.57
22:DB:475:U:H5''	50:D4:5:TYR:HB3	1.86	0.57
22:DB:1312:G:H4'	22:DB:1314:A:N9	2.18	0.57
22:DB:1685:A:H62	22:DB:1691:G:C1'	2.17	0.57
22:DB:1811:A:N3	22:DB:1811:A:H2'	2.17	0.57
22:DB:2276:C:N4	22:DB:2299:A:H1'	2.16	0.57
22:DB:2618:A:C5	22:DB:2619:G:H1'	2.39	0.57
22:DB:2725:C:N4	22:DB:2740:C:H42	2.02	0.57
22:DB:215:G:H4'	22:DB:618:A:H5'	1.86	0.57
22:DB:627:A:H2'	22:DB:628:A:C4	2.39	0.57
22:DB:676:G:OP1	33:DM:26:THR:C	2.43	0.57
24:DD:55:GLY:HA2	24:DD:218:LYS:H	1.68	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:DB:625:A:C4'	26:DF:38:ARG:HD3	2.24	0.57
31:DK:135:LEU:HD23	31:DK:141:GLY:HA3	1.86	0.57
34:DN:121:LEU:HD22	34:DN:121:LEU:H	1.69	0.57
22:DB:1292:A:P	35:DO:33:ARG:HB3	2.43	0.57
39:DS:72:ARG:HG3	39:DS:73:LYS:H	1.68	0.57
43:DW:30:VAL:HG12	43:DW:31:SER:H	1.69	0.57
1:EA:114:U:H2'	1:EA:115:G:C8	2.40	0.57
1:EA:1335:C:H5''	1:EA:1337:G:N2	2.19	0.57
1:EA:1436:U:H2'	1:EA:1437:C:C6	2.40	0.57
1:EA:299:G:H2'	1:EA:300:A:H8	1.67	0.57
1:EA:537:G:P	12:EL:113:ARG:CZ	2.91	0.57
1:EA:576:G:H3'	1:EA:577:G:H5''	1.85	0.57
1:EA:973:G:H1'	10:EJ:54:PHE:CZ	2.39	0.57
2:EB:115:LEU:HD12	2:EB:142:LEU:HD22	1.86	0.57
7:EG:13:GLN:CG	9:EI:42:ARG:NH2	2.24	0.57
22:FB:1043:A:H4'	52:F6:23:VAL:HG23	1.86	0.57
22:FB:3177:C:O2'	53:F7:163:PRO:HG3	2.04	0.57
22:FB:1015:U:O2'	22:FB:1022:A:H5''	2.04	0.57
22:FB:1685:A:H62	22:FB:1691:G:C1'	2.17	0.57
22:FB:2241:U:H1'	22:FB:2307:A:O2'	2.04	0.57
22:FB:3178:C:H5''	53:F7:36:PHE:C	2.20	0.57
22:FB:3866:A:N1	53:F7:196:VAL:HG12	2.15	0.57
22:FB:404:A:H62	22:FB:424:G:N2	2.02	0.57
22:FB:6:A:O2'	31:FK:160:ALA:C	2.42	0.57
23:FA:57:U:C1'	27:FG:26:MET:CE	2.82	0.57
34:FN:73:LYS:HB3	34:FN:94:TRP:N	2.06	0.57
22:FB:870:C:H4'	44:FX:24:LYS:CE	2.32	0.57
44:FX:47:ALA:HB1	44:FX:77:ARG:HH21	1.68	0.57
1:GA:1187:G:N2	14:GN:60:SER:HB3	2.17	0.57
1:GA:1228:C:H2'	1:GA:1229:A:C8	2.38	0.57
1:GA:1436:U:H2'	1:GA:1437:C:C6	2.39	0.57
1:GA:526:C:H2'	1:GA:527:G:H4'	1.86	0.57
2:GB:73:THR:HG22	2:GB:96:ARG:NH1	2.19	0.57
8:GH:38:ILE:HA	8:GH:41:ARG:CZ	2.34	0.57
10:GJ:63:PHE:HZ	14:GN:49:HIS:ND1	1.92	0.57
1:GA:1226:C:C4	13:GM:104:ARG:CG	2.71	0.57
17:GQ:28:PRO:HB3	17:GQ:35:VAL:HA	1.86	0.57
1:GA:235:C:C2	17:GQ:4:LYS:CE	2.86	0.57
1:GA:719:C:O2'	18:GR:49:LYS:CG	2.52	0.57
22:HB:1376:C:C4	47:H1:3:LYS:CB	2.87	0.57
49:H3:22:TYR:C	49:H3:24:THR:H	2.06	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
53:H7:80:SER:N	53:H7:81:PRO:HD3	2.19	0.57
22:HB:1079:G:H5'	30:HJ:13:PRO:CG	2.34	0.57
22:HB:1166:A:C4	22:HB:1168:G:N7	2.72	0.57
22:HB:1995:G:OP2	40:HT:120:ARG:NE	2.37	0.57
22:HB:2338:C:H5'	51:H5:52:LYS:HZ3	1.63	0.57
22:HB:2760:G:H5'	31:HK:146:THR:CA	2.33	0.57
22:HB:2814:G:H1'	35:HO:45:ARG:HD3	1.86	0.57
22:HB:508:G:H2'	22:HB:509:U:O4'	2.03	0.57
22:HB:772:G:H2'	22:HB:773:G:H8	1.69	0.57
22:HB:936:A:H2'	22:HB:937:C:C6	2.39	0.57
31:HK:34:PRO:HB2	31:HK:37:ASP:HB3	1.86	0.57
31:HK:68:PRO:HD2	31:HK:70:PHE:CD2	2.39	0.57
32:HL:2:ILE:HG22	32:HL:44:TYR:HB2	1.85	0.57
32:HL:83:ARG:HD3	32:HL:85:ASP:HB3	1.86	0.57
34:HN:121:LEU:H	34:HN:121:LEU:HD22	1.69	0.57
34:HN:76:THR:HA	34:HN:89:GLY:O	2.04	0.57
22:HB:2848:A:C2	35:HO:7:GLY:O	2.51	0.57
39:HS:87:ARG:NH1	39:HS:89:ASN:HA	2.19	0.57
22:HB:506:G:O5'	40:HT:83:ASP:HA	2.04	0.57
22:HB:2334:C:C6	44:HX:32:LYS:HE3	2.39	0.57
1:IA:1197:G:OP1	1:IA:1197:G:H3'	2.04	0.57
1:IA:1436:U:H2'	1:IA:1437:C:C6	2.39	0.57
1:IA:238:G:OP2	17:IQ:38:ARG:NH2	2.36	0.57
1:IA:132:C:H5'	1:IA:262:A:O4'	2.05	0.57
1:IA:1056:U:O3'	3:IC:163:ALA:HB2	2.04	0.57
1:IA:643:C:C4	8:IH:115:SER:HA	2.38	0.57
11:IK:45:GLY:HA3	11:IK:60:ALA:O	2.04	0.57
1:IA:1115:C:P	14:IN:61:TRP:CB	2.92	0.57
1:IA:222:U:O2'	20:IT:68:LYS:NZ	2.36	0.57
22:JB:2074:U:H3	47:J1:42:PHE:CB	2.10	0.57
22:JB:2371:A:H5''	51:J5:29:LYS:HE3	1.83	0.57
22:JB:3121:G:P	53:J7:129:GLY:HA3	2.44	0.57
53:J7:41:MSE:HE2	53:J7:47:LYS:HD2	1.85	0.57
22:JB:2265:A:H4'	22:JB:2266:A:C4	2.39	0.57
22:JB:836:G:H22	22:JB:2337:A:H8	1.50	0.57
22:JB:2259:G:H21	22:JB:2367:A:C1'	2.18	0.57
22:JB:2603:G:H1'	48:J2:22:HIS:CE1	2.24	0.57
22:JB:2665:G:H2'	22:JB:2666:U:O4'	2.03	0.57
22:JB:2823:G:H5''	37:JQ:103:LYS:HG2	1.70	0.57
22:JB:415:A:O2'	22:JB:420:C:H5'	2.04	0.57
22:JB:672:C:H1'	26:JF:95:LEU:N	2.16	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:JB:772:G:H2'	22:JB:773:G:H8	1.69	0.57
22:JB:955:G:H4'	22:JB:956:A:C8	2.39	0.57
25:JE:58:LYS:HZ2	25:JE:58:LYS:HB2	1.68	0.57
33:JM:62:LYS:HB2	51:J5:30:ARG:NH1	2.19	0.57
40:JT:72:LEU:HA	40:JT:126:ILE:HD13	1.86	0.57
1:AA:1117:G:H1	1:AA:1180:A:H1'	1.69	0.57
1:AA:1319:A:H5'	19:AS:70:LYS:CE	2.35	0.57
1:AA:1331:G:OP1	13:AM:23:TYR:HE1	1.87	0.57
1:AA:1335:C:H5''	1:AA:1337:G:N2	2.19	0.57
1:AA:1393:U:O3'	1:AA:1394:A:H8	1.87	0.57
1:AA:1424:C:H2'	1:AA:1425:U:O4'	2.04	0.57
1:AA:227:G:H2'	1:AA:228:A:C8	2.38	0.57
1:AA:264:U:C5'	17:AQ:63:ARG:HH21	2.11	0.57
1:AA:73:C:H2'	1:AA:74:G:H8	1.70	0.57
13:AM:22:ILE:HD12	13:AM:25:ILE:HD12	1.86	0.57
13:AM:87:TYR:CB	13:AM:90:LEU:HD12	2.33	0.57
14:AN:15:LYS:CD	14:AN:16:PHE:H	2.13	0.57
53:B7:105:ARG:HG3	53:B7:131:ARG:HE	1.67	0.57
22:BB:1141:U:OP1	31:BK:107:GLN:OE1	2.21	0.57
22:BB:1312:G:H4'	22:BB:1314:A:N9	2.18	0.57
22:BB:2411:A:H62	47:B1:28:ARG:HB3	1.69	0.57
22:BB:2766:U:H4'	25:BE:64:GLN:CB	2.25	0.57
22:BB:487:G:C3'	22:BB:488:A:P	2.92	0.57
22:BB:238:G:H4'	22:BB:620:G:C5'	2.34	0.57
22:BB:772:G:H2'	22:BB:773:G:H8	1.69	0.57
25:BE:195:LEU:HA	37:BQ:2:GLN:O	2.03	0.57
31:BK:135:LEU:HD23	31:BK:141:GLY:HA3	1.86	0.57
1:CA:1108:G:P	3:CC:176:HIS:CB	2.85	0.57
1:CA:1127:G:H1	1:CA:1145:C:N4	2.01	0.57
1:CA:114:U:H2'	1:CA:115:G:C8	2.40	0.57
1:CA:1206:G:H2'	1:CA:1207:G:O4'	2.04	0.57
1:CA:52:G:N1	1:CA:360:A:H1'	2.19	0.57
1:CA:563:A:H5'	1:CA:566:G:N2	2.19	0.57
1:CA:675:A:C8	18:CR:81:PHE:CD2	2.92	0.57
1:CA:927:G:H2'	1:CA:928:G:O4'	2.04	0.57
1:CA:955:U:H2'	1:CA:956:U:O4'	2.05	0.57
1:CA:7:G:C8	5:CE:119:LEU:HD13	2.39	0.57
5:CE:135:THR:O	5:CE:139:LEU:HG	2.04	0.57
9:CI:44:VAL:HG12	9:CI:51:ARG:NH2	2.19	0.57
1:CA:1308:U:H5''	13:CM:97:PRO:CA	2.33	0.57
14:CN:15:LYS:CD	14:CN:16:PHE:H	2.13	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:CN:48:ALA:HA	14:CN:53:LEU:HD21	1.87	0.57
22:DB:418:C:C2'	53:D7:197:GLU:OE2	2.52	0.57
22:DB:2680:U:H3'	22:DB:2681:A:C5'	2.34	0.57
22:DB:2706:U:H1'	32:DL:79:HIS:NE2	2.19	0.57
22:DB:529:U:H5'	40:DT:39:ARG:CG	2.34	0.57
22:DB:598:U:H4'	26:DF:89:ARG:HH21	1.69	0.57
22:DB:659:G:N2	51:D5:46:LYS:HZ1	2.02	0.57
22:DB:772:G:H2'	22:DB:773:G:H8	1.69	0.57
22:DB:955:G:H4'	22:DB:956:A:C8	2.39	0.57
24:DD:145:LEU:N	24:DD:155:LEU:HD21	2.19	0.57
22:DB:777:A:H4'	24:DD:210:GLY:O	2.05	0.57
25:DE:195:LEU:CD2	37:DQ:2:GLN:CG	2.81	0.57
26:DF:115:GLY:N	26:DF:185:ARG:HG3	2.18	0.57
29:DI:1:MET:HG2	47:D1:65:ASP:O	2.04	0.57
30:DJ:125:ASN:ND2	30:DJ:126:THR:H	2.01	0.57
34:DN:9:LYS:HD3	34:DN:93:TYR:HE2	1.69	0.57
38:DR:47:TYR:C	39:DS:74:TYR:HD1	2.08	0.57
39:DS:87:ARG:NH1	39:DS:89:ASN:HA	2.20	0.57
42:DV:64:ASN:O	42:DV:65:PRO:C	2.43	0.57
34:DN:107:VAL:HG22	43:DW:113:VAL:HG11	1.85	0.57
34:DN:99:LYS:CB	43:DW:74:ARG:N	2.67	0.57
22:DB:865:A:OP1	46:DZ:42:GLY:O	2.22	0.57
1:EA:1098:C:OP1	2:EB:144:ARG:HB3	2.04	0.57
1:EA:132:C:H5'	1:EA:262:A:O4'	2.05	0.57
1:EA:927:G:H2'	1:EA:928:G:O4'	2.04	0.57
4:ED:176:LEU:HA	4:ED:182:LYS:O	2.04	0.57
5:EE:127:ASN:HD21	5:EE:130:ASN:HD22	1.53	0.57
6:EF:49:ALA:HB3	18:ER:79:LEU:CA	2.33	0.57
1:EA:779:C:C1'	11:EK:120:ARG:HD3	2.27	0.57
1:EA:522:C:N4	12:EL:53:ARG:HH22	2.02	0.57
17:EQ:28:PRO:HB3	17:EQ:35:VAL:HA	1.86	0.57
20:ET:52:ALA:C	20:ET:92:LEU:HD11	2.25	0.57
49:F3:28:ARG:HG3	49:F3:29:ARG:N	2.19	0.57
22:FB:1312:G:H4'	22:FB:1314:A:N9	2.18	0.57
22:FB:1398:G:H5''	22:FB:1416:A:H1'	1.86	0.57
22:FB:215:G:H22	22:FB:236:C:H2'	1.69	0.57
22:FB:2182:A:N6	22:FB:2204:A:N3	2.52	0.57
22:FB:2449:G:O2'	22:FB:2450:A:H5'	2.04	0.57
22:FB:2680:U:H3'	22:FB:2681:A:C5'	2.34	0.57
22:FB:2682:C:H2'	22:FB:2683:C:C6	2.39	0.57
22:FB:2716:G:C6	22:FB:2749:A:C4	2.93	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:FB:300:C:H42	22:FB:363:G:H1'	1.70	0.57
22:FB:458:G:C5'	38:FR:5:LYS:HZ3	2.12	0.57
22:FB:627:A:H2'	22:FB:628:A:C4	2.39	0.57
22:FB:1788:C:H5'	24:FD:254:THR:HG23	1.86	0.57
27:FG:33:LYS:NZ	27:FG:157:VAL:HG21	2.19	0.57
32:FL:2:ILE:HG22	32:FL:44:TYR:HB2	1.86	0.57
25:FE:17:ASN:HB3	37:FQ:87:LEU:HD11	1.84	0.57
44:FX:49:GLN:H	44:FX:49:GLN:NE2	2.01	0.57
1:GA:132:C:H5'	1:GA:262:A:O4'	2.04	0.57
1:GA:639:G:H2'	1:GA:640:A:C8	2.38	0.57
4:GD:153:ARG:HD2	4:GD:181:MET:SD	2.44	0.57
4:GD:109:GLY:O	4:GD:161:ASN:HB2	2.05	0.57
7:GG:87:VAL:HG13	7:GG:151:TYR:CD1	2.39	0.57
1:GA:877:C:O2	8:GH:2:LEU:O	2.22	0.57
22:HB:156:G:O3'	50:H4:36:ALA:HB1	2.04	0.57
22:HB:2329:C:H5''	51:H5:42:ARG:HG3	1.86	0.57
22:HB:1781:C:OP1	24:HD:221:GLN:HB3	2.04	0.57
1:GA:1517:G:N7	22:HB:1903:C:O5'	2.37	0.57
22:HB:218:A:N1	22:HB:232:A:H5''	2.19	0.57
22:HB:2449:G:O2'	22:HB:2450:A:H5'	2.04	0.57
22:HB:1140:A:H61	22:HB:2470:U:H5	1.50	0.57
22:HB:2665:G:H2'	22:HB:2666:U:O4'	2.03	0.57
22:HB:2725:C:N4	22:HB:2740:C:H42	2.01	0.57
22:HB:2815:C:O4'	35:HO:92:GLY:CA	2.50	0.57
22:HB:2839:G:H2'	22:HB:2840:U:C6	2.39	0.57
22:HB:300:C:H42	22:HB:363:G:H1'	1.69	0.57
22:HB:59:G:N2	22:HB:86:U:N3	2.52	0.57
22:HB:627:A:H2'	22:HB:628:A:C4	2.39	0.57
22:HB:1582:A:C5	24:HD:211:ARG:HG2	2.37	0.57
24:HD:221:GLN:H	24:HD:222:ARG:NH1	2.03	0.57
27:HG:84:PRO:HG2	27:HG:85:VAL:H	1.69	0.57
28:HH:69:ARG:HH21	28:HH:72:VAL:HG11	1.68	0.57
28:HH:6:LYS:HZ2	28:HH:6:LYS:HB2	1.69	0.57
36:HP:29:LEU:HB3	36:HP:91:ARG:HB2	1.85	0.57
22:HB:1019:U:C2'	38:HR:59:ARG:NH2	2.68	0.57
34:HN:63:GLY:N	43:HW:110:GLY:CA	2.68	0.57
43:HW:3:LEU:HB2	43:HW:56:VAL:HA	1.86	0.57
1:IA:1233:G:H2'	1:IA:1234:C:C6	2.39	0.57
1:IA:1390:U:H2'	1:IA:1391:U:O4'	2.04	0.57
1:IA:208:U:H2'	1:IA:209:U:H5''	1.85	0.57
1:IA:581:G:H3'	1:IA:758:G:O6	2.04	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:IA:674:G:P	6:IF:87:ARG:NH2	2.76	0.57
1:IA:675:A:H2	11:IK:114:VAL:O	1.86	0.57
1:IA:753:A:H4'	1:IA:754:C:O5'	2.03	0.57
1:IA:814:A:C5'	1:IA:1511:G:H5''	2.34	0.57
1:IA:877:C:H5''	8:IH:88:LYS:HZ1	1.61	0.57
1:IA:1206:G:O4'	3:IC:193:TYR:O	2.22	0.57
6:IF:45:LEU:HD12	6:IF:59:TYR:HD1	1.68	0.57
9:II:43:ALA:HA	9:II:74:ILE:HG21	1.86	0.57
1:IA:1123:A:C4'	10:IJ:38:ILE:CG2	2.81	0.57
10:IJ:79:ARG:HH12	10:IJ:83:GLU:CB	2.07	0.57
3:IC:23:TYR:CG	10:IJ:92:THR:HG22	2.37	0.57
11:IK:33:THR:HG22	11:IK:39:PRO:HA	1.86	0.57
22:JB:3170:A:O2'	53:J7:128:LEU:HA	2.04	0.57
22:JB:1073:G:N3	30:JJ:133:SER:OG	2.35	0.57
22:JB:2210:C:C4'	47:J1:39:VAL:HG21	2.34	0.57
22:JB:2328:G:P	51:J5:42:ARG:CZ	2.93	0.57
22:JB:2725:C:N4	22:JB:2740:C:H42	2.01	0.57
22:JB:491:A:H5''	42:JV:72:ARG:NE	2.19	0.57
22:JB:765:C:H5''	50:J4:1:MET:HB2	1.84	0.57
22:JB:871:U:O2'	22:JB:2248:A:H5'	2.04	0.57
22:JB:926:C:H2'	22:JB:927:C:H5'	1.85	0.57
27:JG:84:PRO:HG2	27:JG:85:VAL:H	1.68	0.57
32:JL:21:CYS:CA	32:JL:54:SER:H	2.13	0.57
32:JL:83:ARG:HD3	32:JL:85:ASP:HB3	1.86	0.57
33:JM:122:VAL:HG13	33:JM:123:ASP:H	1.69	0.57
33:JM:60:LEU:C	51:J5:27:SER:HG	2.00	0.57
34:JN:60:ARG:NE	43:JW:111:GLY:N	2.43	0.57
36:JP:30:SER:HB3	36:JP:32:TYR:CE2	2.40	0.57
41:JU:40:ASP:HA	41:JU:43:GLN:HG3	1.87	0.57
42:JV:47:VAL:O	42:JV:48:VAL:HG12	2.04	0.57
44:JX:49:GLN:HG3	44:JX:55:ARG:HD3	1.86	0.57
22:JB:1169:C:C4'	46:JZ:29:GLY:HA3	2.34	0.57
1:AA:114:U:H2'	1:AA:115:G:C8	2.39	0.57
1:AA:1374:A:N3	7:AG:29:LYS:HE2	2.13	0.57
1:AA:1436:U:H2'	1:AA:1437:C:C6	2.39	0.57
1:AA:315:A:H5''	1:AA:317:G:OP2	2.03	0.57
1:AA:581:G:H3'	1:AA:758:G:O6	2.04	0.57
1:AA:623:C:N4	4:AD:139:ARG:NH2	2.52	0.57
4:AD:109:GLY:O	4:AD:161:ASN:HB2	2.05	0.57
4:AD:153:ARG:HD2	4:AD:181:MET:SD	2.44	0.57
1:AA:690:G:OP1	11:AK:27:ASN:CB	2.53	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:AT:52:ALA:C	20:AT:92:LEU:HD11	2.25	0.57
49:B3:14:SER:HA	49:B3:52:GLU:HG3	1.86	0.57
22:BB:1008:G:H5''	38:BR:92:ARG:CB	2.33	0.57
22:BB:1416:A:H5''	22:BB:1485:U:H1'	0.57	0.57
22:BB:2437:G:H2'	22:BB:2469:G:N1	2.19	0.57
22:BB:2463:G:C5'	34:BN:46:ASN:O	2.52	0.57
22:BB:2537:C:H2'	22:BB:2538:C:C6	2.39	0.57
22:BB:2726:U:C5'	28:BH:138:LYS:HZ2	2.15	0.57
22:BB:2839:G:H2'	22:BB:2840:U:C6	2.40	0.57
22:BB:415:A:O2'	22:BB:420:C:H5'	2.05	0.57
22:BB:44:G:H1'	22:BB:448:C:H42	1.68	0.57
22:BB:611:C:H2'	22:BB:669:G:N2	2.19	0.57
22:BB:627:A:H2'	22:BB:628:A:C4	2.39	0.57
22:BB:9:U:C5'	31:BK:35:LYS:O	2.51	0.57
24:BD:227:ASN:O	24:BD:228:PRO:C	2.41	0.57
24:BD:85:ASP:H	24:BD:86:PRO:HD2	1.69	0.57
26:BF:179:ASP:HA	26:BF:182:ARG:HG3	1.86	0.57
30:BJ:125:ASN:ND2	30:BJ:126:THR:H	2.01	0.57
31:BK:67:ARG:HA	31:BK:70:PHE:HD2	1.69	0.57
32:BL:86:GLY:HA3	37:BQ:84:ALA:CA	2.25	0.57
22:BB:2462:C:C2'	34:BN:50:ALA:HB3	1.94	0.57
37:BQ:33:VAL:HG22	37:BQ:96:ARG:O	2.04	0.57
40:BT:54:GLU:C	40:BT:56:LEU:H	2.07	0.57
1:CA:1335:C:H5''	1:CA:1337:G:N2	2.20	0.57
1:CA:208:U:H2'	1:CA:209:U:H5''	1.85	0.57
1:CA:28:G:H2'	1:CA:29:G:O4'	2.05	0.57
1:CA:690:G:P	11:CK:27:ASN:HB2	2.44	0.57
13:CM:22:ILE:HD12	13:CM:25:ILE:HD12	1.85	0.57
13:CM:84:ILE:HD11	13:CM:92:HIS:CD2	2.38	0.57
14:CN:47:LEU:HA	14:CN:50:LYS:HB2	1.87	0.57
15:CO:89:GLY:OXT	22:DB:729:A:P	2.63	0.57
1:CA:331:G:P	20:CT:10:LEU:CD2	2.93	0.57
22:DB:1999:U:O2	48:D2:7:PRO:HG2	2.03	0.57
51:D5:39:ASP:N	51:D5:41:ILE:HG22	2.19	0.57
22:DB:1002:C:C2	22:DB:1174:G:C2	2.87	0.57
22:DB:1203:A:H4'	33:DM:35:LYS:HA	1.86	0.57
22:DB:1394:G:N2	22:DB:1588:A:C5	2.71	0.57
22:DB:218:A:N1	22:DB:232:A:H5''	2.19	0.57
22:DB:2396:C:H2'	22:DB:2397:A:O4'	2.05	0.57
22:DB:2449:G:O2'	22:DB:2450:A:H5'	2.04	0.57
22:DB:2537:C:H2'	22:DB:2538:C:C6	2.39	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:DB:2614:A:H2	25:DE:79:ARG:HH11	1.51	0.57
22:DB:2632:U:N3	28:DH:110:SER:HB2	2.19	0.57
22:DB:916:U:H5''	43:DW:161:ALA:CA	1.73	0.57
22:DB:1884:A:H2	24:DD:244:ARG:CD	2.17	0.57
25:DE:143:GLN:HB2	25:DE:144:ARG:NH1	2.20	0.57
25:DE:152:LYS:HB2	31:DK:106:TYR:HE2	1.69	0.57
25:DE:23:VAL:HG23	25:DE:186:GLY:H	1.70	0.57
28:DH:72:VAL:O	28:DH:76:VAL:HG23	2.05	0.57
32:DL:2:ILE:HG22	32:DL:44:TYR:HB2	1.86	0.57
34:DN:76:THR:N	34:DN:90:ALA:HA	2.19	0.57
23:DA:9:G:C4'	36:DP:32:TYR:CE1	2.83	0.57
42:DV:59:LYS:CB	42:DV:65:PRO:HA	2.35	0.57
44:DX:47:ALA:HB1	44:DX:77:ARG:HH21	1.68	0.57
1:EA:1103:C:O3'	2:EB:111:ARG:O	2.23	0.57
1:EA:1206:G:H2'	1:EA:1207:G:O4'	2.04	0.57
1:EA:1264:C:H5''	1:IA:1273:G:N3	2.14	0.57
1:EA:315:A:H5''	1:EA:317:G:OP2	2.03	0.57
2:EB:73:THR:HG22	2:EB:96:ARG:NH1	2.19	0.57
3:EC:173:VAL:HG22	3:EC:203:PHE:HB2	1.85	0.57
1:EA:439:A:H4'	4:ED:122:ARG:HH21	1.67	0.57
9:EI:116:LYS:HZ3	9:EI:121:ARG:C	2.07	0.57
53:F7:131:ARG:HB3	53:F7:133:LYS:HE3	1.84	0.57
22:FB:2182:A:H61	22:FB:2204:A:H1'	1.69	0.57
22:FB:836:G:N2	22:FB:2337:A:C8	2.72	0.57
22:FB:2396:C:H2'	22:FB:2397:A:O4'	2.05	0.57
22:FB:44:G:H1'	22:FB:448:C:H42	1.68	0.57
22:FB:955:G:H4'	22:FB:956:A:C8	2.40	0.57
26:FF:16:GLU:HG3	26:FF:17:LEU:N	2.17	0.57
34:FN:106:GLU:O	43:FW:113:VAL:HG11	1.94	0.57
35:FO:112:LEU:HD22	35:FO:113:ILE:N	2.19	0.57
39:FS:87:ARG:NH1	39:FS:89:ASN:HA	2.20	0.57
44:FX:46:LYS:HD3	44:FX:67:VAL:HG11	1.86	0.57
22:FB:1000:G:H5'	46:FZ:27:LYS:CE	2.34	0.57
22:FB:864:C:C1'	46:FZ:39:ALA:O	2.49	0.57
22:FB:999:A:OP2	46:FZ:7:ARG:O	2.21	0.57
1:GA:114:U:H2'	1:GA:115:G:C8	2.40	0.57
1:GA:1291:G:C3'	7:GG:41:ARG:NH1	2.63	0.57
1:GA:1396:A:H5'	1:GA:1398:A:OP1	2.03	0.57
1:GA:547:A:N3	1:GA:548:G:H1'	2.20	0.57
1:GA:563:A:H5'	1:GA:566:G:N2	2.19	0.57
1:GA:83:C:H1'	1:GA:87:G:N2	2.18	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:GE:127:ASN:HD21	5:GE:130:ASN:HD22	1.52	0.57
5:GE:135:THR:O	5:GE:139:LEU:HG	2.04	0.57
11:GK:45:GLY:HA3	11:GK:60:ALA:O	2.04	0.57
13:GM:93:ARG:NH1	22:HB:900:U:C3'	2.37	0.57
1:GA:718:G:O6	18:GR:81:PHE:CG	2.57	0.57
49:H3:42:PRO:HG3	49:H3:48:VAL:HB	1.86	0.57
51:H5:39:ASP:N	51:H5:41:ILE:HG22	2.19	0.57
22:HB:635:C:H5'	51:H5:63:PRO:HG3	1.83	0.57
22:HB:10:A:C5	22:HB:2608:A:C4	2.92	0.57
22:HB:1455:C:N3	22:HB:1567:A:N1	2.53	0.57
1:GA:1495:U:C5'	22:HB:1895:A:H1'	2.25	0.57
22:HB:1935:A:H2	22:HB:2539:C:O2	1.86	0.57
22:HB:2672:U:O4'	22:HB:2822:U:O2'	2.22	0.57
22:HB:415:A:O2'	22:HB:420:C:H5'	2.05	0.57
22:HB:404:A:H62	22:HB:424:G:N2	2.02	0.57
22:HB:598:U:H2'	22:HB:599:A:H8	1.69	0.57
22:HB:64:C:N3	22:HB:88:G:N2	2.49	0.57
22:HB:790:A:H2'	22:HB:791:G:C8	2.39	0.57
27:HG:31:ILE:HD11	27:HG:34:ILE:HD12	1.87	0.57
23:HA:92:G:N1	34:HN:39:GLU:CG	2.66	0.57
40:HT:54:GLU:C	40:HT:56:LEU:H	2.07	0.57
44:HX:47:ALA:HB1	44:HX:77:ARG:HH21	1.68	0.57
46:HZ:6:VAL:HB	46:HZ:50:LEU:HD23	1.85	0.57
46:HZ:53:VAL:HG13	46:HZ:54:GLN:H	1.67	0.57
1:IA:1104:G:O2'	2:IB:111:ARG:CZ	2.50	0.57
1:IA:1114:C:O2	14:IN:61:TRP:C	2.43	0.57
1:IA:1206:G:H2'	1:IA:1207:G:O4'	2.04	0.57
1:IA:1225:A:H3'	13:IM:103:THR:H	1.69	0.57
1:IA:878:G:H4'	8:IH:89:PRO:O	2.05	0.57
7:IG:117:ALA:HA	7:IG:120:ILE:HD12	1.87	0.57
12:IL:83:VAL:HA	12:IL:105:TYR:HB2	1.86	0.57
13:IM:22:ILE:HD12	13:IM:25:ILE:HD12	1.86	0.57
49:J3:22:TYR:C	49:J3:24:THR:H	2.06	0.57
52:J6:17:VAL:HG21	52:J6:24:LEU:HG	1.86	0.57
22:JB:1814:G:OP1	24:JD:88:ARG:NH2	2.37	0.57
22:JB:2184:C:H2'	22:JB:2185:U:C5	2.38	0.57
22:JB:2:G:N2	22:JB:2876:C:C2	2.72	0.57
22:JB:300:C:H42	22:JB:363:G:H1'	1.70	0.57
22:JB:339:U:H1'	42:JV:77:HIS:CD2	2.39	0.57
22:JB:716:U:C3'	22:JB:717:G:P	2.91	0.57
22:JB:2578:G:P	24:JD:228:PRO:HB3	2.44	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:JE:167:VAL:HG11	25:JE:170:LEU:HD12	1.85	0.57
22:JB:2511:G:C5'	28:JH:157:TYR:OH	2.52	0.57
30:JJ:111:LYS:NZ	30:JJ:115:LEU:HG	2.19	0.57
31:JK:46:ALA:HB1	31:JK:85:ALA:N	2.20	0.57
34:JN:121:LEU:H	34:JN:121:LEU:HD22	1.69	0.57
22:JB:541:C:C3'	38:JR:25:TRP:CD2	2.63	0.57
1:AA:1206:G:H2'	1:AA:1207:G:O4'	2.04	0.57
1:AA:318:G:N2	1:AA:1468:A:O2'	2.34	0.57
1:AA:953:G:O4'	13:AM:124:PRO:HD3	2.04	0.57
1:AA:15:G:N2	5:AE:17:ALA:O	2.27	0.57
1:AA:273:A:C1'	17:AQ:16:GLN:HG3	2.34	0.57
19:AS:12:ASP:N	19:AS:38:SER:HB3	2.15	0.57
22:BB:1071:U:O4	30:BJ:130:THR:OG1	2.22	0.57
22:BB:1490:U:H2'	22:BB:1533:G:N2	2.18	0.57
22:BB:1855:G:H4'	22:BB:2390:A:H5''	1.84	0.57
22:BB:218:A:N1	22:BB:232:A:H5''	2.19	0.57
22:BB:2449:G:O2'	22:BB:2450:A:H5'	2.05	0.57
22:BB:2499:C:H41	22:BB:2521:A:N6	2.02	0.57
22:BB:2682:C:H2'	22:BB:2683:C:C6	2.39	0.57
22:BB:2814:G:H21	35:BO:91:PRO:C	2.03	0.57
22:BB:356:A:H2'	22:BB:357:A:H8	1.69	0.57
22:BB:404:A:H62	22:BB:424:G:N2	2.02	0.57
22:BB:873:U:O4	22:BB:2247:A:C6	2.56	0.57
22:BB:968:C:OP1	34:BN:92:GLU:OE2	2.21	0.57
24:BD:10:THR:C	24:BD:12:SER:H	2.08	0.57
31:BK:122:HIS:HB3	31:BK:125:ARG:HB3	1.87	0.57
31:BK:126:VAL:HG13	31:BK:127:ILE:HG13	1.86	0.57
31:BK:43:VAL:HA	31:BK:81:VAL:HB	1.87	0.57
34:BN:45:SER:O	34:BN:48:ILE:HG22	2.04	0.57
38:BR:101:ARG:HH22	39:BS:43:GLU:HG2	1.68	0.57
22:BB:827:C:C4'	39:BS:84:THR:HA	2.33	0.57
22:BB:2344:G:H5''	44:BX:42:GLY:CA	2.33	0.57
1:CA:1229:A:N6	13:CM:120:LYS:HB3	2.18	0.57
1:CA:435:C:H4'	4:CD:156:GLU:CD	2.25	0.57
1:CA:579:G:H5'	1:CA:728:A:H1'	1.85	0.57
1:CA:73:C:H2'	1:CA:74:G:H8	1.70	0.57
4:CD:176:LEU:HA	4:CD:182:LYS:O	2.04	0.57
13:CM:31:LYS:HG3	13:CM:34:LEU:HD12	1.84	0.57
13:CM:88:ARG:HB2	13:CM:92:HIS:CE1	2.39	0.57
13:CM:83:ASP:C	13:CM:93:ARG:HH11	2.07	0.57
1:CA:276:G:C8	17:CQ:15:MET:HE1	2.40	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:985:C:C1'	19:CS:55:LYS:HD2	2.33	0.57
1:CA:1221:G:O3'	19:CS:77:THR:CG2	2.53	0.57
22:DB:166:G:C5'	47:D1:36:TRP:HE1	2.16	0.57
22:DB:16:G:H4'	48:D2:17:ASP:HB3	1.86	0.57
22:DB:1806:G:C1'	24:DD:52:ARG:HH22	2.16	0.57
22:DB:1880:G:H2'	22:DB:1881:U:O4'	2.05	0.57
22:DB:2015:G:C2	22:DB:2551:A:C2	2.91	0.57
22:DB:975:C:O2'	22:DB:2252:A:H1'	2.04	0.57
22:DB:225:G:H4'	47:D1:28:ARG:CB	2.31	0.57
22:DB:1139:A:N6	22:DB:2469:G:OP1	2.37	0.57
22:DB:2499:C:H41	22:DB:2521:A:N6	2.02	0.57
22:DB:2661:G:C5	25:DE:10:GLY:C	2.77	0.57
22:DB:2839:G:H2'	22:DB:2840:U:C6	2.39	0.57
22:DB:79:G:H1'	22:DB:356:A:H2	1.70	0.57
22:DB:415:A:O2'	22:DB:420:C:H5'	2.05	0.57
22:DB:44:G:H1'	22:DB:448:C:H42	1.68	0.57
22:DB:469:G:N7	50:D4:40:HIS:CG	2.68	0.57
22:DB:503:G:O2'	40:DT:28:ALA:CA	2.52	0.57
22:DB:505:G:P	40:DT:25:PHE:CD2	2.97	0.57
22:DB:675:C:O3'	33:DM:26:THR:N	2.34	0.57
22:DB:915:C:O2'	43:DW:164:PRO:CD	2.45	0.57
27:DG:33:LYS:NZ	27:DG:157:VAL:HG21	2.19	0.57
31:DK:67:ARG:HA	31:DK:70:PHE:HD2	1.69	0.57
33:DM:50:GLU:OE1	51:D5:58:MET:HE3	2.04	0.57
35:DO:112:LEU:HD22	35:DO:113:ILE:N	2.19	0.57
22:DB:1670:G:N1	35:DO:11:ASN:HA	2.16	0.57
38:DR:24:PHE:HB3	38:DR:28:ARG:CZ	2.34	0.57
39:DS:36:LYS:HE3	39:DS:39:PHE:HE1	1.70	0.57
1:EA:1081:G:C5'	5:EE:18:ARG:CG	2.74	0.57
1:EA:1117:G:H1	1:EA:1180:A:H1'	1.69	0.57
1:EA:208:U:H2'	1:EA:209:U:H5''	1.85	0.57
1:EA:563:A:H5'	1:EA:566:G:N2	2.19	0.57
6:EF:10:LEU:HB3	6:EF:85:VAL:HA	1.86	0.57
9:EI:43:ALA:HA	9:EI:74:ILE:HG21	1.86	0.57
11:EK:23:ALA:HB1	11:EK:88:GLY:N	2.19	0.57
13:EM:70:LEU:HD23	13:EM:73:GLU:HB3	1.85	0.57
17:EQ:17:LYS:HD3	17:EQ:45:HIS:HE1	1.68	0.57
49:F3:41:ASP:N	49:F3:47:HIS:HD1	2.02	0.57
22:FB:1629:G:O5'	50:F4:3:ARG:HD3	2.03	0.57
22:FB:1043:A:H5''	52:F6:23:VAL:HG21	1.86	0.57
22:FB:1030:U:P	22:FB:1046:U:H1'	2.45	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:FB:1450:G:N3	22:FB:1493:A:C2	2.72	0.57
22:FB:1481:U:H5'	22:FB:1561:A:N1	2.20	0.57
22:FB:1811:A:H2'	22:FB:1811:A:N3	2.17	0.57
22:FB:1880:G:H2'	22:FB:1881:U:O4'	2.05	0.57
22:FB:2283:G:C2'	27:FG:153:ASP:CB	2.72	0.57
22:FB:2258:G:C1'	22:FB:2306:A:HO2'	2.16	0.57
22:FB:2464:G:H4'	34:FN:122:ALA:N	2.17	0.57
22:FB:2537:C:H2'	22:FB:2538:C:C6	2.39	0.57
22:FB:356:A:H2'	22:FB:357:A:H8	1.69	0.57
22:FB:572:G:N2	38:FR:33:ARG:NH2	2.49	0.57
22:FB:66:U:C5	22:FB:87:G:N2	2.72	0.57
24:FD:227:ASN:O	24:FD:228:PRO:C	2.41	0.57
25:FE:23:VAL:HG23	25:FE:186:GLY:H	1.70	0.57
25:FE:19:ARG:HH22	37:FQ:65:SER:N	1.73	0.57
25:FE:53:PRO:HG3	25:FE:74:PRO:C	2.24	0.57
30:FJ:28:GLY:HA2	30:FJ:32:ALA:HB3	1.84	0.57
22:FB:2620:G:C5'	31:FK:102:ARG:HH11	2.15	0.57
22:FB:952:A:OP1	33:FM:38:LYS:HE2	2.04	0.57
34:FN:76:THR:HA	34:FN:89:GLY:O	2.03	0.57
25:FE:75:THR:HG21	37:FQ:2:GLN:HE22	0.63	0.57
22:FB:1238:A:P	39:FS:87:ARG:CD	2.91	0.57
23:FA:14:C:C4	44:FX:52:GLY:O	2.56	0.57
1:GA:1061:G:O4'	10:GJ:56:HIS:CE1	2.57	0.57
1:GA:111:G:H5'	16:GP:27:LYS:CG	2.18	0.57
1:GA:1206:G:H2'	1:GA:1207:G:O4'	2.04	0.57
1:GA:254:G:H4'	17:GQ:17:LYS:O	2.03	0.57
1:GA:52:G:N1	1:GA:360:A:H1'	2.18	0.57
1:GA:581:G:H3'	1:GA:758:G:O6	2.05	0.57
1:GA:309:G:H21	1:GA:607:A:H62	1.52	0.57
2:GB:7:VAL:HG12	2:GB:221:LEU:HD11	1.86	0.57
5:GE:132:ALA:O	5:GE:136:MET:HG2	2.04	0.57
1:GA:15:G:N9	5:GE:17:ALA:HB3	2.19	0.57
6:GF:80:ARG:HA	6:GF:85:VAL:HB	1.87	0.57
8:GH:43:GLY:HA3	8:GH:79:VAL:HG11	1.86	0.57
1:GA:1250:A:H5''	9:GI:68:GLY:N	2.18	0.57
49:H3:14:SER:HA	49:H3:52:GLU:HG3	1.87	0.57
52:H6:17:VAL:HG21	52:H6:24:LEU:HG	1.87	0.57
22:HB:2358:C:H5'	36:HP:19:THR:CG2	2.33	0.57
22:HB:2652:G:H21	32:HL:41:ASN:CG	2.06	0.57
22:HB:2726:U:H2'	22:HB:2727:G:O4'	2.05	0.57
26:HF:179:ASP:HA	26:HF:182:ARG:HG3	1.86	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:HG:38:GLU:HG2	27:HG:39:GLY:H	1.69	0.57
31:HK:122:HIS:HB3	31:HK:125:ARG:HB3	1.86	0.57
1:GA:346:G:OP1	32:HL:133:VAL:CG2	2.53	0.57
22:HB:2372:A:H5'	33:HM:62:LYS:HZ3	1.70	0.57
1:IA:1048:G:O3'	1:IA:1049:U:H3'	2.05	0.57
1:IA:114:U:H2'	1:IA:115:G:C8	2.40	0.57
1:IA:247:G:H4'	17:IQ:100:LYS:HG3	1.87	0.57
1:IA:814:A:H5'	1:IA:1511:G:C4'	2.34	0.57
3:IC:52:LEU:HD23	3:IC:52:LEU:H	1.70	0.57
5:IE:127:ASN:HD21	5:IE:130:ASN:HD22	1.52	0.57
5:IE:135:THR:O	5:IE:139:LEU:HG	2.04	0.57
1:IA:653:A:N1	8:IH:29:SER:HB3	2.19	0.57
8:IH:43:GLY:HA3	8:IH:79:VAL:HG11	1.86	0.57
8:IH:6:ILE:O	8:IH:10:LEU:HG	2.04	0.57
9:II:44:VAL:HG12	9:II:51:ARG:NH2	2.20	0.57
22:JB:2063:A:C4'	47:J1:33:VAL:HG13	2.34	0.57
22:JB:2262:C:H5'	49:J3:9:ILE:HG13	1.86	0.57
52:J6:2:LYS:HE3	52:J6:34:GLN:HG2	1.85	0.57
22:JB:10:A:C5	22:JB:2608:A:C5	2.93	0.57
22:JB:2239:C:O3'	22:JB:2367:A:OP1	2.22	0.57
22:JB:2260:C:O2'	22:JB:2368:G:C1'	2.53	0.57
22:JB:2336:G:HO2'	22:JB:2338:C:H5	1.52	0.57
22:JB:23:G:N3	40:JT:98:ASP:CG	2.51	0.57
22:JB:2701:A:H62	22:JB:2848:A:N6	1.96	0.57
22:JB:2839:G:H2'	22:JB:2840:U:C6	2.39	0.57
22:JB:2847:G:O2'	35:JO:8:ARG:HG2	2.05	0.57
22:JB:1856:U:H3	22:JB:3865:A:N6	1.99	0.57
22:JB:461:A:OP1	26:JF:79:GLY:CA	2.48	0.57
22:JB:474:G:H22	50:J4:12:ARG:NH2	2.03	0.57
22:JB:508:G:H2'	22:JB:509:U:O4'	2.03	0.57
22:JB:598:U:H2'	22:JB:599:A:H8	1.69	0.57
22:JB:790:A:H2'	22:JB:791:G:C8	2.39	0.57
22:JB:93:A:C4	45:JY:41:HIS:HD2	2.21	0.57
27:JG:38:GLU:HG2	27:JG:39:GLY:H	1.69	0.57
27:JG:83:MET:HB3	27:JG:84:PRO:HD2	1.86	0.57
22:JB:1072:U:H2'	30:JJ:11:GLN:HE22	1.70	0.57
23:JA:117:G:O3'	36:JP:53:ALA:N	2.36	0.57
39:JS:87:ARG:NH1	39:JS:89:ASN:HA	2.20	0.57
43:JW:30:VAL:HG12	43:JW:31:SER:H	1.69	0.57
22:JB:1000:G:C5	46:JZ:10:ILE:HD11	2.40	0.57
1:AA:817:C:H5'	1:AA:820:U:P	2.45	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1231:G:C5	13:AM:126:LYS:HG2	2.39	0.57
14:AN:47:LEU:HA	14:AN:50:LYS:HB2	1.87	0.57
1:AA:668:G:C1'	15:AO:46:HIS:HA	2.35	0.57
20:AT:102:GLY:O	1:GA:180:U:H5''	2.05	0.57
51:B5:39:ASP:N	51:B5:41:ILE:HG22	2.19	0.57
53:B7:66:VAL:HG12	53:B7:68:PRO:HD3	1.87	0.57
23:BA:31:A:H1'	23:BA:61:A:H61	1.68	0.57
22:BB:1000:G:P	22:BB:1168:G:H5'	2.44	0.57
22:BB:586:G:O3'	22:BB:1268:U:H1'	2.05	0.57
22:BB:177:U:H5'	47:B1:31:ILE:CD1	2.23	0.57
22:BB:1880:G:H2'	22:BB:1881:U:O4'	2.05	0.57
22:BB:1888:C:H2'	22:BB:1913:G:C8	2.39	0.57
22:BB:1999:U:H1'	48:B2:7:PRO:HG2	1.87	0.57
22:BB:2276:C:N4	22:BB:2299:A:H1'	2.16	0.57
22:BB:2470:U:O2	22:BB:2549:G:P	2.61	0.57
39:BS:87:ARG:NH1	39:BS:89:ASN:HA	2.19	0.57
43:BW:30:VAL:HG12	43:BW:31:SER:H	1.69	0.57
1:CA:1117:G:H1	1:CA:1180:A:H1'	1.70	0.57
1:CA:1197:G:OP1	1:CA:1197:G:H3'	2.04	0.57
1:CA:1396:A:H5'	1:CA:1398:A:OP1	2.03	0.57
1:CA:1424:C:H2'	1:CA:1425:U:O4'	2.04	0.57
1:CA:439:A:H1'	4:CD:122:ARG:HH12	1.69	0.57
1:CA:761:G:N1	17:CQ:104:LYS:HA	1.95	0.57
2:CB:118:LEU:HD22	2:CB:142:LEU:HD21	1.87	0.57
7:CG:103:TRP:HE1	7:CG:137:LYS:CB	2.18	0.57
12:CL:110:VAL:HG21	12:CL:120:TYR:HA	1.86	0.57
13:CM:70:LEU:HD23	13:CM:73:GLU:HB3	1.85	0.57
13:CM:89:GLY:CA	13:CM:90:LEU:O	2.52	0.57
51:D5:35:GLY:N	51:D5:36:LYS:HZ3	2.01	0.57
53:D7:111:LEU:HD13	53:D7:148:ILE:HG23	1.86	0.57
23:DA:57:U:H4'	27:DG:25:VAL:HG22	1.87	0.57
22:DB:2492:G:C5	22:DB:2493:U:O4	2.58	0.57
22:DB:2627:G:N3	32:DL:27:SER:O	2.36	0.57
22:DB:2786:G:H1'	25:DE:59:VAL:HG13	1.83	0.57
25:DE:152:LYS:N	31:DK:106:TYR:CE2	2.72	0.57
22:DB:1149:G:O5'	31:DK:55:ALA:CB	2.52	0.57
32:DL:58:ALA:HB2	32:DL:66:ALA:O	2.05	0.57
32:DL:83:ARG:HD3	32:DL:85:ASP:HB3	1.86	0.57
22:DB:648:A:N3	33:DM:109:LEU:HD21	2.18	0.57
22:DB:596:C:C3'	33:DM:28:LYS:NZ	2.67	0.57
33:DM:81:GLN:O	33:DM:118:VAL:HG11	2.05	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DO:5:LYS:HZ2	35:DO:6:ALA:HB2	1.69	0.57
22:DB:1234:C:C4'	39:DS:68:LYS:HD2	2.21	0.57
40:DT:73:ASN:HD22	40:DT:73:ASN:H	1.50	0.57
1:EA:1189:C:C2'	3:EC:176:HIS:CE1	2.71	0.57
1:EA:1424:C:H2'	1:EA:1425:U:O4'	2.04	0.57
1:EA:28:G:H2'	1:EA:29:G:O4'	2.05	0.57
1:EA:478:A:H2'	1:EA:479:C:H5'	1.86	0.57
1:EA:817:C:H5'	1:EA:820:U:P	2.45	0.57
1:EA:966:G:O3'	9:EI:128:ARG:HA	2.03	0.57
1:EA:420:U:H5''	3:EC:127:ARG:HH22	1.69	0.57
3:EC:52:LEU:HD23	3:EC:52:LEU:H	1.70	0.57
1:EA:1374:A:HO2'	7:EG:28:ASN:C	2.08	0.57
1:EA:995:C:O2	14:EN:4:LYS:HB2	2.04	0.57
1:EA:1457:A:O3'	20:ET:24:LEU:HA	2.05	0.57
20:ET:35:THR:HG23	20:ET:38:LYS:HZ2	1.70	0.57
22:FB:1827:G:N2	22:FB:1828:C:N4	2.53	0.57
22:FB:218:A:N1	22:FB:232:A:H5''	2.19	0.57
22:FB:2437:G:H2'	22:FB:2469:G:N1	2.20	0.57
22:FB:1742:G:C2'	22:FB:2835:A:H2'	2.35	0.57
22:FB:415:A:O2'	22:FB:420:C:H5'	2.05	0.57
22:FB:742:G:C5	24:FD:208:LYS:CD	2.88	0.57
31:FK:34:PRO:HB2	31:FK:37:ASP:HB3	1.86	0.57
33:FM:61:PRO:HB2	51:F5:12:ARG:CD	2.33	0.57
22:FB:965:G:H5'	34:FN:18:MET:HG3	1.80	0.57
22:FB:1288:A:C2	35:FO:16:ALA:HA	2.40	0.57
25:FE:17:ASN:HB3	37:FQ:89:ASN:HB3	1.87	0.57
42:FV:64:ASN:O	42:FV:65:PRO:C	2.42	0.57
22:FB:869:C:C6	44:FX:25:LYS:HD3	2.40	0.57
44:FX:49:GLN:HG3	44:FX:55:ARG:HD3	1.85	0.57
1:GA:1048:G:O3'	1:GA:1049:U:H3'	2.05	0.57
1:GA:1233:G:H2'	1:GA:1234:C:C6	2.39	0.57
1:GA:1335:C:H5''	1:GA:1337:G:N2	2.19	0.57
1:GA:826:C:O2'	8:GH:12:ARG:CD	2.51	0.57
1:GA:927:G:H1'	1:GA:1531:A:H2	0.80	0.57
2:GB:149:LEU:HG	2:GB:152:PHE:HB3	1.87	0.57
5:GE:90:VAL:O	5:GE:120:THR:HG23	2.04	0.57
8:GH:6:ILE:O	8:GH:10:LEU:HG	2.04	0.57
1:GA:60:A:N6	20:GT:12:ALA:CA	2.57	0.57
22:HB:2399:C:H5''	49:H3:24:THR:OG1	2.04	0.57
22:HB:1012:A:H61	22:HB:1165:G:H1'	1.69	0.57
22:HB:1015:U:O2'	22:HB:1022:A:H5''	2.04	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:HB:1044:U:O4'	52:H6:9:LYS:NZ	2.36	0.57
22:HB:2184:C:H2'	22:HB:2185:U:C5	2.39	0.57
22:HB:2446:C:H2'	22:HB:2447:G:C8	2.39	0.57
22:HB:2747:C:C4'	31:HK:114:THR:CB	2.78	0.57
22:HB:547:U:H4'	31:HK:30:LYS:HD2	1.87	0.57
22:HB:839:U:H5'	22:HB:2407:G:H2'	1.85	0.57
24:HD:85:ASP:H	24:HD:86:PRO:HD2	1.68	0.57
32:HL:123:PHE:HA	32:HL:126:ILE:HD12	1.86	0.57
32:HL:83:ARG:NH1	37:HQ:81:PHE:HE2	1.93	0.57
22:HB:631:G:H2'	33:HM:101:ARG:NH2	2.15	0.57
44:HX:31:VAL:HG12	44:HX:32:LYS:HG2	1.86	0.57
1:IA:978:A:H1'	1:IA:1321:C:H42	1.68	0.57
1:IA:478:A:H2'	1:IA:479:C:H5'	1.87	0.57
1:IA:526:C:H2'	1:IA:527:G:H4'	1.86	0.57
1:IA:955:U:H2'	1:IA:956:U:O4'	2.04	0.57
3:IC:37:GLN:HA	3:IC:40:ARG:HB2	1.86	0.57
9:II:11:LYS:HG3	9:II:108:VAL:HG22	1.87	0.57
1:IA:376:G:H4'	16:IP:5:ARG:HD2	1.85	0.57
22:JB:2263:C:P	49:J3:8:ILE:CG1	2.92	0.57
22:JB:3121:G:OP1	53:J7:130:PRO:HD2	2.04	0.57
23:JA:31:A:H1'	23:JA:61:A:H61	1.68	0.57
22:JB:1047:G:C6	22:JB:1048:U:O2	2.57	0.57
22:JB:1074:G:C4'	30:JJ:134:MET:SD	2.92	0.57
22:JB:1297:A:N6	22:JB:1342:U:OP1	2.37	0.57
22:JB:2550:C:C2	22:JB:2553:G:H1'	2.39	0.57
22:JB:340:G:N2	22:JB:488:A:N6	2.52	0.57
22:JB:404:A:H62	22:JB:424:G:H21	1.51	0.57
22:JB:627:A:H2'	22:JB:628:A:C4	2.39	0.57
22:JB:634:G:N7	33:JM:98:LEU:HD21	2.19	0.57
22:JB:941:U:C6	46:JZ:22:ALA:O	2.58	0.57
22:JB:2293:G:H4'	27:JG:33:LYS:HE3	1.87	0.57
28:JH:72:VAL:O	28:JH:76:VAL:HG23	2.05	0.57
31:JK:77:GLY:HA3	31:JK:147:ARG:NH2	2.15	0.57
37:JQ:33:VAL:HG22	37:JQ:96:ARG:O	2.04	0.57
38:JR:24:PHE:HB3	38:JR:28:ARG:CZ	2.34	0.57
22:JB:529:U:C4'	40:JT:39:ARG:CZ	2.82	0.57
40:JT:40:LEU:HD12	48:J2:20:ARG:CD	2.34	0.57
1:AA:26:A:H61	4:AD:209:ARG:HH21	1.51	0.57
1:AA:478:A:H2'	1:AA:479:C:H5'	1.86	0.57
1:AA:421:U:C5	3:AC:127:ARG:NH1	2.69	0.57
5:AE:80:ILE:HG21	8:AH:138:TRP:CD2	2.39	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:AF:45:LEU:HD12	6:AF:59:TYR:HD1	1.68	0.57
7:AG:103:TRP:HE1	7:AG:137:LYS:CB	2.18	0.57
11:AK:83:ILE:HG12	11:AK:107:SER:OG	2.05	0.57
20:AT:99:LEU:O	1:GA:179:A:C2	2.58	0.57
49:B3:28:ARG:HG3	49:B3:29:ARG:N	2.19	0.57
53:B7:80:SER:N	53:B7:81:PRO:HD3	2.19	0.57
23:BA:92:G:C2'	34:BN:22:ALA:CA	2.82	0.57
22:BB:1043:A:H2'	52:B6:16:VAL:CG1	2.32	0.57
22:BB:1437:A:O2'	22:BB:1438:G:O4'	2.05	0.57
22:BB:2444:C:H4'	52:B6:3:VAL:HG22	0.58	0.57
22:BB:323:G:H5'	22:BB:342:G:O6	2.05	0.57
22:BB:886:A:H2'	43:BW:167:THR:HG21	1.84	0.57
24:BD:105:ILE:HG23	24:BD:106:LEU:O	2.05	0.57
22:BB:1782:A:O2'	24:BD:205:VAL:CG2	2.52	0.57
24:BD:221:GLN:H	24:BD:222:ARG:NH1	2.03	0.57
27:BG:33:LYS:NZ	27:BG:157:VAL:HG21	2.19	0.57
30:BJ:111:LYS:NZ	30:BJ:115:LEU:HG	2.19	0.57
22:BB:648:A:N3	33:BM:109:LEU:HD11	2.19	0.57
40:BT:26:ALA:HB3	40:BT:126:ILE:HB	1.85	0.57
42:BV:64:ASN:O	42:BV:65:PRO:C	2.43	0.57
42:BV:51:VAL:HG11	42:BV:74:LEU:HD22	1.87	0.57
1:CA:1436:U:H2'	1:CA:1437:C:C6	2.39	0.57
1:CA:559:A:N1	5:CE:126:ARG:CG	2.68	0.57
1:CA:581:G:H3'	1:CA:758:G:O6	2.04	0.57
1:CA:817:C:H5'	1:CA:820:U:P	2.45	0.57
2:CB:115:LEU:HD12	2:CB:142:LEU:HD22	1.85	0.57
5:CE:143:ARG:HH22	8:CH:69:ARG:HH12	1.44	0.57
5:CE:18:ARG:HH22	5:CE:27:ARG:HB2	1.68	0.57
8:CH:6:ILE:O	8:CH:10:LEU:HG	2.04	0.57
1:CA:1345:U:OP1	9:CI:120:ARG:NE	2.37	0.57
9:CI:14:VAL:HG12	9:CI:15:ALA:H	1.70	0.57
1:CA:1279:A:OP2	10:CJ:7:LYS:HD2	2.04	0.57
11:CK:45:GLY:HA3	11:CK:60:ALA:O	2.04	0.57
1:CA:43:C:C3'	16:CP:12:LYS:HE3	2.26	0.57
17:CQ:4:LYS:O	17:CQ:60:ILE:HA	2.05	0.57
20:CT:88:VAL:HG11	20:CT:92:LEU:HD12	1.87	0.57
48:D2:26:THR:O	48:D2:27:ALA:HB3	2.05	0.57
22:DB:123:A:O5'	50:D4:14:LYS:CB	2.44	0.57
22:DB:586:G:O3'	22:DB:1268:U:H1'	2.05	0.57
22:DB:1826:U:O2'	22:DB:1952:A:H2'	2.04	0.57
22:DB:936:A:H2'	22:DB:937:C:C6	2.39	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:DB:2490:U:C4'	25:DE:122:PHE:CD1	2.84	0.57
25:DE:167:VAL:HG11	25:DE:170:LEU:HD12	1.85	0.57
28:DH:53:GLU:HG2	28:DH:55:PRO:HD3	1.87	0.57
22:DB:2373:C:C5'	33:DM:59:ARG:HH12	2.16	0.57
39:DS:35:LEU:HD13	39:DS:36:LYS:N	2.20	0.57
43:DW:3:LEU:HB2	43:DW:56:VAL:HA	1.85	0.57
22:DB:935:C:C1'	44:DX:26:PHE:CD2	2.88	0.57
1:EA:15:G:O4'	5:EE:24:ARG:NH2	2.38	0.57
1:EA:526:C:H2'	1:EA:527:G:H4'	1.86	0.57
1:EA:581:G:H3'	1:EA:758:G:O6	2.04	0.57
1:EA:591:U:OP2	8:EH:30:ARG:CG	2.52	0.57
9:EI:14:VAL:HG12	9:EI:15:ALA:H	1.70	0.57
1:EA:667:G:C1'	15:EO:51:HIS:HB2	2.35	0.57
16:EP:8:ARG:HH21	16:EP:15:PRO:HB3	1.69	0.57
20:ET:88:VAL:HG11	20:ET:92:LEU:HD12	1.87	0.57
22:FB:394:U:H1'	47:F1:13:LYS:NZ	2.19	0.57
22:FB:1043:A:H4'	52:F6:23:VAL:HB	1.86	0.57
23:FA:78:A:C4'	43:FW:13:LYS:HD2	2.16	0.57
22:FB:124:A:C8	50:F4:19:ARG:CB	2.87	0.57
22:FB:1363:C:C1'	22:FB:1588:A:H1'	2.33	0.57
22:FB:1627:C:O2'	50:F4:7:PRO:CD	2.52	0.57
22:FB:2470:U:N3	22:FB:2548:G:O2'	2.36	0.57
22:FB:2499:C:H41	22:FB:2521:A:N6	2.02	0.57
22:FB:2623:A:OP2	22:FB:2624:G:OP1	2.22	0.57
22:FB:3126:A:OP1	53:F7:26:PHE:CZ	2.57	0.57
22:FB:680:U:P	33:FM:48:PHE:CD1	2.98	0.57
22:FB:58:C:O2	22:FB:72:A:N3	2.37	0.57
22:FB:2186:G:H2'	24:FD:70:ARG:HH21	1.68	0.57
22:FB:2490:U:H5'	25:FE:122:PHE:CE1	2.35	0.57
22:FB:1673:C:C3'	25:FE:136:ARG:HG2	2.34	0.57
22:FB:2786:G:H1'	25:FE:61:LYS:HD2	1.87	0.57
22:FB:2540:A:HO2'	32:FL:23:ARG:CB	2.12	0.57
33:FM:122:VAL:HG13	33:FM:123:ASP:H	1.69	0.57
36:FP:30:SER:HB3	36:FP:32:TYR:CE2	2.40	0.57
1:GA:1379:G:OP2	7:GG:6:ARG:NH1	2.38	0.57
1:GA:1380:U:O4	7:GG:2:ALA:O	2.23	0.57
1:GA:1390:U:H2'	1:GA:1391:U:O4'	2.05	0.57
1:GA:753:A:H4'	1:GA:754:C:O5'	2.04	0.57
1:GA:955:U:H2'	1:GA:956:U:O4'	2.04	0.57
1:GA:978:A:H1'	1:GA:1321:C:H42	1.68	0.57
2:GB:176:GLU:HG3	2:GB:179:LYS:HZ1	1.67	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:GC:52:LEU:HD23	3:GC:52:LEU:H	1.70	0.57
4:GD:176:LEU:HA	4:GD:182:LYS:O	2.04	0.57
1:GA:426:G:O3'	4:GD:41:GLY:HA2	2.04	0.57
7:GG:117:ALA:HA	7:GG:120:ILE:HD12	1.87	0.57
10:GJ:21:GLN:HB3	10:GJ:25:GLU:HG3	1.86	0.57
19:GS:12:ASP:N	19:GS:38:SER:HB3	2.15	0.57
20:GT:52:ALA:C	20:GT:92:LEU:HD11	2.25	0.57
52:H6:2:LYS:HE3	52:H6:34:GLN:HG2	1.84	0.57
53:H7:41:MSE:HE2	53:H7:47:LYS:HD2	1.85	0.57
22:HB:3166:G:P	53:H7:98:ARG:HG2	2.45	0.57
23:HA:28:A:H2	23:HA:120:G:H4'	1.70	0.57
22:HB:1347:C:OP1	41:HU:63:LYS:CD	2.49	0.57
22:HB:2075:U:C3'	22:HB:3093:C:OP2	2.52	0.57
22:HB:2396:C:H2'	22:HB:2397:A:O4'	2.04	0.57
22:HB:2499:C:H41	22:HB:2521:A:N6	2.02	0.57
22:HB:2806:G:OP1	25:HE:57:ARG:HG2	2.05	0.57
22:HB:3876:A:C6	53:H7:44:GLY:C	2.78	0.57
22:HB:54:G:H2'	22:HB:55:A:C8	2.40	0.57
22:HB:542:A:C5	22:HB:570:G:C2	2.93	0.57
22:HB:845:U:H1'	33:HM:53:ARG:HH22	1.69	0.57
22:HB:1788:C:OP1	24:HD:254:THR:HG23	2.05	0.57
28:HH:72:VAL:O	28:HH:76:VAL:HG23	2.05	0.57
31:HK:46:ALA:HB1	31:HK:85:ALA:N	2.20	0.57
22:HB:568:G:C6	38:HR:45:TYR:OH	2.55	0.57
40:HT:106:LEU:HG	40:HT:117:ILE:HG12	1.86	0.57
1:IA:1226:C:O2'	19:IS:80:TYR:CZ	2.57	0.57
1:EA:1265:G:HO2'	1:IA:1272:G:HO2'	1.17	0.57
4:ID:109:GLY:O	4:ID:161:ASN:HB2	2.05	0.57
1:IA:826:C:C4'	8:IH:12:ARG:HG2	2.34	0.57
14:IN:24:CYS:SG	14:IN:39:LEU:HA	2.45	0.57
22:JB:1999:U:O2'	48:J2:6:VAL:N	2.36	0.57
51:J5:39:ASP:N	51:J5:41:ILE:HG22	2.19	0.57
22:JB:3122:U:C2'	53:J7:158:LYS:NZ	2.68	0.57
23:JA:28:A:H2	23:JA:120:G:H4'	1.70	0.57
22:JB:1015:U:O2'	22:JB:1022:A:H5''	2.04	0.57
22:JB:1165:G:OP1	38:JR:58:ARG:HG2	1.98	0.57
22:JB:1888:C:C2'	22:JB:1889:G:OP1	2.53	0.57
22:JB:2261:G:C5'	49:J3:3:LYS:HZ1	2.17	0.57
22:JB:2241:U:C4	22:JB:2306:A:H2	2.22	0.57
22:JB:218:A:N1	22:JB:232:A:H5''	2.20	0.57
22:JB:2371:A:O3'	51:J5:29:LYS:HD3	2.05	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:JB:2398:U:O4	51:J5:30:ARG:HB2	2.03	0.57
22:JB:2823:G:H3'	37:JQ:103:LYS:C	2.19	0.57
22:JB:93:A:O2'	45:JY:40:PRO:CB	2.49	0.57
24:JD:105:ILE:HG23	24:JD:106:LEU:O	2.05	0.57
27:JG:31:ILE:HD11	27:JG:34:ILE:HD12	1.87	0.57
30:JJ:20:ALA:HB3	30:JJ:21:PRO:HD3	1.85	0.57
30:JJ:55:VAL:HA	30:JJ:70:LYS:HG2	1.87	0.57
22:JB:2652:G:C4'	32:JL:46:HIS:NE2	2.61	0.57
22:JB:1745:C:OP2	37:JQ:122:SER:OG	2.22	0.57
22:JB:543:G:H5''	38:JR:22:LYS:NZ	1.98	0.57
39:JS:36:LYS:HE3	39:JS:39:PHE:HE1	1.70	0.57
22:JB:73:A:H5'	45:JY:48:ARG:CZ	2.35	0.57
1:AA:180:U:O3'	20:GT:98:PRO:HG3	2.03	0.57
1:AA:276:G:N2	17:AQ:68:ARG:CZ	2.68	0.57
1:AA:331:G:N2	20:AT:8:ARG:C	2.57	0.57
2:AB:7:VAL:HG12	2:AB:221:LEU:HD11	1.86	0.57
1:AA:1374:A:P	7:AG:36:LYS:HZ1	2.27	0.57
7:AG:66:VAL:HG12	7:AG:70:LYS:HG3	1.87	0.57
11:AK:86:GLY:HA2	11:AK:112:THR:HG23	1.86	0.57
13:AM:70:LEU:HD23	13:AM:73:GLU:HB3	1.85	0.57
9:AI:111:ARG:HD2	14:AN:61:TRP:CZ2	2.40	0.57
16:AP:8:ARG:HH21	16:AP:15:PRO:HB3	1.69	0.57
22:BB:1019:U:P	31:BK:136:PRO:HA	2.45	0.57
22:BB:1356:G:O2'	22:BB:1613:G:H8	1.71	0.57
22:BB:13:A:H61	22:BB:535:U:H2'	1.70	0.57
22:BB:1417:C:P	22:BB:1485:U:HO2'	2.27	0.57
22:BB:1583:A:H61	24:BD:89:SER:HB3	1.67	0.57
22:BB:975:C:O2'	22:BB:2252:A:H1'	2.04	0.57
22:BB:2336:G:HO2'	22:BB:2338:C:H5	1.52	0.57
22:BB:2396:C:H2'	22:BB:2397:A:O4'	2.05	0.57
22:BB:2446:C:H2'	22:BB:2447:G:C8	2.40	0.57
22:BB:2599:U:O2	25:BE:156:MET:HE1	2.04	0.57
22:BB:2680:U:H3'	22:BB:2681:A:C5'	2.35	0.57
22:BB:54:G:N3	22:BB:124:A:H2	2.03	0.57
22:BB:817:A:OP1	33:BM:45:LYS:CE	2.49	0.57
22:BB:917:U:O2'	43:BW:166:LEU:CD2	2.43	0.57
22:BB:936:A:H2'	22:BB:937:C:C6	2.39	0.57
25:BE:167:VAL:HG11	25:BE:170:LEU:HD12	1.85	0.57
22:BB:686:C:C5'	26:BF:74:VAL:HG12	2.31	0.57
28:BH:72:VAL:O	28:BH:76:VAL:HG23	2.05	0.57
30:BJ:20:ALA:HB3	30:BJ:21:PRO:CD	2.35	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:BL:83:ARG:HD3	32:BL:85:ASP:HB3	1.86	0.57
33:BM:56:LEU:HD23	33:BM:57:ILE:N	2.20	0.57
22:BB:968:C:OP1	34:BN:76:THR:C	2.43	0.57
22:BB:489:A:O5'	42:BV:4:PRO:O	2.22	0.57
22:BB:2365:U:OP1	44:BX:39:ARG:CZ	2.53	0.57
44:BX:44:LYS:HA	44:BX:64:ASP:HA	1.85	0.57
1:CA:1205:U:H5''	3:CC:195:VAL:CG2	2.33	0.57
1:CA:1390:U:H2'	1:CA:1391:U:O4'	2.04	0.57
1:CA:953:G:C6	13:CM:123:ALA:O	2.34	0.57
4:CD:109:GLY:O	4:CD:161:ASN:HB2	2.05	0.57
4:CD:162:LEU:HB3	4:CD:166:LYS:HG3	1.86	0.57
5:CE:127:ASN:HD21	5:CE:130:ASN:HD22	1.53	0.57
10:CJ:62:HIS:HB2	14:CN:59:ALA:CB	2.32	0.57
49:D3:42:PRO:HG3	49:D3:48:VAL:HB	1.87	0.57
23:DA:31:A:H1'	23:DA:61:A:H61	1.68	0.57
23:DA:79:U:OP1	43:DW:10:PRO:CB	2.53	0.57
22:DB:1828:C:N4	22:DB:1888:C:C2	2.60	0.57
22:DB:1829:C:O2'	22:DB:1910:A:C2'	2.52	0.57
22:DB:2437:G:H2'	22:DB:2469:G:N1	2.20	0.57
22:DB:465:C:H42	50:D4:39:ARG:NE	1.98	0.57
22:DB:525:A:H4'	38:DR:31:GLN:HE22	1.62	0.57
22:DB:610:G:H21	22:DB:615:C:H5'	1.70	0.57
24:DD:221:GLN:H	24:DD:222:ARG:NH1	2.03	0.57
22:DB:1516:A:HO2'	24:DD:98:ALA:HB2	1.68	0.57
25:DE:105:THR:H	25:DE:196:VAL:HG13	1.70	0.57
25:DE:111:LYS:HE3	25:DE:160:MET:HB3	1.86	0.57
25:DE:55:ALA:HA	25:DE:58:LYS:HZ1	1.70	0.57
22:DB:2786:G:H4'	25:DE:59:VAL:CB	2.34	0.57
34:DN:127:PRO:HB2	34:DN:129:GLN:HE22	1.69	0.57
22:DB:2669:C:N4	35:DO:18:VAL:CG1	2.67	0.57
42:DV:51:VAL:HG11	42:DV:74:LEU:HD22	1.87	0.57
43:DW:84:TYR:HD2	43:DW:128:ARG:CZ	2.16	0.57
44:DX:46:LYS:HD3	44:DX:67:VAL:HG11	1.86	0.57
1:EA:1197:G:OP1	1:EA:1197:G:H3'	2.04	0.57
1:EA:279:A:H2'	17:EQ:94:ASN:C	2.25	0.57
4:ED:196:LEU:HD23	4:ED:197:PRO:CD	2.33	0.57
4:ED:205:GLU:HG3	5:EE:101:ILE:HG12	1.81	0.57
7:EG:103:TRP:HE1	7:EG:137:LYS:CB	2.18	0.57
9:EI:44:VAL:HG12	9:EI:51:ARG:NH2	2.20	0.57
14:EN:47:LEU:HA	14:EN:50:LYS:HB2	1.87	0.57
40:FT:60:ILE:HG22	48:F2:25:LEU:HD11	0.92	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:FB:2590:U:C4	48:F2:2:ALA:CB	2.85	0.57
51:F5:35:GLY:N	51:F5:36:LYS:HZ3	2.01	0.57
22:FB:2040:A:C1'	48:F2:3:LYS:HB2	2.20	0.57
22:FB:975:C:O2'	22:FB:2252:A:H1'	2.04	0.57
22:FB:2446:C:H2'	22:FB:2447:G:C8	2.40	0.57
22:FB:610:G:H21	22:FB:615:C:H5'	1.70	0.57
26:FF:179:ASP:HA	26:FF:182:ARG:HG3	1.86	0.57
27:FG:38:GLU:HG2	27:FG:39:GLY:H	1.68	0.57
32:FL:21:CYS:CA	32:FL:54:SER:H	2.13	0.57
33:FM:81:GLN:O	33:FM:118:VAL:HG11	2.04	0.57
22:FB:2372:A:O5'	33:FM:60:LEU:HD12	2.05	0.57
34:FN:127:PRO:HB2	34:FN:129:GLN:HE22	1.69	0.57
32:FL:91:PHE:CG	37:FQ:79:ARG:HD2	2.35	0.57
22:FB:346:C:O2	42:FV:79:SER:N	2.36	0.57
22:FB:2240:C:H3'	44:FX:15:ASP:N	2.19	0.57
1:GA:1196:U:C4	1:GA:1397:C:H5	2.22	0.57
1:GA:1442:G:N2	1:GA:1443:G:H3'	2.18	0.57
1:GA:478:A:H2'	1:GA:479:C:H5'	1.87	0.57
1:GA:691:G:OP2	11:GK:26:ASN:CG	2.43	0.57
3:GC:173:VAL:HG22	3:GC:203:PHE:HB2	1.85	0.57
1:GA:1374:A:O3'	7:GG:28:ASN:ND2	2.38	0.57
13:GM:70:LEU:HD23	13:GM:73:GLU:HB3	1.86	0.57
1:GA:192:U:C2'	20:GT:60:GLU:OE1	2.51	0.57
22:HB:1641:C:H2'	22:HB:1642:G:O4'	2.05	0.57
22:HB:173:A:P	33:HM:55:ARG:NH2	2.78	0.57
22:HB:2299:A:H5'	22:HB:2300:G:C8	2.40	0.57
22:HB:2404:A:H5'	22:HB:2406:C:N1	2.20	0.57
22:HB:2747:C:H2'	31:HK:118:ALA:O	2.05	0.57
22:HB:2785:A:H2'	22:HB:2786:G:H8	1.70	0.57
22:HB:489:A:H4'	42:HV:5:SER:OG	2.05	0.57
22:HB:625:A:C1'	26:HF:38:ARG:HD3	2.35	0.57
22:HB:677:G:C2'	22:HB:678:G:H8	2.18	0.57
27:HG:83:MET:HB3	27:HG:84:PRO:HD2	1.87	0.57
27:HG:92:ARG:HB2	27:HG:96:MET:SD	2.44	0.57
30:HJ:55:VAL:HA	30:HJ:70:LYS:HG2	1.86	0.57
32:HL:58:ALA:HB2	32:HL:66:ALA:O	2.05	0.57
22:HB:2685:A:C4'	35:HO:64:ARG:NH2	2.48	0.57
22:HB:1167:A:C2	38:HR:48:ARG:NE	2.73	0.57
41:HU:88:ILE:HG12	41:HU:90:ALA:N	2.14	0.57
42:HV:51:VAL:HG11	42:HV:74:LEU:HD22	1.87	0.57
22:HB:2332:G:H22	44:HX:66:LYS:HE2	1.69	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:HX:74:LYS:N	44:HX:74:LYS:HZ2	2.03	0.57
41:HU:92:ALA:CB	45:HY:24:GLU:OE1	2.50	0.57
1:IA:1106:G:H2'	1:IA:1107:C:C6	2.40	0.57
1:IA:1308:U:C3'	13:IM:99:ARG:CD	2.81	0.57
1:IA:1442:G:N2	1:IA:1443:G:H3'	2.18	0.57
1:IA:1530:G:O2'	1:IA:1531:A:H5'	2.04	0.57
1:IA:287:U:H2'	1:IA:288:A:H8	1.69	0.57
1:IA:475:C:H2'	1:IA:476:U:C6	2.40	0.57
1:IA:483:C:H2'	16:IP:13:HIS:CD2	2.27	0.57
1:IA:547:A:N3	1:IA:548:G:H1'	2.20	0.57
1:IA:73:C:H2'	1:IA:74:G:H8	1.69	0.57
1:IA:1228:C:H5	13:IM:104:ARG:CG	2.18	0.57
14:IN:48:ALA:HA	14:IN:53:LEU:HD21	1.86	0.57
22:JB:2789:U:O2	48:J2:30:LEU:HD13	2.04	0.57
22:JB:2506:C:P	52:J6:33:LYS:HB3	2.42	0.57
22:JB:1641:C:H2'	22:JB:1642:G:O4'	2.05	0.57
22:JB:1998:A:O2'	48:J2:3:LYS:CA	2.52	0.57
22:JB:2404:A:H5'	22:JB:2406:C:N1	2.20	0.57
22:JB:2446:C:H2'	22:JB:2447:G:C8	2.40	0.57
22:JB:2437:G:H2'	22:JB:2469:G:N1	2.20	0.57
22:JB:2528:G:N1	22:JB:2538:C:N3	2.46	0.57
22:JB:2726:U:H2'	22:JB:2727:G:O4'	2.05	0.57
22:JB:2721:A:N6	22:JB:2742:G:H22	2.03	0.57
22:JB:3168:G:C6	53:J7:101:LYS:HG3	2.40	0.57
22:JB:54:G:H2'	22:JB:55:A:C8	2.40	0.57
22:JB:586:G:O3'	22:JB:1268:U:H1'	2.05	0.57
22:JB:868:U:H1'	44:JX:25:LYS:NZ	2.19	0.57
26:JF:179:ASP:HA	26:JF:182:ARG:HG3	1.87	0.57
30:JJ:125:ASN:ND2	30:JJ:126:THR:H	2.01	0.57
30:JJ:20:ALA:HB3	30:JJ:21:PRO:CD	2.35	0.57
31:JK:34:PRO:HB2	31:JK:37:ASP:HB3	1.86	0.57
22:JB:985:G:OP2	39:JS:80:TYR:CD2	2.51	0.57
40:JT:106:LEU:HG	40:JT:117:ILE:HG12	1.86	0.57
42:JV:64:ASN:O	42:JV:65:PRO:C	2.43	0.57
22:JB:71:A:C4	45:JY:57:LYS:CG	2.87	0.57
1:AA:1396:A:H5'	1:AA:1398:A:OP1	2.03	0.57
1:AA:1392:G:C5'	1:AA:1531:A:H4'	2.35	0.57
1:AA:563:A:H5'	1:AA:566:G:N2	2.19	0.57
1:AA:940:C:C4'	7:AG:29:LYS:HZ3	2.18	0.57
2:AB:230:VAL:HG12	2:AB:231:GLU:H	1.68	0.57
4:AD:196:LEU:HD23	4:AD:197:PRO:CD	2.33	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:412:A:C2	4:AD:32:ALA:N	2.73	0.57
1:AA:19:C:OP1	5:AE:130:ASN:CB	2.53	0.57
1:AA:18:C:H5'	5:AE:130:ASN:HD21	1.69	0.57
5:AE:127:ASN:HD21	5:AE:130:ASN:HD22	1.52	0.57
9:AI:43:ALA:HA	9:AI:74:ILE:HG21	1.86	0.57
1:AA:529:G:C2	12:AL:49:ASN:CG	2.69	0.57
1:AA:1224:G:O2'	13:AM:102:ARG:CA	2.53	0.57
1:AA:953:G:C4'	13:AM:124:PRO:CD	2.82	0.57
1:AA:1309:G:C4'	13:AM:78:ILE:HG12	2.35	0.57
1:AA:895:G:H1'	17:AQ:100:LYS:HZ2	1.65	0.57
33:BM:63:ARG:NH2	51:B5:8:LYS:CD	2.49	0.57
53:B7:41:MSE:HE2	53:B7:47:LYS:HD2	1.85	0.57
22:BB:2708:U:H2'	22:BB:2709:C:C6	2.40	0.57
22:BB:2723:C:O4'	28:BH:150:LYS:HD2	2.00	0.57
22:BB:54:G:H2'	22:BB:55:A:C8	2.40	0.57
22:BB:7:G:O2'	31:BK:41:TRP:HH2	1.88	0.57
22:BB:1091:C:O4'	30:BJ:125:ASN:C	2.43	0.57
34:BN:121:LEU:H	34:BN:121:LEU:HD22	1.69	0.57
35:BO:112:LEU:HD22	35:BO:113:ILE:N	2.19	0.57
38:BR:24:PHE:HB3	38:BR:28:ARG:CZ	2.34	0.57
39:BS:36:LYS:HE3	39:BS:39:PHE:HE1	1.70	0.57
22:BB:2364:C:O2'	44:BX:69:PHE:HZ	1.88	0.57
1:CA:227:G:H2'	1:CA:228:A:C8	2.38	0.57
1:CA:478:A:H2'	1:CA:479:C:H5'	1.87	0.57
1:CA:519:C:P	12:CL:50:SER:HB3	2.44	0.57
1:CA:546:G:OP2	4:CD:72:GLU:N	2.38	0.57
1:CA:588:G:H5'	8:CH:3:THR:N	2.16	0.57
1:CA:589:C:H5	8:CH:1:MET:SD	2.28	0.57
9:CI:11:LYS:HG3	9:CI:108:VAL:HG22	1.86	0.57
20:CT:26:ASN:HB3	20:CT:30:LYS:HZ1	1.70	0.57
22:DB:16:G:C1'	48:D2:18:MET:SD	2.92	0.57
22:DB:2446:C:H2'	22:DB:2447:G:C8	2.40	0.57
22:DB:2785:A:H2'	22:DB:2786:G:H8	1.70	0.57
24:DD:10:THR:C	24:DD:12:SER:H	2.08	0.57
25:DE:53:PRO:HG3	25:DE:74:PRO:C	2.24	0.57
28:DH:6:LYS:HB2	28:DH:6:LYS:HZ2	1.70	0.57
29:DI:30:ILE:N	29:DI:31:PRO:HD3	2.20	0.57
31:DK:44:VAL:HB	31:DK:82:VAL:HA	1.87	0.57
33:DM:122:VAL:HG13	33:DM:123:ASP:H	1.69	0.57
22:DB:2669:C:H42	35:DO:18:VAL:HG12	1.70	0.57
40:DT:72:LEU:HA	40:DT:126:ILE:HD13	1.86	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:EA:1106:G:H2'	1:EA:1107:C:C6	2.40	0.57
1:EA:130:A:N7	17:EQ:63:ARG:CB	2.68	0.57
1:EA:782:A:H5'	1:EA:1514:C:O2	2.04	0.57
1:EA:278:G:C2	17:EQ:96:GLN:CG	2.88	0.57
1:EA:926:G:N7	1:EA:1502:A:N3	2.43	0.57
1:EA:974:A:P	14:EN:29:ARG:HH22	2.27	0.57
1:EA:1372:U:O2'	7:EG:35:LYS:HA	2.05	0.57
14:EN:24:CYS:SG	14:EN:39:LEU:HA	2.45	0.57
18:ER:85:LEU:HG	18:ER:86:VAL:H	1.70	0.57
22:FB:1635:G:N3	50:F4:1:MET:N	2.52	0.57
23:FA:9:G:C4'	36:FP:32:TYR:CE1	2.87	0.57
22:FB:1041:G:H4'	34:FN:119:PHE:CE2	2.33	0.57
22:FB:2311:U:H5''	44:FX:70:ILE:O	2.02	0.57
22:FB:2701:A:N6	22:FB:2848:A:N6	2.53	0.57
22:FB:2839:G:H2'	22:FB:2840:U:C6	2.39	0.57
22:FB:323:G:H5'	22:FB:342:G:O6	2.05	0.57
22:FB:18:U:H1'	22:FB:564:U:P	2.45	0.57
22:FB:586:G:O3'	22:FB:1268:U:H1'	2.05	0.57
22:FB:836:G:H2'	22:FB:837:U:C6	2.40	0.57
24:FD:106:LEU:HG	24:FD:144:ALA:HB2	1.87	0.57
22:FB:1674:C:OP2	25:FE:134:TRP:CD1	2.55	0.57
25:FE:8:LYS:HB2	25:FE:193:GLY:HA2	1.87	0.57
22:FB:2614:A:O2'	25:FE:78:LEU:O	2.22	0.57
27:FG:31:ILE:HD11	27:FG:34:ILE:HD12	1.87	0.57
28:FH:72:VAL:O	28:FH:76:VAL:HG23	2.05	0.57
29:FI:30:ILE:N	29:FI:31:PRO:HD3	2.20	0.57
30:FJ:20:ALA:HB3	30:FJ:21:PRO:HD3	1.86	0.57
22:FB:1992:G:O4'	35:FO:105:GLY:CA	2.53	0.57
38:FR:50:ARG:HA	38:FR:50:ARG:HE	1.70	0.57
39:FS:72:ARG:HG3	39:FS:73:LYS:H	1.69	0.57
22:FB:64:C:H41	41:FU:64:ARG:HB2	1.69	0.57
45:FY:3:PRO:HG2	45:FY:5:GLU:HB2	1.87	0.57
1:GA:1262:C:H2'	1:GA:1263:C:C6	2.40	0.57
1:GA:391:G:H5''	16:GP:8:ARG:HH12	1.58	0.57
1:GA:1367:C:OP1	9:GI:114:TYR:O	2.23	0.57
9:GI:44:VAL:HG12	9:GI:51:ARG:NH2	2.20	0.57
1:GA:267:C:H5'	17:GQ:67:LYS:HE3	1.87	0.57
20:GT:88:VAL:HG11	20:GT:92:LEU:HD12	1.87	0.57
22:HB:1236:G:N7	39:HS:87:ARG:HD2	2.20	0.57
22:HB:1256:C:H4'	33:HM:17:LYS:HE2	1.86	0.57
22:HB:1040:A:O4'	22:HB:2465:G:H4'	2.04	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:HB:586:G:O3'	22:HB:1268:U:H1'	2.05	0.57
22:HB:61:U:C4	22:HB:91:A:C6	2.93	0.57
22:HB:969:U:C4	34:HN:20:GLY:CA	2.81	0.57
24:HD:10:THR:C	24:HD:12:SER:H	2.08	0.57
24:HD:246:PRO:CG	24:HD:247:VAL:H	2.17	0.57
22:HB:2659:C:OP1	25:HE:191:ALA:HB2	2.05	0.57
22:HB:687:G:OP1	26:HF:70:GLY:O	2.21	0.57
30:HJ:20:ALA:HB3	30:HJ:21:PRO:CD	2.35	0.57
22:HB:6:A:O2'	31:HK:163:PRO:CG	2.52	0.57
31:HK:67:ARG:HA	31:HK:70:PHE:HD2	1.69	0.57
1:IA:1130:A:C4'	9:II:18:PHE:CZ	2.80	0.57
1:IA:1221:G:H4'	19:IS:77:THR:OG1	2.05	0.57
1:IA:1228:C:H2'	1:IA:1229:A:C8	2.38	0.57
1:IA:1335:C:H5''	1:IA:1337:G:N2	2.19	0.57
1:IA:563:A:H5'	1:IA:566:G:N2	2.19	0.57
2:IB:71:VAL:HB	2:IB:164:VAL:HA	1.85	0.57
1:IA:1106:G:C4'	3:IC:170:GLN:HA	2.35	0.57
4:ID:153:ARG:HD2	4:ID:181:MET:SD	2.44	0.57
1:IA:1130:A:O4'	9:II:18:PHE:CZ	2.55	0.57
11:IK:83:ILE:HG12	11:IK:107:SER:OG	2.05	0.57
12:IL:110:VAL:HG21	12:IL:120:TYR:HA	1.87	0.57
1:IA:751:U:C2'	15:IO:69:TYR:HH	2.00	0.57
22:JB:3166:G:C3'	53:J7:97:LYS:HB2	2.09	0.57
22:JB:1289:A:OP1	22:JB:1662:G:O2'	2.19	0.57
22:JB:2284:U:H1'	27:JG:152:MET:HE3	1.87	0.57
22:JB:2299:A:H5'	22:JB:2300:G:C8	2.40	0.57
22:JB:2785:A:H2'	22:JB:2786:G:H8	1.70	0.57
22:JB:308:C:C5'	42:JV:93:ARG:HH21	2.18	0.57
22:JB:57:G:H2'	22:JB:72:A:N6	2.20	0.57
25:JE:8:LYS:HB2	25:JE:193:GLY:HA2	1.87	0.57
23:JA:117:G:O2'	36:JP:41:GLN:OE1	0.57	0.57
22:JB:339:U:C1'	42:JV:79:SER:OG	2.27	0.57
1:AA:526:C:H2'	1:AA:527:G:H4'	1.86	0.57
1:AA:547:A:N3	1:AA:548:G:H1'	2.19	0.57
1:AA:815:A:C4	1:AA:1529:G:C2	2.93	0.57
1:AA:81:C:H2'	1:AA:82:C:O4'	2.05	0.57
1:AA:1240:U:O4	7:AG:116:ALA:N	2.38	0.57
8:AH:14:ARG:HA	8:AH:18:ARG:NH1	2.20	0.57
8:AH:6:ILE:O	8:AH:10:LEU:HG	2.04	0.57
1:AA:1343:G:H5'	9:AI:122:ALA:CB	2.32	0.57
12:AL:110:VAL:HG21	12:AL:120:TYR:HA	1.87	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:518:C:C5'	12:AL:49:ASN:HA	2.33	0.57
1:AA:980:C:C5'	14:AN:19:ARG:NH2	2.64	0.57
1:AA:668:G:H3'	15:AO:48:LYS:NZ	2.19	0.57
53:B7:63:ARG:HG2	53:B7:82:LYS:HZ3	1.70	0.57
22:BB:1641:C:H2'	22:BB:1642:G:O4'	2.05	0.57
22:BB:2299:A:H5'	22:BB:2300:G:C8	2.40	0.57
22:BB:2339:A:OP1	51:B5:49:VAL:HA	2.05	0.57
22:BB:2541:U:H3	22:BB:2545:A:H62	1.53	0.57
22:BB:610:G:H21	22:BB:615:C:H5'	1.70	0.57
22:BB:735:G:H2'	22:BB:736:G:H8	1.70	0.57
22:BB:738:G:H2'	22:BB:739:G:O4'	2.05	0.57
22:BB:836:G:H2'	22:BB:837:U:C6	2.40	0.57
22:BB:8:A:N1	22:BB:2869:U:O2	2.38	0.57
25:BE:8:LYS:HB2	25:BE:193:GLY:HA2	1.87	0.57
22:BB:1071:U:C5	30:BJ:79:ARG:NH1	2.73	0.57
22:BB:6:A:H1'	31:BK:163:PRO:CD	2.34	0.57
31:BK:46:ALA:HB1	31:BK:85:ALA:N	2.20	0.57
33:BM:122:VAL:HG13	33:BM:123:ASP:H	1.69	0.57
38:BR:25:TRP:CH2	48:B2:14:SER:HA	2.40	0.57
43:BW:48:THR:HG21	43:BW:130:ILE:CA	2.35	0.57
1:CA:1106:G:H2'	1:CA:1107:C:C6	2.40	0.57
1:CA:17:U:H4'	5:CE:14:ARG:NH2	2.19	0.57
1:CA:287:U:H2'	1:CA:288:A:H8	1.70	0.57
1:CA:314:C:O2'	1:CA:315:A:H5'	2.05	0.57
1:CA:373:A:N6	1:CA:482:A:H62	2.02	0.57
1:CA:827:U:C5'	8:CH:21:LYS:CG	2.80	0.57
1:CA:407:G:C4'	4:CD:116:GLN:CA	2.73	0.57
6:CF:80:ARG:HA	6:CF:85:VAL:HB	1.86	0.57
7:CG:108:ALA:HA	7:CG:111:ARG:HD2	1.85	0.57
8:CH:38:ILE:HA	8:CH:41:ARG:CZ	2.34	0.57
9:CI:43:ALA:HA	9:CI:74:ILE:HG21	1.86	0.57
22:DB:123:A:C1'	50:D4:13:ALA:CB	2.83	0.57
22:DB:1044:U:H5	52:D6:16:VAL:CG2	2.17	0.57
22:DB:999:A:H4'	22:DB:1166:A:N1	2.20	0.57
22:DB:501:G:H1'	22:DB:1334:A:OP1	2.04	0.57
22:DB:2268:G:H4'	22:DB:2362:G:O2'	2.05	0.57
22:DB:2463:G:O2'	34:DN:121:LEU:HA	2.04	0.57
22:DB:2708:U:H2'	22:DB:2709:C:C6	2.40	0.57
22:DB:320:A:H1'	42:DV:27:GLY:HA3	1.87	0.57
22:DB:323:G:H5'	22:DB:342:G:O6	2.05	0.57
22:DB:677:G:C3'	22:DB:678:G:P	2.93	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:DB:836:G:H2'	22:DB:837:U:C6	2.40	0.57
24:DD:105:ILE:HG23	24:DD:106:LEU:O	2.05	0.57
24:DD:148:VAL:HB	24:DD:151:LYS:HB3	1.87	0.57
22:DB:742:G:C5	24:DD:18:THR:CA	2.87	0.57
24:DD:242:ALA:HA	24:DD:244:ARG:HH21	1.70	0.57
25:DE:8:LYS:HB2	25:DE:193:GLY:HA2	1.87	0.57
38:DR:50:ARG:HA	38:DR:50:ARG:HE	1.70	0.57
40:DT:54:GLU:C	40:DT:56:LEU:H	2.07	0.57
1:EA:1114:C:H1'	14:EN:61:TRP:CA	2.35	0.57
1:EA:1272:G:N3	1:IA:1264:C:O2'	2.37	0.57
1:EA:1374:A:H2'	7:EG:29:LYS:HE3	1.87	0.57
1:EA:795:C:OP1	1:EA:1522:U:H5'	2.05	0.57
2:EB:149:LEU:HG	2:EB:152:PHE:HB3	1.87	0.57
2:EB:55:PHE:HA	2:EB:58:ILE:HD12	1.87	0.57
2:EB:71:VAL:HB	2:EB:164:VAL:HA	1.85	0.57
4:ED:162:LEU:HB3	4:ED:166:LYS:HG3	1.86	0.57
6:EF:80:ARG:HA	6:EF:85:VAL:HB	1.86	0.57
1:EA:1187:G:O5'	9:EI:113:LYS:CD	2.39	0.57
1:EA:1117:G:O2'	9:EI:9:ARG:CD	2.51	0.57
23:FA:28:A:H2	23:FA:120:G:H4'	1.70	0.57
22:FB:1481:U:C4'	22:FB:1561:A:C6	2.88	0.57
22:FB:2265:A:H4'	22:FB:2266:A:C4	2.39	0.57
22:FB:2399:C:H5''	51:F5:33:ASN:H	1.70	0.57
22:FB:1139:A:N6	22:FB:2468:G:O3'	2.36	0.57
22:FB:2798:A:OP1	25:FE:113:THR:HG22	2.04	0.57
22:FB:54:G:H2'	22:FB:55:A:C8	2.40	0.57
22:FB:936:A:H2'	22:FB:937:C:C6	2.39	0.57
24:FD:10:THR:C	24:FD:12:SER:H	2.08	0.57
22:FB:742:G:N2	24:FD:18:THR:HG22	2.20	0.57
22:FB:742:G:C5	24:FD:208:LYS:HD2	2.40	0.57
22:FB:1781:C:H4'	24:FD:213:ARG:NH1	2.20	0.57
25:FE:105:THR:H	25:FE:196:VAL:HG13	1.70	0.57
27:FG:92:ARG:HB2	27:FG:96:MET:SD	2.44	0.57
29:FI:26:ARG:HG2	47:F1:73:LYS:CA	2.34	0.57
30:FJ:55:VAL:HA	30:FJ:70:LYS:HG2	1.87	0.57
36:FP:9:ARG:HH12	36:FP:12:ARG:N	2.02	0.57
39:FS:36:LYS:HE3	39:FS:39:PHE:HE1	1.70	0.57
1:GA:1065:U:H4'	1:GA:1066:C:C5'	2.35	0.57
1:GA:1106:G:H2'	1:GA:1107:C:C6	2.40	0.57
1:GA:1530:G:O2'	1:GA:1531:A:H5'	2.04	0.57
1:GA:426:G:C5'	4:GD:45:GLN:OE1	2.52	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:GA:577:G:H2'	1:GA:578:C:C6	2.40	0.57
6:GF:51:PRO:HB3	6:GF:56:PRO:HB3	1.86	0.57
8:GH:6:ILE:HB	8:GH:85:ARG:HD2	1.85	0.57
15:GO:32:LEU:HD22	15:GO:59:MET:SD	2.45	0.57
22:HB:2378:G:C4'	49:H3:20:PHE:CE2	2.88	0.57
22:HB:1337:G:OP2	40:HT:119:LYS:NZ	2.21	0.57
22:HB:1750:A:O2'	22:HB:2694:G:H1'	2.05	0.57
22:HB:2357:A:H2'	22:HB:2358:C:O4'	2.05	0.57
22:HB:642:A:H2	22:HB:2393:G:N2	2.02	0.57
22:HB:2492:G:H2'	22:HB:2493:U:C6	2.40	0.57
22:HB:2671:C:C2'	22:HB:2822:U:HO2'	2.18	0.57
22:HB:732:G:H2'	22:HB:733:G:C8	2.40	0.57
22:HB:975:C:O2'	22:HB:2252:A:H1'	2.04	0.57
30:HJ:111:LYS:NZ	30:HJ:115:LEU:HG	2.19	0.57
31:HK:44:VAL:HB	31:HK:82:VAL:HA	1.87	0.57
36:HP:9:ARG:HH12	36:HP:12:ARG:N	2.02	0.57
25:HE:52:ALA:CA	37:HQ:7:ILE:HD12	2.35	0.57
37:HQ:33:VAL:HG22	37:HQ:96:ARG:O	2.04	0.57
39:HS:36:LYS:HE3	39:HS:39:PHE:HE1	1.70	0.57
22:HB:1338:G:C4	40:HT:107:ILE:N	2.73	0.57
1:IA:1472:U:H2'	1:IA:1473:A:O4'	2.04	0.57
1:IA:537:G:C5	12:IL:115:LYS:NZ	2.71	0.57
1:IA:767:A:C2	1:IA:1512:U:C2	2.87	0.57
2:IB:73:THR:HG22	2:IB:96:ARG:NH1	2.19	0.57
3:IC:162:GLN:CD	3:IC:163:ALA:H	2.08	0.57
5:IE:76:ILE:HG13	5:IE:93:PRO:HB3	1.87	0.57
12:IL:11:VAL:CB	17:IQ:36:ILE:HD13	2.35	0.57
12:IL:90:VAL:HG12	12:IL:92:ASP:H	1.70	0.57
13:IM:46:LYS:N	13:IM:46:LYS:HD2	2.20	0.57
15:IO:89:GLY:CA	22:JB:729:A:P	2.90	0.57
20:IT:52:ALA:C	20:IT:92:LEU:HD11	2.25	0.57
23:JA:45:C:H2'	23:JA:46:G:H5'	1.87	0.57
22:JB:1012:A:H61	22:JB:1165:G:H1'	1.69	0.57
22:JB:1014:G:H1'	22:JB:1021:A:C2	2.40	0.57
22:JB:1004:A:H2	22:JB:1172:U:O2	1.87	0.57
22:JB:1260:A:H4'	38:JR:2:PRO:HD3	1.85	0.57
22:JB:1278:A:N3	22:JB:1278:A:H2'	2.20	0.57
22:JB:1630:A:H5'	50:J4:3:ARG:HD3	1.86	0.57
22:JB:1861:G:O3'	22:JB:1862:C:P	2.62	0.57
22:JB:2315:A:C6	44:JX:70:ILE:CD1	2.85	0.57
22:JB:2721:A:H61	22:JB:2742:G:H22	1.53	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:JB:356:A:H2'	22:JB:357:A:H8	1.69	0.57
22:JB:646:C:OP1	33:JM:127:ALA:HB1	2.00	0.57
22:JB:735:G:H2'	22:JB:736:G:H8	1.70	0.57
24:JD:10:THR:C	24:JD:12:SER:H	2.08	0.57
25:JE:53:PRO:HG3	25:JE:74:PRO:C	2.25	0.57
22:JB:2615:U:O5'	25:JE:79:ARG:HD2	2.05	0.57
22:JB:2827:G:C5'	35:JO:60:LEU:HD23	2.35	0.57
22:JB:1467:U:H4'	35:JO:77:ARG:NH2	2.20	0.57
37:JQ:18:GLN:HG3	37:JQ:21:THR:HG21	1.87	0.57
22:JB:1265:G:C6	38:JR:36:PHE:HB3	2.40	0.57
22:JB:1128:G:HO2'	43:JW:76:ARG:HE	1.47	0.57
1:AA:1106:G:H2'	1:AA:1107:C:C6	2.40	0.56
1:AA:1390:U:H2'	1:AA:1391:U:O4'	2.05	0.56
1:AA:273:A:O2'	17:AQ:15:MET:CA	2.52	0.56
1:AA:567:G:H2'	1:AA:568:G:O4'	2.05	0.56
2:AB:232:PRO:O	2:AB:234:PRO:HD3	2.05	0.56
4:AD:176:LEU:HA	4:AD:182:LYS:O	2.04	0.56
1:AA:1077:G:C6	5:AE:45:PHE:CE2	2.89	0.56
8:AH:43:GLY:HA3	8:AH:79:VAL:HG11	1.86	0.56
14:AN:24:CYS:SG	14:AN:39:LEU:HA	2.45	0.56
15:AO:32:LEU:HD22	15:AO:59:MET:SD	2.45	0.56
1:AA:255:G:P	17:AQ:45:HIS:HE1	2.25	0.56
23:BA:45:C:H2'	23:BA:46:G:H5'	1.87	0.56
23:BA:96:C:H5''	43:BW:11:LYS:CA	2.31	0.56
22:BB:1043:A:O3'	52:B6:16:VAL:CA	2.51	0.56
22:BB:1485:U:O4	22:BB:1538:A:C6	2.58	0.56
22:BB:1807:A:H4'	24:BD:63:ARG:NH1	2.20	0.56
22:BB:2268:G:H4'	22:BB:2362:G:O2'	2.05	0.56
22:BB:657:A:O2'	22:BB:2330:G:C5'	2.53	0.56
22:BB:2357:A:H2'	22:BB:2358:C:O4'	2.05	0.56
22:BB:1471:G:H22	22:BB:2681:A:H62	1.45	0.56
22:BB:2785:A:H2'	22:BB:2786:G:H8	1.70	0.56
22:BB:2813:G:H5''	35:BO:8:ARG:CZ	2.32	0.56
24:BD:60:ARG:HD3	24:BD:60:ARG:H	1.70	0.56
27:BG:31:ILE:HD11	27:BG:34:ILE:HD12	1.87	0.56
30:BJ:20:ALA:HB3	30:BJ:21:PRO:HD3	1.86	0.56
30:BJ:91:PRO:O	30:BJ:92:ASN:HB2	2.05	0.56
25:BE:6:GLY:CA	37:BQ:3:THR:OG1	2.52	0.56
32:BL:88:THR:H	37:BQ:81:PHE:C	2.08	0.56
44:BX:49:GLN:HG3	44:BX:55:ARG:HD3	1.86	0.56
22:BB:2343:C:C2	44:BX:66:LYS:HD2	2.40	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:CG:117:ALA:HA	7:CG:120:ILE:HD12	1.87	0.56
7:CG:66:VAL:HG12	7:CG:70:LYS:HG3	1.87	0.56
1:CA:588:G:OP1	8:CH:5:PRO:CD	2.50	0.56
5:CE:141:GLN:CD	8:CH:69:ARG:HH22	2.00	0.56
10:CJ:47:PHE:CE1	14:CN:56:VAL:HG13	2.40	0.56
11:CK:83:ILE:HG12	11:CK:107:SER:OG	2.05	0.56
14:CN:24:CYS:SG	14:CN:39:LEU:HA	2.45	0.56
15:CO:32:LEU:HD22	15:CO:59:MET:SD	2.45	0.56
18:CR:85:LEU:HG	18:CR:86:VAL:H	1.70	0.56
49:D3:28:ARG:HG3	49:D3:29:ARG:N	2.19	0.56
53:D7:64:VAL:HG11	53:D7:111:LEU:HD12	1.86	0.56
22:DB:122:G:H5''	22:DB:1390:G:OP1	2.05	0.56
22:DB:1507:A:H1'	22:DB:1510:A:OP1	2.05	0.56
22:DB:2551:A:OP2	25:DE:144:ARG:CG	2.50	0.56
22:DB:542:A:N7	22:DB:570:G:N1	2.52	0.56
22:DB:735:G:H2'	22:DB:736:G:H8	1.70	0.56
22:DB:1807:A:C5'	24:DD:88:ARG:CZ	2.83	0.56
27:DG:83:MET:HB3	27:DG:84:PRO:HD2	1.87	0.56
30:DJ:20:ALA:O	30:DJ:21:PRO:C	2.43	0.56
31:DK:94:LYS:N	31:DK:94:LYS:HZ3	2.03	0.56
22:DB:1203:A:C5'	33:DM:35:LYS:HA	2.35	0.56
34:DN:45:SER:O	34:DN:48:ILE:HG22	2.05	0.56
22:DB:1308:C:OP1	35:DO:71:HIS:CD2	2.58	0.56
22:DB:1240:G:H5''	38:DR:16:LYS:CG	2.35	0.56
38:DR:47:TYR:O	39:DS:74:TYR:CE1	2.56	0.56
40:DT:50:VAL:N	40:DT:53:ALA:HB3	2.18	0.56
42:DV:47:VAL:O	42:DV:48:VAL:HG12	2.04	0.56
22:DB:868:U:C2'	44:DX:25:LYS:HD2	2.25	0.56
44:DX:49:GLN:HG3	44:DX:55:ARG:HD3	1.86	0.56
46:DZ:5:LEU:HB2	46:DZ:31:SER:OG	2.05	0.56
1:EA:1104:G:N3	2:EB:111:ARG:CZ	2.68	0.56
1:EA:1390:U:H2'	1:EA:1391:U:O4'	2.04	0.56
1:EA:547:A:N3	1:EA:548:G:H1'	2.19	0.56
1:EA:81:C:H2'	1:EA:82:C:O4'	2.05	0.56
1:EA:437:U:C5'	4:ED:155:LEU:HD12	2.08	0.56
4:ED:109:GLY:O	4:ED:161:ASN:HB2	2.05	0.56
5:EE:135:THR:O	5:EE:139:LEU:HG	2.04	0.56
8:EH:38:ILE:HA	8:EH:41:ARG:CZ	2.34	0.56
1:EA:704:A:N6	11:EK:42:TRP:CH2	2.73	0.56
29:FI:26:ARG:C	47:F1:73:LYS:C	2.64	0.56
29:FI:26:ARG:CB	47:F1:73:LYS:OXT	2.52	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
49:F3:28:ARG:HG3	49:F3:29:ARG:H	1.68	0.56
23:FA:8:C:O2'	36:FP:32:TYR:CE1	2.52	0.56
22:FB:1047:G:H2'	22:FB:1048:U:C5'	2.34	0.56
22:FB:1641:C:H2'	22:FB:1642:G:O4'	2.05	0.56
22:FB:1888:C:H2'	22:FB:1913:G:N7	2.20	0.56
22:FB:2240:C:O5'	44:FX:15:ASP:O	2.23	0.56
22:FB:2268:G:H4'	22:FB:2362:G:O2'	2.05	0.56
22:FB:2299:A:H5'	22:FB:2300:G:C8	2.40	0.56
22:FB:2404:A:H5'	22:FB:2406:C:N1	2.20	0.56
22:FB:2591:C:C1'	48:F2:2:ALA:CB	2.82	0.56
22:FB:2669:C:H42	35:FO:18:VAL:HG11	1.67	0.56
22:FB:2772:U:H3	22:FB:2780:A:N6	2.03	0.56
22:FB:3176:A:OP1	53:F7:212:ALA:HB2	2.05	0.56
22:FB:3866:A:H1'	53:F7:195:LYS:HB2	1.87	0.56
22:FB:504:G:O2'	40:FT:25:PHE:HD2	1.88	0.56
22:FB:63:A:O2'	41:FU:63:LYS:N	2.30	0.56
22:FB:575:U:H4'	22:FB:822:G:OP1	2.05	0.56
24:FD:60:ARG:HD3	24:FD:60:ARG:H	1.70	0.56
25:FE:167:VAL:HG11	25:FE:170:LEU:HD12	1.85	0.56
25:FE:55:ALA:HA	25:FE:58:LYS:HZ1	1.70	0.56
27:FG:136:LEU:HB2	27:FG:150:ARG:NH2	2.20	0.56
22:FB:2292:C:C3'	27:FG:88:LYS:HD3	2.31	0.56
22:FB:529:U:OP1	40:FT:39:ARG:HG2	2.05	0.56
22:FB:1001:A:C5'	46:FZ:27:LYS:HZ2	2.16	0.56
1:GA:475:C:H2'	1:GA:476:U:C6	2.40	0.56
1:GA:1071:C:C4'	3:GC:167:TRP:HH2	2.16	0.56
13:GM:57:ARG:HA	13:GM:61:GLU:HG3	1.87	0.56
1:GA:277:C:OP1	17:GQ:41:LYS:HD2	2.05	0.56
49:H3:38:LYS:HA	49:H3:38:LYS:NZ	2.20	0.56
22:HB:3121:G:C3'	53:H7:160:LYS:HZ3	2.17	0.56
23:HA:36:A:H4'	23:HA:37:C:C5	2.35	0.56
23:HA:53:G:OP2	36:HP:62:GLY:C	2.41	0.56
22:HB:1014:G:H1'	22:HB:1021:A:C2	2.40	0.56
22:HB:1295:U:H2'	22:HB:1296:G:O4'	2.05	0.56
22:HB:1453:A:C8	22:HB:1454:U:C4	2.90	0.56
22:HB:1829:C:O2'	22:HB:1910:A:O2'	2.23	0.56
22:HB:2357:A:OP1	36:HP:26:ARG:NH2	2.35	0.56
22:HB:2437:G:H2'	22:HB:2469:G:N1	2.20	0.56
22:HB:2591:C:N3	48:H2:4:HIS:ND1	2.52	0.56
22:HB:2618:A:C5	22:HB:2619:G:H1'	2.39	0.56
22:HB:2721:A:N6	22:HB:2742:G:H22	2.03	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:HB:404:A:H62	22:HB:424:G:H21	1.51	0.56
22:HB:95:G:O2'	45:HY:45:GLN:CD	2.43	0.56
22:HB:1816:G:O3'	24:HD:247:VAL:HG23	2.05	0.56
24:HD:60:ARG:H	24:HD:60:ARG:HD3	1.70	0.56
25:HE:55:ALA:HA	25:HE:58:LYS:HZ1	1.69	0.56
22:HB:1079:G:H5'	30:HJ:13:PRO:HG2	1.86	0.56
35:HO:112:LEU:HD22	35:HO:113:ILE:N	2.19	0.56
38:HR:24:PHE:HB3	38:HR:28:ARG:CZ	2.34	0.56
4:ID:57:ARG:NH2	5:IE:107:ARG:HD3	2.20	0.56
6:IF:51:PRO:HB3	6:IF:56:PRO:HB3	1.86	0.56
1:IA:644:G:C4'	8:IH:92:ARG:HG2	2.33	0.56
51:J5:35:GLY:N	51:J5:36:LYS:HZ3	2.00	0.56
23:JA:45:C:C2'	23:JA:46:G:H5'	2.35	0.56
1:IA:270:A:H4'	22:JB:1738:U:H1'	1.87	0.56
22:JB:1996:A:O2'	40:JT:115:ASN:CG	2.43	0.56
22:JB:2499:C:H41	22:JB:2521:A:N6	2.02	0.56
22:JB:2618:A:C5	22:JB:2619:G:H1'	2.39	0.56
22:JB:2601:C:O2'	22:JB:2799:C:C4	2.56	0.56
22:JB:3171:A:H8	53:J7:101:LYS:CG	2.18	0.56
22:JB:410:A:C5'	47:J1:58:LYS:HE2	2.35	0.56
22:JB:494:A:O2'	42:JV:59:LYS:CE	2.52	0.56
22:JB:512:A:C5'	40:JT:15:LYS:O	2.53	0.56
22:JB:528:G:H1'	40:JT:96:TYR:HD2	1.70	0.56
22:JB:610:G:H21	22:JB:615:C:H5'	1.70	0.56
22:JB:975:C:O2'	22:JB:2252:A:H1'	2.04	0.56
24:JD:221:GLN:H	24:JD:222:ARG:NH1	2.03	0.56
25:JE:143:GLN:HB2	25:JE:144:ARG:NH1	2.19	0.56
25:JE:23:VAL:HG23	25:JE:186:GLY:H	1.70	0.56
31:JK:75:ILE:CG2	31:JK:140:GLN:HA	2.30	0.56
22:JB:1204:G:OP1	33:JM:37:GLN:OE1	2.23	0.56
33:JM:62:LYS:HE2	51:J5:31:HIS:CD2	2.40	0.56
22:JB:514:G:H22	40:JT:15:LYS:CE	2.18	0.56
42:JV:59:LYS:CB	42:JV:65:PRO:HA	2.35	0.56
22:JB:339:U:C2'	42:JV:80:LYS:HE3	2.33	0.56
1:AA:287:U:H2'	1:AA:288:A:H8	1.70	0.56
1:AA:331:G:N7	20:AT:10:LEU:CD2	2.61	0.56
1:AA:667:G:C4	15:AO:49:ASP:CB	2.86	0.56
1:AA:826:C:H4'	8:AH:12:ARG:CD	2.35	0.56
1:AA:956:U:H2'	1:AA:957:U:C6	2.40	0.56
7:AG:117:ALA:HA	7:AG:120:ILE:HD12	1.87	0.56
1:AA:1382:C:O3'	7:AG:79:ARG:NE	2.38	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:AI:14:VAL:HG12	9:AI:15:ALA:H	1.70	0.56
9:AI:44:VAL:HG12	9:AI:51:ARG:NH2	2.19	0.56
1:AA:1151:A:C4'	10:AJ:39:PRO:CB	2.78	0.56
10:AJ:51:ARG:HA	14:AN:45:ARG:NH1	2.19	0.56
11:AK:33:THR:HG22	11:AK:39:PRO:HA	1.86	0.56
22:BB:1045:G:C4'	52:B6:18:ARG:NE	2.45	0.56
23:BA:106:U:H3'	43:BW:90:GLU:N	2.19	0.56
23:BA:28:A:H2	23:BA:120:G:H4'	1.70	0.56
22:BB:1356:G:N2	22:BB:1613:G:O6	2.38	0.56
22:BB:1810:U:H4'	22:BB:1811:A:H8	1.70	0.56
22:BB:1883:A:C6	22:BB:1953:A:C6	2.93	0.56
22:BB:1040:A:H1'	22:BB:2465:G:C4'	2.35	0.56
22:BB:6:A:C6	22:BB:2871:U:N3	2.51	0.56
22:BB:4:C:N3	22:BB:2873:G:C6	2.73	0.56
22:BB:761:G:H1	22:BB:765:C:H42	1.52	0.56
22:BB:886:A:H1'	43:BW:167:THR:HG1	1.66	0.56
22:BB:910:U:C6	22:BB:911:A:H8	2.24	0.56
25:BE:181:LEU:HB3	37:BQ:12:LEU:HD23	1.85	0.56
26:BF:115:GLY:N	26:BF:185:ARG:HG3	2.18	0.56
27:BG:83:MET:HB3	27:BG:84:PRO:HD2	1.87	0.56
30:BJ:115:LEU:HD12	30:BJ:117:ALA:HB3	1.87	0.56
31:BK:126:VAL:HG22	31:BK:127:ILE:N	2.16	0.56
22:BB:2542:U:OP2	32:BL:37:GLY:HA2	2.06	0.56
33:BM:81:GLN:O	33:BM:118:VAL:HG11	2.05	0.56
22:BB:596:C:C5'	33:BM:28:LYS:O	2.52	0.56
22:BB:1631:C:N1	40:BT:108:PRO:HD2	2.19	0.56
23:BA:106:U:C3'	43:BW:88:TYR:CG	2.88	0.56
44:BX:46:LYS:HD3	44:BX:67:VAL:HG11	1.86	0.56
1:CA:1455:G:C2'	1:CA:1455:G:N3	2.65	0.56
1:CA:526:C:H2'	1:CA:527:G:H4'	1.86	0.56
2:CB:7:VAL:HG12	2:CB:221:LEU:HD11	1.86	0.56
1:CA:1374:A:C3'	7:CG:28:ASN:CG	2.73	0.56
1:CA:740:U:P	15:CO:35:ARG:HH12	2.27	0.56
17:CQ:28:PRO:HB3	17:CQ:35:VAL:HA	1.86	0.56
23:DA:52:G:P	36:DP:65:THR:HG1	2.26	0.56
22:DB:13:A:H61	22:DB:535:U:H2'	1.70	0.56
22:DB:176:A:C4	47:D1:32:HIS:CE1	2.92	0.56
22:DB:1810:U:H4'	22:DB:1811:A:H8	1.70	0.56
22:DB:2299:A:H5'	22:DB:2300:G:C8	2.40	0.56
22:DB:2357:A:H2'	22:DB:2358:C:O4'	2.06	0.56
22:DB:2404:A:H5'	22:DB:2406:C:N1	2.20	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:DB:2658:A:C1'	25:DE:187:ALA:HB3	2.35	0.56
22:DB:2773:G:O6	22:DB:2779:C:N4	2.38	0.56
22:DB:540:G:C8	22:DB:2019:C:OP1	2.58	0.56
22:DB:546:A:H2'	22:DB:547:U:C5	2.40	0.56
22:DB:917:U:H1'	43:DW:166:LEU:CG	2.34	0.56
22:DB:1816:G:N3	24:DD:252:LYS:HD3	2.20	0.56
22:DB:1516:A:C2'	24:DD:98:ALA:HB2	2.34	0.56
30:DJ:91:PRO:O	30:DJ:92:ASN:HB2	2.05	0.56
31:DK:34:PRO:HB2	31:DK:37:ASP:HB3	1.86	0.56
34:DN:131:LYS:CE	43:DW:69:VAL:HG11	2.31	0.56
1:EA:1057:G:H5''	3:EC:154:SER:O	1.85	0.56
1:EA:1530:G:O2'	1:EA:1531:A:H5'	2.04	0.56
1:EA:373:A:N6	1:EA:482:A:H62	2.02	0.56
1:EA:567:G:H2'	1:EA:568:G:O4'	2.05	0.56
4:ED:153:ARG:HD2	4:ED:181:MET:SD	2.44	0.56
1:EA:1117:G:C2'	9:EI:104:ARG:NH1	2.65	0.56
48:F2:26:THR:O	48:F2:27:ALA:HB3	2.06	0.56
22:FB:2265:A:N3	49:F3:31:THR:CG2	2.61	0.56
49:F3:38:LYS:HA	49:F3:38:LYS:NZ	2.20	0.56
53:F7:50:GLU:HG3	53:F7:190:ILE:HD13	1.87	0.56
22:FB:13:A:H61	22:FB:535:U:H2'	1.71	0.56
22:FB:1398:G:C6	22:FB:1415:C:C2	2.89	0.56
22:FB:1493:A:C6	22:FB:1573:G:H1'	2.33	0.56
22:FB:1628:C:O2	50:F4:3:ARG:CB	2.42	0.56
22:FB:1810:U:H4'	22:FB:1811:A:H8	1.70	0.56
22:FB:2260:C:O2'	22:FB:2368:G:C4	2.55	0.56
22:FB:2708:U:H2'	22:FB:2709:C:C6	2.40	0.56
22:FB:2782:G:H3'	22:FB:2783:U:C5'	2.34	0.56
22:FB:589:C:H2'	22:FB:590:C:C6	2.40	0.56
25:FE:111:LYS:HE3	25:FE:160:MET:HB3	1.87	0.56
26:FF:19:LEU:HD11	26:FF:108:ILE:HB	1.88	0.56
30:FJ:111:LYS:NZ	30:FJ:115:LEU:HG	2.19	0.56
32:FL:83:ARG:HD3	32:FL:85:ASP:HB3	1.86	0.56
22:FB:845:U:P	33:FM:41:SER:CB	2.93	0.56
34:FN:23:LYS:HG2	34:FN:39:GLU:OE2	2.06	0.56
37:FQ:101:ARG:HD3	37:FQ:104:LEU:HD11	1.88	0.56
22:FB:339:U:C2'	42:FV:76:LEU:HA	2.34	0.56
22:FB:346:C:C4	42:FV:79:SER:HB2	2.38	0.56
1:GA:28:G:H2'	1:GA:29:G:O4'	2.04	0.56
1:GA:36:C:O3'	12:GL:117:ARG:HD3	1.99	0.56
1:GA:73:C:H2'	1:GA:74:G:H8	1.70	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:GM:97:PRO:CD	13:GM:110:ARG:HD3	2.34	0.56
53:H7:64:VAL:HG11	53:H7:111:LEU:HD12	1.86	0.56
22:HB:1249:G:H2'	22:HB:1250:A:H8	1.70	0.56
22:HB:1278:A:N3	22:HB:1278:A:H2'	2.20	0.56
22:HB:1338:G:C1'	40:HT:107:ILE:CG2	2.55	0.56
22:HB:873:U:O4	22:HB:2247:A:C5	2.58	0.56
22:HB:2329:C:O5'	51:H5:42:ARG:CG	2.53	0.56
22:HB:2658:A:H5''	25:HE:109:LYS:HG2	1.87	0.56
22:HB:2682:C:H2'	22:HB:2683:C:C6	2.39	0.56
22:HB:356:A:H2'	22:HB:357:A:H8	1.69	0.56
22:HB:561:U:H4'	22:HB:1233:A:N6	2.20	0.56
25:HE:143:GLN:HB2	25:HE:144:ARG:NH1	2.19	0.56
28:HH:160:LYS:H	28:HH:160:LYS:CD	2.19	0.56
30:HJ:125:ASN:ND2	30:HJ:126:THR:H	2.02	0.56
34:HN:127:PRO:HB2	34:HN:129:GLN:HE22	1.69	0.56
36:HP:42:ILE:HG22	36:HP:43:ILE:N	2.21	0.56
37:HQ:101:ARG:HD3	37:HQ:104:LEU:HD11	1.87	0.56
34:HN:105:PHE:O	43:HW:113:VAL:HG11	2.03	0.56
1:IA:17:U:H4'	5:IE:14:ARG:CZ	2.35	0.56
1:IA:28:G:H2'	1:IA:29:G:O4'	2.04	0.56
1:IA:817:C:H5'	1:IA:820:U:P	2.45	0.56
1:IA:927:G:H5''	1:IA:1503:A:P	2.44	0.56
1:IA:956:U:H2'	1:IA:957:U:C6	2.41	0.56
2:IB:149:LEU:HG	2:IB:152:PHE:HB3	1.87	0.56
3:IC:12:LEU:HD11	14:IN:50:LYS:O	2.04	0.56
1:IA:1190:G:C8	3:IC:3:ASN:CB	2.85	0.56
4:ID:162:LEU:HB3	4:ID:166:LYS:HG3	1.86	0.56
1:IA:641:U:C5	8:IH:116:LYS:HE2	2.40	0.56
17:IQ:4:LYS:O	17:IQ:60:ILE:HA	2.05	0.56
48:J2:26:THR:O	48:J2:27:ALA:HB3	2.06	0.56
23:JA:14:C:H42	44:JX:52:GLY:N	2.01	0.56
22:JB:1249:G:H2'	22:JB:1250:A:H8	1.70	0.56
22:JB:1295:U:H2'	22:JB:1296:G:O4'	2.05	0.56
22:JB:1508:G:OP1	24:JD:100:GLY:HA2	2.05	0.56
22:JB:2261:G:H5''	49:J3:3:LYS:HZ1	1.71	0.56
22:JB:2464:G:O2'	34:JN:123:GLY:C	2.41	0.56
22:JB:2541:U:H3	22:JB:2545:A:H62	1.53	0.56
22:JB:2573:C:H41	24:JD:239:ARG:HE	1.51	0.56
22:JB:3873:G:H2'	22:JB:3874:C:C2	2.40	0.56
22:JB:644:A:O2'	22:JB:2383:C:C5'	2.54	0.56
22:JB:71:A:C2	45:JY:57:LYS:CB	2.80	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:JB:836:G:H2'	22:JB:837:U:C6	2.40	0.56
22:JB:1710:U:O2'	24:JD:15:GLN:CD	2.44	0.56
28:JH:98:LEU:HD13	28:JH:122:THR:O	2.06	0.56
31:JK:67:ARG:HA	31:JK:70:PHE:HD2	1.69	0.56
32:JL:58:ALA:HB2	32:JL:66:ALA:O	2.05	0.56
22:JB:2463:G:C4'	34:JN:47:GLN:NE2	2.59	0.56
34:JN:45:SER:O	34:JN:48:ILE:HG22	2.05	0.56
22:JB:1240:G:OP2	38:JR:16:LYS:HD3	2.05	0.56
38:JR:50:ARG:HA	38:JR:50:ARG:HE	1.70	0.56
22:JB:528:G:C2'	40:JT:97:VAL:H	2.18	0.56
34:JN:107:VAL:O	43:JW:114:ASP:O	2.23	0.56
44:JX:47:ALA:HB3	44:JX:49:GLN:NE2	2.20	0.56
22:JB:76:C:OP2	45:JY:56:VAL:HG11	2.04	0.56
1:AA:1092:A:C4'	7:AG:4:ARG:HD2	2.04	0.56
1:AA:1196:U:H5''	1:AA:1197:G:O5'	2.04	0.56
1:AA:1250:A:H2'	1:AA:1251:A:C8	2.40	0.56
1:AA:314:C:O2'	1:AA:315:A:H5'	2.06	0.56
1:AA:331:G:C2	20:AT:8:ARG:C	2.77	0.56
1:AA:436:C:O2'	4:AD:157:LEU:HD22	2.05	0.56
1:AA:475:C:H2'	1:AA:476:U:C6	2.40	0.56
1:AA:741:G:O2'	15:AO:51:HIS:C	2.44	0.56
1:AA:975:A:C4	14:AN:34:TYR:CE1	2.93	0.56
5:AE:76:ILE:HG13	5:AE:93:PRO:HB3	1.87	0.56
1:AA:1346:A:C5'	9:AI:120:ARG:HH12	2.17	0.56
10:AJ:65:LEU:CA	14:AN:55:GLY:O	2.54	0.56
22:BB:1041:G:N3	52:B6:5:SER:CB	2.61	0.56
22:BB:1004:A:C4	22:BB:1173:G:C2	2.93	0.56
22:BB:1090:C:O4'	30:BJ:132:ARG:CZ	2.52	0.56
22:BB:1142:G:C8	31:BK:110:LEU:CB	2.89	0.56
22:BB:1278:A:H2'	22:BB:1278:A:N3	2.20	0.56
22:BB:2721:A:N6	22:BB:2742:G:H22	2.03	0.56
22:BB:546:A:H2'	22:BB:547:U:C5	2.41	0.56
22:BB:589:C:H2'	22:BB:590:C:C6	2.40	0.56
22:BB:1807:A:H5'	24:BD:88:ARG:NE	2.21	0.56
25:BE:17:ASN:O	37:BQ:87:LEU:CD1	2.31	0.56
27:BG:38:GLU:HG2	27:BG:39:GLY:H	1.69	0.56
28:BH:125:VAL:O	28:BH:126:PRO:C	2.44	0.56
28:BH:53:GLU:HG2	28:BH:55:PRO:HD3	1.87	0.56
22:BB:6:A:HO2'	31:BK:161:GLN:NE2	1.97	0.56
22:BB:7:G:C5'	31:BK:79:PHE:CE2	2.88	0.56
37:BQ:18:GLN:HG3	37:BQ:21:THR:HG21	1.87	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:BB:2364:C:O2'	44:BX:69:PHE:CZ	2.56	0.56
1:CA:1222:G:P	19:CS:77:THR:HB	2.44	0.56
1:CA:1250:A:H2'	1:CA:1251:A:C8	2.40	0.56
1:CA:780:A:H4'	1:CA:1523:G:H5''	1.87	0.56
1:CA:475:C:H2'	1:CA:476:U:C6	2.40	0.56
1:CA:547:A:N3	1:CA:548:G:H1'	2.20	0.56
3:CC:60:ALA:HB3	3:CC:63:ASN:O	2.05	0.56
12:CL:83:VAL:HA	12:CL:105:TYR:HB2	1.86	0.56
13:CM:46:LYS:HD2	13:CM:46:LYS:N	2.20	0.56
22:DB:1325:U:H2'	41:DU:61:LYS:HE3	1.86	0.56
22:DB:15:G:O4'	48:D2:21:SER:CB	2.53	0.56
22:DB:1641:C:H2'	22:DB:1642:G:O4'	2.05	0.56
1:CA:702:A:C2	22:DB:1839:A:C4'	2.86	0.56
22:DB:872:G:C1'	22:DB:2247:A:H2	2.12	0.56
22:DB:2798:A:OP1	25:DE:112:GLY:HA3	2.06	0.56
22:DB:54:G:H2'	22:DB:55:A:C8	2.40	0.56
22:DB:777:A:O5'	24:DD:208:LYS:NZ	2.32	0.56
13:CM:83:ASP:CB	22:DB:900(A):A:OP1	2.52	0.56
22:DB:930:A:H8	23:DA:82:U:O2'	1.85	0.56
30:DJ:20:ALA:HB3	30:DJ:21:PRO:HD3	1.86	0.56
31:DK:43:VAL:HA	31:DK:81:VAL:HB	1.86	0.56
22:DB:504:G:C4'	40:DT:25:PHE:HE2	2.16	0.56
41:DU:40:ASP:HA	41:DU:43:GLN:HG3	1.87	0.56
22:DB:865:A:C4'	46:DZ:39:ALA:HA	2.28	0.56
22:DB:1011:A:C5'	46:DZ:7:ARG:HH11	2.14	0.56
1:EA:1196:U:H5''	1:EA:1197:G:O5'	2.05	0.56
3:EC:18:TRP:CH2	14:EN:56:VAL:O	2.59	0.56
4:ED:61:LYS:NZ	4:ED:65:ARG:HD3	2.20	0.56
5:EE:90:VAL:HG21	5:EE:123:LEU:HD12	1.87	0.56
7:EG:66:VAL:HG12	7:EG:70:LYS:HG3	1.87	0.56
8:EH:10:LEU:O	8:EH:14:ARG:HB2	2.05	0.56
10:EJ:62:HIS:ND1	14:EN:61:TRP:HH2	2.02	0.56
15:EO:32:LEU:HD22	15:EO:59:MET:SD	2.45	0.56
51:F5:13:ARG:NH1	51:F5:22:VAL:HG22	2.20	0.56
53:F7:66:VAL:HG12	53:F7:68:PRO:HD3	1.87	0.56
22:FB:1040:A:H1'	22:FB:2465:G:C5'	2.33	0.56
22:FB:1265:G:O4'	38:FR:32:TYR:CD1	2.59	0.56
22:FB:1398:G:C8	22:FB:1415:C:O2	2.58	0.56
22:FB:1507:A:H1'	22:FB:1510:A:OP1	2.05	0.56
22:FB:2283:G:HO2'	27:FG:153:ASP:CB	1.95	0.56
22:FB:2357:A:H2'	22:FB:2358:C:O4'	2.06	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:FB:2470:U:C2	22:FB:2549:G:OP1	2.58	0.56
22:FB:2470:U:H1'	22:FB:2549:G:OP1	2.04	0.56
22:FB:2714:A:OP2	22:FB:2750:G:N2	2.39	0.56
22:FB:2721:A:N6	22:FB:2742:G:H22	2.03	0.56
22:FB:2785:A:H2'	22:FB:2786:G:H8	1.70	0.56
22:FB:546:A:H2'	22:FB:547:U:C5	2.40	0.56
22:FB:738:G:H2'	22:FB:739:G:O4'	2.05	0.56
24:FD:221:GLN:H	24:FD:222:ARG:NH1	2.03	0.56
26:FF:115:GLY:N	26:FF:185:ARG:HG3	2.18	0.56
22:FB:610:G:C3'	26:FF:98:GLN:NE2	2.68	0.56
27:FG:17:MET:HG3	27:FG:21:GLY:HA2	1.86	0.56
32:FL:123:PHE:HA	32:FL:126:ILE:HD12	1.86	0.56
25:FE:176:ARG:NE	37:FQ:20:HIS:HE1	2.03	0.56
40:FT:54:GLU:C	40:FT:56:LEU:H	2.07	0.56
41:FU:6:ILE:HG13	41:FU:37:GLU:HB3	1.88	0.56
1:GA:1196:U:H5''	1:GA:1197:G:O5'	2.05	0.56
1:GA:1424:C:H2'	1:GA:1425:U:O4'	2.04	0.56
1:GA:817:C:H5'	1:GA:820:U:P	2.45	0.56
1:GA:956:U:H2'	1:GA:957:U:C6	2.41	0.56
2:GB:47:THR:HG22	2:GB:51:LEU:HD11	1.87	0.56
12:GL:83:VAL:HA	12:GL:105:TYR:HB2	1.86	0.56
13:GM:46:LYS:HD2	13:GM:46:LYS:N	2.20	0.56
14:GN:48:ALA:HA	14:GN:53:LEU:HD21	1.86	0.56
1:GA:135:C:O2	16:GP:1:MET:HB2	2.05	0.56
19:GS:16:LEU:O	19:GS:19:VAL:HG12	2.05	0.56
22:HB:783:G:OP1	50:H4:8:ASN:HB3	2.05	0.56
51:H5:13:ARG:HE	51:H5:24:ALA:HA	1.71	0.56
23:HA:45:C:H2'	23:HA:46:G:H5'	1.88	0.56
22:HB:1103:C:H42	22:HB:1111:C:N4	2.04	0.56
22:HB:51:A:C1'	22:HB:155:G:H21	2.17	0.56
22:HB:1880:G:H2'	22:HB:1881:U:O4'	2.05	0.56
22:HB:2541:U:H3	22:HB:2545:A:H62	1.53	0.56
22:HB:1476:G:N3	22:HB:2681:A:N1	2.53	0.56
22:HB:1750:A:N3	22:HB:2690:A:C2	2.71	0.56
22:HB:2721:A:H61	22:HB:2742:G:H22	1.53	0.56
22:HB:2782:G:H3'	22:HB:2783:U:C5'	2.34	0.56
22:HB:575:U:H4'	22:HB:822:G:OP1	2.05	0.56
22:HB:610:G:H21	22:HB:615:C:H5'	1.70	0.56
22:HB:836:G:H2'	22:HB:837:U:C6	2.40	0.56
24:HD:105:ILE:HG23	24:HD:106:LEU:O	2.05	0.56
24:HD:148:VAL:HB	24:HD:151:LYS:HB3	1.88	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:HE:111:LYS:HE3	25:HE:160:MET:HB3	1.86	0.56
26:HF:115:GLY:N	26:HF:185:ARG:HG3	2.18	0.56
28:HH:7:GLN:HB3	28:HH:8:PRO:HD3	1.88	0.56
30:HJ:91:PRO:O	30:HJ:92:ASN:HB2	2.05	0.56
22:HB:648:A:OP1	33:HM:131:LYS:CE	2.52	0.56
37:HQ:18:GLN:HG3	37:HQ:21:THR:HG21	1.87	0.56
39:HS:35:LEU:HD13	39:HS:36:LYS:N	2.20	0.56
1:IA:1262:C:H2'	1:IA:1263:C:C6	2.40	0.56
1:IA:546:G:OP1	4:ID:71:SER:HB2	2.05	0.56
1:IA:577:G:H2'	1:IA:578:C:C6	2.41	0.56
1:IA:675:A:C2	11:IK:114:VAL:O	2.57	0.56
1:IA:925:G:C4'	1:IA:1502:A:C4	2.85	0.56
1:IA:927:G:H2'	1:IA:928:G:O4'	2.04	0.56
4:ID:176:LEU:HA	4:ID:182:LYS:O	2.05	0.56
5:IE:90:VAL:HG21	5:IE:123:LEU:HD12	1.87	0.56
10:IJ:21:GLN:HB3	10:IJ:25:GLU:HG3	1.86	0.56
17:IQ:17:LYS:HD3	17:IQ:45:HIS:HE1	1.69	0.56
18:IR:47:THR:HG22	18:IR:48:GLY:H	1.70	0.56
22:JB:2262:C:C5'	49:J3:9:ILE:CD1	2.82	0.56
22:JB:1141:U:O4	25:JE:147:PRO:CG	2.51	0.56
22:JB:1507:A:H1'	22:JB:1510:A:OP1	2.05	0.56
22:JB:1583:A:H4'	22:JB:1584:G:N1	2.21	0.56
22:JB:226:C:C1'	22:JB:2373:C:O2'	2.53	0.56
22:JB:2503:G:HO2'	22:JB:2721:A:H2	1.52	0.56
22:JB:2682:C:H2'	22:JB:2683:C:C6	2.39	0.56
22:JB:2753:C:H2'	22:JB:2754:C:O4'	2.06	0.56
22:JB:75:C:H5'	45:JY:52:GLN:O	2.05	0.56
27:JG:92:ARG:HB2	27:JG:96:MET:SD	2.44	0.56
28:JH:53:GLU:HG2	28:JH:55:PRO:HD3	1.87	0.56
22:JB:1018:C:OP1	31:JK:63:ARG:HD2	2.05	0.56
34:JN:127:PRO:HB2	34:JN:129:GLN:HE22	1.69	0.56
35:JO:112:LEU:HD22	35:JO:113:ILE:N	2.19	0.56
22:JB:528:G:OP1	40:JT:35:PRO:C	2.43	0.56
1:AA:20:U:H2'	1:AA:21:G:O4'	2.05	0.56
1:AA:279:A:C8	17:AQ:95:TYR:CE2	2.94	0.56
1:AA:35:G:H5'	12:AL:84:LEU:CD2	2.35	0.56
2:AB:118:LEU:HD22	2:AB:142:LEU:HD21	1.87	0.56
1:AA:1081:G:OP1	5:AE:18:ARG:HB2	1.84	0.56
6:AF:81:ILE:O	24:BD:137:PRO:HA	2.05	0.56
10:AJ:65:LEU:HD11	14:AN:54:PRO:O	2.05	0.56
12:AL:90:VAL:HG12	12:AL:92:ASP:H	1.70	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:BB:469:G:N7	50:B4:40:HIS:CD2	2.74	0.56
23:BA:44:C:O2'	27:BG:63:GLN:CG	2.53	0.56
22:BB:1040:A:H4'	34:BN:125:LYS:HZ3	0.92	0.56
22:BB:1394:G:N2	22:BB:1588:A:N3	2.50	0.56
22:BB:1674:C:OP1	25:BE:134:TRP:HB2	1.97	0.56
22:BB:1695:U:H2'	22:BB:1696:C:C6	2.40	0.56
22:BB:1795:C:H5'	24:BD:250:TRP:CZ2	2.10	0.56
1:AA:1495:U:O2'	22:BB:1902:A:N6	2.39	0.56
22:BB:2265:A:H4'	22:BB:2266:A:C4	2.39	0.56
22:BB:2273:C:H2'	22:BB:2274:C:C6	2.40	0.56
22:BB:2015:G:N2	22:BB:2551:A:C2	2.73	0.56
22:BB:878:C:N4	22:BB:921:A:H62	2.02	0.56
22:BB:1836:C:C5'	24:BD:255:LYS:HA	2.28	0.56
22:BB:1789:U:H5''	24:BD:257:LEU:HD22	1.87	0.56
25:BE:23:VAL:HG23	25:BE:186:GLY:H	1.70	0.56
26:BF:19:LEU:HD11	26:BF:108:ILE:HB	1.88	0.56
27:BG:136:LEU:HB2	27:BG:150:ARG:NH2	2.21	0.56
30:BJ:20:ALA:O	30:BJ:21:PRO:C	2.43	0.56
31:BK:94:LYS:N	31:BK:94:LYS:HZ3	2.03	0.56
32:BL:58:ALA:HB2	32:BL:66:ALA:O	2.05	0.56
32:BL:99:ILE:HG12	32:BL:105:PRO:HA	1.86	0.56
22:BB:613:A:C6	33:BM:97:ARG:CD	2.75	0.56
34:BN:36:ILE:HD11	43:BW:74:ARG:O	2.06	0.56
42:BV:59:LYS:CB	42:BV:65:PRO:HA	2.35	0.56
1:CA:420:U:H5''	3:CC:127:ARG:NH1	2.20	0.56
1:CA:9:G:H5'	5:CE:122:GLU:OE2	2.05	0.56
1:CA:958:A:N6	19:CS:56:GLN:HG3	2.20	0.56
53:D7:66:VAL:HG12	53:D7:68:PRO:HD3	1.87	0.56
23:DA:54:U:O2'	23:DA:55:C:H5'	2.05	0.56
22:DB:1453:A:H3'	22:DB:1454:U:C6	2.41	0.56
22:DB:1488:G:O6	22:DB:1536:G:C2	2.58	0.56
22:DB:1695:U:H2'	22:DB:1696:C:C6	2.40	0.56
22:DB:1782:A:N1	22:DB:1821:A:H4'	2.19	0.56
22:DB:1861:G:O3'	22:DB:1862:C:P	2.63	0.56
22:DB:1872:A:H1'	22:DB:2069:U:O2'	2.04	0.56
22:DB:2265:A:H4'	22:DB:2266:A:C4	2.39	0.56
22:DB:2273:C:H2'	22:DB:2274:C:C6	2.40	0.56
22:DB:2721:A:N6	22:DB:2742:G:H22	2.03	0.56
22:DB:738:G:H2'	22:DB:739:G:O4'	2.05	0.56
22:DB:923:A:C4	22:DB:2243:C:O2'	2.54	0.56
25:DE:51:TYR:OH	37:DQ:3:THR:CA	2.33	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:DG:31:ILE:HD11	27:DG:34:ILE:HD12	1.87	0.56
27:DG:92:ARG:HB2	27:DG:96:MET:SD	2.44	0.56
30:DJ:20:ALA:HB3	30:DJ:21:PRO:CD	2.35	0.56
31:DK:77:GLY:HA3	31:DK:147:ARG:NH2	2.15	0.56
31:DK:46:ALA:HB1	31:DK:85:ALA:N	2.20	0.56
32:DL:119:ARG:HH21	37:DQ:43:ASN:HD21	1.45	0.56
32:DL:127:VAL:HA	32:DL:130:ALA:HB2	1.88	0.56
22:DB:596:C:C2	33:DM:29:THR:CG2	2.82	0.56
23:DA:106:U:C3'	43:DW:88:TYR:CG	2.67	0.56
1:EA:1227:A:OP1	19:ES:80:TYR:CZ	2.58	0.56
1:EA:287:U:H2'	1:EA:288:A:H8	1.70	0.56
1:EA:314:C:O2'	1:EA:315:A:H5'	2.06	0.56
1:EA:475:C:H2'	1:EA:476:U:C6	2.40	0.56
1:EA:956:U:H2'	1:EA:957:U:C6	2.40	0.56
4:ED:127:THR:HB	4:ED:147:ALA:HB3	1.87	0.56
4:ED:205:GLU:CA	5:EE:101:ILE:CG1	2.69	0.56
9:EI:27:THR:HA	9:EI:32:ASP:CA	2.35	0.56
1:EA:1114:C:H2'	14:EN:61:TRP:CB	2.35	0.56
1:EA:752:G:P	15:EO:69:TYR:HH	2.29	0.56
22:FB:2074:U:O2	47:F1:43:TRP:CE3	2.58	0.56
23:FA:54:U:O2'	23:FA:55:C:H5'	2.05	0.56
22:FB:113:C:H1'	22:FB:125:A:H1'	1.88	0.56
22:FB:1278:A:H2'	22:FB:1278:A:N3	2.20	0.56
22:FB:1782:A:N1	22:FB:1821:A:H4'	2.19	0.56
22:FB:3093:C:O2	22:FB:2181:A:N6	2.38	0.56
22:FB:735:G:H2'	22:FB:736:G:H8	1.70	0.56
24:FD:242:ALA:HA	24:FD:244:ARG:HH21	1.70	0.56
30:FJ:125:ASN:ND2	30:FJ:126:THR:H	2.02	0.56
31:FK:94:LYS:N	31:FK:94:LYS:HZ3	2.03	0.56
34:FN:45:SER:O	34:FN:48:ILE:HG22	2.04	0.56
22:FB:1667:A:OP1	35:FO:12:ARG:NH2	2.38	0.56
39:FS:35:LEU:HD13	39:FS:36:LYS:N	2.20	0.56
1:GA:1061:G:OP1	10:GJ:58:ASP:CB	2.53	0.56
1:GA:1226:C:C6	13:GM:111:LYS:NZ	2.74	0.56
1:GA:1305:G:N2	1:GA:1331:G:H2'	2.21	0.56
1:GA:187:G:OP1	20:GT:82:SER:HB3	2.06	0.56
1:GA:262:A:H5'	20:GT:74:LYS:CE	2.34	0.56
7:GG:153:HIS:CD2	11:GK:58:PRO:HG2	2.40	0.56
14:GN:24:CYS:SG	14:GN:39:LEU:HA	2.45	0.56
17:GQ:4:LYS:O	17:GQ:60:ILE:HA	2.05	0.56
22:HB:3876:A:N1	53:H7:44:GLY:HA3	2.19	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:HB:1583:A:H4'	22:HB:1584:G:N1	2.20	0.56
22:HB:1782:A:N1	22:HB:1821:A:H4'	2.19	0.56
22:HB:2268:G:H4'	22:HB:2362:G:O2'	2.05	0.56
22:HB:235:C:O2	22:HB:633:G:C5'	2.42	0.56
22:HB:2594:U:O4	48:H2:9:LYS:CE	2.53	0.56
22:HB:2753:C:H2'	22:HB:2754:C:O4'	2.06	0.56
22:HB:3124:G:H5'	53:H7:168:PHE:CE1	2.41	0.56
22:HB:3873:G:H2'	22:HB:3874:C:C2	2.41	0.56
22:HB:491:A:H3'	22:HB:492:G:H5''	1.88	0.56
22:HB:589:C:H2'	22:HB:590:C:C6	2.40	0.56
22:HB:719:A:C8	22:HB:738:G:N2	2.73	0.56
22:HB:735:G:H2'	22:HB:736:G:H8	1.70	0.56
24:HD:242:ALA:HA	24:HD:244:ARG:HH21	1.71	0.56
25:HE:8:LYS:HB2	25:HE:193:GLY:HA2	1.87	0.56
22:HB:1994:U:OP1	40:HT:120:ARG:HB3	2.05	0.56
34:HN:106:GLU:O	43:HW:113:VAL:HG23	2.05	0.56
1:IA:1065:U:H4'	1:IA:1066:C:C5'	2.36	0.56
1:IA:1196:U:H5''	1:IA:1197:G:O5'	2.05	0.56
1:IA:1305:G:N2	1:IA:1331:G:H2'	2.21	0.56
1:IA:646:U:H1'	17:IQ:81:ARG:HH12	1.67	0.56
2:IB:55:PHE:HA	2:IB:58:ILE:HD12	1.88	0.56
6:IF:43:LEU:HD13	18:IR:35:ARG:CD	2.34	0.56
1:IA:825:G:O2'	8:IH:12:ARG:CG	2.53	0.56
8:IH:14:ARG:HA	8:IH:18:ARG:NH1	2.20	0.56
8:IH:38:ILE:HA	8:IH:41:ARG:CZ	2.34	0.56
47:J1:19:GLN:NE2	47:J1:31:ILE:HA	2.21	0.56
40:JT:36:ARG:NH2	48:J2:16:ARG:HH11	2.03	0.56
22:JB:220:U:C5'	51:J5:60:LEU:CD1	2.82	0.56
22:JB:1174:G:N9	39:JS:90:PHE:N	2.53	0.56
22:JB:1175:A:H5'	39:JS:89:ASN:CG	2.24	0.56
22:JB:1204:G:P	33:JM:37:GLN:OE1	2.62	0.56
22:JB:1260:A:C3'	38:JR:2:PRO:N	2.69	0.56
22:JB:1628:C:C4'	50:J4:6:GLN:CA	2.52	0.56
22:JB:1880:G:H2'	22:JB:1881:U:O4'	2.05	0.56
22:JB:1889:G:OP2	22:JB:1913:G:P	2.63	0.56
1:IA:1407:C:H4'	22:JB:1901:A:O2'	2.06	0.56
22:JB:2268:G:H4'	22:JB:2362:G:O2'	2.05	0.56
22:JB:2357:A:H2'	22:JB:2358:C:O4'	2.05	0.56
22:JB:2619:G:H22	22:JB:2755:A:H1'	1.70	0.56
22:JB:2824:C:N3	37:JQ:101:ARG:CZ	2.65	0.56
22:JB:3124:G:C4'	53:J7:61:ALA:O	2.52	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:JB:3171:A:H4'	53:J7:105:ARG:HD2	1.87	0.56
22:JB:3197:U:O2	22:JB:2203:G:N1	2.27	0.56
22:JB:732:G:H2'	22:JB:733:G:C8	2.40	0.56
25:JE:111:LYS:HE3	25:JE:160:MET:HB3	1.87	0.56
26:JF:115:GLY:N	26:JF:185:ARG:HG3	2.18	0.56
27:JG:17:MET:HG3	27:JG:21:GLY:HA2	1.86	0.56
33:JM:61:PRO:HG3	51:J5:27:SER:HB3	1.87	0.56
22:JB:1745:C:C1'	37:JQ:109:GLU:HB3	2.28	0.56
22:JB:1260:A:C4'	38:JR:2:PRO:N	2.68	0.56
43:JW:85:MET:O	43:JW:91:PRO:HB3	2.04	0.56
22:JB:1000:G:C5	46:JZ:10:ILE:CG1	2.81	0.56
46:JZ:5:LEU:HB2	46:JZ:31:SER:OG	2.05	0.56
1:AA:1149:C:H2'	1:AA:1150:U:O4'	2.06	0.56
1:AA:1196:U:C5	1:AA:1397:C:N4	2.73	0.56
1:AA:208:U:H2'	1:AA:209:U:H5''	1.86	0.56
2:AB:134:GLU:O	2:AB:138:LEU:HG	2.06	0.56
1:AA:546:G:P	4:AD:72:GLU:N	2.76	0.56
9:AI:11:LYS:HG3	9:AI:108:VAL:HG22	1.87	0.56
13:AM:57:ARG:HA	13:AM:61:GLU:HG3	1.87	0.56
1:AA:734:G:C2'	18:AR:71:LYS:HZ3	2.14	0.56
23:BA:52:G:OP2	36:BP:64:LYS:HB2	2.05	0.56
22:BB:1136:G:H8	52:B6:4:ARG:NE	2.00	0.56
22:BB:1237:G:C3'	39:BS:87:ARG:HB2	2.35	0.56
22:BB:1397:A:N1	22:BB:1418:C:N3	2.52	0.56
22:BB:1507:A:H1'	22:BB:1510:A:OP1	2.05	0.56
22:BB:173:A:O2'	22:BB:174:A:H5'	2.05	0.56
1:AA:1495:U:C5'	22:BB:1895:A:N3	2.68	0.56
22:BB:2372:A:H1'	33:BM:59:ARG:CB	2.14	0.56
22:BB:2665:G:H2'	22:BB:2666:U:O4'	2.03	0.56
22:BB:1989:C:O2'	22:BB:2798:A:H1'	2.05	0.56
22:BB:413:G:O6	47:B1:63:PHE:HD1	1.79	0.56
22:BB:66:U:C4	22:BB:87:G:C6	2.93	0.56
22:BB:704:G:OP1	24:BD:214:TRP:CZ2	2.59	0.56
22:BB:760:U:P	40:BT:111:ARG:HG2	2.45	0.56
22:BB:575:U:H4'	22:BB:822:G:OP1	2.05	0.56
22:BB:66:U:C4	22:BB:87:G:N1	2.74	0.56
24:BD:174:ILE:HD13	24:BD:175:VAL:HG23	1.88	0.56
24:BD:242:ALA:HA	24:BD:244:ARG:HH21	1.70	0.56
25:BE:105:THR:H	25:BE:196:VAL:HG13	1.71	0.56
28:BH:98:LEU:HD13	28:BH:122:THR:O	2.06	0.56
35:BO:108:VAL:HG22	35:BO:110:MET:SD	2.46	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:BB:1290:A:O2'	35:BO:24:GLN:HG2	2.06	0.56
25:BE:176:ARG:NE	37:BQ:19:ASP:HB3	2.18	0.56
45:BY:3:PRO:HG2	45:BY:5:GLU:HB2	1.87	0.56
46:BZ:5:LEU:HB2	46:BZ:31:SER:OG	2.05	0.56
1:CA:1065:U:H4'	1:CA:1066:C:C5'	2.36	0.56
1:CA:1240:U:O4	7:CG:116:ALA:CB	2.48	0.56
1:CA:17:U:H5''	5:CE:14:ARG:CZ	2.35	0.56
1:CA:332:G:C1'	20:CT:13:LEU:HG	2.35	0.56
1:CA:577:G:H2'	1:CA:578:C:C6	2.40	0.56
1:CA:81:C:H2'	1:CA:82:C:O4'	2.06	0.56
1:CA:956:U:H2'	1:CA:957:U:C6	2.41	0.56
2:CB:149:LEU:HG	2:CB:152:PHE:HB3	1.87	0.56
8:CH:14:ARG:HA	8:CH:18:ARG:NH1	2.20	0.56
1:CA:953:G:C8	13:CM:124:PRO:CD	2.84	0.56
13:CM:57:ARG:HA	13:CM:61:GLU:HG3	1.87	0.56
1:CA:742:G:C5'	15:CO:58:MET:HE1	2.26	0.56
47:D1:19:GLN:NE2	47:D1:31:ILE:HA	2.21	0.56
49:D3:14:SER:HA	49:D3:52:GLU:HG3	1.87	0.56
51:D5:13:ARG:NH1	51:D5:22:VAL:HG22	2.20	0.56
23:DA:28:A:H2	23:DA:120:G:H4'	1.70	0.56
22:DB:874:A:H2	23:DA:81:C:O4'	1.88	0.56
22:DB:2726:U:H2'	22:DB:2727:G:O4'	2.05	0.56
22:DB:2716:G:O6	22:DB:2749:A:C5	2.58	0.56
22:DB:319:G:OP2	40:DT:12:LYS:CE	2.54	0.56
22:DB:510:G:C2	22:DB:513:A:OP2	2.58	0.56
22:DB:658:G:H4'	22:DB:2331:A:OP1	2.05	0.56
24:DD:4:LYS:HE2	24:DD:14:ARG:HH22	1.69	0.56
24:DD:60:ARG:H	24:DD:60:ARG:HD3	1.70	0.56
22:DB:2551:A:H62	25:DE:144:ARG:CA	2.17	0.56
27:DG:136:LEU:HB2	27:DG:150:ARG:NH2	2.21	0.56
27:DG:38:GLU:HG2	27:DG:39:GLY:H	1.69	0.56
22:DB:2728:A:C1'	28:DH:67:LEU:CG	2.83	0.56
28:DH:98:LEU:HD13	28:DH:122:THR:O	2.06	0.56
22:DB:1017:C:N1	31:DK:56:THR:CG2	2.62	0.56
22:DB:2463:G:O4'	34:DN:121:LEU:HD12	2.04	0.56
34:DN:38:MET:CB	43:DW:74:ARG:HD3	2.18	0.56
34:DN:99:LYS:CD	43:DW:74:ARG:CB	2.82	0.56
43:DW:94:VAL:HG12	43:DW:96:VAL:HG23	1.87	0.56
22:DB:2236:U:C4'	44:DX:10:SER:HB2	2.32	0.56
45:DY:3:PRO:HG2	45:DY:5:GLU:HB2	1.87	0.56
1:EA:1065:U:H4'	1:EA:1066:C:C5'	2.35	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:EA:1149:C:H2'	1:EA:1150:U:O4'	2.06	0.56
1:EA:1189:C:O2'	3:EC:176:HIS:CG	2.55	0.56
1:EA:1190:G:OP1	3:EC:175:LEU:CD2	2.53	0.56
1:EA:20:U:H2'	1:EA:21:G:O4'	2.05	0.56
1:EA:227:G:H2'	1:EA:228:A:C8	2.38	0.56
1:EA:973:G:C1'	10:EJ:54:PHE:HZ	2.17	0.56
2:EB:232:PRO:O	2:EB:234:PRO:HD3	2.05	0.56
1:EA:1100:C:H6	2:EB:98:LEU:HD21	1.51	0.56
5:EE:132:ALA:O	5:EE:136:MET:HG2	2.04	0.56
7:EG:117:ALA:HA	7:EG:120:ILE:HD12	1.87	0.56
1:EA:599:C:C4'	8:EH:100:ILE:HG13	2.34	0.56
8:EH:14:ARG:HA	8:EH:18:ARG:NH1	2.20	0.56
11:EK:33:THR:HG22	11:EK:39:PRO:HA	1.86	0.56
14:EN:48:ALA:HA	14:EN:53:LEU:HD21	1.87	0.56
1:EA:583:A:O3'	17:EQ:90:ILE:HD12	2.06	0.56
1:EA:1311:G:N7	19:ES:2:PRO:C	2.58	0.56
1:EA:1221:G:O4'	19:ES:54:GLY:HA3	2.04	0.56
47:F1:19:GLN:NE2	47:F1:31:ILE:HA	2.21	0.56
51:F5:3:LYS:HZ2	51:F5:5:LYS:HG3	1.70	0.56
22:FB:1043:A:C5'	52:F6:23:VAL:HG23	2.36	0.56
22:FB:1483:G:O2'	22:FB:1484:G:C2	2.57	0.56
22:FB:1956:G:H2'	22:FB:1957:C:C6	2.41	0.56
22:FB:1507:A:C6	22:FB:2188:A:OP1	2.58	0.56
22:FB:2273:C:H2'	22:FB:2274:C:C6	2.40	0.56
22:FB:2665:G:H2'	22:FB:2666:U:O4'	2.03	0.56
22:FB:489:A:H1'	42:FV:74:LEU:CD1	2.35	0.56
22:FB:687:G:C5'	26:FF:70:GLY:HA3	2.35	0.56
22:FB:863:C:O2'	46:FZ:42:GLY:O	2.23	0.56
22:FB:892:A:C6	22:FB:912:A:C2	2.93	0.56
25:FE:39:ALA:O	25:FE:40:GLN:HB2	2.06	0.56
27:FG:69:LYS:HG2	27:FG:70:ALA:N	2.20	0.56
22:FB:2741:G:H1'	28:FH:143:GLN:NE2	2.19	0.56
31:FK:46:ALA:HB1	31:FK:85:ALA:N	2.20	0.56
22:FB:2652:G:O2'	32:FL:46:HIS:HE1	1.88	0.56
41:FU:40:ASP:HA	41:FU:43:GLN:HG3	1.87	0.56
22:FB:348:U:H4'	42:FV:13:LYS:HB2	1.81	0.56
1:GA:287:U:H2'	1:GA:288:A:H8	1.70	0.56
1:GA:927:G:H2'	1:GA:928:G:O4'	2.04	0.56
1:GA:1079:G:H1'	5:GE:14:ARG:HH22	1.69	0.56
1:GA:1378:C:H5''	7:GG:6:ARG:CZ	2.36	0.56
8:GH:10:LEU:O	8:GH:14:ARG:HB2	2.06	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:GA:1320:C:C4'	19:GS:3:ARG:HD3	2.32	0.56
22:HB:2444:C:H4'	52:H6:3:VAL:HG13	1.87	0.56
22:HB:1507:A:H1'	22:HB:1510:A:OP1	2.05	0.56
22:HB:51:A:C2	22:HB:155:G:H1'	2.41	0.56
22:HB:16:G:H2'	22:HB:17:G:H8	1.69	0.56
22:HB:1976:U:O3'	25:HE:128:SER:HA	2.05	0.56
22:HB:2717:G:H21	31:HK:117:GLU:C	2.01	0.56
22:HB:3179:C:P	53:H7:38:GLY:CA	2.79	0.56
22:HB:504:G:C4'	40:HT:25:PHE:HB3	2.36	0.56
31:HK:126:VAL:HG13	31:HK:127:ILE:HG13	1.86	0.56
31:HK:135:LEU:HD23	31:HK:141:GLY:HA3	1.86	0.56
22:HB:547:U:C4'	31:HK:30:LYS:HD2	2.36	0.56
33:HM:122:VAL:HG13	33:HM:123:ASP:H	1.69	0.56
22:HB:818:G:C4'	33:HM:41:SER:CA	2.79	0.56
36:HP:8:ARG:NH1	36:HP:9:ARG:HE	2.03	0.56
41:HU:15:LYS:HG3	41:HU:19:ALA:HB2	1.87	0.56
42:HV:64:ASN:O	42:HV:65:PRO:C	2.43	0.56
43:HW:30:VAL:HG12	43:HW:31:SER:H	1.69	0.56
1:IA:545:C:H2'	1:IA:546:G:H8	1.70	0.56
1:IA:644:G:H5'	8:IH:92:ARG:CZ	2.35	0.56
1:IA:866:C:C5	1:IA:867:G:H1'	2.41	0.56
1:IA:13:U:C2	1:IA:914:A:H8	2.23	0.56
4:ID:196:LEU:HD23	4:ID:197:PRO:CD	2.34	0.56
1:IA:1308:U:H3'	13:IM:99:ARG:CD	2.36	0.56
49:J3:42:PRO:HG3	49:J3:48:VAL:HB	1.86	0.56
33:JM:62:LYS:HB2	51:J5:30:ARG:HE	0.44	0.56
22:JB:1152:C:N4	31:JK:50:PRO:HB2	2.20	0.56
22:JB:1167:A:C2'	22:JB:1168:G:OP1	2.48	0.56
22:JB:1782:A:N1	22:JB:1821:A:H4'	2.19	0.56
22:JB:2000:U:C3'	48:J2:8:LYS:CE	2.73	0.56
22:JB:219:G:C3'	51:J5:3:LYS:O	2.47	0.56
22:JB:2396:C:H2'	22:JB:2397:A:O4'	2.05	0.56
22:JB:2782:G:H3'	22:JB:2783:U:C5'	2.34	0.56
22:JB:404:A:H1'	22:JB:423:G:OP1	2.06	0.56
22:JB:491:A:H3'	22:JB:492:G:H5''	1.88	0.56
22:JB:589:C:H2'	22:JB:590:C:C6	2.40	0.56
22:JB:846:A:C1'	33:JM:53:ARG:CD	2.64	0.56
22:JB:94:C:O2	45:JY:45:GLN:HB2	2.06	0.56
24:JD:4:LYS:HE2	24:JD:14:ARG:HH22	1.69	0.56
29:JI:30:ILE:N	29:JI:31:PRO:HD3	2.20	0.56
34:JN:23:LYS:HG2	34:JN:39:GLU:OE2	2.06	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:JR:18:LEU:O	38:JR:18:LEU:HD13	2.06	0.56
22:JB:529:U:H4'	40:JT:95:ALA:HB3	1.86	0.56
1:AA:1382:C:H5'	7:AG:79:ARG:HG3	1.86	0.56
1:AA:373:A:N6	1:AA:482:A:H62	2.02	0.56
1:AA:577:G:H2'	1:AA:578:C:C6	2.40	0.56
2:AB:47:THR:HG22	2:AB:51:LEU:HD11	1.87	0.56
10:AJ:55:LYS:NZ	10:AJ:55:LYS:HB2	2.21	0.56
1:AA:583:A:C8	17:AQ:105:ALA:OXT	2.58	0.56
23:BA:54:U:O2'	23:BA:55:C:H5'	2.05	0.56
22:BB:1166:A:N7	22:BB:1168:G:C6	2.74	0.56
22:BB:1480:G:N3	22:BB:1561:A:H2	2.02	0.56
22:BB:1829:C:O2'	22:BB:1910:A:C4	2.58	0.56
22:BB:1956:G:H2'	22:BB:1957:C:C6	2.41	0.56
22:BB:2404:A:H5'	22:BB:2406:C:N1	2.20	0.56
22:BB:2550:C:C2	22:BB:2553:G:O4'	2.58	0.56
22:BB:2726:U:H2'	22:BB:2727:G:O4'	2.05	0.56
22:BB:3876:A:N3	22:BB:3877:A:H1'	2.21	0.56
24:BD:106:LEU:HG	24:BD:144:ALA:HB2	1.87	0.56
24:BD:148:VAL:HB	24:BD:151:LYS:HB3	1.88	0.56
22:BB:1805:G:C5'	24:BD:44:ASN:N	2.54	0.56
22:BB:6:A:C4'	31:BK:162:LYS:HZ3	2.18	0.56
22:BB:596:C:C3'	33:BM:28:LYS:O	2.53	0.56
32:BL:85:ASP:C	37:BQ:84:ALA:CB	2.74	0.56
39:BS:35:LEU:HD13	39:BS:36:LYS:N	2.20	0.56
22:BB:513:A:OP2	40:BT:15:LYS:O	2.15	0.56
22:BB:502:A:N1	40:BT:28:ALA:HB1	2.19	0.56
41:BU:6:ILE:HG13	41:BU:37:GLU:HB3	1.88	0.56
1:CA:1149:C:H2'	1:CA:1150:U:O4'	2.06	0.56
1:CA:1196:U:H5''	1:CA:1197:G:O5'	2.05	0.56
1:CA:1307:U:OP1	13:CM:106:ASN:O	2.23	0.56
1:CA:1530:G:O2'	1:CA:1531:A:H5'	2.04	0.56
1:CA:588:G:C4'	8:CH:5:PRO:HG3	2.36	0.56
11:CK:63:LEU:HG	11:CK:66:LEU:HD12	1.88	0.56
17:CQ:21:VAL:HG23	17:CQ:43:LEU:HA	1.88	0.56
22:DB:176:A:H2'	47:D1:30:GLU:HB2	1.86	0.56
23:DA:45:C:H2'	23:DA:46:G:H5'	1.88	0.56
22:DB:164:G:H5''	47:D1:12:CYS:CB	2.35	0.56
22:DB:1956:G:H2'	22:DB:1957:C:C6	2.41	0.56
22:DB:2218:G:H5'	24:DD:248:THR:HA	1.88	0.56
22:DB:2336:G:HO2'	22:DB:2338:C:H5	1.53	0.56
22:DB:2782:G:H3'	22:DB:2783:U:C5'	2.34	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:DB:2786:G:C1'	25:DE:59:VAL:CG1	2.73	0.56
22:DB:3876:A:N3	22:DB:3877:A:H1'	2.21	0.56
22:DB:742:G:H8	24:DD:208:LYS:CE	1.77	0.56
22:DB:575:U:H4'	22:DB:822:G:OP1	2.05	0.56
22:DB:891:A:C5	22:DB:909:C:C4	2.94	0.56
22:DB:917:U:O3'	43:DW:121:GLN:N	2.38	0.56
22:DB:2710:C:C1'	25:DE:169:ASN:HB3	2.35	0.56
28:DH:125:VAL:O	28:DH:126:PRO:C	2.44	0.56
22:DB:2620:G:H5'	31:DK:102:ARG:HH12	1.70	0.56
22:DB:1216:G:N2	33:DM:14:LYS:HZ3	2.01	0.56
38:DR:18:LEU:O	38:DR:18:LEU:HD13	2.06	0.56
1:EA:1048:G:O3'	1:EA:1049:U:H3'	2.05	0.56
1:EA:1171:G:H2'	1:EA:1172:C:C5	2.41	0.56
1:EA:1186:G:H4'	9:EI:119:ALA:CB	2.30	0.56
1:EA:1250:A:H2'	1:EA:1251:A:C8	2.40	0.56
9:EI:11:LYS:HG3	9:EI:108:VAL:HG22	1.87	0.56
12:EL:110:VAL:HG21	12:EL:120:TYR:HA	1.86	0.56
1:EA:633:G:C4'	17:EQ:28:PRO:HD2	2.24	0.56
19:ES:16:LEU:O	19:ES:19:VAL:HG12	2.05	0.56
22:FB:464:G:H22	50:F4:39:ARG:HH21	1.53	0.56
22:FB:1047:G:C6	22:FB:1048:U:N3	2.74	0.56
22:FB:1488:G:O6	22:FB:1533:G:N1	2.39	0.56
22:FB:1695:U:H2'	22:FB:1696:C:C6	2.40	0.56
22:FB:1507:A:N6	22:FB:2188:A:OP1	2.38	0.56
22:FB:220:U:P	51:F5:4:MET:O	2.55	0.56
22:FB:2364:C:C1'	44:FX:37:LEU:HD21	2.35	0.56
22:FB:2652:G:O4'	32:FL:46:HIS:CE1	2.59	0.56
22:FB:2726:U:H2'	22:FB:2727:G:O4'	2.05	0.56
22:FB:761:G:H1	22:FB:765:C:H42	1.53	0.56
24:FD:174:ILE:HD13	24:FD:175:VAL:HG23	1.88	0.56
27:FG:83:MET:HB3	27:FG:84:PRO:HD2	1.87	0.56
30:FJ:20:ALA:O	30:FJ:21:PRO:C	2.43	0.56
31:FK:44:VAL:HB	31:FK:82:VAL:HA	1.87	0.56
35:FO:108:VAL:HG22	35:FO:110:MET:SD	2.46	0.56
43:FW:88:TYR:CA	43:FW:90:GLU:O	2.54	0.56
46:FZ:5:LEU:HB2	46:FZ:31:SER:OG	2.05	0.56
1:GA:1171:G:H2'	1:GA:1172:C:C5	2.41	0.56
1:GA:1190:G:P	3:GC:5:ILE:HG13	2.45	0.56
1:AA:182:U:O3'	1:GA:190:A:H1'	2.05	0.56
1:GA:659:U:C4'	15:GO:5:LYS:CE	2.57	0.56
1:GA:666:G:N2	15:GO:49:ASP:OD1	2.39	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:GA:81:C:H2'	1:GA:82:C:O4'	2.06	0.56
3:GC:12:LEU:HA	3:GC:16:ARG:O	2.06	0.56
5:GE:90:VAL:HG21	5:GE:123:LEU:HD12	1.87	0.56
22:HB:1217:U:H1'	33:HM:14:LYS:HE3	1.87	0.56
22:HB:1898:U:H2'	22:HB:1899:A:H8	1.70	0.56
22:HB:1040:A:C8	22:HB:2465:G:O4'	2.59	0.56
22:HB:2558:C:H4'	25:HE:132:LYS:CB	2.24	0.56
22:HB:2814:G:OP1	35:HO:46:PRO:HG2	2.06	0.56
22:HB:2671:C:O2'	22:HB:2822:U:C2'	2.53	0.56
22:HB:512:A:H8	40:HT:16:GLN:CB	2.16	0.56
22:HB:542:A:O5'	38:HR:25:TRP:CB	2.53	0.56
13:GM:93:ARG:CZ	22:HB:900:U:H3'	2.33	0.56
26:HF:176:ASN:O	26:HF:180:ILE:HG23	2.06	0.56
30:HJ:20:ALA:HB3	30:HJ:21:PRO:HD3	1.86	0.56
36:HP:30:SER:HB3	36:HP:32:TYR:CE2	2.40	0.56
41:HU:91:LEU:HD13	45:HY:24:GLU:HG2	1.85	0.56
22:HB:2249:U:OP1	44:HX:20:TYR:HE1	1.88	0.56
45:HY:25:LEU:HD22	45:HY:28:LEU:HD12	1.88	0.56
1:IA:1117:G:H1	1:IA:1180:A:H1'	1.69	0.56
1:IA:1226:C:H3'	13:IM:104:ARG:HA	1.86	0.56
1:IA:1424:C:H2'	1:IA:1425:U:O4'	2.04	0.56
1:IA:369:C:H2'	1:IA:370:C:H6	1.71	0.56
1:IA:824:C:C1'	8:IH:3:THR:HG22	2.20	0.56
1:IA:81:C:H2'	1:IA:82:C:O4'	2.05	0.56
2:IB:7:VAL:HG12	2:IB:221:LEU:HD11	1.86	0.56
3:IC:12:LEU:HA	3:IC:16:ARG:O	2.06	0.56
4:ID:162:LEU:HD22	4:ID:166:LYS:HA	1.88	0.56
3:IC:23:TYR:CZ	10:IJ:93:GLY:CA	2.86	0.56
19:IS:16:LEU:O	19:IS:19:VAL:HG12	2.05	0.56
22:JB:1001:A:H1'	22:JB:1168:G:P	2.45	0.56
22:JB:13:A:H61	22:JB:535:U:H2'	1.70	0.56
22:JB:1613:G:O2'	22:JB:1614:C:C5	2.56	0.56
22:JB:16:G:H2'	22:JB:17:G:H8	1.69	0.56
22:JB:1760:G:C1'	22:JB:1941:C:H5'	2.35	0.56
22:JB:1750:A:N3	22:JB:2690:A:H2	2.04	0.56
22:JB:3121:G:N3	53:J7:160:LYS:CE	2.69	0.56
22:JB:603:C:O3'	22:JB:604:U:O5'	2.22	0.56
24:JD:106:LEU:HG	24:JD:144:ALA:HB2	1.87	0.56
24:JD:60:ARG:H	24:JD:60:ARG:HD3	1.70	0.56
22:JB:2491:C:O2	25:JE:140:SER:HB3	2.01	0.56
27:JG:2:GLN:O	27:JG:5:LYS:HB3	2.06	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:JK:135:LEU:HD23	31:JK:141:GLY:HA3	1.86	0.56
22:JB:846:A:O4'	33:JM:53:ARG:HA	2.05	0.56
34:JN:107:VAL:CG1	43:JW:113:VAL:HG12	2.31	0.56
36:JP:42:ILE:HG22	36:JP:43:ILE:N	2.21	0.56
39:JS:35:LEU:HD13	39:JS:36:LYS:N	2.20	0.56
22:JB:1004:A:O2'	39:JS:88:GLN:OE1	2.23	0.56
1:AA:186:C:O2	20:AT:81:LYS:NZ	2.27	0.56
3:AC:60:ALA:HB3	3:AC:63:ASN:O	2.06	0.56
3:AC:132:ARG:NH1	4:AD:47:ARG:HH12	2.04	0.56
1:AA:1350:A:C2'	7:AG:33:ASP:CA	2.80	0.56
10:AJ:64:GLU:O	14:AN:56:VAL:CB	2.54	0.56
13:AM:46:LYS:HD2	13:AM:46:LYS:N	2.20	0.56
1:AA:1203:C:OP1	14:AN:2:ALA:HB2	2.05	0.56
47:B1:19:GLN:NE2	47:B1:31:ILE:HA	2.21	0.56
22:BB:1135:C:H4'	52:B6:36:GLN:CB	2.36	0.56
22:BB:1514:C:OP2	22:BB:1593:C:H5''	2.06	0.56
22:BB:1957:C:H2'	22:BB:1958:G:O4'	2.06	0.56
22:BB:2766:U:O4'	25:BE:61:LYS:O	2.22	0.56
22:BB:348:U:H5''	42:BV:13:LYS:CE	2.27	0.56
22:BB:494:A:H4'	42:BV:58:VAL:HG12	1.88	0.56
22:BB:598:U:H2'	22:BB:599:A:H8	1.69	0.56
22:BB:686:C:H5'	26:BF:74:VAL:HG12	1.87	0.56
22:BB:732:G:H2'	22:BB:733:G:C8	2.40	0.56
22:BB:95:G:OP1	45:BY:39:GLN:HA	2.06	0.56
24:BD:4:LYS:HE2	24:BD:14:ARG:HH22	1.69	0.56
25:BE:39:ALA:O	25:BE:40:GLN:HB2	2.06	0.56
27:BG:2:GLN:O	27:BG:5:LYS:HB3	2.06	0.56
27:BG:92:ARG:HB2	27:BG:96:MET:SD	2.45	0.56
22:BB:596:C:C1'	33:BM:29:THR:CB	2.81	0.56
23:BA:98:C:H42	43:BW:10:PRO:HD2	1.69	0.56
43:BW:3:LEU:HB2	43:BW:56:VAL:HA	1.86	0.56
1:CA:567:G:H2'	1:CA:568:G:O4'	2.06	0.56
1:CA:572:A:H5''	1:CA:917:G:H5'	1.88	0.56
1:CA:1372:U:P	9:CI:69:GLY:HA3	2.45	0.56
13:CM:81:LEU:HD12	13:CM:92:HIS:ND1	2.20	0.56
14:CN:22:THR:O	14:CN:23:ARG:HB2	2.06	0.56
1:CA:583:A:C4	17:CQ:91:ARG:HD3	2.39	0.56
22:DB:696:U:C5'	50:D4:16:HIS:ND1	2.35	0.56
22:DB:1292:A:H5''	35:DO:33:ARG:HB3	1.82	0.56
22:DB:1295:U:H2'	22:DB:1296:G:O4'	2.05	0.56
22:DB:1359:G:O2'	22:DB:1360:G:H5'	2.06	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:DB:173:A:O2'	22:DB:174:A:H5'	2.05	0.56
22:DB:2541:U:H3	22:DB:2545:A:H62	1.54	0.56
22:DB:589:C:H2'	22:DB:590:C:C6	2.40	0.56
22:DB:761:G:H1	22:DB:765:C:H42	1.52	0.56
26:DF:19:LEU:HD11	26:DF:108:ILE:HB	1.88	0.56
27:DG:132:ILE:CG1	27:DG:153:ASP:HA	2.36	0.56
30:DJ:55:VAL:HA	30:DJ:70:LYS:HG2	1.87	0.56
34:DN:23:LYS:HG2	34:DN:39:GLU:OE2	2.06	0.56
35:DO:108:VAL:HG22	35:DO:110:MET:SD	2.46	0.56
22:DB:1237:G:C5'	39:DS:87:ARG:HD3	2.35	0.56
40:DT:48:LYS:HA	40:DT:48:LYS:HE2	1.87	0.56
34:DN:99:LYS:HD2	43:DW:74:ARG:HB2	1.85	0.56
1:EA:1117:G:N2	9:EI:106:ALA:N	2.54	0.56
1:EA:545:C:H2'	1:EA:546:G:H8	1.70	0.56
3:EC:60:ALA:HB3	3:EC:63:ASN:O	2.06	0.56
6:EF:20:ALA:HB1	6:EF:23:LYS:HD3	1.87	0.56
8:EH:133:LEU:HD23	8:EH:134:ILE:N	2.21	0.56
11:EK:87:THR:HG23	11:EK:91:ARG:HH22	1.71	0.56
22:FB:409:G:H5''	47:F1:10:VAL:HG11	1.77	0.56
22:FB:409:G:O5'	47:F1:10:VAL:HG11	2.05	0.56
23:FA:14:C:C6	44:FX:54:GLY:N	2.73	0.56
22:FB:950:G:N2	22:FB:1205:G:H4'	2.18	0.56
22:FB:173:A:O2'	22:FB:174:A:H5'	2.05	0.56
22:FB:1957:C:H2'	22:FB:1958:G:O4'	2.06	0.56
22:FB:2237:C:OP2	44:FX:10:SER:O	2.24	0.56
22:FB:23:G:HO2'	40:FT:98:ASP:CG	1.79	0.56
22:FB:309:G:N7	42:FV:13:LYS:CE	2.69	0.56
22:FB:3876:A:N3	22:FB:3877:A:H1'	2.21	0.56
22:FB:491:A:H3'	22:FB:492:G:H5''	1.88	0.56
22:FB:598:U:H2'	22:FB:599:A:H8	1.69	0.56
13:EM:83:ASP:CG	22:FB:900(A):A:P	2.84	0.56
22:FB:878:C:N4	22:FB:921:A:H62	2.02	0.56
24:FD:4:LYS:HE2	24:FD:14:ARG:HH22	1.69	0.56
27:FG:132:ILE:CG1	27:FG:153:ASP:HA	2.36	0.56
30:FJ:20:ALA:HB3	30:FJ:21:PRO:CD	2.35	0.56
30:FJ:91:PRO:O	30:FJ:92:ASN:HB2	2.06	0.56
31:FK:126:VAL:HG22	31:FK:127:ILE:N	2.16	0.56
31:FK:135:LEU:HD23	31:FK:141:GLY:HA3	1.86	0.56
31:FK:43:VAL:HA	31:FK:81:VAL:HB	1.87	0.56
22:FB:2540:A:C2'	32:FL:23:ARG:CD	2.83	0.56
40:FT:66:GLU:O	40:FT:67:PRO:C	2.44	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:GA:1106:G:OP1	3:GC:172:ARG:HG3	2.06	0.56
1:CA:1266:G:OP1	1:GA:1273:G:H5''	2.06	0.56
1:GA:545:C:H2'	1:GA:546:G:H8	1.70	0.56
1:GA:629:G:H21	1:GA:631:G:N2	2.03	0.56
1:GA:866:C:C5	1:GA:867:G:H1'	2.41	0.56
2:GB:77:ALA:HA	2:GB:80:ILE:HD12	1.88	0.56
3:GC:60:ALA:HB3	3:GC:63:ASN:O	2.06	0.56
4:GD:196:LEU:HD23	4:GD:197:PRO:CD	2.34	0.56
11:GK:87:THR:HA	11:GK:91:ARG:NH2	2.21	0.56
12:GL:110:VAL:HG21	12:GL:120:TYR:HA	1.86	0.56
1:GA:1321:C:H5''	13:GM:87:TYR:CZ	2.41	0.56
53:H7:50:GLU:HG3	53:H7:190:ILE:HD13	1.88	0.56
22:HB:2002:A:H1'	38:HR:33:ARG:CZ	2.36	0.56
22:HB:2448:A:C4'	34:HN:57:ARG:CZ	2.83	0.56
22:HB:2585:C:H2'	22:HB:2586:G:C8	2.41	0.56
22:HB:239:A:H1'	22:HB:443:A:O2'	2.06	0.56
22:HB:777:A:OP1	24:HD:208:LYS:CE	2.53	0.56
25:HE:53:PRO:HB3	37:HQ:5:ILE:HG21	1.88	0.56
27:HG:136:LEU:HG	27:HG:138:PHE:CD2	2.33	0.56
27:HG:2:GLN:O	27:HG:5:LYS:HB3	2.06	0.56
28:HH:125:VAL:O	28:HH:126:PRO:C	2.44	0.56
22:HB:593:C:H5''	38:HR:3:ARG:NH2	2.20	0.56
22:HB:1261:G:N9	38:HR:3:ARG:N	2.53	0.56
1:IA:928:G:C2'	1:IA:1532:U:O2'	2.52	0.56
1:IA:620:C:H5''	4:ID:138:TYR:CE1	2.40	0.56
1:IA:79:G:H2'	1:IA:79:G:N3	2.21	0.56
7:IG:66:VAL:HG12	7:IG:70:LYS:HG3	1.87	0.56
1:IA:878:G:P	8:IH:88:LYS:HD3	2.45	0.56
1:IA:1147:C:H1'	9:II:16:ARG:HH21	0.51	0.56
15:IO:32:LEU:HD22	15:IO:59:MET:SD	2.45	0.56
20:IT:26:ASN:HB3	20:IT:30:LYS:NZ	2.21	0.56
33:JM:61:PRO:CB	51:J5:27:SER:HB2	2.36	0.56
22:JB:1074:G:C1'	30:JJ:134:MET:SD	2.93	0.56
22:JB:1103:C:H42	22:JB:1111:C:N4	2.04	0.56
22:JB:173:A:O2'	22:JB:174:A:H5'	2.05	0.56
22:JB:1780:A:OP1	24:JD:221:GLN:C	2.44	0.56
22:JB:2339:A:H1'	22:JB:2407:G:C2	2.40	0.56
22:JB:2585:C:H2'	22:JB:2586:G:C8	2.41	0.56
22:JB:239:A:H1'	22:JB:443:A:O2'	2.06	0.56
22:JB:50:G:H22	22:JB:117:A:H1'	1.70	0.56
22:JB:633:G:H8	33:JM:101:ARG:HH21	1.54	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:JB:575:U:H4'	22:JB:822:G:OP1	2.05	0.56
31:JK:149:LYS:HZ3	31:JK:149:LYS:HA	1.69	0.56
32:JL:46:HIS:HB2	32:JL:49:ASP:OD1	2.06	0.56
22:JB:512:A:C4'	40:JT:15:LYS:C	2.51	0.56
22:JB:940:G:OP1	46:JZ:35:SER:CB	2.54	0.56
1:AA:1470:G:O3'	32:BL:17:ARG:NH1	2.39	0.56
1:AA:237:C:OP1	17:AQ:27:PHE:CZ	2.59	0.56
1:AA:279:A:H5''	1:AA:280:C:H2'	1.87	0.56
1:AA:402:G:O4'	1:AA:621:A:N3	2.39	0.56
1:AA:430:A:P	4:AD:8:VAL:N	2.64	0.56
1:AA:866:C:C5	1:AA:867:G:H1'	2.41	0.56
3:AC:27:LYS:O	3:AC:30:ARG:HG2	2.06	0.56
5:AE:90:VAL:HG21	5:AE:123:LEU:HD12	1.87	0.56
1:AA:1350:A:N6	9:AI:118:LYS:HE3	2.21	0.56
13:AM:3:ARG:H	13:AM:3:ARG:HD2	1.71	0.56
13:AM:87:TYR:HD1	13:AM:90:LEU:CD1	2.19	0.56
14:AN:22:THR:O	14:AN:23:ARG:HB2	2.06	0.56
1:AA:741:G:C3'	15:AO:55:GLY:HA3	2.33	0.56
22:BB:1044:U:O4	52:B6:15:LYS:HE3	2.04	0.56
23:BA:45:C:C2'	23:BA:46:G:H5'	2.35	0.56
22:BB:1141:U:C2	31:BK:106:TYR:HD1	2.10	0.56
22:BB:1295:U:H2'	22:BB:1296:G:O4'	2.05	0.56
22:BB:1359:G:O2'	22:BB:1360:G:H5'	2.06	0.56
22:BB:1385:C:H1'	22:BB:2193:C:N3	2.20	0.56
22:BB:1782:A:N1	22:BB:1821:A:H4'	2.19	0.56
22:BB:2632:U:OP2	22:BB:2633:A:H3'	2.06	0.56
22:BB:700:C:H5''	50:B4:3:ARG:O	1.97	0.56
22:BB:718:A:N6	22:BB:739:G:C1'	2.64	0.56
22:BB:742:G:H5''	24:BD:18:THR:CB	2.36	0.56
24:BD:246:PRO:CG	24:BD:247:VAL:H	2.17	0.56
24:BD:82:ILE:HG13	24:BD:93:ALA:HA	1.88	0.56
25:BE:111:LYS:HE3	25:BE:160:MET:HB3	1.86	0.56
26:BF:16:GLU:HG3	26:BF:17:LEU:N	2.17	0.56
27:BG:132:ILE:CG1	27:BG:153:ASP:HA	2.36	0.56
22:BB:2465:G:O5'	34:BN:123:GLY:HA3	2.05	0.56
34:BN:73:LYS:HB3	34:BN:94:TRP:N	2.06	0.56
36:BP:30:SER:HB3	36:BP:32:TYR:CE2	2.40	0.56
32:BL:86:GLY:O	37:BQ:84:ALA:CA	2.54	0.56
22:BB:827:C:P	39:BS:83:ARG:CA	2.94	0.56
22:BB:886:A:C5	43:BW:167:THR:HG21	2.27	0.56
23:BA:78:A:C5'	43:BW:31:SER:HB2	2.18	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:1048:G:O3'	1:CA:1049:U:H3'	2.05	0.56
1:CA:1171:G:H2'	1:CA:1172:C:C5	2.41	0.56
1:CA:20:U:H2'	1:CA:21:G:O4'	2.05	0.56
1:CA:255:G:C5'	17:CQ:17:LYS:CE	2.84	0.56
5:CE:18:ARG:HH12	5:CE:27:ARG:HG3	1.71	0.56
9:CI:31:GLN:HB3	9:CI:36:TYR:HB2	1.88	0.56
1:CA:706:A:C2'	11:CK:29:ILE:HD13	2.35	0.56
13:CM:84:ILE:O	13:CM:93:ARG:HD3	2.05	0.56
1:CA:1221:G:HO2'	19:CS:77:THR:HG21	1.65	0.56
22:DB:1278:A:H2'	22:DB:1278:A:N3	2.21	0.56
22:DB:225:G:H1'	22:DB:2412:A:N6	2.18	0.56
22:DB:538:A:C8	31:DK:142:ARG:NH1	2.73	0.56
22:DB:696:U:H2'	22:DB:697:G:C8	2.41	0.56
22:DB:1816:G:OP2	24:DD:54:ILE:CD1	2.53	0.56
22:DB:547:U:H5''	31:DK:30:LYS:HD2	1.85	0.56
32:DL:87:SER:CB	37:DQ:83:PHE:CB	2.69	0.56
37:DQ:18:GLN:HG3	37:DQ:21:THR:HG21	1.87	0.56
22:DB:525:A:C5'	38:DR:31:GLN:HA	2.36	0.56
22:DB:1261:G:O6	38:DR:3:ARG:CZ	2.54	0.56
44:DX:66:LYS:HB2	44:DX:66:LYS:HZ2	1.71	0.56
1:EA:1303:C:H2'	1:EA:1304:G:O4'	2.05	0.56
1:EA:826:C:H4'	8:EH:15:ASN:HB2	1.88	0.56
2:EB:74:LYS:HD3	2:EB:165:VAL:HG11	1.88	0.56
17:EQ:4:LYS:O	17:EQ:60:ILE:HA	2.05	0.56
49:F3:14:SER:HA	49:F3:52:GLU:HG3	1.87	0.56
53:F7:63:ARG:HG2	53:F7:82:LYS:HZ3	1.70	0.56
22:FB:1291:G:H5''	35:FO:35:GLN:N	2.20	0.56
22:FB:1295:U:H2'	22:FB:1296:G:O4'	2.05	0.56
22:FB:1398:G:N3	22:FB:1415:C:C2'	2.66	0.56
22:FB:1704:G:H2'	22:FB:1718:A:H61	1.71	0.56
22:FB:16:G:H2'	22:FB:17:G:H8	1.69	0.56
22:FB:1887:G:C6	22:FB:1888:C:C2	2.93	0.56
22:FB:2714:A:H61	22:FB:2750:G:C1'	2.16	0.56
22:FB:2701:A:N9	22:FB:2848:A:C8	2.74	0.56
22:FB:29:U:C1'	38:FR:8:ILE:CG1	2.78	0.56
22:FB:732:G:H2'	22:FB:733:G:C8	2.40	0.56
22:FB:75:C:C1'	45:FY:48:ARG:CD	2.62	0.56
24:FD:105:ILE:HG23	24:FD:106:LEU:O	2.05	0.56
24:FD:148:VAL:HB	24:FD:151:LYS:HB3	1.88	0.56
28:FH:33:LEU:HD11	28:FH:74:ASN:HD22	1.71	0.56
28:FH:98:LEU:HD13	28:FH:122:THR:O	2.06	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:FN:77:LYS:HB2	34:FN:92:GLU:CD	2.26	0.56
38:FR:18:LEU:O	38:FR:18:LEU:HD13	2.06	0.56
22:FB:1992:G:P	40:FT:62:ARG:CB	2.94	0.56
22:FB:1411:C:H4'	41:FU:81:ARG:NH1	2.21	0.56
42:FV:51:VAL:HG11	42:FV:74:LEU:HD22	1.88	0.56
1:GA:369:C:H2'	1:GA:370:C:H6	1.71	0.56
1:GA:453:A:H2'	1:GA:454:C:C6	2.41	0.56
2:GB:134:GLU:O	2:GB:138:LEU:HG	2.06	0.56
6:GF:41:GLU:HB2	6:GF:62:TRP:HZ3	1.71	0.56
7:GG:66:VAL:HG12	7:GG:70:LYS:HG3	1.87	0.56
8:GH:14:ARG:HA	8:GH:18:ARG:NH1	2.20	0.56
9:GI:11:LYS:HG3	9:GI:108:VAL:HG22	1.87	0.56
1:GA:968:A:H5''	9:GI:128:ARG:HH21	1.71	0.56
16:GP:2:VAL:HG23	16:GP:22:THR:O	2.06	0.56
51:H5:13:ARG:NH1	51:H5:22:VAL:HG22	2.20	0.56
22:HB:2329:C:C5'	51:H5:42:ARG:CG	2.83	0.56
22:HB:1247:U:H3'	40:HT:11:LYS:HE2	1.87	0.56
22:HB:1336:G:P	40:HT:103:LEU:HD23	2.45	0.56
22:HB:13:A:H61	22:HB:535:U:H2'	1.71	0.56
22:HB:1788:C:H4'	24:HD:254:THR:O	2.05	0.56
22:HB:1877:C:H2'	22:HB:1878:C:C6	2.41	0.56
22:HB:2015:G:N3	22:HB:2551:A:H2	2.04	0.56
22:HB:642:A:C2	22:HB:2393:G:N2	2.73	0.56
22:HB:585:U:H4'	22:HB:2481:G:N7	2.20	0.56
22:HB:404:A:H1'	22:HB:423:G:OP1	2.06	0.56
22:HB:546:A:H2'	22:HB:547:U:C5	2.40	0.56
22:HB:94:C:O2'	45:HY:42:ARG:N	2.39	0.56
26:HF:19:LEU:HD11	26:HF:108:ILE:HB	1.88	0.56
28:HH:33:LEU:HD11	28:HH:74:ASN:HD22	1.71	0.56
29:HI:30:ILE:N	29:HI:31:PRO:HD3	2.20	0.56
32:HL:127:VAL:HA	32:HL:130:ALA:HB2	1.88	0.56
32:HL:11:ALA:HB2	32:HL:19:ILE:HG21	1.88	0.56
22:HB:1338:G:N2	40:HT:106:LEU:HB3	2.19	0.56
41:HU:40:ASP:HA	41:HU:43:GLN:HG3	1.87	0.56
42:HV:59:LYS:CB	42:HV:65:PRO:HA	2.35	0.56
43:HW:94:VAL:HG12	43:HW:96:VAL:HG23	1.88	0.56
45:HY:3:PRO:HG2	45:HY:5:GLU:HB2	1.87	0.56
1:IA:1123:A:H1'	10:IJ:38:ILE:CA	2.34	0.56
1:IA:1171:G:H2'	1:IA:1172:C:C5	2.41	0.56
1:IA:1303:C:H2'	1:IA:1304:G:O4'	2.05	0.56
1:IA:392:G:O5'	16:IP:13:HIS:N	2.37	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:IB:23:ARG:HD3	2:IB:24:TRP:H	1.71	0.56
2:IB:74:LYS:HD3	2:IB:165:VAL:HG11	1.88	0.56
1:IA:1057:G:C4'	3:IC:196:LEU:HD22	2.28	0.56
3:IC:23:TYR:CZ	10:IJ:93:GLY:HA2	2.40	0.56
7:IG:101:LEU:HA	7:IG:104:LEU:HG	1.87	0.56
8:IH:10:LEU:O	8:IH:14:ARG:HB2	2.06	0.56
13:IM:97:PRO:CD	13:IM:110:ARG:HD3	2.34	0.56
14:IN:22:THR:O	14:IN:23:ARG:HB2	2.06	0.56
1:IA:247:G:O4'	17:IQ:99:SER:OG	2.24	0.56
22:JB:1073:G:O2'	30:JJ:133:SER:HB2	2.06	0.56
22:JB:2074:U:H4'	29:JI:24:TYR:OH	2.05	0.56
22:JB:2258:G:N3	22:JB:2306:A:H1'	2.20	0.56
22:JB:585:U:H4'	22:JB:2481:G:N7	2.20	0.56
22:JB:2486:C:H5''	22:JB:2552:C:C4	2.35	0.56
22:JB:2525:U:O2'	22:JB:2545:A:H1'	2.06	0.56
22:JB:2613:A:O2'	25:JE:77:ILE:CD1	2.54	0.56
22:JB:2662:C:N4	22:JB:2707:G:O2'	2.39	0.56
22:JB:642:A:C6	22:JB:2394:G:N2	2.63	0.56
22:JB:704:G:H4'	24:JD:44:ASN:HB3	1.87	0.56
22:JB:705:C:H5''	24:JD:43:ARG:CZ	2.35	0.56
22:JB:738:G:H2'	22:JB:739:G:O4'	2.05	0.56
24:JD:148:VAL:HB	24:JD:151:LYS:HB3	1.88	0.56
26:JF:176:ASN:O	26:JF:180:ILE:HG23	2.06	0.56
26:JF:168:SER:HB3	26:JF:183:HIS:HE2	1.71	0.56
34:JN:77:LYS:HB2	34:JN:92:GLU:CD	2.26	0.56
22:JB:2811:G:P	37:JQ:6:LYS:CA	2.85	0.56
22:JB:1996:A:C4'	40:JT:117:ILE:CA	2.81	0.56
42:JV:51:VAL:HG11	42:JV:74:LEU:HD22	1.87	0.56
22:JB:869:C:H5'	44:JX:57:HIS:HB3	0.57	0.56
22:JB:59:G:C4'	45:JY:44:ARG:HH11	1.84	0.56
1:AA:1305:G:N2	1:AA:1331:G:H2'	2.20	0.56
1:AA:1348:U:O3'	9:AI:120:ARG:HB2	2.06	0.56
1:AA:309:G:H1'	1:AA:608:A:H61	1.70	0.56
1:AA:877:C:C2	8:AH:3:THR:HB	2.23	0.56
2:AB:149:LEU:HG	2:AB:152:PHE:HB3	1.87	0.56
2:AB:43:ASP:HB3	2:AB:46:LYS:HB2	1.88	0.56
2:AB:77:ALA:HA	2:AB:80:ILE:HD12	1.88	0.56
6:AF:49:ALA:HB1	18:AR:80:PRO:CD	2.29	0.56
1:AA:1092:A:H5''	7:AG:4:ARG:HD3	0.57	0.56
8:AH:133:LEU:HD23	8:AH:134:ILE:N	2.20	0.56
1:AA:1230:C:N3	13:AM:125:ARG:HD3	2.15	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:AR:48:GLY:HA3	18:AR:82:THR:HA	1.87	0.56
20:AT:26:ASN:HB3	20:AT:30:LYS:NZ	2.21	0.56
23:BA:36:A:H4'	23:BA:37:C:C5	2.35	0.56
23:BA:92:G:H2'	34:BN:22:ALA:CA	2.35	0.56
22:BB:1103:C:H42	22:BB:1111:C:N4	2.03	0.56
22:BB:950:G:N2	22:BB:1205:G:H4'	2.19	0.56
22:BB:1249:G:H2'	22:BB:1250:A:H8	1.70	0.56
22:BB:1378:A:H5'	47:B1:40:HIS:NE2	2.19	0.56
22:BB:1438:G:H2'	22:BB:1439:G:O4'	2.06	0.56
22:BB:173:A:H2'	22:BB:173:A:N3	2.21	0.56
22:BB:1887:G:N7	22:BB:1888:C:C5	2.74	0.56
22:BB:2611:A:H4'	22:BB:2786:G:H21	1.71	0.56
22:BB:2782:G:H3'	22:BB:2783:U:C5'	2.34	0.56
22:BB:338:G:O3'	42:BV:9:HIS:HB3	2.04	0.56
22:BB:404:A:H1'	22:BB:423:G:OP1	2.06	0.56
22:BB:540:G:C4	22:BB:2018:G:H4'	2.40	0.56
22:BB:696:U:H2'	22:BB:697:G:C8	2.41	0.56
22:BB:8:A:H5''	31:BK:39:GLN:NE2	2.20	0.56
22:BB:1817:U:H5'	24:BD:224:SER:H	1.59	0.56
27:BG:104:ILE:HG21	27:BG:174:GLY:HA3	1.88	0.56
28:BH:160:LYS:H	28:BH:160:LYS:CD	2.19	0.56
25:BE:8:LYS:HB3	37:BQ:3:THR:CG2	2.36	0.56
22:BB:19:C:OP1	38:BR:29:SER:HB2	2.05	0.56
22:BB:24:G:C2'	40:BT:98:ASP:HB3	2.35	0.56
42:BV:96:LYS:HE2	42:BV:106:VAL:HG21	1.88	0.56
1:CA:1239:A:H1'	1:CA:1241:G:C2	2.40	0.56
1:CA:1303:C:H2'	1:CA:1304:G:O4'	2.05	0.56
2:CB:55:PHE:HA	2:CB:58:ILE:HD12	1.87	0.56
2:CB:77:ALA:HA	2:CB:80:ILE:HD12	1.88	0.56
1:CA:1256:A:N6	3:CC:26:LYS:CD	2.68	0.56
3:CC:27:LYS:O	3:CC:30:ARG:HG2	2.06	0.56
4:CD:196:LEU:HD23	4:CD:197:PRO:CD	2.33	0.56
6:CF:20:ALA:HB1	6:CF:23:LYS:HD3	1.87	0.56
9:CI:49:PRO:CG	9:CI:81:ILE:HD13	2.32	0.56
1:CA:688:G:OP1	11:CK:48:ILE:HA	2.06	0.56
1:CA:673:G:C4'	18:CR:75:ILE:HG12	2.34	0.56
19:CS:12:ASP:N	19:CS:38:SER:HB3	2.15	0.56
23:DA:77:G:N2	43:DW:22:VAL:HG22	2.19	0.56
22:DB:1043:A:C4'	52:D6:23:VAL:CB	2.71	0.56
22:DB:1438:G:H2'	22:DB:1439:G:O4'	2.06	0.56
22:DB:1394:G:N3	22:DB:1588:A:C5	2.74	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:DB:1957:C:H2'	22:DB:1958:G:O4'	2.06	0.56
22:DB:2035:G:H5'	25:DE:141:ILE:C	2.26	0.56
22:DB:2653:A:C2'	32:DL:41:ASN:CG	2.74	0.56
22:DB:2665:G:H2'	22:DB:2666:U:O4'	2.03	0.56
22:DB:2713:A:O3'	22:DB:2714:A:C5'	2.52	0.56
22:DB:2797:G:H2'	22:DB:2798:A:H5''	1.88	0.56
22:DB:404:A:H1'	22:DB:423:G:OP1	2.06	0.56
22:DB:598:U:H2'	22:DB:599:A:H8	1.69	0.56
22:DB:878:C:N4	22:DB:921:A:H62	2.03	0.56
22:DB:2659:C:O4'	25:DE:187:ALA:C	2.45	0.56
22:DB:2766:U:C2	25:DE:61:LYS:O	2.23	0.56
26:DF:176:ASN:O	26:DF:180:ILE:HG23	2.06	0.56
22:DB:886:A:C4'	34:DN:66:TYR:CE2	2.89	0.56
23:DA:10:U:C4'	36:DP:28:ARG:NH1	2.68	0.56
36:DP:30:SER:HB3	36:DP:32:TYR:CE2	2.40	0.56
1:EA:1239:A:H1'	1:EA:1241:G:C2	2.40	0.56
1:EA:1273:G:C2	1:IA:1264:C:C4'	2.87	0.56
1:EA:577:G:H2'	1:EA:578:C:C6	2.41	0.56
1:EA:572:A:H5''	1:EA:917:G:H5'	1.88	0.56
2:EB:118:LEU:HD22	2:EB:142:LEU:HD21	1.87	0.56
2:EB:134:GLU:O	2:EB:138:LEU:HG	2.06	0.56
3:EC:12:LEU:HA	3:EC:16:ARG:O	2.06	0.56
13:EM:46:LYS:HD2	13:EM:46:LYS:N	2.20	0.56
13:EM:48:LEU:HB3	13:EM:52:GLU:HB2	1.87	0.56
16:EP:2:VAL:HG23	16:EP:22:THR:O	2.06	0.56
18:ER:48:GLY:HA3	18:ER:82:THR:HA	1.88	0.56
33:FM:64:GLY:O	51:F5:11:LYS:CB	2.53	0.56
23:FA:45:C:H2'	23:FA:46:G:H5'	1.88	0.56
22:FB:1001:A:C5'	46:FZ:27:LYS:HZ1	2.12	0.56
22:FB:1047:G:O2'	22:FB:1048:U:H5'	2.06	0.56
22:FB:1438:G:H2'	22:FB:1439:G:O4'	2.06	0.56
22:FB:1583:A:H4'	22:FB:1584:G:N1	2.20	0.56
22:FB:158:A:N3	22:FB:158:A:H2'	2.20	0.56
22:FB:1673:C:C3'	25:FE:136:ARG:CB	2.84	0.56
22:FB:2307:A:H2'	22:FB:2308:A:C8	2.41	0.56
22:FB:2541:U:H3	22:FB:2545:A:H62	1.54	0.56
22:FB:2745:A:C6	22:FB:2746:G:C4	2.94	0.56
22:FB:590:C:H5''	38:FR:32:TYR:HD2	1.67	0.56
22:FB:642:A:N6	22:FB:2394:G:N2	2.52	0.56
22:FB:870:C:H2'	22:FB:871:U:C6	2.41	0.56
27:FG:2:GLN:O	27:FG:5:LYS:HB3	2.06	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:FH:7:GLN:HB3	28:FH:8:PRO:HD3	1.88	0.56
22:FB:2541:U:P	32:FL:52:VAL:HG21	2.45	0.56
35:FO:70:ILE:HB	35:FO:75:VAL:HG11	1.88	0.56
36:FP:42:ILE:HG22	36:FP:43:ILE:N	2.21	0.56
22:FB:1198:C:OP1	46:FZ:26:ARG:NH1	2.29	0.56
1:GA:1149:C:C5'	9:GI:9:ARG:HH22	2.19	0.56
1:GA:1239:A:H1'	1:GA:1241:G:C2	2.39	0.56
1:GA:277:C:P	17:GQ:41:LYS:HE3	2.46	0.56
1:GA:283:C:H2'	1:GA:284:G:C8	2.41	0.56
3:GC:162:GLN:CD	3:GC:163:ALA:H	2.08	0.56
10:GJ:39:PRO:HA	10:GJ:70:ARG:NH1	2.21	0.56
10:GJ:49:VAL:C	14:GN:45:ARG:CD	2.74	0.56
10:GJ:55:LYS:HB2	10:GJ:55:LYS:NZ	2.21	0.56
1:GA:191:G:O3'	20:GT:103:GLY:HA2	2.06	0.56
1:GA:262:A:C5'	20:GT:74:LYS:CD	2.80	0.56
23:HA:45:C:C2'	23:HA:46:G:H5'	2.36	0.56
22:HB:1010:U:C2	22:HB:1168:G:N2	2.73	0.56
22:HB:1416:A:H5'	22:HB:1485:U:H1'	1.88	0.56
22:HB:1436:G:H2'	22:HB:1508:G:H21	1.70	0.56
22:HB:1488:G:N2	22:HB:1535:C:O2	2.33	0.56
22:HB:1652:G:N2	22:HB:1752:U:C1'	2.69	0.56
22:HB:922:A:N3	22:HB:2243:C:O2'	2.38	0.56
22:HB:2273:C:H2'	22:HB:2274:C:C6	2.40	0.56
22:HB:2398:U:H5''	51:H5:33:ASN:CA	2.36	0.56
22:HB:2015:G:OP2	22:HB:2433:G:O2'	2.24	0.56
22:HB:2533:U:H2'	22:HB:2534:U:C5	2.41	0.56
22:HB:2708:U:H2'	22:HB:2709:C:C6	2.40	0.56
22:HB:600:G:C2	51:H5:2:PRO:CD	2.80	0.56
22:HB:738:G:H2'	22:HB:739:G:O4'	2.05	0.56
22:HB:870:C:H2'	22:HB:871:U:C6	2.41	0.56
24:HD:82:ILE:HG13	24:HD:93:ALA:HA	1.88	0.56
25:HE:105:THR:H	25:HE:196:VAL:HG13	1.70	0.56
40:HT:72:LEU:HA	40:HT:126:ILE:HD13	1.87	0.56
40:HT:48:LYS:HE2	40:HT:48:LYS:HA	1.88	0.56
41:HU:6:ILE:HG13	41:HU:37:GLU:HB3	1.88	0.56
1:IA:1148:U:OP1	9:II:14:VAL:HG13	1.89	0.56
1:IA:1240:U:OP1	7:IG:115:ARG:CB	2.48	0.56
1:IA:1392:G:H4'	1:IA:1530:G:H4'	1.87	0.56
1:IA:1515:C:H1'	1:IA:1521:G:N2	2.21	0.56
1:IA:279:A:H5''	1:IA:280:C:H2'	1.86	0.56
1:IA:453:A:H2'	1:IA:454:C:C6	2.41	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:IA:629:G:H21	1:IA:631:G:N2	2.03	0.56
1:IA:958:A:N3	19:IS:55:LYS:HB3	2.21	0.56
1:IA:970:C:OP2	9:II:128:ARG:NH1	2.36	0.56
2:IB:232:PRO:O	2:IB:234:PRO:HD3	2.05	0.56
1:IA:1100:C:C2'	2:IB:98:LEU:HD23	2.30	0.56
4:ID:61:LYS:NZ	4:ID:65:ARG:HD3	2.20	0.56
13:IM:6:GLY:HA2	27:JG:110:ARG:NH2	2.12	0.56
1:IA:720:C:C1'	18:IR:50:ILE:HD12	2.34	0.56
18:IR:48:GLY:HA3	18:IR:82:THR:HA	1.88	0.56
22:JB:1877:C:H2'	22:JB:1878:C:C6	2.41	0.56
22:JB:2283:G:C1'	27:JG:129:ASN:O	2.52	0.56
22:JB:2708:U:H2'	22:JB:2709:C:C6	2.40	0.56
22:JB:546:A:H2'	22:JB:547:U:C5	2.40	0.56
22:JB:696:U:H2'	22:JB:697:G:C8	2.41	0.56
22:JB:870:C:H2'	22:JB:871:U:C6	2.41	0.56
24:JD:174:ILE:HD13	24:JD:175:VAL:HG23	1.88	0.56
25:JE:105:THR:H	25:JE:196:VAL:HG13	1.70	0.56
26:JF:19:LEU:HD11	26:JF:108:ILE:HB	1.88	0.56
27:JG:100:LEU:HB3	27:JG:104:ILE:HG12	1.87	0.56
27:JG:136:LEU:HB2	27:JG:150:ARG:NH2	2.21	0.56
28:JH:160:LYS:CD	28:JH:160:LYS:H	2.19	0.56
29:JI:13:LYS:HG2	29:JI:13:LYS:O	2.06	0.56
33:JM:81:GLN:O	33:JM:118:VAL:HG11	2.05	0.56
22:JB:1470:G:N3	35:JO:60:LEU:CD1	2.68	0.56
36:JP:8:ARG:NH1	36:JP:9:ARG:HE	2.04	0.56
36:JP:9:ARG:HH12	36:JP:12:ARG:N	2.03	0.56
37:JQ:100:ARG:NH1	37:JQ:120:ASP:HB3	2.19	0.56
40:JT:50:VAL:N	40:JT:53:ALA:HB3	2.18	0.56
44:JX:46:LYS:HD3	44:JX:67:VAL:HG11	1.86	0.56
45:JY:25:LEU:HD22	45:JY:28:LEU:HD12	1.88	0.56
1:AA:1171:G:H2'	1:AA:1172:C:C5	2.41	0.56
1:AA:1363:A:N3	1:AA:1363:A:H2'	2.20	0.56
1:AA:815:A:C6	1:AA:1529:G:O2'	2.51	0.56
1:AA:1530:G:O2'	1:AA:1531:A:H5'	2.04	0.56
1:AA:26:A:C6	4:AD:209:ARG:NH2	2.74	0.56
1:AA:331:G:N2	20:AT:8:ARG:CA	2.69	0.56
1:AA:380:G:H22	1:AA:383:A:N6	2.04	0.56
1:AA:657:G:O2'	1:AA:658:G:H5'	2.06	0.56
1:AA:952:U:N3	13:AM:125:ARG:HB3	2.20	0.56
1:AA:975:A:C5	14:AN:34:TYR:CZ	2.94	0.56
1:AA:621:A:OP1	4:AD:139:ARG:NH1	2.38	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:AG:50:ILE:HG21	7:AG:58:PRO:HA	1.88	0.56
1:AA:1127:G:C1'	9:AI:16:ARG:HH22	2.18	0.56
9:AI:17:VAL:HG13	9:AI:62:TYR:O	2.06	0.56
9:AI:31:GLN:HB3	9:AI:36:TYR:HB2	1.88	0.56
1:AA:1059:C:C4'	14:AN:45:ARG:HH21	1.89	0.56
1:AA:275:G:O4'	17:AQ:15:MET:CE	2.46	0.56
17:AQ:4:LYS:O	17:AQ:60:ILE:HA	2.05	0.56
22:BB:1044:U:O5'	52:B6:9:LYS:HE2	2.06	0.56
22:BB:1070:G:C2	30:BJ:126:THR:HG22	2.40	0.56
22:BB:1397:A:N9	22:BB:1418:C:C6	2.74	0.56
22:BB:1788:C:OP1	24:BD:254:THR:HG23	2.06	0.56
22:BB:2301:A:H2'	22:BB:2302:G:O4'	2.06	0.56
22:BB:2585:C:H2'	22:BB:2586:G:C8	2.41	0.56
22:BB:2619:G:H22	22:BB:2755:A:H1'	1.71	0.56
22:BB:2661:G:H1'	25:BE:11:MET:CE	2.33	0.56
22:BB:340:G:OP2	22:BB:488:A:N3	2.39	0.56
22:BB:63:A:C6	22:BB:89:A:C6	2.94	0.56
22:BB:1808:C:H5'	24:BD:63:ARG:HD2	1.88	0.56
26:BF:176:ASN:O	26:BF:180:ILE:HG23	2.06	0.56
28:BH:33:LEU:HD11	28:BH:74:ASN:HD22	1.71	0.56
28:BH:7:GLN:HB3	28:BH:8:PRO:HD3	1.88	0.56
22:BB:1071:U:C4	30:BJ:130:THR:HG23	2.37	0.56
22:BB:1108:U:O2	30:BJ:8:VAL:HG11	2.04	0.56
22:BB:648:A:N1	33:BM:109:LEU:HG	2.19	0.56
38:BR:18:LEU:O	38:BR:18:LEU:HD13	2.06	0.56
22:BB:1008:G:OP2	38:BR:93:LYS:HD3	2.05	0.56
43:BW:94:VAL:HG12	43:BW:96:VAL:HG23	1.87	0.56
1:CA:17:U:O2	1:CA:1079:G:N2	2.39	0.56
1:CA:1320:C:H4'	19:CS:73:GLU:HB3	1.88	0.56
1:CA:1347:G:H8	9:CI:107:ARG:C	2.09	0.56
1:CA:657:G:O2'	1:CA:658:G:H5'	2.06	0.56
2:CB:232:PRO:O	2:CB:234:PRO:HD3	2.06	0.56
2:CB:23:ARG:HD3	2:CB:24:TRP:H	1.71	0.56
4:CD:10:ARG:HA	4:CD:40:PRO:HG3	1.87	0.56
6:CF:48:LEU:HD22	18:CR:77:GLY:HA3	1.86	0.56
8:CH:133:LEU:HD23	8:CH:134:ILE:N	2.20	0.56
1:CA:953:G:O2'	13:CM:122:LYS:O	2.19	0.56
19:CS:16:LEU:O	19:CS:19:VAL:HG12	2.05	0.56
20:CT:26:ASN:HB3	20:CT:30:LYS:NZ	2.21	0.56
22:DB:409:G:H5''	47:D1:39:VAL:HG11	1.87	0.56
22:DB:2328:G:C4'	51:D5:42:ARG:HH11	2.18	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:DB:1014:G:H1'	22:DB:1021:A:C2	2.40	0.56
22:DB:950:G:N2	22:DB:1205:G:H4'	2.18	0.56
22:DB:1234:C:O3'	39:DS:68:LYS:HG2	2.04	0.56
22:DB:1704:G:H2'	22:DB:1718:A:H61	1.71	0.56
22:DB:2585:C:H2'	22:DB:2586:G:C8	2.41	0.56
22:DB:2603:G:H1'	48:D2:22:HIS:CE1	2.40	0.56
22:DB:2713:A:H3'	22:DB:2714:A:P	2.45	0.56
22:DB:458:G:O3'	38:DR:5:LYS:NZ	2.39	0.56
22:DB:677:G:O2'	22:DB:951:G:OP1	2.20	0.56
22:DB:1809:G:H5''	24:DD:157:ARG:NH1	2.11	0.56
24:DD:174:ILE:HD13	24:DD:175:VAL:HG23	1.88	0.56
24:DD:246:PRO:CG	24:DD:247:VAL:H	2.16	0.56
27:DG:17:MET:HG3	27:DG:21:GLY:HA2	1.86	0.56
27:DG:2:GLN:O	27:DG:5:LYS:HB3	2.06	0.56
22:DB:2738:A:C2'	28:DH:64:LEU:HD11	2.26	0.56
31:DK:64:GLY:HA2	31:DK:70:PHE:CE2	2.41	0.56
34:DN:52:ARG:HA	34:DN:52:ARG:CZ	2.36	0.56
37:DQ:101:ARG:HD3	37:DQ:104:LEU:HD11	1.87	0.56
1:EA:1262:C:H2'	1:EA:1263:C:C6	2.40	0.56
1:EA:1360:A:OP2	14:EN:21:TYR:HB2	2.05	0.56
1:EA:194:C:O2	20:ET:68:LYS:CD	2.52	0.56
1:EA:657:G:O2'	1:EA:658:G:H5'	2.06	0.56
1:EA:742:G:H5'	15:EO:58:MET:CE	2.35	0.56
1:EA:866:C:C5	1:EA:867:G:H1'	2.41	0.56
1:EA:8:A:H5''	5:EE:121:LYS:HD3	1.88	0.56
1:EA:922:G:C2	1:EA:1396:A:N6	2.73	0.56
1:EA:966:G:H5'	9:EI:127:LYS:HE2	1.88	0.56
3:EC:162:GLN:CD	3:EC:163:ALA:H	2.08	0.56
3:EC:37:GLN:HA	3:EC:40:ARG:HB2	1.86	0.56
1:EA:642:A:H1'	8:EH:113:SER:HA	1.87	0.56
49:F3:26:LYS:HZ1	51:F5:33:ASN:HD21	1.51	0.56
22:FB:125:A:C6	50:F4:18:PHE:CD1	2.92	0.56
22:FB:1351:G:O2'	41:FU:15:LYS:HB3	2.04	0.56
22:FB:1359:G:O2'	22:FB:1360:G:H5'	2.06	0.56
22:FB:2301:A:H2'	22:FB:2302:G:O4'	2.06	0.56
22:FB:2336:G:HO2'	22:FB:2338:C:H5	1.53	0.56
22:FB:25:U:H5'	40:FT:100:GLY:C	2.25	0.56
22:FB:2623:A:O2'	22:FB:2624:G:C4	2.53	0.56
22:FB:2632:U:OP2	22:FB:2633:A:H3'	2.06	0.56
22:FB:404:A:H1'	22:FB:423:G:OP1	2.06	0.56
22:FB:696:U:H2'	22:FB:697:G:C8	2.41	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:FB:719:A:N7	22:FB:738:G:C2	2.73	0.56
22:FB:980:G:OP1	46:FZ:14:GLY:CA	2.54	0.56
22:FB:1583:A:H8	24:FD:85:ASP:HA	1.70	0.56
24:FD:82:ILE:HG13	24:FD:93:ALA:HA	1.88	0.56
22:FB:229:G:OP1	33:FM:48:PHE:CE2	2.59	0.56
23:FA:49:C:C4'	36:FP:95:LYS:CG	2.40	0.56
37:FQ:18:GLN:HG3	37:FQ:21:THR:HG21	1.87	0.56
22:FB:1992:G:H5''	40:FT:63:SER:H	1.68	0.56
22:FB:63:A:C5	41:FU:64:ARG:HD2	2.41	0.56
42:FV:59:LYS:CB	42:FV:65:PRO:HA	2.35	0.56
44:FX:74:LYS:HZ2	44:FX:74:LYS:N	2.02	0.56
1:GA:1303:C:H2'	1:GA:1304:G:O4'	2.05	0.56
20:AT:100:ILE:HG22	1:GA:179:A:C1'	2.35	0.56
1:GA:314:C:O2'	1:GA:315:A:H5'	2.06	0.56
1:GA:449:C:H1'	16:GP:42:ARG:HH22	1.66	0.56
5:GE:18:ARG:HH12	5:GE:27:ARG:HG3	1.71	0.56
1:GA:864:A:P	5:GE:86:ALA:HA	2.45	0.56
8:GH:133:LEU:HD23	8:GH:134:ILE:N	2.21	0.56
1:GA:966:G:O2'	9:GI:128:ARG:C	2.45	0.56
14:GN:47:LEU:HA	14:GN:50:LYS:HB2	1.87	0.56
12:GL:11:VAL:N	17:GQ:32:TYR:CG	2.73	0.56
1:GA:61:G:C8	20:GT:11:SER:HB3	2.41	0.56
20:GT:39:LYS:HD2	20:GT:43:LEU:HD11	1.88	0.56
51:H5:26:LYS:HE3	51:H5:26:LYS:HA	1.88	0.56
53:H7:66:VAL:HG12	53:H7:68:PRO:HD3	1.87	0.56
22:HB:950:G:N2	22:HB:1205:G:H4'	2.18	0.56
22:HB:1401:G:C2	22:HB:1413:U:C2	2.94	0.56
22:HB:1438:G:H2'	22:HB:1439:G:O4'	2.06	0.56
22:HB:1456:C:H5'	22:HB:1644:G:H5''	1.87	0.56
22:HB:158:A:H2'	22:HB:158:A:N3	2.20	0.56
22:HB:323:G:H5'	22:HB:342:G:O6	2.05	0.56
22:HB:461:A:P	26:HF:79:GLY:HA2	2.45	0.56
22:HB:687:G:H5'	26:HF:69:HIS:O	2.06	0.56
22:HB:878:C:N4	22:HB:921:A:H62	2.02	0.56
27:HG:136:LEU:HB2	27:HG:150:ARG:NH2	2.21	0.56
22:HB:2747:C:O2'	31:HK:119:LEU:HA	2.06	0.56
32:HL:126:ILE:HG22	32:HL:127:VAL:HG23	1.88	0.56
22:HB:1040:A:O2'	34:HN:123:GLY:C	2.27	0.56
35:HO:70:ILE:HB	35:HO:75:VAL:HG11	1.88	0.56
22:HB:2343:C:C4'	44:HX:40:GLN:CB	2.70	0.56
1:IA:1250:A:H2'	1:IA:1251:A:C8	2.40	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:IA:657:G:O2'	1:IA:658:G:H5'	2.06	0.56
1:IA:8:A:H2'	4:ID:209:ARG:CZ	2.35	0.56
2:IB:136:VAL:HA	2:IB:139:LYS:HB2	1.88	0.56
9:II:14:VAL:HG12	9:II:15:ALA:H	1.70	0.56
10:IJ:39:PRO:HA	10:IJ:70:ARG:NH1	2.21	0.56
11:IK:87:THR:HG23	11:IK:91:ARG:HH22	1.71	0.56
11:IK:87:THR:HA	11:IK:91:ARG:NH2	2.21	0.56
17:IQ:28:PRO:HB3	17:IQ:35:VAL:HA	1.86	0.56
17:IQ:21:VAL:HG23	17:IQ:43:LEU:HA	1.88	0.56
17:IQ:43:LEU:HB3	17:IQ:69:LYS:HZ1	1.70	0.56
1:IA:332:G:N3	20:IT:16:HIS:NE2	2.47	0.56
20:IT:88:VAL:HG11	20:IT:92:LEU:HD12	1.87	0.56
22:JB:1378:A:OP2	47:J1:3:LYS:NZ	2.39	0.56
22:JB:2397:A:C5'	51:J5:41:ILE:HD11	2.35	0.56
22:JB:1166:A:H3'	22:JB:1168:G:N7	2.21	0.56
22:JB:950:G:N2	22:JB:1205:G:H4'	2.18	0.56
1:IA:1418:A:C1'	22:JB:1942:G:H4'	2.36	0.56
22:JB:2637:C:H41	28:JH:181:GLY:HA2	1.68	0.56
22:JB:2741:G:H1'	28:JH:143:GLN:HE21	1.66	0.56
22:JB:3170:A:H5'	53:J7:127:ALA:HB1	1.88	0.56
22:JB:323:G:H5'	22:JB:342:G:O6	2.05	0.56
24:JD:242:ALA:HA	24:JD:244:ARG:HH21	1.70	0.56
24:JD:182:LEU:HB3	24:JD:269:PHE:HB3	1.88	0.56
28:JH:125:VAL:O	28:JH:126:PRO:C	2.44	0.56
30:JJ:112:MET:H	30:JJ:113:PRO:HD2	1.71	0.56
31:JK:94:LYS:HZ3	31:JK:94:LYS:N	2.04	0.56
22:JB:2542:U:H4'	32:JL:40:GLY:O	2.05	0.56
22:JB:828:C:OP1	39:JS:84:THR:C	2.44	0.56
40:JT:36:ARG:CZ	48:J2:16:ARG:CG	2.84	0.56
40:JT:60:ILE:HB	48:J2:25:LEU:HD21	1.88	0.56
41:JU:53:ILE:HA	41:JU:80:VAL:HA	1.88	0.56
22:JB:1000:G:C5	46:JZ:10:ILE:CD1	2.88	0.56
1:AA:1014:A:N7	19:AS:34:TRP:CE3	2.72	0.56
1:AA:1060:C:C5'	10:AJ:51:ARG:C	2.74	0.56
1:AA:1303:C:H2'	1:AA:1304:G:O4'	2.05	0.56
1:AA:948:C:H5'	1:AA:1306:A:O2'	2.06	0.56
1:AA:572:A:H5''	1:AA:917:G:H5'	1.88	0.56
1:AA:625:G:OP1	16:AP:10:GLY:CA	2.54	0.56
1:AA:1077:G:C2	5:AE:45:PHE:CE2	2.80	0.56
11:AK:63:LEU:HG	11:AK:66:LEU:HD12	1.88	0.56
11:AK:87:THR:HA	11:AK:91:ARG:NH2	2.21	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1317:C:P	14:AN:18:VAL:HG11	2.46	0.56
19:AS:16:LEU:O	19:AS:19:VAL:HG12	2.06	0.56
51:B5:13:ARG:NH1	51:B5:22:VAL:HG22	2.20	0.56
22:BB:1398:G:N3	22:BB:1416:A:C2	2.73	0.56
22:BB:1704:G:H2'	22:BB:1718:A:H61	1.71	0.56
22:BB:1770:U:OP1	22:BB:1771:A:H4'	2.06	0.56
22:BB:1877:C:H2'	22:BB:1878:C:C6	2.41	0.56
22:BB:2474:G:H4'	34:BN:83:ARG:CB	2.36	0.56
22:BB:2721:A:H61	22:BB:2742:G:H22	1.53	0.56
22:BB:3873:G:H2'	22:BB:3874:C:C2	2.40	0.56
22:BB:396:U:H3'	22:BB:398:C:OP2	2.07	0.56
22:BB:686:C:H2'	26:BF:68:ARG:NH1	2.21	0.56
22:BB:870:C:H2'	22:BB:871:U:C6	2.41	0.56
22:BB:887:G:N2	43:BW:165:GLU:HG3	2.21	0.56
22:BB:1834:G:C1'	24:BD:244:ARG:HG2	2.27	0.56
22:BB:1040:A:HO2'	34:BN:123:GLY:C	2.09	0.56
37:BQ:101:ARG:HD3	37:BQ:104:LEU:HD11	1.87	0.56
40:BT:48:LYS:HA	40:BT:48:LYS:HE2	1.88	0.56
22:BB:2249:U:H5''	44:BX:18:PRO:HB2	1.87	0.56
1:CA:1075:C:H4'	2:CB:103:THR:HG21	1.88	0.56
1:CA:1262:C:H2'	1:CA:1263:C:C6	2.40	0.56
1:CA:948:C:H5'	1:CA:1306:A:O2'	2.06	0.56
1:CA:254:G:O3'	17:CQ:45:HIS:HE1	1.89	0.56
1:CA:278:G:OP2	17:CQ:41:LYS:HE3	2.06	0.56
1:CA:283:C:H2'	1:CA:284:G:C8	2.41	0.56
1:CA:332:G:H4'	20:CT:13:LEU:HD12	1.88	0.56
1:CA:377:G:H5'	16:CP:5:ARG:HH12	1.71	0.56
1:CA:866:C:C5	1:CA:867:G:H1'	2.41	0.56
1:CA:954:G:N9	13:CM:123:ALA:CB	2.69	0.56
1:CA:1081:G:C8	5:CE:18:ARG:NE	2.72	0.56
8:CH:10:LEU:O	8:CH:14:ARG:HB2	2.05	0.56
10:CJ:11:PHE:HE1	14:CN:54:PRO:O	1.89	0.56
14:CN:27:CYS:HG	14:CN:42:ILE:HD12	1.69	0.56
22:DB:1103:C:H42	22:DB:1111:C:N4	2.04	0.56
22:DB:829:C:H5'	22:DB:1176:U:HO2'	1.71	0.56
22:DB:1353:A:N6	41:DU:59:PRO:CG	2.66	0.56
22:DB:1583:A:H4'	22:DB:1584:G:N1	2.20	0.56
22:DB:173:A:N3	22:DB:173:A:H2'	2.21	0.56
22:DB:2307:A:H2'	22:DB:2308:A:C8	2.41	0.56
22:DB:2619:G:H22	22:DB:2755:A:H1'	1.71	0.56
22:DB:2680:U:H3'	22:DB:2681:A:H5''	1.88	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:DB:2745:A:C5	22:DB:2746:G:C4	2.93	0.56
22:DB:29:U:C5'	38:DR:7:GLY:CA	2.79	0.56
22:DB:239:A:H1'	22:DB:443:A:O2'	2.06	0.56
22:DB:491:A:H3'	22:DB:492:G:H5''	1.88	0.56
22:DB:611:C:O2'	22:DB:614:G:H5''	2.06	0.56
22:DB:732:G:H2'	22:DB:733:G:C8	2.40	0.56
22:DB:870:C:H2'	22:DB:871:U:C6	2.41	0.56
22:DB:923:A:C1'	22:DB:2243:C:H4'	2.34	0.56
24:DD:106:LEU:HG	24:DD:144:ALA:HB2	1.88	0.56
25:DE:39:ALA:O	25:DE:40:GLN:HB2	2.06	0.56
26:DF:16:GLU:HG3	26:DF:17:LEU:N	2.17	0.56
27:DG:104:ILE:HG21	27:DG:174:GLY:HA3	1.88	0.56
30:DJ:53:ILE:HA	30:DJ:72:PRO:HB3	1.88	0.56
36:DP:42:ILE:HG22	36:DP:43:ILE:N	2.21	0.56
37:DQ:55:ILE:HB	37:DQ:71:ILE:HG12	1.87	0.56
22:DB:568:G:H1'	38:DR:59:ARG:HH12	1.71	0.56
22:DB:1234:C:H5''	39:DS:68:LYS:HZ2	0.60	0.56
1:EA:996:A:H61	1:EA:1046:A:H1'	1.71	0.56
1:EA:1384:C:H2'	1:EA:1385:G:C8	2.39	0.56
1:EA:279:A:H5''	1:EA:280:C:H2'	1.87	0.56
2:EB:23:ARG:HD3	2:EB:24:TRP:H	1.71	0.56
2:EB:77:ALA:HA	2:EB:80:ILE:HD12	1.88	0.56
7:EG:101:LEU:HA	7:EG:104:LEU:HG	1.87	0.56
1:EA:1382:C:O3'	7:EG:79:ARG:NH2	2.39	0.56
10:EJ:39:PRO:HA	10:EJ:70:ARG:NH1	2.21	0.56
1:EA:667:G:N2	15:EO:42:HIS:CE1	2.66	0.56
1:EA:280:C:C6	17:EQ:95:TYR:OH	2.57	0.56
1:EA:1320:C:C1'	19:ES:73:GLU:N	2.59	0.56
23:FA:77:G:H1	23:FA:105:G:H1	1.54	0.56
22:FB:1014:G:H1'	22:FB:1021:A:C2	2.40	0.56
22:FB:1145:C:O2'	22:FB:1146:G:OP1	2.20	0.56
22:FB:1208:A:H2'	22:FB:1209:G:O4'	2.06	0.56
22:FB:1264:C:O3'	38:FR:36:PHE:HE1	1.67	0.56
22:FB:1377:G:H21	22:FB:1380:C:H5	1.53	0.56
22:FB:173:A:H2'	22:FB:173:A:N3	2.21	0.56
22:FB:1752:U:O3'	22:FB:1753:A:C5'	2.50	0.56
22:FB:1877:C:H2'	22:FB:1878:C:C6	2.41	0.56
1:EA:1406:U:O2'	22:FB:1902:A:H1'	2.06	0.56
1:EA:1517:G:O4'	22:FB:1903:C:OP1	2.23	0.56
22:FB:2186:G:N9	24:FD:149:PRO:HG2	2.20	0.56
22:FB:2680:U:H3'	22:FB:2681:A:H5''	1.88	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:FB:2797:G:H2'	22:FB:2798:A:H5''	1.88	0.56
22:FB:320:A:N1	42:FV:26:SER:OG	2.38	0.56
22:FB:361:G:H2'	22:FB:362:C:C5	2.41	0.56
22:FB:239:A:H1'	22:FB:443:A:O2'	2.06	0.56
22:FB:455:A:O2'	38:FR:2:PRO:CD	2.53	0.56
22:FB:529:U:OP1	40:FT:39:ARG:CG	2.54	0.56
40:FT:50:VAL:N	40:FT:53:ALA:HB3	2.18	0.56
41:FU:53:ILE:HA	41:FU:80:VAL:HA	1.88	0.56
45:FY:25:LEU:HD22	45:FY:28:LEU:HD12	1.88	0.56
1:GA:1250:A:H2'	1:GA:1251:A:C8	2.40	0.56
1:GA:1363:A:N3	1:GA:1363:A:H2'	2.20	0.56
1:GA:191:G:O3'	20:GT:103:GLY:CA	2.54	0.56
1:GA:380:G:H22	1:GA:383:A:N6	2.03	0.56
1:GA:412:A:N3	4:GD:30:LYS:C	2.60	0.56
1:GA:17:U:C4'	5:GE:16:THR:HB	2.32	0.56
12:GL:90:VAL:HG12	12:GL:92:ASP:H	1.70	0.56
1:GA:1320:C:OP1	19:GS:3:ARG:HB3	2.06	0.56
1:GA:106:C:H41	20:GT:14:LYS:HE2	1.63	0.56
22:HB:1019:U:C1'	38:HR:59:ARG:HH22	2.03	0.56
22:HB:1336:G:OP1	40:HT:119:LYS:HG2	2.05	0.56
22:HB:1486:A:C2	22:HB:1537:U:C2	2.94	0.56
22:HB:1583:A:H1'	24:HD:84:TYR:HE1	1.70	0.56
22:HB:1669:A:N6	22:HB:1670:G:H21	2.02	0.56
22:HB:1740:G:H2'	22:HB:1741:G:O4'	2.07	0.56
22:HB:173:A:O2'	22:HB:174:A:H5'	2.05	0.56
22:HB:1898:U:H2'	22:HB:1899:A:C8	2.41	0.56
22:HB:1979:C:C2'	22:HB:1980:A:H4'	2.35	0.56
22:HB:2619:G:H22	22:HB:2755:A:H1'	1.71	0.56
22:HB:2632:U:OP2	22:HB:2633:A:H3'	2.06	0.56
22:HB:2760:G:H1'	31:HK:149:LYS:CD	2.30	0.56
22:HB:3122:U:O2	53:H7:162:GLN:NE2	2.39	0.56
22:HB:490:A:H2'	22:HB:492:G:H5''	1.88	0.56
22:HB:603:C:C4	22:HB:604:U:N3	2.74	0.56
22:HB:677:G:H2'	22:HB:678:G:H8	1.62	0.56
22:HB:696:U:H2'	22:HB:697:G:C8	2.41	0.56
24:HD:106:LEU:HG	24:HD:144:ALA:HB2	1.87	0.56
24:HD:4:LYS:HE2	24:HD:14:ARG:HH22	1.69	0.56
24:HD:174:ILE:HD13	24:HD:175:VAL:HG23	1.88	0.56
25:HE:4:ILE:HG13	25:HE:197:VAL:HA	1.88	0.56
26:HF:176:ASN:ND2	26:HF:178:TYR:H	2.03	0.56
27:HG:17:MET:HG3	27:HG:21:GLY:HA2	1.86	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:HH:33:LEU:HG	28:HH:75:ALA:HB2	1.88	0.56
34:HN:98:VAL:CG2	34:HN:99:LYS:HG2	2.29	0.56
35:HO:108:VAL:HG22	35:HO:110:MET:SD	2.46	0.56
38:HR:50:ARG:HA	38:HR:50:ARG:HE	1.70	0.56
31:HK:67:ARG:HG3	38:HR:63:GLN:NE2	2.20	0.56
45:HY:48:ARG:HH11	45:HY:52:GLN:NE2	2.04	0.56
1:IA:996:A:H61	1:IA:1046:A:H1'	1.71	0.56
1:IA:1420:C:H42	1:IA:1480:G:H1	1.53	0.56
1:IA:376:G:O4'	16:IP:28:ARG:NH2	2.38	0.56
1:IA:827:U:H5'	8:IH:15:ASN:CB	2.36	0.56
2:IB:47:THR:HG22	2:IB:51:LEU:HD11	1.87	0.56
6:IF:20:ALA:HB1	6:IF:23:LYS:HD3	1.87	0.56
7:IG:126:ASP:HA	7:IG:131:LYS:HE3	1.88	0.56
8:IH:133:LEU:HD23	8:IH:134:ILE:N	2.21	0.56
13:IM:87:TYR:CD1	19:IS:76:PRO:HG3	2.38	0.56
20:IT:39:LYS:HD2	20:IT:43:LEU:HD11	1.88	0.56
49:J3:38:LYS:NZ	49:J3:38:LYS:HA	2.21	0.56
23:JA:54:U:O2'	23:JA:55:C:H5'	2.06	0.56
22:JB:1167:A:O2'	22:JB:1168:G:P	2.61	0.56
22:JB:1954:A:H62	24:JD:240:THR:C	2.10	0.56
22:JB:1979:C:C2'	22:JB:1980:A:H4'	2.35	0.56
22:JB:2397:A:H5''	51:J5:41:ILE:HD11	1.86	0.56
22:JB:2487:G:H4'	22:JB:2534:U:C5'	2.36	0.56
22:JB:2632:U:OP2	22:JB:2633:A:H3'	2.06	0.56
22:JB:2680:U:H3'	22:JB:2681:A:H5''	1.88	0.56
22:JB:45:C:H2'	22:JB:46:C:C6	2.41	0.56
22:JB:490:A:H2'	22:JB:492:G:H5''	1.88	0.56
22:JB:593:C:H5''	38:JR:3:ARG:HH22	1.70	0.56
26:JF:176:ASN:ND2	26:JF:178:TYR:H	2.04	0.56
22:JB:608:G:N3	26:JF:29:GLU:OE2	2.39	0.56
22:JB:593:C:C2	26:JF:75:PRO:O	2.58	0.56
28:JH:7:GLN:HB3	28:JH:8:PRO:HD3	1.88	0.56
31:JK:64:GLY:HA2	31:JK:70:PHE:CE2	2.41	0.56
32:JL:127:VAL:HA	32:JL:130:ALA:HB2	1.88	0.56
22:JB:1615:C:OP1	41:JU:35:LYS:HE2	2.03	0.56
22:JB:349:G:OP2	42:JV:13:LYS:HE3	2.06	0.56
1:AA:996:A:H61	1:AA:1046:A:H1'	1.71	0.55
1:AA:1048:G:O3'	1:AA:1049:U:H3'	2.05	0.55
1:AA:335:C:H1'	1:AA:1434:A:N3	2.22	0.55
1:AA:36:C:H5'	12:AL:119:LYS:O	2.06	0.55
1:AA:545:C:H2'	1:AA:546:G:H8	1.70	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:716:A:N3	11:AK:118:GLY:O	2.38	0.55
1:AA:955:U:O2	19:AS:80:TYR:CE1	2.60	0.55
4:AD:10:ARG:HA	4:AD:40:PRO:HG3	1.88	0.55
4:AD:155:LEU:HB2	4:AD:158:ILE:HG13	1.88	0.55
1:AA:429:U:C3'	4:AD:8:VAL:CB	2.67	0.55
8:AH:38:ILE:HA	8:AH:41:ARG:NH1	2.21	0.55
1:AA:1347:G:C8	9:AI:107:ARG:C	2.79	0.55
17:AQ:21:VAL:HG23	17:AQ:43:LEU:HA	1.88	0.55
20:AT:100:ILE:CG2	1:GA:179:A:C1'	2.78	0.55
20:AT:39:LYS:HD2	20:AT:43:LEU:HD11	1.88	0.55
22:BB:1378:A:H5'	47:B1:11:PRO:CG	2.35	0.55
22:BB:2040:A:C5'	48:B2:8:LYS:NZ	2.69	0.55
49:B3:38:LYS:HA	49:B3:38:LYS:NZ	2.20	0.55
53:B7:200:LEU:HD13	53:B7:201:ARG:N	2.22	0.55
22:BB:930:A:H1'	23:BA:82:U:O2'	2.06	0.55
22:BB:1014:G:H1'	22:BB:1021:A:C2	2.41	0.55
22:BB:107:G:O4'	22:BB:358:C:O2'	2.15	0.55
22:BB:1208:A:H2'	22:BB:1209:G:O4'	2.06	0.55
22:BB:1380:C:O3'	50:B4:25:LYS:HB2	2.06	0.55
22:BB:1583:A:H4'	22:BB:1584:G:N1	2.21	0.55
22:BB:1583:A:N6	24:BD:89:SER:CA	2.70	0.55
22:BB:158:A:H2'	22:BB:158:A:N3	2.21	0.55
22:BB:16:G:H2'	22:BB:17:G:H8	1.69	0.55
22:BB:1898:U:H2'	22:BB:1899:A:H8	1.70	0.55
22:BB:1883:A:C6	22:BB:1953:A:N6	2.74	0.55
22:BB:2000:U:H5'	48:B2:8:LYS:HG2	1.87	0.55
22:BB:225:G:H1'	22:BB:2412:A:N6	2.18	0.55
22:BB:2461:G:H1	34:BN:53:ILE:CG1	2.13	0.55
22:BB:585:U:H4'	22:BB:2481:G:N7	2.20	0.55
22:BB:3865:A:O2'	53:B7:43:LYS:HE3	1.70	0.55
22:BB:239:A:H1'	22:BB:443:A:O2'	2.06	0.55
22:BB:491:A:H3'	22:BB:492:G:H5''	1.88	0.55
22:BB:611:C:O2'	22:BB:614:G:H5''	2.06	0.55
25:BE:113:THR:OG1	25:BE:157:ALA:HB1	2.07	0.55
27:BG:17:MET:HG3	27:BG:21:GLY:HA2	1.86	0.55
29:BI:30:ILE:N	29:BI:31:PRO:HD3	2.20	0.55
32:BL:126:ILE:HG22	32:BL:127:VAL:HG23	1.88	0.55
22:BB:2372:A:O2'	33:BM:59:ARG:CA	2.54	0.55
38:BR:50:ARG:HE	38:BR:50:ARG:HA	1.70	0.55
39:BS:20:ILE:H	39:BS:20:ILE:HD12	1.71	0.55
22:BB:83:A:H62	42:BV:102:LYS:CE	2.18	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:BB:339:U:H5'	42:BV:9:HIS:HB3	1.88	0.55
22:BB:2333:A:H1'	44:BX:31:VAL:HA	1.88	0.55
1:CA:1231:G:C8	13:CM:126:LYS:HG2	2.41	0.55
1:CA:1363:A:H2'	1:CA:1363:A:N3	2.20	0.55
1:CA:79:G:H2'	1:CA:79:G:N3	2.21	0.55
1:CA:827:U:OP1	8:CH:21:LYS:CE	2.47	0.55
1:CA:939:G:OP1	7:CG:102:ARG:CZ	2.54	0.55
1:CA:8:A:H5''	5:CE:121:LYS:CD	2.36	0.55
7:CG:50:ILE:HG21	7:CG:58:PRO:HA	1.88	0.55
11:CK:86:GLY:HA2	11:CK:112:THR:HG23	1.86	0.55
12:CL:90:VAL:HG12	12:CL:92:ASP:H	1.70	0.55
18:CR:47:THR:HG22	18:CR:48:GLY:H	1.70	0.55
6:CF:48:LEU:CA	18:CR:78:LEU:HA	2.35	0.55
19:CS:38:SER:O	19:CS:71:LEU:HG	2.07	0.55
20:CT:34:LYS:O	20:CT:38:LYS:HG3	2.06	0.55
22:DB:1043:A:C5'	52:D6:23:VAL:HG23	1.94	0.55
22:DB:1674:C:O5'	25:DE:134:TRP:CG	2.58	0.55
22:DB:1770:U:OP1	22:DB:1771:A:H4'	2.06	0.55
22:DB:2007:G:H2'	31:DK:103:TYR:HE2	1.71	0.55
22:DB:2337:A:N3	22:DB:2337:A:H2'	2.21	0.55
22:DB:2526:U:H2'	22:DB:2527:G:H8	1.71	0.55
22:DB:3873:G:H2'	22:DB:3874:C:C2	2.40	0.55
26:DF:176:ASN:ND2	26:DF:178:TYR:H	2.04	0.55
30:DJ:115:LEU:HD12	30:DJ:117:ALA:HB3	1.87	0.55
31:DK:126:VAL:HG13	31:DK:127:ILE:HG13	1.86	0.55
40:DT:110:ALA:HB1	40:DT:111:ARG:NH2	2.21	0.55
1:EA:376:G:H4'	16:EP:28:ARG:CZ	2.31	0.55
1:EA:448:A:H2	16:EP:44:THR:HG22	1.71	0.55
1:EA:629:G:H21	1:EA:631:G:N2	2.03	0.55
1:EA:632:A:C1'	17:EQ:30:PRO:HB3	2.35	0.55
1:EA:667:G:H4'	15:EO:51:HIS:CG	2.39	0.55
1:EA:403:C:H5'	4:ED:135:LEU:HD12	1.87	0.55
5:EE:18:ARG:HH12	5:EE:27:ARG:HG3	1.70	0.55
5:EE:76:ILE:HG13	5:EE:93:PRO:HB3	1.88	0.55
8:EH:64:LYS:HZ2	8:EH:79:VAL:HG21	1.71	0.55
1:EA:599:C:OP1	8:EH:99:GLU:CG	2.54	0.55
1:EA:1117:G:N2	9:EI:106:ALA:CA	2.69	0.55
13:EM:57:ARG:HA	13:EM:61:GLU:HG3	1.87	0.55
16:EP:34:GLU:HG3	16:EP:36:ILE:HG12	1.88	0.55
1:EA:300:A:H5''	17:EQ:31:LEU:HD21	1.87	0.55
17:EQ:47:PRO:HG2	17:EQ:73:VAL:HB	1.88	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:ER:47:THR:HG22	18:ER:48:GLY:H	1.70	0.55
22:FB:1770:U:OP1	22:FB:1771:A:H4'	2.06	0.55
22:FB:2003:A:C8	48:F2:9:LYS:HB2	2.41	0.55
22:FB:2056:C:C4'	24:FD:228:PRO:C	2.72	0.55
22:FB:219:G:H5''	51:F5:3:LYS:HB3	1.87	0.55
22:FB:225:G:H1'	22:FB:2412:A:N6	2.18	0.55
22:FB:2315:A:N7	44:FX:70:ILE:HD12	2.21	0.55
22:FB:2352:A:H2'	22:FB:2353:G:C8	2.41	0.55
22:FB:2585:C:H2'	22:FB:2586:G:C8	2.41	0.55
22:FB:2619:G:H22	22:FB:2755:A:H1'	1.71	0.55
22:FB:2686:C:C1'	35:FO:64:ARG:HG3	2.36	0.55
22:FB:63:A:C5'	41:FU:62:ARG:HD2	2.35	0.55
22:FB:66:U:N3	22:FB:87:G:C2	2.74	0.55
26:FF:176:ASN:ND2	26:FF:178:TYR:H	2.03	0.55
28:FH:160:LYS:H	28:FH:160:LYS:CD	2.19	0.55
28:FH:53:GLU:HG2	28:FH:55:PRO:HD3	1.87	0.55
33:FM:106:VAL:C	33:FM:107:LYS:HG3	2.26	0.55
34:FN:8:THR:OG1	34:FN:9:LYS:HE2	2.07	0.55
22:FB:1234:C:C5'	39:FS:68:LYS:HZ2	2.15	0.55
41:FU:67:ARG:NH2	41:FU:69:ILE:HB	2.21	0.55
1:GA:996:A:H61	1:GA:1046:A:H1'	1.71	0.55
1:GA:1117:G:H1	1:GA:1180:A:H1'	1.70	0.55
1:GA:1374:A:O2'	7:GG:29:LYS:N	2.39	0.55
1:GA:567:G:H2'	1:GA:568:G:O4'	2.06	0.55
1:GA:13:U:C2	1:GA:914:A:C8	2.94	0.55
2:GB:232:PRO:O	2:GB:234:PRO:HD3	2.05	0.55
2:GB:43:ASP:HB3	2:GB:46:LYS:HB2	1.88	0.55
4:GD:162:LEU:HD22	4:GD:166:LYS:HA	1.88	0.55
5:GE:133:TYR:O	5:GE:137:GLU:HG2	2.07	0.55
9:GI:17:VAL:HG13	9:GI:62:TYR:O	2.06	0.55
1:GA:692:U:O4	11:GK:52:GLY:CA	2.54	0.55
1:GA:1321:C:OP1	13:GM:100:GLY:HA3	2.06	0.55
18:GR:47:THR:HG22	18:GR:48:GLY:H	1.70	0.55
18:GR:85:LEU:HG	18:GR:86:VAL:H	1.70	0.55
23:HA:54:U:O2'	23:HA:55:C:H5'	2.05	0.55
22:HB:1307:U:H2'	35:HO:23:ALA:CB	2.36	0.55
22:HB:1582:A:H1'	24:HD:211:ARG:C	2.25	0.55
22:HB:1695:U:H2'	22:HB:1696:C:C6	2.40	0.55
22:HB:1829:C:O4'	22:HB:1911:A:C1'	2.55	0.55
22:HB:1957:C:H2'	22:HB:1958:G:O4'	2.06	0.55
22:HB:2328:G:OP2	51:H5:41:ILE:CG1	2.55	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:HB:2352:A:H2'	22:HB:2353:G:C8	2.41	0.55
22:HB:2526:U:H2'	22:HB:2527:G:H8	1.71	0.55
22:HB:2594:U:N3	48:H2:9:LYS:CE	2.35	0.55
22:HB:2669:C:H41	35:HO:15:SER:CA	2.09	0.55
22:HB:2669:C:OP2	35:HO:10:LEU:HD22	2.05	0.55
22:HB:2786:G:H5'	25:HE:61:LYS:HZ2	1.71	0.55
22:HB:603:C:C6	22:HB:604:U:C4	2.94	0.55
22:HB:603:C:H2'	22:HB:604:U:C1'	2.36	0.55
22:HB:761:G:H1	22:HB:765:C:H42	1.52	0.55
24:HD:182:LEU:HB3	24:HD:269:PHE:HB3	1.88	0.55
28:HH:98:LEU:HD13	28:HH:122:THR:O	2.06	0.55
29:HI:49:GLN:N	29:HI:51:ARG:HH12	2.04	0.55
31:HK:43:VAL:HA	31:HK:81:VAL:HB	1.86	0.55
32:HL:46:HIS:HB2	32:HL:49:ASP:OD1	2.06	0.55
34:HN:52:ARG:CZ	34:HN:52:ARG:HA	2.36	0.55
22:HB:2357:A:O2'	36:HP:19:THR:CB	2.54	0.55
22:HB:71:A:C4'	45:HY:54:ASN:HB3	2.13	0.55
46:HZ:5:LEU:HB2	46:HZ:31:SER:OG	2.05	0.55
1:IA:1320:C:O4'	19:IS:73:GLU:CG	2.53	0.55
1:IA:1320:C:OP1	19:IS:3:ARG:HB3	2.07	0.55
1:IA:1347:G:HO2'	1:IA:1348:U:H6	1.54	0.55
1:IA:1363:A:H2'	1:IA:1363:A:N3	2.20	0.55
1:IA:191:G:N2	20:IT:56:MET:CE	2.68	0.55
1:IA:20:U:H2'	1:IA:21:G:O4'	2.05	0.55
1:IA:283:C:H2'	1:IA:284:G:C8	2.41	0.55
1:IA:765:G:P	15:IO:50:HIS:HD2	2.30	0.55
3:IC:60:ALA:HB3	3:IC:63:ASN:O	2.06	0.55
4:ID:127:THR:HB	4:ID:147:ALA:HB3	1.87	0.55
1:IA:1380:U:O4	7:IG:3:ARG:NE	2.38	0.55
1:IA:265:G:C1'	17:IQ:67:LYS:HZ3	2.18	0.55
1:IA:719:C:O2'	18:IR:49:LYS:HA	2.06	0.55
51:J5:13:ARG:NH1	51:J5:22:VAL:HG22	2.20	0.55
22:JB:1128:G:O2'	43:JW:76:ARG:HD2	2.05	0.55
22:JB:1172:U:C4'	39:JS:22:VAL:HG13	2.26	0.55
22:JB:158:A:N3	22:JB:158:A:H2'	2.21	0.55
22:JB:1790:G:O6	24:JD:270:ILE:HB	2.06	0.55
22:JB:1820:G:O6	24:JD:221:GLN:CB	2.54	0.55
22:JB:1898:U:H2'	22:JB:1899:A:C8	2.42	0.55
22:JB:1898:U:H2'	22:JB:1899:A:H8	1.70	0.55
22:JB:226:C:C2'	22:JB:2373:C:O2'	2.54	0.55
22:JB:2407:G:P	22:JB:2408:G:OP1	2.64	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:JB:1727:C:H5'	22:JB:2833:C:O2	2.06	0.55
22:JB:3177:C:O5'	53:J7:163:PRO:HD2	2.06	0.55
22:JB:3178:C:O4'	53:J7:161:ASP:HA	2.06	0.55
25:JE:113:THR:OG1	25:JE:157:ALA:HB1	2.06	0.55
27:JG:132:ILE:CG1	27:JG:153:ASP:HA	2.36	0.55
27:JG:138:PHE:O	27:JG:139:PRO:C	2.44	0.55
29:JI:26:ARG:HE	47:J1:68:ARG:NH1	1.95	0.55
34:JN:52:ARG:CZ	34:JN:52:ARG:HA	2.36	0.55
35:JO:70:ILE:HB	35:JO:75:VAL:HG11	1.88	0.55
37:JQ:101:ARG:HD3	37:JQ:104:LEU:HD11	1.88	0.55
22:JB:2850:U:H3	37:JQ:14:ARG:CZ	2.19	0.55
1:AA:1081:G:H8	5:AE:18:ARG:NH2	2.05	0.55
1:AA:1239:A:H1'	1:AA:1241:G:C2	2.40	0.55
1:AA:1346:A:H4'	1:AA:1347:G:O5'	2.06	0.55
1:AA:629:G:H21	1:AA:631:G:N2	2.03	0.55
3:AC:52:LEU:HD23	3:AC:52:LEU:H	1.70	0.55
5:AE:18:ARG:HH12	5:AE:27:ARG:HG3	1.71	0.55
3:AC:24:ALA:HA	10:AJ:95:GLU:CB	2.36	0.55
1:AA:1231:G:C2	13:AM:126:LYS:CG	2.89	0.55
13:AM:99:ARG:HH21	19:AS:2:PRO:CD	2.20	0.55
1:AA:994:A:H2	14:AN:5:ALA:HA	1.69	0.55
16:AP:2:VAL:HG23	16:AP:22:THR:O	2.06	0.55
16:AP:55:ARG:NH2	16:AP:58:TYR:HB2	2.21	0.55
48:B2:26:THR:O	48:B2:27:ALA:HB3	2.05	0.55
22:BB:3123:G:N2	53:B7:33:ILE:HD12	2.20	0.55
23:BA:44:C:N4	23:BA:47:A:H61	2.04	0.55
22:BB:1176:U:O2	22:BB:1198:C:C2'	2.53	0.55
22:BB:123:A:C5'	50:B4:13:ALA:HB1	2.36	0.55
22:BB:1401:G:C2	22:BB:1412:C:C2	2.94	0.55
22:BB:2034:A:OP1	25:BE:137:ARG:NH1	2.40	0.55
22:BB:1509:A:N1	22:BB:2190:A:N3	2.54	0.55
22:BB:2352:A:H2'	22:BB:2353:G:C8	2.41	0.55
22:BB:24:G:O2'	40:BT:98:ASP:CB	2.48	0.55
22:BB:18:U:H1'	22:BB:563:U:H5'	1.88	0.55
22:BB:742:G:C8	24:BD:208:LYS:CD	2.89	0.55
25:BE:8:LYS:HD2	25:BE:192:ASN:ND2	2.22	0.55
26:BF:168:SER:HB3	26:BF:183:HIS:HE2	1.70	0.55
22:BB:1074:G:C5	30:BJ:133:SER:OG	2.59	0.55
22:BB:631:G:H2'	33:BM:101:ARG:NH2	2.21	0.55
34:BN:36:ILE:O	43:BW:74:ARG:NH1	2.39	0.55
34:BN:52:ARG:HA	34:BN:52:ARG:CZ	2.36	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BP:8:ARG:NH1	36:BP:9:ARG:HE	2.03	0.55
40:BT:72:LEU:HA	40:BT:126:ILE:HD13	1.86	0.55
40:BT:66:GLU:O	40:BT:67:PRO:C	2.44	0.55
22:BB:494:A:N9	42:BV:56:LYS:HB2	2.20	0.55
1:CA:996:A:H61	1:CA:1046:A:H1'	1.71	0.55
1:CA:1106:G:OP1	3:CC:172:ARG:NH1	2.40	0.55
1:CA:1384:C:H2'	1:CA:1385:G:C8	2.39	0.55
1:CA:279:A:H5''	1:CA:280:C:H2'	1.87	0.55
1:CA:380:G:H22	1:CA:383:A:N6	2.04	0.55
1:CA:402:G:O3'	4:CD:137:SER:OG	2.25	0.55
1:CA:545:C:H2'	1:CA:546:G:H8	1.70	0.55
1:CA:625:G:OP1	16:CP:10:GLY:CA	2.54	0.55
2:CB:47:THR:HG22	2:CB:51:LEU:HD11	1.87	0.55
4:CD:10:ARG:O	4:CD:14:ARG:HB2	2.06	0.55
1:CA:439:A:C3'	4:CD:122:ARG:HH22	2.20	0.55
4:CD:61:LYS:NZ	4:CD:65:ARG:HD3	2.20	0.55
10:CJ:55:LYS:NZ	10:CJ:55:LYS:HB2	2.21	0.55
11:CK:87:THR:HA	11:CK:91:ARG:NH2	2.21	0.55
12:CL:57:LYS:HA	12:CL:67:THR:HG23	1.89	0.55
17:CQ:47:PRO:HG2	17:CQ:73:VAL:HB	1.88	0.55
18:CR:48:GLY:HA3	18:CR:82:THR:HA	1.87	0.55
1:CA:331:G:OP1	20:CT:10:LEU:HG	2.06	0.55
22:DB:1142:G:N2	31:DK:103:TYR:CD2	2.65	0.55
22:DB:1203:A:H4'	33:DM:36:GLY:H	1.71	0.55
22:DB:1208:A:H2'	22:DB:1209:G:O4'	2.06	0.55
22:DB:1235:C:P	39:DS:69:ILE:H	2.29	0.55
22:DB:16:G:H2'	22:DB:17:G:H8	1.69	0.55
22:DB:1898:U:H2'	22:DB:1899:A:C8	2.41	0.55
22:DB:872:G:C2'	22:DB:2247:A:C2	2.87	0.55
22:DB:2292:C:C5'	27:DG:87:ILE:HD12	2.36	0.55
22:DB:2632:U:OP2	22:DB:2633:A:H3'	2.06	0.55
22:DB:2721:A:H61	22:DB:2742:G:H22	1.53	0.55
22:DB:2745:A:C8	22:DB:2746:G:H8	2.23	0.55
22:DB:585:U:H4'	22:DB:2481:G:N7	2.20	0.55
22:DB:589:C:H4'	38:DR:33:ARG:HB2	1.86	0.55
22:DB:702:A:H2'	22:DB:703:A:H8	1.72	0.55
25:DE:113:THR:OG1	25:DE:157:ALA:HB1	2.06	0.55
29:DI:49:GLN:N	29:DI:51:ARG:HH12	2.04	0.55
30:DJ:119:SER:HB2	30:DJ:122:ALA:HB3	1.89	0.55
22:DB:548:G:C5'	31:DK:32:TYR:HD2	2.18	0.55
32:DL:11:ALA:HB2	32:DL:19:ILE:HG21	1.88	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:DL:46:HIS:HB2	32:DL:49:ASP:OD1	2.06	0.55
34:DN:66:TYR:CG	43:DW:117:VAL:C	2.73	0.55
22:DB:886:A:C4'	34:DN:66:TYR:HE2	2.18	0.55
39:DS:20:ILE:HD12	39:DS:20:ILE:H	1.70	0.55
22:DB:490:A:OP2	42:DV:4:PRO:O	2.23	0.55
23:DA:96:C:OP1	43:DW:14:LEU:CA	2.54	0.55
1:EA:112:G:H1	1:EA:315:A:H61	1.54	0.55
1:EA:1239:A:H62	1:EA:1299:A:N6	1.94	0.55
1:EA:948:C:H5'	1:EA:1306:A:O2'	2.06	0.55
1:EA:1363:A:N3	1:EA:1363:A:H2'	2.20	0.55
1:EA:194:C:C1'	20:ET:68:LYS:HD3	2.36	0.55
1:EA:259:G:OP2	20:ET:83:ARG:NH1	2.39	0.55
1:EA:283:C:H2'	1:EA:284:G:C8	2.42	0.55
1:EA:435:C:H4'	4:ED:156:GLU:CD	2.20	0.55
1:EA:453:A:H2'	1:EA:454:C:C6	2.41	0.55
1:EA:79:G:N3	1:EA:79:G:H2'	2.21	0.55
2:EB:47:THR:HG22	2:EB:51:LEU:HD11	1.87	0.55
7:EG:126:ASP:HA	7:EG:131:LYS:HE3	1.88	0.55
11:EK:87:THR:HA	11:EK:91:ARG:NH2	2.21	0.55
12:EL:83:VAL:HA	12:EL:105:TYR:HB2	1.86	0.55
16:EP:55:ARG:NH2	16:EP:58:TYR:HB2	2.22	0.55
16:EP:60:LEU:HD23	16:EP:65:GLN:NE2	2.20	0.55
19:ES:38:SER:O	19:ES:71:LEU:HG	2.07	0.55
22:FB:2062:U:C4'	47:F1:32:HIS:CE1	2.81	0.55
22:FB:1163:C:H1'	38:FR:78:THR:H	1.69	0.55
22:FB:124:A:O4'	50:F4:19:ARG:CG	2.53	0.55
22:FB:2721:A:H61	22:FB:2742:G:H22	1.53	0.55
22:FB:3873:G:H2'	22:FB:3874:C:C2	2.40	0.55
22:FB:455:A:N7	26:FF:39:ARG:HD3	2.21	0.55
22:FB:611:C:O2'	22:FB:614:G:H5''	2.06	0.55
22:FB:59:G:N9	22:FB:73:A:N1	2.54	0.55
22:FB:940:G:N3	46:FZ:37:THR:CG2	2.66	0.55
22:FB:597:U:O2	26:FF:84:PHE:CE2	2.59	0.55
29:FI:13:LYS:O	29:FI:13:LYS:HG2	2.06	0.55
30:FJ:91:PRO:HG2	30:FJ:133:SER:O	2.06	0.55
22:FB:2760:G:N2	31:FK:125:ARG:CD	2.69	0.55
32:FL:126:ILE:HG22	32:FL:127:VAL:HG23	1.88	0.55
34:FN:52:ARG:HA	34:FN:52:ARG:CZ	2.36	0.55
37:FQ:55:ILE:HB	37:FQ:71:ILE:HG12	1.87	0.55
40:FT:110:ALA:HB1	40:FT:111:ARG:NH2	2.22	0.55
40:FT:48:LYS:HE2	40:FT:48:LYS:HA	1.88	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:FN:31:GLY:HA2	43:FW:117:VAL:O	2.05	0.55
1:GA:128:G:C1'	17:GQ:4:LYS:N	2.63	0.55
1:GA:948:C:H5'	1:GA:1306:A:O2'	2.06	0.55
1:GA:1515:C:H1'	1:GA:1521:G:N2	2.21	0.55
1:GA:20:U:H2'	1:GA:21:G:O4'	2.05	0.55
1:GA:657:G:O2'	1:GA:658:G:H5'	2.06	0.55
1:GA:79:G:N3	1:GA:79:G:H2'	2.21	0.55
1:GA:1376:U:H4'	7:GG:95:ARG:HH22	1.72	0.55
9:GI:27:THR:HA	9:GI:32:ASP:CA	2.35	0.55
11:GK:83:ILE:HG12	11:GK:107:SER:OG	2.05	0.55
17:GQ:21:VAL:HG23	17:GQ:43:LEU:HA	1.88	0.55
1:GA:956:U:H4'	19:GS:80:TYR:CE1	2.42	0.55
20:GT:26:ASN:HB3	20:GT:30:LYS:HZ1	1.71	0.55
20:GT:34:LYS:O	20:GT:38:LYS:HG3	2.06	0.55
48:H2:26:THR:O	48:H2:27:ALA:HB3	2.05	0.55
22:HB:1277:G:H1'	48:H2:7:PRO:HB3	1.89	0.55
22:HB:1307:U:H2'	35:HO:23:ALA:HB1	1.88	0.55
22:HB:1483:G:C2'	22:HB:1484:G:C4	2.90	0.55
22:HB:1503:G:H2'	22:HB:1504:G:H4'	1.88	0.55
22:HB:1746:A:C3'	37:HQ:126:LYS:O	2.54	0.55
22:HB:2183:C:H5''	47:H1:43:TRP:HE3	1.71	0.55
22:HB:2336:G:HO2'	22:HB:2338:C:H5	1.54	0.55
22:HB:2786:G:H5'	25:HE:61:LYS:NZ	2.21	0.55
22:HB:361:G:H2'	22:HB:362:C:C5	2.41	0.55
22:HB:681:A:N1	22:HB:683:A:H2'	2.21	0.55
22:HB:760:U:P	48:H2:2:ALA:N	2.78	0.55
22:HB:7:G:C2	22:HB:2871:U:N3	2.74	0.55
22:HB:65:C:C4	22:HB:87:G:N1	2.74	0.55
27:HG:104:ILE:HG21	27:HG:174:GLY:HA3	1.88	0.55
27:HG:69:LYS:HG2	27:HG:70:ALA:N	2.20	0.55
30:HJ:111:LYS:HZ1	30:HJ:115:LEU:HG	1.71	0.55
22:HB:2373:C:P	33:HM:62:LYS:HZ1	2.30	0.55
36:HP:42:ILE:O	36:HP:51:LEU:HD23	2.07	0.55
1:GA:1433:A:H4'	37:HQ:116:ARG:NH1	2.21	0.55
22:HB:1166:A:P	38:HR:55:ARG:CZ	2.94	0.55
41:HU:92:ALA:O	45:HY:27:GLU:CD	2.45	0.55
1:IA:1112:C:C4	3:IC:177:THR:HA	2.42	0.55
1:IA:1125:U:O4	10:IJ:5:ARG:NE	2.39	0.55
1:IA:1239:A:H1'	1:IA:1241:G:C2	2.40	0.55
1:IA:1346:A:H4'	1:IA:1347:G:O5'	2.06	0.55
1:IA:567:G:H2'	1:IA:568:G:O4'	2.06	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:IB:134:GLU:O	2:IB:138:LEU:HG	2.06	0.55
2:IB:43:ASP:HB3	2:IB:46:LYS:HB2	1.88	0.55
5:IE:18:ARG:HH12	5:IE:27:ARG:HG3	1.71	0.55
9:II:116:LYS:HZ3	9:II:121:ARG:C	2.10	0.55
9:II:17:VAL:HG13	9:II:62:TYR:O	2.06	0.55
10:IJ:55:LYS:HB2	10:IJ:55:LYS:NZ	2.21	0.55
1:IA:705:U:O2	11:IK:29:ILE:HD13	2.05	0.55
13:IM:48:LEU:HB3	13:IM:52:GLU:HB2	1.87	0.55
17:IQ:47:PRO:HG2	17:IQ:73:VAL:HB	1.88	0.55
40:JT:36:ARG:HD2	48:J2:16:ARG:HH11	1.70	0.55
22:JB:1039:A:N6	22:JB:1136:G:H2'	2.21	0.55
22:JB:1438:G:H2'	22:JB:1439:G:O4'	2.06	0.55
22:JB:1669:A:N6	22:JB:1670:G:H21	2.02	0.55
22:JB:1695:U:H2'	22:JB:1696:C:C6	2.40	0.55
22:JB:1740:G:H2'	22:JB:1741:G:O4'	2.07	0.55
22:JB:1761:G:O2'	22:JB:1921:A:H8	1.89	0.55
22:JB:1956:G:H2'	22:JB:1957:C:C6	2.41	0.55
22:JB:1957:C:H2'	22:JB:1958:G:O4'	2.06	0.55
22:JB:2074:U:O2	22:JB:2182:A:O2'	2.23	0.55
22:JB:2273:C:H2'	22:JB:2274:C:C6	2.40	0.55
22:JB:2260:C:O3'	22:JB:2368:G:C2	2.59	0.55
22:JB:2526:U:H2'	22:JB:2527:G:H8	1.71	0.55
22:JB:3167:U:C4'	53:J7:97:LYS:HZ1	2.19	0.55
22:JB:883:A:H1'	34:JN:10:PHE:CE1	2.41	0.55
22:JB:934:G:O2'	44:JX:26:PHE:CD2	2.33	0.55
22:JB:9:U:O2	22:JB:2608:A:N7	2.40	0.55
22:JB:1781:C:H1'	24:JD:209:ALA:CB	2.36	0.55
24:JD:82:ILE:HG13	24:JD:93:ALA:HA	1.88	0.55
27:JG:69:LYS:HG2	27:JG:70:ALA:N	2.20	0.55
28:JH:6:LYS:HB2	28:JH:6:LYS:NZ	2.22	0.55
31:JK:43:VAL:HA	31:JK:81:VAL:HB	1.87	0.55
34:JN:8:THR:OG1	34:JN:9:LYS:HE2	2.06	0.55
1:AA:1221:G:O3'	19:AS:77:THR:HG21	2.04	0.55
1:AA:1262:C:H2'	1:AA:1263:C:C6	2.41	0.55
1:AA:1256:A:N1	1:AA:1278:U:H1'	2.21	0.55
1:AA:1279:A:H61	10:AJ:43:ARG:NH1	1.94	0.55
1:AA:1384:C:H2'	1:AA:1385:G:C8	2.39	0.55
1:AA:1393:U:O3'	1:AA:1394:A:C8	2.58	0.55
1:AA:283:C:H2'	1:AA:284:G:C8	2.41	0.55
1:AA:79:G:H2'	1:AA:79:G:N3	2.20	0.55
4:AD:162:LEU:HD22	4:AD:166:LYS:HA	1.88	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AD:61:LYS:NZ	4:AD:65:ARG:HD3	2.20	0.55
3:AC:18:TRP:CE2	14:AN:53:LEU:O	2.59	0.55
1:AA:44:G:P	16:AP:12:LYS:CE	2.95	0.55
1:AA:1013:G:OP2	19:AS:18:LYS:HD3	2.06	0.55
20:AT:34:LYS:O	20:AT:38:LYS:HG3	2.07	0.55
20:AT:88:VAL:HG11	20:AT:92:LEU:HD12	1.87	0.55
51:B5:13:ARG:HE	51:B5:24:ALA:HA	1.71	0.55
51:B5:26:LYS:HA	51:B5:26:LYS:HE3	1.88	0.55
22:BB:1004:A:N9	22:BB:1173:G:N2	2.53	0.55
22:BB:1261:G:O6	38:BR:3:ARG:CB	2.50	0.55
22:BB:1586:A:O3'	22:BB:1587:A:P	2.64	0.55
22:BB:160:C:H2'	22:BB:194:G:H22	1.72	0.55
22:BB:1631:C:C2	40:BT:107:ILE:HA	2.41	0.55
22:BB:2307:A:H2'	22:BB:2308:A:C8	2.41	0.55
22:BB:2680:U:H3'	22:BB:2681:A:H5''	1.88	0.55
22:BB:2727:G:O6	22:BB:2734:U:H3'	2.06	0.55
22:BB:2797:G:H2'	22:BB:2798:A:H5''	1.89	0.55
22:BB:361:G:H2'	22:BB:362:C:C5	2.41	0.55
22:BB:678:G:OP1	33:BM:38:LYS:HE2	2.06	0.55
24:BD:182:LEU:HB3	24:BD:269:PHE:HB3	1.88	0.55
22:BB:1507:A:OP1	24:BD:99:ASP:C	2.45	0.55
22:BB:2599:U:C5'	25:BE:154:LYS:O	2.50	0.55
26:BF:176:ASN:ND2	26:BF:178:TYR:H	2.03	0.55
27:BG:100:LEU:HB3	27:BG:104:ILE:HG12	1.87	0.55
27:BG:8:TYR:HA	27:BG:12:VAL:CG2	2.36	0.55
30:BJ:55:VAL:HA	30:BJ:70:LYS:HG2	1.87	0.55
22:BB:2760:G:H5'	31:BK:146:THR:HG22	1.88	0.55
31:BK:44:VAL:HB	31:BK:82:VAL:HA	1.87	0.55
41:BU:15:LYS:HG3	41:BU:19:ALA:HB2	1.87	0.55
41:BU:40:ASP:HA	41:BU:43:GLN:HG3	1.87	0.55
22:BB:888:G:C2	43:BW:165:GLU:HG2	2.38	0.55
45:BY:48:ARG:HA	45:BY:51:ALA:HB3	1.89	0.55
1:CA:1064:G:H22	1:CA:1190:G:H2'	1.71	0.55
1:CA:1346:A:H4'	1:CA:1347:G:O5'	2.06	0.55
1:CA:186:C:C4'	20:CT:78:ALA:CB	2.79	0.55
1:CA:328:C:H4'	1:CA:329:A:O5'	2.06	0.55
1:CA:429:U:C3'	4:CD:8:VAL:CB	2.72	0.55
1:CA:629:G:H21	1:CA:631:G:N2	2.03	0.55
1:CA:919:A:H2'	1:CA:1080:A:N1	2.21	0.55
2:CB:43:ASP:HB3	2:CB:46:LYS:HB2	1.88	0.55
1:CA:1344:C:C3'	9:CI:120:ARG:HD3	2.37	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:1321:C:OP1	13:CM:100:GLY:HA2	2.06	0.55
51:D5:13:ARG:HE	51:D5:24:ALA:HA	1.71	0.55
51:D5:26:LYS:HE3	51:D5:26:LYS:HA	1.87	0.55
22:DB:1503:G:H2'	22:DB:1504:G:H4'	1.88	0.55
22:DB:1877:C:H2'	22:DB:1878:C:C6	2.41	0.55
22:DB:1887:G:C6	22:DB:1888:C:N1	2.75	0.55
22:DB:160:C:H2'	22:DB:194:G:H22	1.72	0.55
22:DB:2352:A:H2'	22:DB:2353:G:C8	2.41	0.55
22:DB:2760:G:OP2	31:DK:145:HIS:O	2.24	0.55
22:DB:396:U:H3'	22:DB:398:C:OP2	2.07	0.55
15:CO:89:GLY:C	22:DB:730:C:C4	2.80	0.55
24:DD:82:ILE:HG13	24:DD:93:ALA:HA	1.88	0.55
28:DH:160:LYS:CD	28:DH:160:LYS:H	2.19	0.55
22:DB:547:U:P	31:DK:30:LYS:HD3	2.46	0.55
22:DB:922:A:C6	34:DN:17:ARG:N	2.63	0.55
35:DO:70:ILE:HB	35:DO:75:VAL:HG11	1.88	0.55
36:DP:69:ALA:HB2	36:DP:102:ALA:HB1	1.88	0.55
34:DN:99:LYS:HZ2	43:DW:73:LYS:HZ1	1.53	0.55
23:DA:106:U:C4'	43:DW:88:TYR:CE2	2.65	0.55
1:EA:1256:A:N1	1:EA:1278:U:H1'	2.21	0.55
1:EA:380:G:H22	1:EA:383:A:N6	2.04	0.55
1:EA:436:C:H4'	4:ED:156:GLU:N	2.21	0.55
1:EA:927:G:O2'	1:EA:1532:U:C1'	2.51	0.55
51:F5:3:LYS:HE3	51:F5:5:LYS:HE3	1.88	0.55
22:FB:1006:C:OP2	38:FR:51:ARG:NH2	2.40	0.55
22:FB:1249:G:H2'	22:FB:1250:A:H8	1.71	0.55
22:FB:1672:A:H4'	25:FE:114:GLN:CB	2.35	0.55
22:FB:1750:A:H4'	22:FB:2695:C:C1'	2.36	0.55
22:FB:1898:U:H2'	22:FB:1899:A:C8	2.41	0.55
22:FB:1898:U:H2'	22:FB:1899:A:H8	1.70	0.55
22:FB:160:C:H2'	22:FB:194:G:H22	1.72	0.55
22:FB:227:G:H4'	33:FM:55:ARG:NH2	2.21	0.55
22:FB:2337:A:N3	22:FB:2337:A:H2'	2.21	0.55
22:FB:2224:U:H1'	22:FB:2414:A:H5''	1.89	0.55
22:FB:2494:C:H4'	31:FK:107:GLN:CG	2.36	0.55
22:FB:2526:U:H2'	22:FB:2527:G:H8	1.71	0.55
22:FB:585:U:H4'	22:FB:2481:G:N7	2.20	0.55
22:FB:641:G:N7	51:F5:15:LYS:HD2	2.22	0.55
25:FE:113:THR:OG1	25:FE:157:ALA:HB1	2.07	0.55
27:FG:104:ILE:HG21	27:FG:174:GLY:HA3	1.88	0.55
30:FJ:119:SER:HB2	30:FJ:122:ALA:HB3	1.89	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:FL:58:ALA:HB2	32:FL:66:ALA:O	2.05	0.55
33:FM:56:LEU:HD23	33:FM:57:ILE:N	2.20	0.55
22:FB:504:G:C5'	40:FT:25:PHE:CE2	2.88	0.55
40:FT:62:ARG:HH11	40:FT:64:ALA:HB2	1.71	0.55
40:FT:72:LEU:HA	40:FT:126:ILE:HD13	1.87	0.55
1:GA:1347:G:H2'	1:GA:1373:G:C6	2.42	0.55
1:GA:407:G:O2'	4:GD:116:GLN:HB2	2.07	0.55
1:GA:736:C:H4'	6:GF:89:MET:CG	2.35	0.55
1:GA:974:A:OP1	14:GN:29:ARG:NH2	2.39	0.55
5:GE:76:ILE:HG13	5:GE:93:PRO:HB3	1.87	0.55
7:GG:126:ASP:HA	7:GG:131:LYS:HE3	1.88	0.55
1:GA:1368:G:OP2	9:GI:112:LYS:HG2	2.06	0.55
9:GI:14:VAL:HG12	9:GI:15:ALA:H	1.70	0.55
1:GA:1188:A:C4	14:GN:60:SER:OG	2.58	0.55
22:HB:1042:G:O3'	52:H6:8:LYS:CA	2.54	0.55
22:HB:1336:G:P	40:HT:103:LEU:HB3	2.46	0.55
22:HB:1376:C:H2'	22:HB:1377:G:H8	1.63	0.55
22:HB:1778:U:H2'	22:HB:1779:C:C6	2.41	0.55
22:HB:1956:G:H2'	22:HB:1957:C:C6	2.41	0.55
22:HB:2307:A:H2'	22:HB:2308:A:C8	2.41	0.55
22:HB:2680:U:H3'	22:HB:2681:A:H5''	1.88	0.55
22:HB:1:G:H1	22:HB:2877:A:H62	1.54	0.55
22:HB:45:C:H2'	22:HB:46:C:C6	2.42	0.55
22:HB:48:A:N1	22:HB:153:A:C5	2.75	0.55
22:HB:593:C:H5''	38:HR:3:ARG:CZ	2.36	0.55
24:HD:225:ALA:H	24:HD:233:HIS:CE1	2.25	0.55
25:HE:113:THR:OG1	25:HE:157:ALA:HB1	2.06	0.55
25:HE:23:VAL:HG23	25:HE:186:GLY:H	1.70	0.55
26:HF:168:SER:HB3	26:HF:183:HIS:HE2	1.71	0.55
30:HJ:91:PRO:HG2	30:HJ:133:SER:O	2.07	0.55
22:HB:2760:G:C4'	31:HK:146:THR:HA	2.35	0.55
33:HM:81:GLN:O	33:HM:118:VAL:HG11	2.05	0.55
22:HB:2372:A:C4'	33:HM:60:LEU:HA	2.36	0.55
23:HA:93:G:C4'	34:HN:23:LYS:HZ3	2.10	0.55
34:HN:23:LYS:HG2	34:HN:39:GLU:OE2	2.06	0.55
34:HN:8:THR:OG1	34:HN:9:LYS:HE2	2.06	0.55
37:HQ:55:ILE:HB	37:HQ:71:ILE:HG12	1.88	0.55
44:HX:46:LYS:HD3	44:HX:67:VAL:HG11	1.87	0.55
44:HX:47:ALA:H	44:HX:75:GLY:HA3	1.72	0.55
1:IA:1319:A:N6	1:IA:1361:G:H21	2.05	0.55
1:IA:314:C:O2'	1:IA:315:A:H5'	2.05	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:IA:673:G:H5'	6:IF:87:ARG:NE	2.20	0.55
1:IA:707:C:OP1	11:IK:85:ARG:NH1	2.39	0.55
1:IA:927:G:H5'	1:IA:1503:A:OP1	2.06	0.55
1:IA:953:G:C2	13:IM:125:ARG:HA	2.41	0.55
2:IB:118:LEU:HD22	2:IB:142:LEU:HD21	1.87	0.55
1:IA:1100:C:C5	2:IB:98:LEU:HD11	2.40	0.55
1:IA:1228:C:C4	13:IM:104:ARG:HG3	2.41	0.55
51:J5:26:LYS:HA	51:J5:26:LYS:HE3	1.88	0.55
22:JB:3170:A:H4'	53:J7:128:LEU:HD23	1.88	0.55
23:JA:118:G:P	36:JP:53:ALA:N	2.80	0.55
22:JB:1778:U:H2'	22:JB:1779:C:C6	2.42	0.55
22:JB:2258:G:C4	22:JB:2306:A:H1'	2.41	0.55
22:JB:2258:G:N9	22:JB:2306:A:H1'	2.20	0.55
22:JB:2352:A:H2'	22:JB:2353:G:C8	2.41	0.55
22:JB:2362:G:O6	49:J3:26:LYS:O	2.24	0.55
22:JB:2375:G:C6	51:J5:31:HIS:HE1	2.17	0.55
22:JB:3876:A:N3	22:JB:3877:A:H1'	2.20	0.55
22:JB:423:G:H2'	22:JB:2386:G:C8	2.40	0.55
22:JB:681:A:N1	22:JB:683:A:H2'	2.21	0.55
22:JB:794:A:OP2	24:JD:53:PHE:CE2	2.54	0.55
22:JB:868:U:H1'	44:JX:25:LYS:CE	2.37	0.55
22:JB:878:C:N4	22:JB:921:A:H62	2.03	0.55
22:JB:1781:C:O2'	24:JD:209:ALA:HB2	2.05	0.55
22:JB:2541:U:OP1	32:JL:52:VAL:HG21	2.07	0.55
40:JT:54:GLU:C	40:JT:56:LEU:H	2.07	0.55
40:JT:66:GLU:O	40:JT:67:PRO:C	2.44	0.55
22:JB:530:G:C2'	40:JT:94:GLU:OE1	2.54	0.55
41:JU:15:LYS:HG3	41:JU:19:ALA:HB2	1.87	0.55
1:AA:254:G:N9	17:AQ:16:GLN:C	2.57	0.55
1:AA:409:G:P	4:AD:22:LYS:NZ	2.69	0.55
1:AA:659:U:C5'	15:AO:5:LYS:HG3	2.36	0.55
1:AA:958:A:C2	19:AS:55:LYS:HB3	2.42	0.55
1:AA:980:C:O2'	14:AN:19:ARG:CZ	2.54	0.55
7:AG:101:LEU:HA	7:AG:104:LEU:HG	1.87	0.55
1:AA:1309:G:H4'	13:AM:78:ILE:HG12	1.86	0.55
22:BB:127:C:O2'	22:BB:1361:G:N3	2.39	0.55
22:BB:1377:G:H21	22:BB:1380:C:H5	1.54	0.55
22:BB:156:G:C3'	22:BB:157:G:P	2.95	0.55
22:BB:1898:U:H2'	22:BB:1899:A:C8	2.42	0.55
22:BB:2039:G:C4	48:B2:5:PRO:CG	2.90	0.55
22:BB:2344:G:H4'	44:BX:42:GLY:HA2	1.88	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:BB:2526:U:H2'	22:BB:2527:G:H8	1.71	0.55
22:BB:2591:C:H42	48:B2:4:HIS:HE1	1.55	0.55
22:BB:2671:C:C1'	22:BB:2822:U:H1'	2.37	0.55
22:BB:968:C:OP1	34:BN:92:GLU:CD	2.45	0.55
27:BG:138:PHE:O	27:BG:139:PRO:C	2.44	0.55
27:BG:69:LYS:HG2	27:BG:70:ALA:N	2.20	0.55
30:BJ:112:MET:H	30:BJ:113:PRO:HD2	1.72	0.55
31:BK:74:MET:HE3	31:BK:75:ILE:HG23	1.88	0.55
32:BL:46:HIS:HB2	32:BL:49:ASP:OD1	2.06	0.55
35:BO:70:ILE:HB	35:BO:75:VAL:HG11	1.88	0.55
36:BP:42:ILE:HG22	36:BP:43:ILE:N	2.21	0.55
34:BN:37:ALA:N	43:BW:74:ARG:NH2	2.54	0.55
1:CA:637:G:H2'	1:CA:638:G:H8	1.71	0.55
3:CC:132:ARG:NH2	4:CD:47:ARG:HH11	2.01	0.55
1:CA:1396:A:N1	5:CE:19:MET:CE	2.47	0.55
5:CE:90:VAL:HG21	5:CE:123:LEU:HD12	1.87	0.55
6:CF:41:GLU:HB2	6:CF:62:TRP:HZ3	1.71	0.55
7:CG:101:LEU:HA	7:CG:104:LEU:HG	1.87	0.55
1:CA:588:G:N7	8:CH:1:MET:CG	2.69	0.55
10:CJ:39:PRO:HA	10:CJ:70:ARG:NH1	2.21	0.55
1:CA:666:G:N2	15:CO:52:SER:CB	2.43	0.55
53:D7:13:LYS:NZ	53:D7:177:GLU:HA	2.21	0.55
23:DA:31:A:H2'	23:DA:32:C:C6	2.42	0.55
23:DA:45:C:C2'	23:DA:46:G:H5'	2.36	0.55
22:DB:1004:A:C2	22:DB:1173:G:C2	2.94	0.55
22:DB:1193:G:OP1	39:DS:25:LEU:CD1	2.53	0.55
22:DB:1377:G:H21	22:DB:1380:C:H5	1.54	0.55
22:DB:1507:A:OP1	24:DD:99:ASP:HB3	2.05	0.55
22:DB:1898:U:H2'	22:DB:1899:A:H8	1.70	0.55
22:DB:2224:U:H1'	22:DB:2414:A:H5''	1.89	0.55
22:DB:2473:G:H2'	22:DB:2474:G:C8	2.42	0.55
22:DB:2773:G:C2'	22:DB:2780:A:O2'	2.51	0.55
22:DB:361:G:H2'	22:DB:362:C:C5	2.41	0.55
22:DB:588:G:C1'	48:D2:10:LYS:HZ2	2.19	0.55
26:DF:168:SER:HB3	26:DF:183:HIS:HE2	1.71	0.55
27:DG:100:LEU:HB3	27:DG:104:ILE:HG12	1.87	0.55
27:DG:8:TYR:HA	27:DG:12:VAL:CG2	2.36	0.55
22:DB:2646:C:C5	28:DH:109:TYR:CD2	2.94	0.55
29:DI:13:LYS:O	29:DI:13:LYS:HG2	2.06	0.55
22:DB:2706:U:H1'	32:DL:79:HIS:HE2	1.71	0.55
35:DO:28:LEU:HD12	35:DO:34:ILE:HG13	1.89	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:DA:9:G:C3'	36:DP:32:TYR:OH	2.54	0.55
22:DB:590:C:C5'	38:DR:32:TYR:CD1	2.66	0.55
22:DB:1167:A:C5	38:DR:55:ARG:NH2	2.74	0.55
22:DB:1163:C:C4'	38:DR:78:THR:CA	2.84	0.55
45:DY:48:ARG:HH11	45:DY:52:GLN:NE2	2.04	0.55
1:EA:1064:G:H22	1:EA:1190:G:H2'	1.71	0.55
1:EA:1186:G:C5'	9:EI:119:ALA:HB1	2.36	0.55
1:EA:1320:C:O2	19:ES:72:GLY:CA	2.54	0.55
1:EA:323:U:O2'	20:ET:15:ARG:HD3	2.06	0.55
2:EB:43:ASP:HB3	2:EB:46:LYS:HB2	1.88	0.55
4:ED:10:ARG:O	4:ED:14:ARG:HB2	2.06	0.55
7:EG:50:ILE:HG21	7:EG:58:PRO:HA	1.89	0.55
1:EA:826:C:C4'	8:EH:15:ASN:HB2	2.36	0.55
8:EH:38:ILE:HA	8:EH:41:ARG:NH1	2.21	0.55
11:EK:83:ILE:HG12	11:EK:107:SER:OG	2.05	0.55
13:EM:68:GLY:HA2	13:EM:71:ARG:NH2	2.22	0.55
1:EA:632:A:H1'	17:EQ:30:PRO:CA	2.36	0.55
23:FA:31:A:H2'	23:FA:32:C:C6	2.41	0.55
22:FB:1000:G:H5'	46:FZ:27:LYS:CD	2.36	0.55
22:FB:123:A:C5'	50:F4:14:LYS:CG	2.31	0.55
22:FB:1438:G:O6	22:FB:1591:U:O2	2.24	0.55
22:FB:1984:A:H2'	22:FB:1985:G:C8	2.42	0.55
22:FB:2473:G:H2'	22:FB:2474:G:C8	2.42	0.55
22:FB:1750:A:C2	22:FB:2675:U:O2	2.60	0.55
22:FB:396:U:H3'	22:FB:398:C:OP2	2.07	0.55
22:FB:810:U:H2'	22:FB:811:G:O4'	2.07	0.55
22:FB:940:G:O2'	46:FZ:35:SER:CB	2.45	0.55
24:FD:91:ARG:NH2	24:FD:91:ARG:HB2	2.22	0.55
26:FF:168:SER:HB3	26:FF:183:HIS:HE2	1.71	0.55
28:FH:25:LYS:HG2	28:FH:33:LEU:O	2.07	0.55
34:FN:33:TYR:O	34:FN:104:MET:HA	2.07	0.55
37:FQ:85:SER:N	37:FQ:86:PRO:CD	2.70	0.55
42:FV:96:LYS:HE2	42:FV:106:VAL:HG21	1.88	0.55
43:FW:17:SER:HA	43:FW:36:ARG:NH1	2.22	0.55
22:FB:2365:U:HO2'	44:FX:38:VAL:HG23	1.72	0.55
1:GA:1103:C:OP1	2:GB:98:LEU:CD2	2.55	0.55
1:GA:1225:A:C5'	13:GM:103:THR:C	2.59	0.55
1:GA:189:A:N6	20:GT:105:SER:HG	2.05	0.55
2:GB:55:PHE:HA	2:GB:58:ILE:HD12	1.87	0.55
4:GD:155:LEU:HB2	4:GD:158:ILE:HG13	1.88	0.55
4:GD:61:LYS:NZ	4:GD:65:ARG:HD3	2.20	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:GE:154:GLY:OXT	8:GH:67:PRO:CG	2.54	0.55
6:GF:20:ALA:HB1	6:GF:23:LYS:HD3	1.87	0.55
7:GG:101:LEU:HA	7:GG:104:LEU:HG	1.87	0.55
7:GG:26:PHE:O	7:GG:30:ILE:HG13	2.06	0.55
12:GL:100:ILE:HG22	12:GL:101:VAL:H	1.72	0.55
17:GQ:45:HIS:O	17:GQ:47:PRO:HD3	2.07	0.55
18:GR:48:GLY:HA3	18:GR:82:THR:HA	1.87	0.55
20:GT:26:ASN:HB3	20:GT:30:LYS:NZ	2.21	0.55
22:HB:2398:U:H5'	49:H3:21:TYR:CZ	2.41	0.55
22:HB:1070:G:N2	30:HJ:129:GLY:O	2.37	0.55
22:HB:1039:A:N6	22:HB:1136:G:H2'	2.21	0.55
22:HB:1427:G:H2'	22:HB:1428:G:H5'	1.89	0.55
22:HB:1613:G:C3'	22:HB:1614:C:OP1	2.54	0.55
22:HB:1817:U:H5''	24:HD:233:HIS:CD2	2.42	0.55
22:HB:801:A:HO2'	50:H4:4:THR:HG1	1.55	0.55
28:HH:6:LYS:NZ	28:HH:6:LYS:HB2	2.21	0.55
22:HB:8:A:OP1	31:HK:36:ASN:ND2	2.40	0.55
33:HM:106:VAL:C	33:HM:107:LYS:HG3	2.26	0.55
34:HN:77:LYS:HB2	34:HN:92:GLU:CD	2.26	0.55
22:HB:1284:G:N1	40:HT:107:ILE:C	2.51	0.55
40:HT:110:ALA:HB1	40:HT:111:ARG:NH2	2.22	0.55
22:HB:514:G:C6	40:HT:14:ARG:NE	2.74	0.55
22:HB:512:A:O3'	40:HT:16:GLN:N	1.66	0.55
1:IA:1453:G:O2'	1:IA:1454:G:H5'	2.07	0.55
1:IA:927:G:C5'	1:IA:1503:A:OP1	2.55	0.55
1:IA:380:G:H22	1:IA:383:A:N6	2.04	0.55
1:IA:878:G:P	8:IH:88:LYS:HB2	2.47	0.55
1:IA:948:C:H5'	1:IA:1306:A:O2'	2.06	0.55
4:ID:152:SER:O	4:ID:158:ILE:HD13	2.06	0.55
7:IG:153:HIS:HB3	11:IK:96:ARG:NH2	2.22	0.55
3:IC:23:TYR:C	10:IJ:92:THR:CG2	2.72	0.55
14:IN:47:LEU:HA	14:IN:50:LYS:HB2	1.87	0.55
1:IA:392:G:O5'	16:IP:12:LYS:HA	2.01	0.55
22:JB:16:G:H5'	48:J2:17:ASP:CB	1.08	0.55
22:JB:3124:G:C5'	53:J7:62:LYS:HG2	2.11	0.55
23:JA:58:G:H4'	23:JA:59:A:H8	1.72	0.55
22:JB:1163:C:H1'	38:JR:77:SER:CB	2.34	0.55
22:JB:1393:G:H2'	22:JB:1393:G:N3	2.22	0.55
22:JB:160:C:H2'	22:JB:194:G:H22	1.72	0.55
22:JB:1813:A:P	24:JD:202:LYS:HZ2	2.28	0.55
22:JB:1829:C:O4'	22:JB:1911:A:H1'	2.06	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:JB:2224:U:H1'	22:JB:2414:A:H5''	1.89	0.55
22:JB:2258:G:N2	22:JB:2306:A:C4	2.75	0.55
22:JB:235:C:P	33:JM:103:ASN:ND2	2.66	0.55
22:JB:2529:G:C6	22:JB:2538:C:N4	2.74	0.55
22:JB:2637:C:C6	28:JH:179:THR:CG2	2.87	0.55
22:JB:2797:G:H2'	22:JB:2798:A:H5''	1.88	0.55
22:JB:455:A:N6	26:JF:35:LEU:O	2.40	0.55
22:JB:761:G:H1	22:JB:765:C:H42	1.52	0.55
27:JG:104:ILE:HG21	27:JG:174:GLY:HA3	1.88	0.55
28:JH:33:LEU:HD11	28:JH:74:ASN:HD22	1.71	0.55
30:JJ:42:ASN:N	30:JJ:45:THR:HB	2.22	0.55
32:JL:126:ILE:HG22	32:JL:127:VAL:HG23	1.88	0.55
35:JO:59:ASP:H	35:JO:63:ARG:NE	2.05	0.55
38:JR:75:ASN:HB3	38:JR:79:PHE:HB2	1.89	0.55
38:JR:87:ASN:HB3	39:JS:52:GLY:N	2.19	0.55
40:JT:110:ALA:HB1	40:JT:111:ARG:NH2	2.22	0.55
45:JY:3:PRO:HG2	45:JY:5:GLU:HB2	1.87	0.55
46:JZ:6:VAL:HB	46:JZ:50:LEU:HB3	1.87	0.55
1:AA:10:A:OP1	5:AE:128:PRO:HB3	2.06	0.55
1:AA:1064:G:H22	1:AA:1190:G:H2'	1.71	0.55
1:AA:1479:C:H2'	1:AA:1480:G:C8	2.41	0.55
1:AA:112:G:H1	1:AA:315:A:H61	1.54	0.55
1:AA:328:C:H4'	1:AA:329:A:O5'	2.07	0.55
1:AA:739:C:H2'	15:AO:42:HIS:HD1	1.70	0.55
1:AA:780:A:O2'	1:AA:1523:G:C5'	2.54	0.55
1:AA:1350:A:OP1	9:AI:121:ARG:HG3	1.95	0.55
11:AK:87:THR:HG23	11:AK:91:ARG:HH22	1.71	0.55
15:AO:70:LEU:HD12	15:AO:77:ARG:HB2	1.88	0.55
16:AP:34:GLU:HG3	16:AP:36:ILE:HG12	1.89	0.55
1:AA:273:A:O2'	17:AQ:14:LYS:C	2.44	0.55
1:AA:235:C:OP1	17:AQ:70:ARG:HD3	2.06	0.55
22:BB:2790:C:C2'	48:B2:43:HIS:HB2	2.37	0.55
48:B2:4:HIS:O	48:B2:5:PRO:C	2.44	0.55
23:BA:77:G:H1	23:BA:105:G:H1	1.54	0.55
23:BA:31:A:H2'	23:BA:32:C:C6	2.42	0.55
23:BA:58:G:H4'	23:BA:59:A:H8	1.71	0.55
22:BB:1172:U:H2'	22:BB:1173:G:C8	2.42	0.55
22:BB:1402:G:C2	22:BB:1412:C:C5	2.93	0.55
22:BB:1440:G:C2	22:BB:1588:A:OP2	2.58	0.55
22:BB:1613:G:H5''	22:BB:1614:C:P	2.46	0.55
22:BB:427:C:P	22:BB:1862:C:HO2'	2.27	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:BB:1984:A:H2'	22:BB:1985:G:C8	2.42	0.55
22:BB:2470:U:H3	22:BB:2548:G:C3'	2.17	0.55
22:BB:2473:G:H2'	22:BB:2474:G:C8	2.42	0.55
22:BB:2598:C:C2'	25:BE:154:LYS:HZ1	2.19	0.55
22:BB:2700:U:H3	22:BB:2848:A:H62	1.55	0.55
22:BB:2753:C:H2'	22:BB:2754:C:O4'	2.05	0.55
24:BD:225:ALA:H	24:BD:233:HIS:CE1	2.25	0.55
22:BB:1805:G:N1	24:BD:51:SER:HB3	2.18	0.55
22:BB:2739:G:H22	28:BH:139:GLN:CG	2.06	0.55
22:BB:2495:G:P	31:BK:108:GLY:O	2.37	0.55
31:BK:59:ALA:HA	31:BK:62:ILE:HG22	1.89	0.55
33:BM:106:VAL:C	33:BM:107:LYS:HG3	2.26	0.55
34:BN:33:TYR:O	34:BN:104:MET:HA	2.06	0.55
34:BN:23:LYS:HG2	34:BN:39:GLU:OE2	2.06	0.55
37:BQ:55:ILE:HB	37:BQ:71:ILE:HG12	1.88	0.55
44:BX:47:ALA:H	44:BX:75:GLY:HA3	1.72	0.55
1:CA:1102:A:H2	2:CB:104:ASN:ND2	1.93	0.55
1:CA:112:G:H1	1:CA:315:A:H61	1.55	0.55
1:CA:1256:A:N1	1:CA:1278:U:H1'	2.21	0.55
1:CA:436:C:H4'	4:CD:156:GLU:N	2.21	0.55
2:CB:74:LYS:HD3	2:CB:165:VAL:HG11	1.88	0.55
3:CC:52:LEU:H	3:CC:52:LEU:HD23	1.70	0.55
4:CD:127:THR:HB	4:CD:147:ALA:HB3	1.87	0.55
1:CA:18:C:OP1	5:CE:14:ARG:NH1	2.37	0.55
9:CI:48:GLU:HA	9:CI:51:ARG:HD3	1.89	0.55
16:CP:2:VAL:HG23	16:CP:22:THR:O	2.06	0.55
8:CH:91:ARG:O	17:CQ:34:LYS:HB3	2.06	0.55
22:DB:2351:G:O2'	49:D3:47:HIS:NE2	2.33	0.55
22:DB:659:G:N2	51:D5:46:LYS:NZ	2.53	0.55
23:DA:44:C:N4	23:DA:47:A:H61	2.04	0.55
22:DB:1249:G:H2'	22:DB:1250:A:H8	1.71	0.55
22:DB:1312:G:H1	22:DB:1657:A:H5''	1.72	0.55
22:DB:1992:G:C1'	35:DO:105:GLY:CA	2.84	0.55
22:DB:2007:G:O2'	31:DK:103:TYR:CE2	2.58	0.55
22:DB:2301:A:H2'	22:DB:2302:G:O4'	2.06	0.55
22:DB:2329:C:P	51:D5:42:ARG:CD	2.80	0.55
22:DB:2492:G:C5'	22:DB:2493:U:OP2	2.55	0.55
22:DB:1989:C:H1'	22:DB:2798:A:H1'	1.89	0.55
22:DB:425:A:C5	22:DB:2391:A:N3	2.75	0.55
22:DB:425:A:C6	22:DB:2391:A:C1'	2.90	0.55
22:DB:547:U:C4'	31:DK:30:LYS:HB2	2.37	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:DB:568:G:HO3'	22:DB:569:C:P	2.27	0.55
22:DB:625:A:H4'	26:DF:38:ARG:HE	1.71	0.55
22:DB:1674:C:C5'	25:DE:134:TRP:CG	2.89	0.55
28:DH:33:LEU:HD11	28:DH:74:ASN:HD22	1.71	0.55
28:DH:7:GLN:HB3	28:DH:8:PRO:HD3	1.88	0.55
22:DB:2023:C:P	31:DK:132:PHE:HD2	2.28	0.55
32:DL:76:ARG:HB3	32:DL:90:ARG:HH22	1.71	0.55
34:DN:33:TYR:O	34:DN:104:MET:HA	2.07	0.55
34:DN:32:ASP:OD2	34:DN:106:GLU:HG3	2.07	0.55
22:DB:2669:C:H42	35:DO:18:VAL:CG1	2.19	0.55
36:DP:42:ILE:O	36:DP:51:LEU:HD23	2.07	0.55
40:DT:62:ARG:HH11	40:DT:64:ALA:HB2	1.71	0.55
42:DV:96:LYS:HE2	42:DV:106:VAL:HG21	1.88	0.55
1:EA:1158:C:O2'	2:EB:133:LYS:HD2	2.06	0.55
1:EA:1273:G:O5'	1:IA:1265:G:H4'	1.99	0.55
1:EA:369:C:H2'	1:EA:370:C:H6	1.71	0.55
1:EA:509:A:H2'	1:EA:510:A:C8	2.42	0.55
1:EA:586:C:C5'	8:EH:91:ARG:CB	2.84	0.55
1:EA:436:C:O3'	4:ED:155:LEU:HD22	2.06	0.55
1:EA:641:U:C1'	8:EH:115:SER:C	2.63	0.55
1:EA:392:G:O5'	16:EP:13:HIS:CB	2.45	0.55
17:EQ:21:VAL:HG23	17:EQ:43:LEU:HA	1.88	0.55
49:F3:15:SER:O	49:F3:50:PHE:HA	2.07	0.55
22:FB:1172:U:H2'	22:FB:1173:G:C8	2.42	0.55
22:FB:1290:A:C4	35:FO:24:GLN:HA	2.42	0.55
22:FB:1503:G:H2'	22:FB:1504:G:H4'	1.88	0.55
22:FB:1636:G:H5'	50:F4:1:MET:HE2	0.56	0.55
22:FB:1669:A:OP1	35:FO:39:THR:HG21	2.06	0.55
22:FB:1829:C:O4'	22:FB:1911:A:C1'	2.54	0.55
22:FB:419:G:C5'	53:F7:1:MET:HE3	2.37	0.55
22:FB:2057:U:P	24:FD:229:VAL:N	2.79	0.55
22:FB:2708:U:H5''	25:FE:21:ILE:HD11	1.84	0.55
22:FB:2708:U:C5'	25:FE:21:ILE:HD12	2.26	0.55
22:FB:1257:U:HO2'	26:FF:28:HIS:HE2	1.55	0.55
28:FH:164:PHE:HB2	28:FH:167:GLU:OE1	2.07	0.55
31:FK:64:GLY:HA2	31:FK:70:PHE:CE2	2.41	0.55
35:FO:28:LEU:HD12	35:FO:34:ILE:HG13	1.89	0.55
36:FP:42:ILE:O	36:FP:51:LEU:HD23	2.07	0.55
38:FR:75:ASN:HB3	38:FR:79:PHE:HB2	1.89	0.55
39:FS:23:GLU:HG3	39:FS:91:THR:HB	1.89	0.55
39:FS:32:LYS:HD3	39:FS:63:HIS:O	2.07	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:GA:1319:A:N6	1:GA:1361:G:H21	2.05	0.55
1:GA:133:U:H4'	1:GA:325:A:H1'	1.89	0.55
1:GA:1346:A:H4'	1:GA:1347:G:O5'	2.06	0.55
1:GA:1392:G:H2'	1:GA:1393:U:O4'	2.07	0.55
1:GA:279:A:H5''	1:GA:280:C:H2'	1.87	0.55
9:GI:31:GLN:HB3	9:GI:36:TYR:HB2	1.88	0.55
19:GS:39:THR:HA	19:GS:69:HIS:O	2.07	0.55
47:H1:2:GLN:C	47:H1:55:ARG:HE	2.10	0.55
50:H4:3:ARG:HG3	50:H4:4:THR:HG22	1.88	0.55
51:H5:3:LYS:HE3	51:H5:5:LYS:HE3	1.89	0.55
22:HB:1166:A:C2	22:HB:1168:G:O4'	2.60	0.55
22:HB:1788:C:H5'	24:HD:254:THR:HA	1.89	0.55
22:HB:1725:C:HO2'	22:HB:2835:A:H1'	1.71	0.55
22:HB:539:A:OP2	31:HK:139:ARG:HG3	2.05	0.55
22:HB:643:A:H2	22:HB:2382:C:O4'	1.90	0.55
24:HD:63:ARG:HH22	24:HD:88:ARG:HD3	1.71	0.55
27:HG:8:TYR:HA	27:HG:12:VAL:CG2	2.36	0.55
22:HB:1087:C:H4'	30:HJ:90:THR:OG1	2.06	0.55
31:HK:94:LYS:HZ3	31:HK:94:LYS:N	2.04	0.55
22:HB:818:G:C5'	33:HM:42:GLY:N	2.67	0.55
22:HB:1307:U:C2'	35:HO:23:ALA:HB2	2.34	0.55
35:HO:59:ASP:H	35:HO:63:ARG:NE	2.05	0.55
36:HP:8:ARG:NH1	36:HP:9:ARG:HH11	2.05	0.55
39:HS:20:ILE:HD12	39:HS:20:ILE:H	1.71	0.55
1:IA:1318:A:O3'	19:IS:5:LEU:CD1	2.44	0.55
1:IA:1347:G:H2'	1:IA:1373:G:C6	2.42	0.55
1:IA:246:A:C4'	17:IQ:100:LYS:CG	2.71	0.55
2:IB:97:TRP:CH2	2:IB:173:ALA:HB2	2.42	0.55
4:ID:149:ALA:HB3	4:ID:152:SER:OG	2.07	0.55
4:ID:201:GLN:HE22	5:IE:99:GLY:HA3	1.60	0.55
8:IH:38:ILE:HA	8:IH:41:ARG:NH1	2.21	0.55
1:IA:375:U:H5'	16:IP:17:TYR:CZ	2.42	0.55
16:IP:2:VAL:HG23	16:IP:22:THR:O	2.06	0.55
6:IF:43:LEU:CD1	18:IR:35:ARG:HD2	2.34	0.55
1:IA:958:A:O4'	19:IS:55:LYS:HD3	2.07	0.55
1:IA:186:C:H5'	20:IT:81:LYS:HE2	1.86	0.55
22:JB:15:G:O3'	48:J2:17:ASP:C	2.45	0.55
53:J7:50:GLU:HG3	53:J7:190:ILE:HD13	1.87	0.55
22:JB:1042:G:H4'	52:J6:8:LYS:HZ1	1.70	0.55
22:JB:1377:G:H21	22:JB:1380:C:H5	1.53	0.55
22:JB:1398:G:N3	22:JB:1415:C:O2	2.39	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:JB:1781:C:OP1	24:JD:220:HIS:HA	2.04	0.55
22:JB:226:C:C2'	22:JB:2373:C:C1'	2.57	0.55
22:JB:10:A:C6	22:JB:2608:A:N9	2.75	0.55
22:JB:3876:A:C4	53:J7:43:LYS:O	2.58	0.55
22:JB:396:U:H3'	22:JB:398:C:OP2	2.07	0.55
22:JB:946:U:C2'	22:JB:947:C:C6	2.89	0.55
22:JB:1812:U:O4	24:JD:199:ALA:C	2.44	0.55
25:JE:4:ILE:HG13	25:JE:197:VAL:HA	1.88	0.55
25:JE:39:ALA:O	25:JE:40:GLN:HB2	2.06	0.55
13:IM:72:ALA:CB	27:JG:115:ARG:NH1	2.68	0.55
34:JN:98:VAL:O	34:JN:99:LYS:HD3	2.07	0.55
35:JO:108:VAL:HG22	35:JO:110:MET:SD	2.46	0.55
40:JT:48:LYS:HA	40:JT:48:LYS:HE2	1.88	0.55
22:JB:63:A:C2	41:JU:62:ARG:CZ	2.89	0.55
45:JY:48:ARG:HH11	45:JY:52:GLN:NE2	2.04	0.55
1:AA:666:G:C1'	15:AO:51:HIS:CD2	2.74	0.55
1:AA:739:C:O2'	15:AO:42:HIS:HA	2.07	0.55
2:AB:74:LYS:HD3	2:AB:165:VAL:HG11	1.88	0.55
2:AB:55:PHE:HA	2:AB:58:ILE:HD12	1.88	0.55
3:AC:12:LEU:HA	3:AC:16:ARG:O	2.06	0.55
4:AD:10:ARG:O	4:AD:14:ARG:HB2	2.06	0.55
4:AD:67:ILE:HG22	4:AD:114:ARG:HH12	1.72	0.55
5:AE:133:TYR:O	5:AE:137:GLU:HG2	2.07	0.55
6:AF:48:LEU:HD22	18:AR:77:GLY:HA3	1.87	0.55
7:AG:26:PHE:O	7:AG:30:ILE:HG13	2.06	0.55
1:AA:669:U:P	15:AO:48:LYS:HZ3	2.29	0.55
19:AS:38:SER:O	19:AS:71:LEU:HG	2.07	0.55
22:BB:2398:U:P	51:B5:31:HIS:O	2.64	0.55
51:B5:3:LYS:HE3	51:B5:5:LYS:HE3	1.88	0.55
53:B7:50:GLU:HG3	53:B7:190:ILE:HD13	1.87	0.55
22:BB:1136:G:O4'	52:B6:4:ARG:CB	2.43	0.55
22:BB:1312:G:H1	22:BB:1657:A:H5''	1.72	0.55
22:BB:2224:U:H1'	22:BB:2414:A:H5''	1.89	0.55
22:BB:2328:G:H3'	51:B5:42:ARG:CD	2.27	0.55
22:BB:2614:A:C4'	25:BE:77:ILE:HD12	2.36	0.55
22:BB:888:G:N3	43:BW:165:GLU:CG	2.51	0.55
22:BB:8:A:H5''	31:BK:39:GLN:HE22	1.72	0.55
24:BD:157:ARG:HB3	24:BD:202:LYS:HZ2	1.71	0.55
30:BJ:91:PRO:HG2	30:BJ:133:SER:O	2.07	0.55
31:BK:64:GLY:HA2	31:BK:70:PHE:CE2	2.41	0.55
34:BN:32:ASP:OD2	34:BN:106:GLU:HG3	2.07	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BP:69:ALA:HB2	36:BP:102:ALA:HB1	1.88	0.55
41:BU:67:ARG:NH2	41:BU:69:ILE:HB	2.21	0.55
1:CA:258:G:OP1	20:CT:83:ARG:NE	2.39	0.55
1:CA:435:C:HO2'	4:CD:156:GLU:C	2.05	0.55
1:CA:438:G:OP1	4:CD:125:HIS:NE2	2.40	0.55
1:CA:453:A:H2'	1:CA:454:C:C6	2.41	0.55
1:CA:550:G:H2'	1:CA:551:U:C6	2.42	0.55
1:CA:951:G:H2'	13:CM:126:LYS:OXT	2.05	0.55
2:CB:134:GLU:O	2:CB:138:LEU:HG	2.06	0.55
4:CD:155:LEU:HB2	4:CD:158:ILE:HG13	1.88	0.55
1:CA:15:G:C6	5:CE:19:MET:HB2	2.42	0.55
5:CE:76:ILE:HG13	5:CE:93:PRO:HB3	1.87	0.55
1:CA:1229:A:N6	13:CM:120:LYS:CB	2.69	0.55
1:CA:953:G:N1	13:CM:123:ALA:O	2.40	0.55
13:CM:3:ARG:H	13:CM:3:ARG:HD2	1.72	0.55
50:D4:3:ARG:HG3	50:D4:4:THR:HG22	1.88	0.55
22:DB:1172:U:H2'	22:DB:1173:G:C8	2.42	0.55
22:DB:1237:G:H5''	39:DS:87:ARG:HE	1.50	0.55
22:DB:158:A:N3	22:DB:158:A:H2'	2.21	0.55
22:DB:1984:A:H2'	22:DB:1985:G:C8	2.42	0.55
22:DB:2301:A:H3'	22:DB:2302:G:C8	2.41	0.55
22:DB:2328:G:C5'	51:D5:42:ARG:HH11	2.17	0.55
22:DB:2500:C:O2	22:DB:2543:A:N1	2.40	0.55
22:DB:2752:C:H4'	25:DE:166:THR:CB	2.23	0.55
22:DB:810:U:H2'	22:DB:811:G:O4'	2.07	0.55
24:DD:63:ARG:HH22	24:DD:88:ARG:HD3	1.71	0.55
28:DH:6:LYS:HB2	28:DH:6:LYS:NZ	2.22	0.55
30:DJ:42:ASN:N	30:DJ:45:THR:HB	2.22	0.55
22:DB:2463:G:O4'	34:DN:121:LEU:CD1	2.54	0.55
36:DP:8:ARG:NH1	36:DP:9:ARG:HE	2.03	0.55
1:CA:1433:A:O4'	37:DQ:116:ARG:NE	2.38	0.55
38:DR:28:ARG:HA	38:DR:31:GLN:CG	2.37	0.55
22:DB:337:G:O2'	42:DV:9:HIS:CD2	2.56	0.55
22:DB:1011:A:H5'	46:DZ:7:ARG:HE	1.71	0.55
1:EA:1148:U:C2'	9:EI:66:ARG:HD3	2.35	0.55
1:EA:229:U:O2'	16:EP:23:ASP:CG	2.40	0.55
1:EA:328:C:H4'	1:EA:329:A:O5'	2.07	0.55
1:EA:643:C:N1	8:EH:113:SER:HB3	2.21	0.55
1:EA:864:A:O3'	1:EA:1078:U:N3	2.37	0.55
2:EB:97:TRP:CH2	2:EB:173:ALA:HB2	2.42	0.55
3:EC:83:ARG:O	3:EC:87:LEU:HG	2.07	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:EE:44:GLY:HA3	5:EE:58:ALA:HB1	1.89	0.55
9:EI:31:GLN:HB3	9:EI:36:TYR:HB2	1.88	0.55
10:EJ:55:LYS:NZ	10:EJ:55:LYS:HB2	2.21	0.55
12:EL:100:ILE:HG22	12:EL:101:VAL:H	1.72	0.55
14:EN:27:CYS:HG	14:EN:42:ILE:HD12	1.70	0.55
15:EO:70:LEU:HD12	15:EO:77:ARG:HB2	1.89	0.55
22:FB:409:G:C5'	47:F1:39:VAL:HG11	2.35	0.55
22:FB:1636:G:O4'	50:F4:1:MET:SD	2.65	0.55
22:FB:1629:G:C4'	50:F4:3:ARG:CZ	2.80	0.55
22:FB:1629:G:C4'	50:F4:3:ARG:NE	2.69	0.55
23:FA:44:C:H4'	27:FG:64:LYS:HZ2	1.71	0.55
23:FA:44:C:N4	23:FA:47:A:H61	2.04	0.55
23:FA:45:C:C2'	23:FA:46:G:H5'	2.36	0.55
22:FB:1103:C:H42	22:FB:1111:C:N4	2.04	0.55
22:FB:1234:C:H5''	39:FS:68:LYS:CE	2.37	0.55
22:FB:1393:G:N3	22:FB:1393:G:H2'	2.22	0.55
22:FB:2462:C:HO2'	34:FN:50:ALA:HB1	1.55	0.55
22:FB:2733:A:C2	52:F6:15:LYS:HD3	2.42	0.55
22:FB:338:G:C2	42:FV:77:HIS:NE2	2.58	0.55
22:FB:3875:A:H8	53:F7:43:LYS:HG2	0.92	0.55
22:FB:456:C:P	38:FR:2:PRO:HG2	2.47	0.55
22:FB:497:C:O2	40:FT:78:ASN:HA	2.06	0.55
22:FB:593:C:O2'	26:FF:82:VAL:HG12	2.06	0.55
22:FB:680:U:H5''	33:FM:48:PHE:CZ	2.42	0.55
25:FE:8:LYS:HD2	25:FE:192:ASN:ND2	2.22	0.55
27:FG:31:ILE:HD11	27:FG:34:ILE:HG23	1.88	0.55
28:FH:125:VAL:O	28:FH:126:PRO:C	2.44	0.55
30:FJ:53:ILE:HA	30:FJ:72:PRO:HB3	1.89	0.55
22:FB:548:G:C2'	31:FK:33:ILE:HG23	2.36	0.55
22:FB:2686:C:O4'	35:FO:64:ARG:CG	2.55	0.55
25:FE:51:TYR:OH	37:FQ:3:THR:CA	2.54	0.55
38:FR:91:ASN:OD1	39:FS:10:LYS:CG	2.44	0.55
43:FW:94:VAL:HG12	43:FW:96:VAL:HG23	1.88	0.55
45:FY:48:ARG:HA	45:FY:51:ALA:HB3	1.89	0.55
46:FZ:45:LYS:HA	46:FZ:48:LYS:HZ3	1.72	0.55
1:GA:1256:A:N1	1:GA:1278:U:H1'	2.21	0.55
1:GA:1347:G:HO2'	1:GA:1348:U:H6	1.55	0.55
1:GA:1453:G:O2'	1:GA:1454:G:H5'	2.07	0.55
1:GA:328:C:H4'	1:GA:329:A:O5'	2.07	0.55
1:GA:375:U:H5'	16:GP:17:TYR:CZ	2.37	0.55
1:GA:509:A:H2'	1:GA:510:A:C8	2.42	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:GA:876:G:O2'	8:GH:4:ASP:CG	2.45	0.55
2:GB:97:TRP:CH2	2:GB:173:ALA:HB2	2.42	0.55
3:GC:83:ARG:O	3:GC:87:LEU:HG	2.07	0.55
4:GD:10:ARG:HA	4:GD:40:PRO:HG3	1.87	0.55
1:GA:363:A:C2	12:GL:32:PHE:CE2	2.94	0.55
15:GO:75:PRO:HA	15:GO:78:TYR:HB3	1.89	0.55
1:GA:450:G:HO2'	16:GP:15:PRO:HG3	1.66	0.55
22:HB:416:U:O4	53:H7:217:ARG:HD3	2.06	0.55
53:H7:63:ARG:HG2	53:H7:82:LYS:HZ3	1.71	0.55
23:HA:58:G:H4'	23:HA:59:A:H8	1.72	0.55
22:HB:1146:G:O2'	22:HB:2021:G:H4'	2.07	0.55
22:HB:1208:A:H2'	22:HB:1209:G:O4'	2.06	0.55
22:HB:1377:G:H21	22:HB:1380:C:H5	1.54	0.55
22:HB:1770:U:OP1	22:HB:1771:A:H4'	2.06	0.55
22:HB:1896:A:H2'	22:HB:1898:U:C5	2.40	0.55
1:GA:1495:U:HO2'	22:HB:1902:A:N6	2.03	0.55
22:HB:1829:C:O4'	22:HB:1911:A:H4'	2.07	0.55
22:HB:2224:U:H1'	22:HB:2414:A:H5''	1.89	0.55
22:HB:396:U:H3'	22:HB:398:C:OP2	2.07	0.55
27:HG:132:ILE:CG1	27:HG:153:ASP:HA	2.36	0.55
28:HH:53:GLU:HG2	28:HH:55:PRO:HD3	1.87	0.55
34:HN:98:VAL:O	34:HN:99:LYS:HD3	2.07	0.55
38:HR:18:LEU:HD13	38:HR:18:LEU:O	2.06	0.55
38:HR:28:ARG:HA	38:HR:31:GLN:CG	2.37	0.55
1:IA:112:G:H1	1:IA:315:A:H61	1.55	0.55
1:IA:1256:A:N1	1:IA:1278:U:H1'	2.21	0.55
1:IA:133:U:H4'	1:IA:325:A:H1'	1.89	0.55
1:IA:1392:G:H2'	1:IA:1393:U:O4'	2.07	0.55
1:IA:13:U:H1'	1:IA:914:A:H5''	1.89	0.55
1:IA:975:A:O2'	14:IN:31:ARG:O	2.14	0.55
15:IO:75:PRO:HA	15:IO:78:TYR:HB3	1.89	0.55
1:IA:392:G:C5'	16:IP:13:HIS:H	2.19	0.55
19:IS:39:THR:HA	19:IS:69:HIS:O	2.07	0.55
1:IA:222:U:O2'	20:IT:68:LYS:HE3	2.06	0.55
22:JB:2265:A:C5	49:J3:31:THR:CB	2.89	0.55
22:JB:3121:G:OP1	53:J7:129:GLY:HA3	2.07	0.55
53:J7:13:LYS:NZ	53:J7:177:GLU:HA	2.22	0.55
22:JB:1208:A:H2'	22:JB:1209:G:O4'	2.06	0.55
22:JB:1427:G:H2'	22:JB:1428:G:H5'	1.89	0.55
22:JB:1984:A:H2'	22:JB:1985:G:C8	2.42	0.55
22:JB:2002:A:OP2	48:J2:8:LYS:CB	2.54	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:JB:218:A:OP2	51:J5:63:PRO:CB	2.54	0.55
22:JB:225:G:H1'	22:JB:2412:A:N6	2.18	0.55
22:JB:2260:C:C4'	22:JB:2368:G:H21	2.12	0.55
22:JB:361:G:H2'	22:JB:362:C:C5	2.41	0.55
24:JD:225:ALA:H	24:JD:233:HIS:CE1	2.25	0.55
22:JB:704:G:H5'	24:JD:44:ASN:ND2	2.22	0.55
36:JP:69:ALA:HB2	36:JP:102:ALA:HB1	1.88	0.55
31:JK:29:VAL:CG2	38:JR:97:ASP:HB3	2.36	0.55
22:JB:491:A:H5'	42:JV:72:ARG:CG	2.33	0.55
22:JB:339:U:O2'	42:JV:77:HIS:C	2.45	0.55
1:AA:1392:G:H2'	1:AA:1393:U:O4'	2.07	0.55
1:AA:35:G:H21	12:AL:118:SER:CB	2.18	0.55
1:AA:453:A:H2'	1:AA:454:C:C6	2.41	0.55
1:AA:637:G:H2'	1:AA:638:G:H8	1.71	0.55
4:AD:152:SER:O	4:AD:158:ILE:HD13	2.06	0.55
6:AF:20:ALA:HB1	6:AF:23:LYS:HD3	1.87	0.55
8:AH:89:PRO:HA	8:AH:92:ARG:HH11	1.72	0.55
1:AA:1249:C:H4'	9:AI:73:GLN:HE22	1.72	0.55
10:AJ:39:PRO:HA	10:AJ:70:ARG:NH1	2.21	0.55
13:AM:86:CYS:HB3	13:AM:92:HIS:HB2	1.87	0.55
1:AA:254:G:C5	17:AQ:16:GLN:HB3	2.33	0.55
18:AR:47:THR:HG22	18:AR:48:GLY:H	1.70	0.55
22:BB:2265:A:N1	49:B3:38:LYS:CE	2.53	0.55
22:BB:1090:C:H1'	30:BJ:132:ARG:NH1	2.22	0.55
22:BB:1036:G:C1'	22:BB:1145:C:H4'	2.14	0.55
22:BB:1393:G:H2'	22:BB:1393:G:N3	2.22	0.55
22:BB:1761:G:H4'	22:BB:1920:A:O2'	2.07	0.55
22:BB:2337:A:H2'	22:BB:2337:A:N3	2.21	0.55
22:BB:203:G:H4'	22:BB:234:C:H5''	1.89	0.55
22:BB:2724:G:N3	28:BH:143:GLN:OE1	2.38	0.55
22:BB:2768:C:C2	22:BB:2866:A:H2	2.25	0.55
22:BB:505:G:O4'	40:BT:78:ASN:CG	2.45	0.55
22:BB:702:A:H2'	22:BB:703:A:H8	1.72	0.55
22:BB:810:U:H2'	22:BB:811:G:O4'	2.07	0.55
30:BJ:119:SER:HB2	30:BJ:122:ALA:HB3	1.89	0.55
32:BL:11:ALA:HB2	32:BL:19:ILE:HG21	1.87	0.55
34:BN:12:LYS:HZ2	34:BN:12:LYS:HB3	1.72	0.55
38:BR:28:ARG:HA	38:BR:31:GLN:CG	2.37	0.55
34:BN:106:GLU:CD	43:BW:115:ILE:HA	2.27	0.55
41:BU:46:PHE:CB	45:BY:23:LYS:HZ3	2.20	0.55
1:CA:1305:G:N2	1:CA:1331:G:H2'	2.21	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:509:A:H2'	1:CA:510:A:C8	2.42	0.55
3:CC:12:LEU:HA	3:CC:16:ARG:O	2.06	0.55
5:CE:44:GLY:HA3	5:CE:58:ALA:HB1	1.89	0.55
12:CL:100:ILE:HG22	12:CL:101:VAL:H	1.72	0.55
15:CO:45:VAL:HB	15:CO:46:HIS:HD1	1.71	0.55
1:CA:667:G:C1'	15:CO:51:HIS:HB2	2.36	0.55
1:CA:761:G:C4	17:CQ:104:LYS:N	2.74	0.55
49:D3:38:LYS:HA	49:D3:38:LYS:NZ	2.21	0.55
51:D5:3:LYS:HE3	51:D5:5:LYS:HE3	1.88	0.55
22:DB:1004:A:C6	22:DB:1173:G:N1	2.75	0.55
22:DB:1142:G:O4'	31:DK:111:LYS:CB	2.54	0.55
22:DB:1312:G:H22	22:DB:1657:A:H5'	1.72	0.55
22:DB:2039:G:H21	48:D2:3:LYS:N	2.05	0.55
22:DB:2292:C:O3'	27:DG:88:LYS:CD	2.40	0.55
22:DB:203:G:H4'	22:DB:234:C:H5''	1.89	0.55
22:DB:2573:C:H2'	22:DB:2574:G:C8	2.42	0.55
22:DB:2511:G:N2	22:DB:2642:G:O2'	2.40	0.55
22:DB:2727:G:O6	22:DB:2734:U:H3'	2.07	0.55
22:DB:490:A:H2'	22:DB:492:G:H5''	1.88	0.55
22:DB:542:A:N7	22:DB:570:G:C2	2.74	0.55
27:DG:136:LEU:HG	27:DG:138:PHE:CD2	2.34	0.55
28:DH:6:LYS:HE3	28:DH:69:ARG:HB3	1.89	0.55
22:DB:3093:C:C4'	29:DI:20:VAL:O	2.54	0.55
31:DK:126:VAL:O	31:DK:127:ILE:HB	2.07	0.55
35:DO:76:VAL:HA	35:DO:79:VAL:HG12	1.89	0.55
37:DQ:12:LEU:HG	37:DQ:16:ILE:HG13	1.88	0.55
39:DS:32:LYS:HD3	39:DS:63:HIS:O	2.06	0.55
22:DB:512:A:C2'	40:DT:15:LYS:NZ	2.70	0.55
41:DU:6:ILE:HG13	41:DU:37:GLU:HB3	1.88	0.55
1:EA:1284:C:H3'	1:EA:1285:A:C8	2.42	0.55
1:EA:1347:G:H2'	1:EA:1373:G:C6	2.42	0.55
1:EA:922:G:C2	1:EA:1396:A:C6	2.89	0.55
1:EA:637:G:H2'	1:EA:638:G:H8	1.72	0.55
1:EA:845:A:H4'	18:ER:23:LYS:NZ	2.21	0.55
3:EC:142:MET:HA	3:EC:145:GLY:O	2.07	0.55
9:EI:48:GLU:N	9:EI:49:PRO:HD2	2.22	0.55
12:EL:57:LYS:HA	12:EL:67:THR:HG23	1.89	0.55
20:ET:34:LYS:O	20:ET:38:LYS:HG3	2.06	0.55
22:FB:113:C:H1'	22:FB:125:A:C4'	2.36	0.55
22:FB:1312:G:H1	22:FB:1657:A:H5''	1.72	0.55
22:FB:1670:G:O5'	35:FO:9:LYS:HE2	2.06	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:FB:2324:G:C4'	49:F3:40:TYR:HE1	2.17	0.55
22:FB:2658:A:O2'	25:FE:187:ALA:C	2.44	0.55
22:FB:2727:G:O6	22:FB:2734:U:H3'	2.07	0.55
22:FB:2753:C:H2'	22:FB:2754:C:O4'	2.06	0.55
22:FB:681:A:N1	22:FB:683:A:H2'	2.21	0.55
22:FB:702:A:H2'	22:FB:703:A:H8	1.72	0.55
27:FG:8:TYR:HA	27:FG:12:VAL:CG2	2.36	0.55
29:FI:49:GLN:N	29:FI:51:ARG:HH12	2.04	0.55
22:FB:2372:A:C4'	33:FM:59:ARG:HB3	2.36	0.55
35:FO:76:VAL:HA	35:FO:79:VAL:HG12	1.89	0.55
36:FP:69:ALA:HB2	36:FP:102:ALA:HB1	1.88	0.55
37:FQ:59:GLY:HA2	37:FQ:105:TYR:HA	1.88	0.55
22:FB:529:U:C5'	40:FT:39:ARG:HG3	2.35	0.55
22:FB:2239:C:O4'	44:FX:14:ARG:NH1	2.40	0.55
22:FB:2344:G:OP1	44:FX:39:ARG:O	2.24	0.55
46:FZ:6:VAL:HB	46:FZ:50:LEU:HB3	1.88	0.55
1:GA:112:G:H1	1:GA:315:A:H61	1.55	0.55
1:GA:1294:G:H2'	1:GA:1295:G:C8	2.42	0.55
1:GA:676:A:H4'	11:GK:115:PRO:CB	2.37	0.55
2:GB:118:LEU:HD22	2:GB:142:LEU:HD21	1.87	0.55
1:GA:543:C:OP1	4:GD:10:ARG:NH2	2.40	0.55
1:GA:16:A:C4'	5:GE:15:ARG:HB3	2.35	0.55
7:GG:50:ILE:HG21	7:GG:58:PRO:HA	1.88	0.55
1:GA:1060:C:P	10:GJ:51:ARG:CB	2.95	0.55
16:GP:55:ARG:NH2	16:GP:58:TYR:HB2	2.21	0.55
48:H2:4:HIS:O	48:H2:5:PRO:C	2.44	0.55
22:HB:1119:U:O3'	22:HB:1120:C:OP1	2.22	0.55
22:HB:51:A:N7	22:HB:116:A:N1	2.55	0.55
22:HB:160:C:H2'	22:HB:194:G:H22	1.72	0.55
22:HB:1373:G:H22	22:HB:2194:A:H1'	1.70	0.55
22:HB:2263:C:H2'	22:HB:2264:C:O4'	2.07	0.55
22:HB:2301:A:H2'	22:HB:2302:G:O4'	2.06	0.55
22:HB:2334:C:H5'	44:HX:21:LEU:HG	1.88	0.55
22:HB:2364:C:O2	44:HX:69:PHE:CZ	2.50	0.55
22:HB:2372:A:O3'	33:HM:62:LYS:HA	2.06	0.55
22:HB:2398:U:O4'	49:H3:21:TYR:CE2	2.59	0.55
22:HB:2543:A:H61	22:HB:2625:U:C1'	2.17	0.55
22:HB:2573:C:H2'	22:HB:2574:G:C8	2.42	0.55
22:HB:2504:G:H4'	22:HB:2721:A:C2	2.42	0.55
22:HB:1:G:N2	22:HB:2877:A:H61	1.77	0.55
22:HB:48:A:N1	22:HB:153:A:C6	2.74	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:HB:544:U:P	38:HR:22:LYS:CD	2.75	0.55
22:HB:611:C:O2'	22:HB:614:G:H5''	2.06	0.55
22:HB:236:C:O4'	22:HB:632:A:H4'	2.07	0.55
22:HB:848:A:C4'	22:HB:2337:A:C1'	2.85	0.55
30:HJ:115:LEU:HD12	30:HJ:117:ALA:HB3	1.87	0.55
22:HB:966:A:P	34:HN:18:MET:CE	2.94	0.55
40:HT:66:GLU:O	40:HT:67:PRO:C	2.44	0.55
22:HB:2310:G:C4'	44:HX:70:ILE:O	2.50	0.55
1:IA:1149:C:H2'	1:IA:1150:U:O4'	2.06	0.55
1:IA:1226:C:C1'	19:IS:80:TYR:CD2	2.90	0.55
1:EA:1265:G:C4'	1:IA:1272:G:H2'	2.18	0.55
1:IA:1294:G:H2'	1:IA:1295:G:C8	2.42	0.55
1:IA:1320:C:O2'	13:IM:87:TYR:HB3	2.07	0.55
4:ID:10:ARG:O	4:ID:14:ARG:HB2	2.06	0.55
10:IJ:63:PHE:CE2	14:IN:48:ALA:HB1	2.41	0.55
1:IA:1320:C:C1'	19:IS:73:GLU:H	1.92	0.55
22:JB:1629:G:H5'	50:J4:3:ARG:CG	2.35	0.55
22:JB:1265:G:C4'	38:JR:32:TYR:OH	2.54	0.55
22:JB:1398:G:C2	22:JB:1415:C:C2	2.95	0.55
22:JB:1503:G:H2'	22:JB:1504:G:H4'	1.88	0.55
22:JB:2263:C:H2'	22:JB:2264:C:O4'	2.07	0.55
22:JB:2307:A:H2'	22:JB:2308:A:C8	2.41	0.55
22:JB:2716:G:C6	22:JB:2748:C:N4	2.74	0.55
22:JB:2671:C:H1'	22:JB:2822:U:H1'	1.89	0.55
22:JB:2824:C:C5	37:JQ:101:ARG:HD2	2.40	0.55
22:JB:611:C:O2'	22:JB:614:G:H5''	2.06	0.55
25:JE:92:ASN:H	25:JE:182:ILE:HD11	1.72	0.55
28:JH:33:LEU:HG	28:JH:75:ALA:HB2	1.89	0.55
22:JB:633:G:C3'	33:JM:98:LEU:HD21	2.32	0.55
22:JB:2686:C:O2	35:JO:68:GLN:HG2	2.07	0.55
36:JP:14:ARG:CZ	36:JP:17:VAL:HG11	2.36	0.55
36:JP:42:ILE:O	36:JP:51:LEU:HD23	2.07	0.55
36:JP:8:ARG:NH1	36:JP:9:ARG:HH11	2.05	0.55
38:JR:28:ARG:HA	38:JR:31:GLN:CG	2.37	0.55
39:JS:32:LYS:HD3	39:JS:63:HIS:O	2.07	0.55
38:JR:87:ASN:CB	39:JS:52:GLY:HA3	2.36	0.55
22:JB:1351:G:O2'	41:JU:15:LYS:CB	2.53	0.55
41:JU:67:ARG:NH2	41:JU:69:ILE:HB	2.21	0.55
42:JV:48:VAL:HG13	42:JV:50:GLY:N	2.22	0.55
22:JB:868:U:O3'	44:JX:57:HIS:CE1	2.55	0.55
45:JY:48:ARG:HA	45:JY:51:ALA:HB3	1.89	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1319:A:N6	1:AA:1361:G:H21	2.05	0.55
1:AA:369:C:H2'	1:AA:370:C:H6	1.71	0.55
1:AA:668:G:C6	15:AO:46:HIS:CE1	2.94	0.55
1:AA:735:C:OP1	18:AR:68:LYS:CE	2.50	0.55
2:AB:136:VAL:HA	2:AB:139:LYS:HB2	1.88	0.55
2:AB:23:ARG:HD3	2:AB:24:TRP:H	1.70	0.55
1:AA:658:G:O3'	15:AO:4:THR:C	2.45	0.55
47:B1:2:GLN:C	47:B1:55:ARG:HE	2.10	0.55
23:BA:47:A:C6	27:BG:90:THR:HG21	2.42	0.55
22:BB:1003:C:N4	22:BB:1173:G:N1	2.54	0.55
22:BB:1044:U:O4	52:B6:15:LYS:CD	2.52	0.55
22:BB:1312:G:H22	22:BB:1657:A:H5'	1.72	0.55
22:BB:2332:G:H21	44:BX:30:VAL:CB	2.20	0.55
22:BB:490:A:H2'	22:BB:492:G:H5''	1.88	0.55
22:BB:681:A:N1	22:BB:683:A:H2'	2.21	0.55
22:BB:887:G:H5'	43:BW:170:SER:CB	2.19	0.55
25:BE:52:ALA:CB	37:BQ:5:ILE:CD1	2.80	0.55
27:BG:136:LEU:HG	27:BG:138:PHE:CD2	2.34	0.55
32:BL:76:ARG:HB3	32:BL:90:ARG:HH22	1.71	0.55
35:BO:28:LEU:HA	35:BO:32:GLY:HA2	1.88	0.55
36:BP:42:ILE:O	36:BP:51:LEU:HD23	2.07	0.55
22:BB:1237:G:HO2'	39:BS:86:HIS:HA	1.61	0.55
42:BV:85:ASP:HB3	42:BV:86:PRO:HD3	1.89	0.55
1:CA:369:C:H2'	1:CA:370:C:H6	1.71	0.55
2:CB:136:VAL:HA	2:CB:139:LYS:HB2	1.88	0.55
4:CD:162:LEU:HD22	4:CD:166:LYS:HA	1.88	0.55
8:CH:36:LEU:O	8:CH:39:LEU:HB2	2.07	0.55
9:CI:17:VAL:HG13	9:CI:62:TYR:O	2.06	0.55
9:CI:49:PRO:O	9:CI:53:VAL:HG22	2.07	0.55
11:CK:87:THR:HG23	11:CK:91:ARG:HH22	1.71	0.55
13:CM:70:LEU:C	13:CM:72:ALA:H	2.11	0.55
1:CA:1358:U:H5''	14:CN:34:TYR:HA	1.87	0.55
17:CQ:45:HIS:O	17:CQ:47:PRO:HD3	2.07	0.55
1:CA:332:G:P	20:CT:9:ASN:N	2.80	0.55
22:DB:2603:G:C1'	48:D2:22:HIS:CE1	2.89	0.55
22:DB:1393:G:N3	22:DB:1393:G:H2'	2.22	0.55
22:DB:2753:C:H2'	22:DB:2754:C:O4'	2.06	0.55
22:DB:2769:C:H2'	22:DB:2867:G:N1	2.21	0.55
22:DB:47:G:N2	22:DB:154:U:OP2	2.40	0.55
22:DB:681:A:N1	22:DB:683:A:H2'	2.21	0.55
24:DD:225:ALA:H	24:DD:233:HIS:CE1	2.25	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:DB:2035:G:C6	25:DE:150:VAL:HG22	2.40	0.55
25:DE:8:LYS:HD2	25:DE:192:ASN:ND2	2.22	0.55
27:DG:138:PHE:O	27:DG:139:PRO:C	2.44	0.55
27:DG:69:LYS:HG2	27:DG:70:ALA:N	2.20	0.55
29:DI:45:THR:HG23	29:DI:49:GLN:OE1	2.07	0.55
30:DJ:91:PRO:HG2	30:DJ:133:SER:O	2.07	0.55
22:DB:2395:C:P	33:DM:62:LYS:C	2.86	0.55
36:DP:14:ARG:CZ	36:DP:17:VAL:HG11	2.36	0.55
38:DR:42:ALA:O	39:DS:75:LYS:CD	2.35	0.55
39:DS:23:GLU:HG3	39:DS:91:THR:HB	1.89	0.55
22:DB:504:G:C3'	40:DT:25:PHE:CE2	2.89	0.55
41:DU:67:ARG:NH2	41:DU:69:ILE:HB	2.21	0.55
22:DB:1325:U:P	41:DU:68:PHE:HE1	2.30	0.55
22:DB:864:C:O3'	46:DZ:42:GLY:O	2.25	0.55
1:EA:1206:G:O2'	3:EC:193:TYR:HB3	2.07	0.55
1:EA:1221:G:C1'	19:ES:54:GLY:HA3	2.36	0.55
1:EA:1320:C:C2	19:ES:36:ARG:HB2	2.41	0.55
1:EA:978:A:H1'	1:EA:1321:C:N4	2.22	0.55
1:EA:1346:A:H4'	1:EA:1347:G:O5'	2.06	0.55
1:EA:1479:C:H2'	1:EA:1480:G:C8	2.41	0.55
1:EA:518:C:H1'	12:EL:51:ALA:CB	2.34	0.55
1:EA:550:G:H2'	1:EA:551:U:C6	2.42	0.55
1:EA:685:G:C5'	11:EK:40:ILE:O	2.55	0.55
4:ED:152:SER:O	4:ED:158:ILE:HD13	2.06	0.55
6:EF:43:LEU:CD1	18:ER:35:ARG:HA	2.37	0.55
1:EA:599:C:OP1	8:EH:99:GLU:HB2	2.07	0.55
3:EC:18:TRP:HH2	14:EN:56:VAL:O	1.89	0.55
15:EO:75:PRO:HA	15:EO:78:TYR:HB3	1.89	0.55
51:F5:13:ARG:HE	51:F5:24:ALA:HA	1.71	0.55
22:FB:1041:G:N2	52:F6:5:SER:HB3	2.16	0.55
22:FB:3866:A:C8	53:F7:195:LYS:HB2	2.41	0.55
22:FB:1173:G:O2'	39:FS:23:GLU:CG	2.51	0.55
22:FB:1674:C:P	25:FE:136:ARG:CB	2.61	0.55
22:FB:2016:A:H2'	22:FB:2019:C:N4	2.22	0.55
22:FB:2263:C:H2'	22:FB:2264:C:O4'	2.07	0.55
22:FB:2301:A:H3'	22:FB:2302:G:C8	2.41	0.55
22:FB:2397:A:H2'	22:FB:2398:U:O4'	2.07	0.55
22:FB:3093:C:H4'	29:FI:21:LYS:HG2	1.88	0.55
22:FB:756:C:C5'	25:FE:130:GLY:N	2.67	0.55
22:FB:61:U:O2	22:FB:89:A:N1	2.40	0.55
22:FB:1516:A:N9	24:FD:98:ALA:HB1	2.22	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:FB:2600:A:O4'	25:FE:158:GLY:C	2.43	0.55
32:FL:76:ARG:HB3	32:FL:90:ARG:HH22	1.70	0.55
33:FM:101:ARG:N	33:FM:101:ARG:HD2	2.22	0.55
22:FB:1670:G:O6	35:FO:11:ASN:C	2.44	0.55
23:FA:49:C:C5'	36:FP:95:LYS:CG	2.78	0.55
38:FR:44:THR:O	39:FS:76:SER:CB	2.35	0.55
34:FN:99:LYS:HA	43:FW:74:ARG:HG3	1.86	0.55
1:GA:1149:C:H2'	1:GA:1150:U:O4'	2.06	0.55
1:GA:413:G:O6	4:GD:32:ALA:HB2	2.07	0.55
3:GC:32:LEU:HG	3:GC:59:ARG:HH22	1.71	0.55
4:GD:149:ALA:HB3	4:GD:152:SER:OG	2.07	0.55
1:GA:675:A:N1	11:GK:116:HIS:N	2.51	0.55
11:GK:87:THR:HG23	11:GK:91:ARG:HH22	1.71	0.55
17:GQ:47:PRO:HG2	17:GQ:73:VAL:HB	1.88	0.55
1:GA:1320:C:C4'	19:GS:3:ARG:CZ	2.72	0.55
22:HB:561:U:H4'	22:HB:1233:A:N1	2.22	0.55
22:HB:1238:A:P	39:HS:87:ARG:HB2	2.47	0.55
22:HB:1704:G:H2'	22:HB:1718:A:H61	1.71	0.55
22:HB:1782:A:OP2	24:HD:221:GLN:HG2	2.06	0.55
22:HB:1810:U:H4'	22:HB:1811:A:H8	1.70	0.55
22:HB:1815:G:P	24:HD:54:ILE:CG1	2.95	0.55
22:HB:1984:A:H2'	22:HB:1985:G:C8	2.42	0.55
22:HB:2209:G:H4'	47:H1:39:VAL:CG2	2.36	0.55
22:HB:2658:A:O5'	25:HE:109:LYS:HG3	2.06	0.55
22:HB:2727:G:O6	22:HB:2734:U:H3'	2.07	0.55
22:HB:2748:C:H5'	31:HK:119:LEU:HD22	1.88	0.55
22:HB:52:A:H2'	22:HB:53:G:O4'	2.07	0.55
22:HB:215:G:O3'	22:HB:617:U:O2'	2.24	0.55
22:HB:702:A:H2'	22:HB:703:A:H8	1.72	0.55
22:HB:57:G:C4	22:HB:72:A:C6	2.95	0.55
22:HB:934:G:O2'	44:HX:26:PHE:CD2	2.59	0.55
24:HD:224:SER:HA	24:HD:233:HIS:CG	2.42	0.55
25:HE:11:MET:CE	25:HE:12:THR:H	2.20	0.55
27:HG:138:PHE:O	27:HG:139:PRO:C	2.44	0.55
30:HJ:20:ALA:O	30:HJ:21:PRO:C	2.43	0.55
22:HB:1148:G:N2	31:HK:56:THR:HG21	2.08	0.55
33:HM:140:VAL:HG13	33:HM:141:VAL:N	2.17	0.55
22:HB:965:G:O3'	34:HN:18:MET:HE3	2.06	0.55
34:HN:32:ASP:OD2	34:HN:106:GLU:HG3	2.07	0.55
22:HB:1236:G:O6	39:HS:71:ILE:HD11	2.07	0.55
42:HV:85:ASP:HB3	42:HV:86:PRO:HD3	1.89	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:IA:927:G:N3	1:IA:1531:A:H2'	2.22	0.55
1:IA:383:A:H3'	1:IA:384:G:H8	1.71	0.55
1:IA:450:G:H22	16:IP:13:HIS:HE1	1.45	0.55
1:IA:676:A:HO2'	11:IK:115:PRO:CB	1.89	0.55
1:IA:13:U:C2	1:IA:914:A:C8	2.94	0.55
3:IC:43:LEU:HD12	3:IC:44:GLU:N	2.22	0.55
5:IE:18:ARG:HB2	5:IE:18:ARG:NH1	2.22	0.55
1:IA:1373:G:O4'	7:IG:34:GLY:O	2.25	0.55
7:IG:50:ILE:HG21	7:IG:58:PRO:HA	1.88	0.55
9:II:111:ARG:NH1	9:II:113:LYS:HZ2	2.05	0.55
11:IK:63:LEU:HG	11:IK:66:LEU:HD12	1.88	0.55
13:IM:68:GLY:HA2	13:IM:71:ARG:NH2	2.22	0.55
1:IA:740:U:C5'	15:IO:35:ARG:NH2	2.15	0.55
18:IR:85:LEU:HG	18:IR:86:VAL:H	1.70	0.55
48:J2:4:HIS:O	48:J2:5:PRO:C	2.44	0.55
22:JB:1004:A:C2	22:JB:1172:U:N3	2.71	0.55
22:JB:1008:G:P	38:JR:93:LYS:CG	2.95	0.55
22:JB:1173:G:OP1	39:JS:23:GLU:CB	2.55	0.55
22:JB:1312:G:H22	22:JB:1657:A:H5'	1.72	0.55
1:IA:791:G:H5'	22:JB:1905:G:OP1	2.06	0.55
22:JB:1829:C:C1'	22:JB:1910:A:N3	2.68	0.55
22:JB:2260:C:O4'	22:JB:2367:A:C2	2.60	0.55
22:JB:2407:G:H5''	22:JB:2408:G:OP1	2.07	0.55
22:JB:2521:A:O2'	22:JB:2522:G:H5'	2.07	0.55
22:JB:2573:C:H2'	22:JB:2574:G:C8	2.42	0.55
22:JB:2669:C:OP2	35:JO:10:LEU:HD22	2.07	0.55
22:JB:348:U:C2	42:JV:11:ASN:HB2	2.41	0.55
22:JB:425:A:N6	22:JB:2391:A:O4'	2.40	0.55
22:JB:529:U:H4'	40:JT:39:ARG:NH2	2.19	0.55
22:JB:610:G:C4'	26:JF:99:VAL:HG23	2.36	0.55
22:JB:661:C:H2'	22:JB:662:G:H8	1.72	0.55
22:JB:702:A:H2'	22:JB:703:A:H8	1.72	0.55
22:JB:726:G:H2'	22:JB:727:U:H5'	1.89	0.55
24:JD:91:ARG:HB2	24:JD:91:ARG:NH2	2.22	0.55
27:JG:33:LYS:HB2	27:JG:157:VAL:HG23	1.89	0.55
30:JJ:115:LEU:HD12	30:JJ:117:ALA:HB3	1.87	0.55
34:JN:32:ASP:OD2	34:JN:106:GLU:HG3	2.07	0.55
41:JU:6:ILE:HG13	41:JU:37:GLU:HB3	1.88	0.55
43:JW:94:VAL:HG12	43:JW:96:VAL:HG23	1.88	0.55
44:JX:47:ALA:H	44:JX:75:GLY:HA3	1.72	0.55
46:JZ:7:ARG:HA	46:JZ:28:ILE:HD13	1.88	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:383:A:H3'	1:AA:384:G:H8	1.71	0.55
1:AA:550:G:H2'	1:AA:551:U:C6	2.42	0.55
1:AA:978:A:H1'	1:AA:1321:C:N4	2.22	0.55
3:AC:32:LEU:HG	3:AC:59:ARG:HH22	1.71	0.55
7:AG:126:ASP:HA	7:AG:131:LYS:HE3	1.88	0.55
7:AG:16:LEU:HD21	9:AI:42:ARG:HH12	1.71	0.55
8:AH:10:LEU:O	8:AH:14:ARG:HB2	2.05	0.55
9:AI:48:GLU:HA	9:AI:51:ARG:HD3	1.89	0.55
17:AQ:47:PRO:HG2	17:AQ:73:VAL:HB	1.88	0.55
19:AS:15:LEU:HD22	19:AS:33:THR:HG23	1.89	0.55
22:BB:1043:A:C5'	52:B6:24:LEU:O	2.55	0.55
22:BB:1035:G:H21	22:BB:1155:G:H5'	1.72	0.55
22:BB:1325:U:O4	41:BU:61:LYS:CG	2.42	0.55
22:BB:1740:G:H2'	22:BB:1741:G:O4'	2.06	0.55
22:BB:1795:C:O3'	24:BD:250:TRP:CH2	2.57	0.55
22:BB:2007:G:N3	31:BK:103:TYR:CZ	2.71	0.55
22:BB:2016:A:H2'	22:BB:2019:C:N4	2.22	0.55
22:BB:310:A:H2'	22:BB:311:A:C4	2.42	0.55
22:BB:242:A:H62	22:BB:442:A:N6	2.04	0.55
22:BB:51:A:N1	22:BB:116:A:H2	2.00	0.55
22:BB:661:C:H2'	22:BB:662:G:H8	1.72	0.55
22:BB:676:G:C1'	22:BB:950:G:O2'	2.55	0.55
22:BB:929:A:H2'	22:BB:930:A:H5"	1.89	0.55
22:BB:630:G:O6	26:BF:97:ARG:NH2	2.40	0.55
22:BB:2726:U:H5'	28:BH:138:LYS:HZ2	1.71	0.55
30:BJ:42:ASN:N	30:BJ:45:THR:HB	2.22	0.55
32:BL:83:ARG:HD2	32:BL:87:SER:HB3	1.89	0.55
34:BN:8:THR:OG1	34:BN:9:LYS:HE2	2.06	0.55
35:BO:59:ASP:H	35:BO:63:ARG:NE	2.05	0.55
36:BP:14:ARG:CZ	36:BP:17:VAL:HG11	2.36	0.55
37:BQ:12:LEU:HG	37:BQ:16:ILE:HG13	1.88	0.55
22:BB:760:U:C4'	40:BT:110:ALA:HB3	2.37	0.55
45:BY:14:PHE:HA	45:BY:17:GLU:HB2	1.89	0.55
45:BY:48:ARG:HH11	45:BY:52:GLN:NE2	2.04	0.55
1:CA:1117:G:O2'	9:CI:9:ARG:HD2	2.04	0.55
1:CA:1343:G:H5'	9:CI:122:ALA:CB	2.31	0.55
1:CA:1392:G:H2'	1:CA:1393:U:O4'	2.07	0.55
1:CA:1512:U:H2'	1:CA:1513:A:H8	1.71	0.55
1:CA:643:C:O2	8:CH:92:ARG:NE	2.31	0.55
1:CA:659:U:H5'	15:CO:5:LYS:HG2	1.89	0.55
1:CA:403:C:H5'	4:CD:135:LEU:HD12	1.89	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:CG:126:ASP:HA	7:CG:131:LYS:HE3	1.88	0.55
7:CG:26:PHE:O	7:CG:30:ILE:HG13	2.07	0.55
23:DA:36:A:H4'	23:DA:37:C:C5	2.35	0.55
22:DB:1141:U:H5'	31:DK:107:GLN:C	2.24	0.55
22:DB:1740:G:H2'	22:DB:1741:G:O4'	2.06	0.55
22:DB:2245:A:H4'	22:DB:2246:A:O5'	2.07	0.55
22:DB:2397:A:H2'	22:DB:2398:U:O4'	2.07	0.55
22:DB:242:A:H62	22:DB:442:A:N6	2.04	0.55
22:DB:910:U:N1	22:DB:911:A:C8	2.72	0.55
25:DE:92:ASN:H	25:DE:182:ILE:HD11	1.72	0.55
22:DB:2292:C:C4'	27:DG:87:ILE:HD11	2.37	0.55
28:DH:164:PHE:HB2	28:DH:167:GLU:OE1	2.07	0.55
31:DK:49:VAL:HG11	31:DK:88:VAL:HA	1.89	0.55
32:DL:50:ILE:O	32:DL:73:VAL:HA	2.07	0.55
34:DN:8:THR:OG1	34:DN:9:LYS:HE2	2.06	0.55
22:DB:1300:A:C4	35:DO:103:ARG:HD3	2.42	0.55
41:DU:53:ILE:HA	41:DU:80:VAL:HA	1.88	0.55
22:DB:320:A:H1'	42:DV:27:GLY:CA	2.37	0.55
22:DB:869:C:C2	44:DX:24:LYS:CD	2.83	0.55
1:EA:1021:G:HO2'	27:JG:179:LYS:CD	1.93	0.55
1:EA:1305:G:N2	1:EA:1331:G:H2'	2.21	0.55
3:EC:6:HIS:CB	14:EN:49:HIS:CD2	2.78	0.55
22:FB:1135:C:O2'	52:F6:4:ARG:O	2.18	0.55
22:FB:1312:G:H22	22:FB:1657:A:H5'	1.72	0.55
22:FB:1740:G:H2'	22:FB:1741:G:O4'	2.06	0.55
22:FB:1896:A:H2'	22:FB:1898:U:C5	2.40	0.55
22:FB:2034:A:H4'	25:FE:141:ILE:HG13	1.85	0.55
22:FB:203:G:H4'	22:FB:234:C:H5''	1.89	0.55
22:FB:2573:C:H2'	22:FB:2574:G:C8	2.42	0.55
22:FB:2748:C:H2'	22:FB:2749:A:O4'	2.07	0.55
22:FB:5:A:C2	22:FB:2873:G:C2	2.95	0.55
22:FB:242:A:H62	22:FB:442:A:N6	2.04	0.55
22:FB:504:G:C5'	40:FT:25:PHE:HE2	2.20	0.55
22:FB:568:G:H2'	22:FB:569:C:H1'	1.88	0.55
22:FB:661:C:H2'	22:FB:662:G:H8	1.72	0.55
22:FB:2186:G:O2'	24:FD:150:GLY:C	2.45	0.55
24:FD:63:ARG:HH22	24:FD:88:ARG:HD3	1.72	0.55
22:FB:2752:C:O2'	25:FE:164:ARG:HB2	2.07	0.55
26:FF:176:ASN:O	26:FF:180:ILE:HG23	2.06	0.55
31:FK:59:ALA:HA	31:FK:62:ILE:HG22	1.89	0.55
36:FP:14:ARG:CZ	36:FP:17:VAL:HG11	2.36	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:FA:49:C:H5'	36:FP:94:TYR:HE1	1.72	0.55
36:FP:8:ARG:NH1	36:FP:9:ARG:HE	2.03	0.55
42:FV:48:VAL:HG13	42:FV:50:GLY:N	2.22	0.55
22:FB:2240:C:H3'	44:FX:14:ARG:C	2.27	0.55
22:FB:2240:C:H3'	44:FX:14:ARG:HG3	1.89	0.55
46:FZ:7:ARG:HA	46:FZ:28:ILE:HD13	1.88	0.55
1:GA:265:G:N3	17:GQ:70:ARG:CZ	2.65	0.55
2:GB:74:LYS:HD3	2:GB:165:VAL:HG11	1.88	0.55
3:GC:142:MET:HA	3:GC:145:GLY:O	2.07	0.55
1:GA:673:G:C5'	6:GF:87:ARG:HH21	2.19	0.55
6:GF:6:VAL:HG22	6:GF:90:VAL:HA	1.89	0.55
7:GG:97:GLN:HG3	7:GG:98:SER:N	2.22	0.55
1:GA:1059:C:O3'	10:GJ:51:ARG:O	2.24	0.55
13:GM:3:ARG:HD2	13:GM:3:ARG:H	1.71	0.55
13:GM:48:LEU:HB3	13:GM:52:GLU:HB2	1.87	0.55
13:GM:68:GLY:HA2	13:GM:71:ARG:NH2	2.22	0.55
53:H7:200:LEU:HD13	53:H7:201:ARG:N	2.22	0.55
22:HB:10:A:C4	22:HB:2608:A:C2	2.94	0.55
22:HB:1228:G:H2'	22:HB:1229:C:O4'	2.07	0.55
22:HB:1268:U:H5'	22:HB:1269:G:C5'	2.37	0.55
22:HB:1393:G:H2'	22:HB:1393:G:N3	2.22	0.55
22:HB:2040:A:H4'	48:H2:8:LYS:HE2	1.89	0.55
22:HB:225:G:H1'	22:HB:2412:A:N6	2.18	0.55
22:HB:2797:G:H2'	22:HB:2798:A:H5''	1.89	0.55
22:HB:3094:A:C5'	29:HI:21:LYS:HD2	2.37	0.55
22:HB:3876:A:N3	22:HB:3877:A:H1'	2.21	0.55
22:HB:58:C:C2	22:HB:73:A:H2	2.24	0.55
22:HB:677:G:H2'	22:HB:678:G:N9	2.22	0.55
22:HB:726:G:H2'	22:HB:727:U:H5'	1.89	0.55
25:HE:39:ALA:O	25:HE:40:GLN:HB2	2.06	0.55
27:HG:4:LEU:HB3	27:HG:97:TYR:HB3	1.89	0.55
32:HL:50:ILE:O	32:HL:73:VAL:HA	2.07	0.55
22:HB:824:U:O3'	33:HM:33:GLY:HA3	2.05	0.55
34:HN:33:TYR:O	34:HN:104:MET:HA	2.06	0.55
34:HN:55:MET:HE2	34:HN:114:GLN:HE21	1.72	0.55
36:HP:14:ARG:CZ	36:HP:17:VAL:HG11	2.36	0.55
22:HB:1338:G:N7	40:HT:107:ILE:CG2	2.34	0.55
22:HB:71:A:C1'	45:HY:54:ASN:HB2	2.33	0.55
1:IA:163:C:H2'	1:IA:164:U:H5'	1.89	0.55
1:IA:328:C:H4'	1:IA:329:A:O5'	2.07	0.55
3:IC:23:TYR:HB3	10:IJ:92:THR:CB	2.35	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:IC:27:LYS:O	3:IC:30:ARG:HG2	2.06	0.55
1:IA:403:C:P	4:ID:3:ARG:NH2	2.80	0.55
1:IA:510:A:O2'	4:ID:43:HIS:CE1	2.60	0.55
9:II:44:VAL:C	9:II:51:ARG:HH22	2.11	0.55
12:IL:57:LYS:HA	12:IL:67:THR:HG23	1.89	0.55
8:IH:91:ARG:HG2	12:IL:8:ASN:ND2	2.21	0.55
1:IA:376:G:C2'	16:IP:28:ARG:NH1	2.69	0.55
1:IA:451:A:C4'	16:IP:72:ARG:NH2	2.70	0.55
19:IS:38:SER:O	19:IS:71:LEU:HG	2.07	0.55
49:J3:13:GLU:CG	49:J3:24:THR:HA	2.37	0.55
22:JB:2399:C:N4	51:J5:31:HIS:ND1	2.48	0.55
53:J7:66:VAL:HG12	53:J7:68:PRO:HD3	1.87	0.55
22:JB:1173:G:H5'	39:JS:23:GLU:HB2	1.89	0.55
22:JB:1268:U:H5'	22:JB:1269:G:C5'	2.37	0.55
22:JB:1359:G:O2'	22:JB:1360:G:H5'	2.06	0.55
22:JB:1704:G:H2'	22:JB:1718:A:H61	1.71	0.55
22:JB:1770:U:OP1	22:JB:1771:A:H4'	2.06	0.55
22:JB:1948:C:H41	22:JB:2571:G:C1'	2.04	0.55
22:JB:1949:A:H2'	22:JB:2571:G:O2'	2.07	0.55
22:JB:2186:G:N3	24:JD:70:ARG:CZ	2.64	0.55
22:JB:2301:A:H3'	22:JB:2302:G:C8	2.41	0.55
22:JB:430:C:O2	22:JB:2386:G:C2	2.59	0.55
22:JB:310:A:H2'	22:JB:311:A:C4	2.42	0.55
22:JB:3178:C:N1	53:J7:161:ASP:O	2.40	0.55
22:JB:3187:U:H5''	29:JI:11:LEU:HD21	1.86	0.55
22:JB:320:A:H5''	22:JB:341:A:N6	2.22	0.55
22:JB:3877:A:C2	22:JB:1862:C:C1'	2.86	0.55
22:JB:52:A:H2'	22:JB:53:G:O4'	2.07	0.55
22:JB:603:C:C4	22:JB:604:U:N3	2.74	0.55
22:JB:791:G:H5'	24:JD:49:ILE:CD1	2.21	0.55
22:JB:868:U:H2'	22:JB:869:C:C6	2.42	0.55
22:JB:891:A:H5''	22:JB:892:A:C5'	2.37	0.55
22:JB:2206:C:C4'	24:JD:262:LYS:HZ3	2.14	0.55
25:JE:11:MET:CE	25:JE:12:THR:H	2.20	0.55
29:JI:45:THR:HG23	29:JI:49:GLN:OE1	2.07	0.55
29:JI:49:GLN:N	29:JI:51:ARG:HH12	2.05	0.55
32:JL:76:ARG:HB3	32:JL:90:ARG:HH22	1.71	0.55
22:JB:2372:A:H4'	33:JM:61:PRO:O	2.07	0.55
34:JN:33:TYR:O	34:JN:104:MET:HA	2.07	0.55
35:JO:28:LEU:HD12	35:JO:34:ILE:HG13	1.89	0.55
37:JQ:85:SER:N	37:JQ:86:PRO:CD	2.70	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:JB:1004:A:C1'	39:JS:74:TYR:HH	2.16	0.55
1:AA:1065:U:H4'	1:AA:1066:C:C5'	2.36	0.55
1:AA:1284:C:H3'	1:AA:1285:A:C8	2.42	0.55
1:AA:1374:A:C8	7:AG:31:MET:HE1	2.40	0.55
1:AA:815:A:C1'	1:AA:1529:G:N1	2.70	0.55
1:AA:816:A:OP2	1:AA:1527:C:H5'	2.07	0.55
2:AB:27:LYS:HD2	2:AB:193:ASP:HB3	1.89	0.55
3:AC:135:LYS:HB3	3:AC:139:GLN:OE1	2.07	0.55
4:AD:127:THR:HB	4:AD:147:ALA:HB3	1.87	0.55
4:AD:96:LEU:O	4:AD:100:ARG:HG3	2.07	0.55
12:AL:100:ILE:HG22	12:AL:101:VAL:H	1.71	0.55
14:AN:27:CYS:HG	14:AN:42:ILE:HD12	1.71	0.55
18:AR:34:TYR:HA	18:AR:37:VAL:HG23	1.89	0.55
19:AS:39:THR:HA	19:AS:69:HIS:O	2.07	0.55
49:B3:13:GLU:CG	49:B3:24:THR:HA	2.37	0.55
22:BB:1140:A:C5'	31:BK:107:GLN:HG2	2.36	0.55
22:BB:1148:G:H4'	31:BK:133:GLY:N	2.21	0.55
22:BB:1503:G:H2'	22:BB:1504:G:H4'	1.88	0.55
22:BB:176:A:C8	47:B1:30:GLU:CB	2.90	0.55
22:BB:3093:C:O4'	22:BB:2181:A:N1	2.40	0.55
22:BB:2301:A:H3'	22:BB:2302:G:C8	2.41	0.55
22:BB:2334:C:H4'	44:BX:21:LEU:CB	2.32	0.55
22:BB:2365:U:OP1	44:BX:39:ARG:NH1	2.39	0.55
22:BB:2505:G:H5''	22:BB:2722:C:H4'	1.89	0.55
22:BB:2573:C:H2'	22:BB:2574:G:C8	2.42	0.55
22:BB:2598:C:O2'	25:BE:154:LYS:CE	2.55	0.55
22:BB:71:A:C4'	45:BY:51:ALA:HB1	2.34	0.55
26:BF:22:VAL:HG23	26:BF:109:ALA:HB1	1.89	0.55
28:BH:6:LYS:HE3	28:BH:69:ARG:HB3	1.89	0.55
22:BB:1142:G:O2'	31:BK:111:LYS:CG	2.54	0.55
31:BK:126:VAL:O	31:BK:127:ILE:HB	2.07	0.55
32:BL:127:VAL:HA	32:BL:130:ALA:HB2	1.87	0.55
22:BB:675:C:C5'	33:BM:26:THR:HG23	2.35	0.55
33:BM:75:VAL:HG22	33:BM:76:LYS:N	2.22	0.55
34:BN:55:MET:HE2	34:BN:114:GLN:HE21	1.72	0.55
37:BQ:67:THR:HA	37:BQ:82:PRO:HB3	1.89	0.55
39:BS:23:GLU:HG3	39:BS:91:THR:HB	1.89	0.55
1:CA:1225:A:C4'	13:CM:103:THR:OG1	2.54	0.55
1:CA:1225:A:H4'	13:CM:103:THR:OG1	2.06	0.55
1:CA:1228:C:H2'	1:CA:1229:A:N7	2.03	0.55
1:CA:1284:C:H3'	1:CA:1285:A:C8	2.42	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:1319:A:N6	1:CA:1361:G:H21	2.05	0.55
1:CA:383:A:H3'	1:CA:384:G:H8	1.71	0.55
1:CA:827:U:H5'	8:CH:21:LYS:CG	2.35	0.55
3:CC:32:LEU:HG	3:CC:59:ARG:HH22	1.71	0.55
4:CD:67:ILE:HG22	4:CD:114:ARG:HH12	1.72	0.55
4:CD:88:VAL:N	5:CE:97:GLY:HA3	2.21	0.55
1:CA:588:G:O3'	8:CH:5:PRO:HG2	2.06	0.55
1:CA:598:U:O3'	8:CH:94:TYR:C	2.45	0.55
16:CP:34:GLU:HG3	16:CP:36:ILE:HG12	1.89	0.55
16:CP:55:ARG:NH2	16:CP:58:TYR:HB2	2.21	0.55
1:CA:958:A:H2	19:CS:55:LYS:HB3	1.69	0.55
22:DB:1032:A:H1'	22:DB:1133:G:H4'	1.88	0.55
22:DB:1035:G:H21	22:DB:1155:G:H5'	1.72	0.55
22:DB:1288:A:H61	35:DO:19:ALA:HB1	1.72	0.55
22:DB:1300:A:C5	35:DO:103:ARG:HD3	2.42	0.55
22:DB:1354:A:OP2	41:DU:56:MET:HE3	2.06	0.55
22:DB:1398:G:N2	22:DB:1416:A:C5	2.75	0.55
22:DB:1789:U:H2'	22:DB:1790:G:O4'	2.07	0.55
22:DB:2016:A:H2'	22:DB:2019:C:N4	2.22	0.55
22:DB:2263:C:H2'	22:DB:2264:C:O4'	2.07	0.55
22:DB:2352:A:H2'	22:DB:2353:G:H8	1.71	0.55
22:DB:2492:G:C4	22:DB:2493:U:C4	2.95	0.55
22:DB:2753:C:O2'	25:DE:163:GLU:HB3	2.07	0.55
22:DB:538:A:N7	31:DK:142:ARG:CZ	2.70	0.55
22:DB:661:C:H2'	22:DB:662:G:H8	1.72	0.55
22:DB:84:G:N2	22:DB:96:C:H2'	2.15	0.55
22:DB:1797:C:O2'	24:DD:49:ILE:HG23	2.07	0.55
24:DD:91:ARG:NH2	24:DD:91:ARG:HB2	2.21	0.55
26:DF:22:VAL:HG23	26:DF:109:ALA:HB1	1.89	0.55
33:DM:101:ARG:N	33:DM:101:ARG:HD2	2.22	0.55
34:DN:99:LYS:HG2	43:DW:73:LYS:HZ3	1.42	0.55
22:DB:512:A:C5'	40:DT:15:LYS:CB	2.74	0.55
1:EA:1073:U:OP1	5:EE:57:LYS:HE2	2.06	0.55
1:EA:1319:A:N6	1:EA:1361:G:H21	2.05	0.55
2:EB:136:VAL:HA	2:EB:139:LYS:HB2	1.88	0.55
4:ED:149:ALA:HB3	4:ED:152:SER:OG	2.07	0.55
1:EA:967:C:H5''	9:EI:127:LYS:O	2.06	0.55
9:EI:48:GLU:N	9:EI:51:ARG:HH11	2.05	0.55
1:EA:970:C:P	10:EJ:55:LYS:HZ3	2.28	0.55
17:EQ:45:HIS:O	17:EQ:47:PRO:HD3	2.07	0.55
1:EA:279:A:N1	17:EQ:97:SER:N	2.47	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:ET:26:ASN:HB3	20:ET:30:LYS:NZ	2.21	0.55
22:FB:2062:U:O2'	47:F1:32:HIS:ND1	2.33	0.55
40:FT:40:LEU:CD1	48:F2:20:ARG:CD	2.83	0.55
22:FB:1021:A:C5'	38:FR:66:ASN:ND2	2.70	0.55
22:FB:1035:G:H21	22:FB:1155:G:H5'	1.72	0.55
22:FB:3197:U:C2'	22:FB:2181:A:C8	2.90	0.55
22:FB:310:A:H2'	22:FB:311:A:C4	2.42	0.55
22:FB:422:C:H2'	22:FB:423:G:C8	2.42	0.55
22:FB:507:A:P	40:FT:20:LEU:CD2	2.89	0.55
27:FG:100:LEU:HB3	27:FG:104:ILE:HG12	1.88	0.55
27:FG:33:LYS:HB2	27:FG:157:VAL:HG23	1.89	0.55
27:FG:4:LEU:HB3	27:FG:97:TYR:HB3	1.89	0.55
31:FK:30:LYS:HZ3	31:FK:30:LYS:H	1.55	0.55
32:FL:127:VAL:HA	32:FL:130:ALA:HB2	1.88	0.55
34:FN:95:VAL:HG23	34:FN:96:SER:H	1.72	0.55
22:FB:2701:A:N3	35:FO:6:ALA:HB2	2.22	0.55
37:FQ:12:LEU:HG	37:FQ:16:ILE:HG13	1.88	0.55
38:FR:28:ARG:HA	38:FR:31:GLN:CG	2.37	0.55
40:FT:40:LEU:HD12	48:F2:20:ARG:NE	2.22	0.55
41:FU:15:LYS:HG3	41:FU:19:ALA:HB2	1.87	0.55
1:GA:1248:A:C2'	9:GI:70:LYS:CE	2.60	0.55
1:GA:1391:U:O3'	1:GA:1531:A:O5'	2.25	0.55
1:GA:383:A:H3'	1:GA:384:G:H8	1.71	0.55
1:GA:658:G:O2'	1:GA:659:U:H5'	2.07	0.55
1:GA:438:G:H5'	4:GD:123:HIS:CG	2.42	0.55
4:GD:62:GLN:HE22	4:GD:65:ARG:NH1	2.05	0.55
1:GA:1374:A:O2'	7:GG:28:ASN:HB3	2.07	0.55
1:GA:1226:C:C5	13:GM:104:ARG:CB	2.90	0.55
13:GM:93:ARG:HH12	22:HB:900:U:C4'	2.19	0.55
14:GN:22:THR:O	14:GN:23:ARG:HB2	2.06	0.55
1:GA:1359:C:OP1	14:GN:30:ALA:O	2.24	0.55
1:GA:280:C:C2	17:GQ:37:LYS:HG2	2.42	0.55
1:GA:1013:G:P	19:GS:18:LYS:HZ3	2.30	0.55
13:GM:87:TYR:HD2	19:GS:3:ARG:HH22	1.41	0.55
53:H7:13:LYS:NZ	53:H7:177:GLU:HA	2.22	0.55
23:HA:77:G:H1	23:HA:105:G:H1	1.54	0.55
22:HB:1309:G:C6	22:HB:1310:C:N4	2.75	0.55
22:HB:2301:A:H3'	22:HB:2302:G:C8	2.41	0.55
22:HB:2768:C:O2	22:HB:2866:A:H2	1.90	0.55
22:HB:310:A:H2'	22:HB:311:A:C4	2.42	0.55
22:HB:320:A:H5''	22:HB:341:A:N6	2.22	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:HB:242:A:H62	22:HB:442:A:N6	2.04	0.55
22:HB:459:A:H2'	22:HB:459:A:N3	2.22	0.55
22:HB:810:U:H2'	22:HB:811:G:O4'	2.07	0.55
22:HB:868:U:H2'	22:HB:869:C:C6	2.42	0.55
27:HG:100:LEU:HB3	27:HG:104:ILE:HG12	1.87	0.55
30:HJ:112:MET:H	30:HJ:113:PRO:HD2	1.72	0.55
31:HK:126:VAL:O	31:HK:127:ILE:HB	2.07	0.55
22:HB:823:U:O2'	33:HM:30:ALA:HB1	2.06	0.55
22:HB:503:G:C4'	40:HT:29:LYS:HE3	2.29	0.55
34:HN:64:LYS:N	43:HW:112:LEU:H	2.02	0.55
1:IA:1195:C:H4'	1:IA:1398:A:N6	2.14	0.55
1:IA:1409:C:OP1	22:JB:1899:A:C2	2.60	0.55
1:IA:925:G:H1'	1:IA:1502:A:C1'	2.36	0.55
1:IA:509:A:H2'	1:IA:510:A:C8	2.42	0.55
1:IA:550:G:H2'	1:IA:551:U:C6	2.42	0.55
3:IC:83:ARG:O	3:IC:87:LEU:HG	2.07	0.55
4:ID:10:ARG:HA	4:ID:40:PRO:HG3	1.87	0.55
5:IE:133:TYR:O	5:IE:137:GLU:HG2	2.06	0.55
7:IG:97:GLN:HG3	7:IG:98:SER:N	2.22	0.55
8:IH:36:LEU:O	8:IH:39:LEU:HB2	2.08	0.55
9:II:48:GLU:HA	9:II:51:ARG:HD3	1.89	0.55
16:IP:55:ARG:NH2	16:IP:58:TYR:HB2	2.21	0.55
22:JB:3122:U:C4'	53:J7:133:LYS:HG3	2.37	0.55
53:J7:200:LEU:HD13	53:J7:201:ARG:N	2.22	0.55
22:JB:3105:G:C5'	53:J7:35:THR:HG21	1.89	0.55
22:JB:1228:G:H2'	22:JB:1229:C:O4'	2.07	0.55
22:JB:1747:G:C6	37:JQ:125:MET:C	2.55	0.55
22:JB:1810:U:H4'	22:JB:1811:A:H8	1.70	0.55
22:JB:2186:G:C3'	24:JD:70:ARG:HH21	2.19	0.55
22:JB:2310:G:O3'	44:JX:71:ASN:CB	2.52	0.55
22:JB:2685:A:C4'	35:JO:64:ARG:HH21	2.02	0.55
22:JB:2742:G:O2'	28:JH:150:LYS:HG3	2.05	0.55
22:JB:3122:U:P	53:J7:130:PRO:HG2	2.46	0.55
22:JB:242:A:H62	22:JB:442:A:N6	2.04	0.55
22:JB:59:G:C8	45:JY:44:ARG:NH1	2.65	0.55
24:JD:213:ARG:O	24:JD:214:TRP:HB2	2.07	0.55
25:JE:8:LYS:HD2	25:JE:192:ASN:ND2	2.22	0.55
27:JG:31:ILE:HD11	27:JG:34:ILE:HG23	1.89	0.55
27:JG:4:LEU:HB3	27:JG:97:TYR:HB3	1.89	0.55
27:JG:8:TYR:HA	27:JG:12:VAL:CG2	2.36	0.55
28:JH:164:PHE:HB2	28:JH:167:GLU:OE1	2.07	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:JJ:91:PRO:O	30:JJ:92:ASN:HB2	2.06	0.55
31:JK:44:VAL:HB	31:JK:82:VAL:HA	1.87	0.55
32:JL:11:ALA:HB2	32:JL:19:ILE:HG21	1.87	0.55
22:JB:846:A:C4	33:JM:53:ARG:NH1	2.75	0.55
34:JN:106:GLU:CD	43:JW:115:ILE:HG21	2.24	0.55
40:JT:62:ARG:HH11	40:JT:64:ALA:HB2	1.71	0.55
22:JB:979:A:C2'	46:JZ:13:PRO:HG3	2.27	0.55
1:AA:1148:U:H5''	9:AI:7:THR:HG21	1.89	0.54
1:AA:1307:U:H4'	13:AM:109:THR:HG22	1.80	0.54
1:AA:509:A:H2'	1:AA:510:A:C8	2.42	0.54
1:AA:658:G:O2'	1:AA:659:U:H5'	2.07	0.54
1:AA:670:G:H2'	1:AA:671:G:H8	1.71	0.54
9:AI:40:LEU:HB2	9:AI:43:ALA:HB3	1.89	0.54
13:AM:82:MET:O	13:AM:92:HIS:C	2.45	0.54
22:BB:2039:G:C1'	48:B2:5:PRO:HG3	2.36	0.54
22:BB:700:C:O5'	50:B4:2:LYS:C	2.46	0.54
22:BB:1039:A:N6	22:BB:1136:G:H2'	2.21	0.54
22:BB:2008:C:OP1	25:BE:147:PRO:CG	2.55	0.54
22:BB:2263:C:H2'	22:BB:2264:C:O4'	2.07	0.54
22:BB:2288:A:H2'	22:BB:2289:A:O4'	2.07	0.54
22:BB:2397:A:H2'	22:BB:2398:U:O4'	2.07	0.54
22:BB:1681:A:C6	22:BB:2706:U:C6	2.94	0.54
22:BB:2815:C:P	35:BO:50:GLN:CA	2.92	0.54
22:BB:422:C:H2'	22:BB:423:G:C8	2.42	0.54
22:BB:57:G:C3'	22:BB:72:A:H62	2.20	0.54
22:BB:2218:G:P	24:BD:229:VAL:C	2.86	0.54
22:BB:1583:A:H62	24:BD:89:SER:CA	2.20	0.54
25:BE:92:ASN:H	25:BE:182:ILE:HD11	1.72	0.54
27:BG:31:ILE:HG12	27:BG:96:MET:SD	2.47	0.54
27:BG:4:LEU:HB3	27:BG:97:TYR:HB3	1.89	0.54
29:BI:45:THR:HG23	29:BI:49:GLN:OE1	2.07	0.54
30:BJ:22:PRO:O	30:BJ:23:VAL:HG13	2.07	0.54
34:BN:77:LYS:HB2	34:BN:92:GLU:CD	2.26	0.54
34:BN:98:VAL:O	34:BN:99:LYS:HD3	2.07	0.54
39:BS:63:HIS:HE1	39:BS:93:ILE:HD13	1.71	0.54
40:BT:62:ARG:HH11	40:BT:64:ALA:HB2	1.71	0.54
1:CA:1060:C:OP1	10:CJ:51:ARG:C	2.44	0.54
1:CA:1189:C:OP2	10:CJ:51:ARG:NH1	2.40	0.54
1:CA:1225:A:H5''	13:CM:104:ARG:CB	2.33	0.54
1:CA:1265:G:OP1	1:GA:1273:G:H1'	2.07	0.54
1:CA:1347:G:H2'	1:CA:1373:G:C6	2.42	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:1479:C:H2'	1:CA:1480:G:C8	2.42	0.54
1:CA:1515:C:H1'	1:CA:1521:G:N2	2.21	0.54
1:CA:505:G:H2'	1:CA:506:G:C8	2.42	0.54
1:CA:670:G:H2'	1:CA:671:G:H8	1.71	0.54
1:CA:768:A:H5''	1:CA:804:U:C5'	2.37	0.54
1:CA:861:G:H1'	1:CA:874:G:H4'	1.89	0.54
1:CA:939:G:HO2'	7:CG:29:LYS:HD2	1.70	0.54
1:CA:958:A:N3	19:CS:55:LYS:HD3	2.22	0.54
8:CH:38:ILE:HA	8:CH:41:ARG:NH1	2.21	0.54
1:CA:644:G:C8	8:CH:92:ARG:NH2	2.52	0.54
13:CM:48:LEU:HB3	13:CM:52:GLU:HB2	1.87	0.54
15:CO:70:LEU:HD12	15:CO:77:ARG:HB2	1.89	0.54
22:DB:1073:G:H5''	30:DJ:11:GLN:NE2	2.21	0.54
22:DB:1175:A:C6	22:DB:1198:C:N3	2.75	0.54
22:DB:1291:G:H1'	35:DO:27:ALA:CB	2.36	0.54
22:DB:1979:C:C2'	22:DB:1980:A:H4'	2.35	0.54
22:DB:2521:A:O2'	22:DB:2522:G:H5'	2.07	0.54
22:DB:2769:C:H4'	22:DB:2866:A:N6	2.22	0.54
22:DB:2773:G:N1	22:DB:2779:C:N3	2.46	0.54
22:DB:320:A:H5''	22:DB:341:A:N6	2.22	0.54
22:DB:718:A:C2	22:DB:740:A:H1'	2.42	0.54
22:DB:2579:A:C8	24:DD:237:GLU:OE2	2.59	0.54
22:DB:2751:C:HO2'	25:DE:166:THR:HG1	1.55	0.54
27:DG:31:ILE:HG12	27:DG:96:MET:SD	2.47	0.54
32:DL:126:ILE:HG22	32:DL:127:VAL:HG23	1.88	0.54
42:DV:32:GLN:HE22	42:DV:49:GLU:HB2	1.72	0.54
43:DW:6:LYS:N	43:DW:7:PRO:HD2	2.22	0.54
44:DX:47:ALA:H	44:DX:75:GLY:HA3	1.72	0.54
1:EA:1019:C:H2'	1:EA:1020:U:C5	2.42	0.54
1:EA:383:A:H3'	1:EA:384:G:H8	1.71	0.54
1:EA:505:G:H2'	1:EA:506:G:C8	2.42	0.54
2:EB:29:ALA:C	2:EB:30:ARG:HE	2.11	0.54
3:EC:119:ARG:HG2	3:EC:123:GLN:HE21	1.73	0.54
3:EC:135:LYS:HB3	3:EC:139:GLN:OE1	2.07	0.54
3:EC:18:TRP:CD2	14:EN:53:LEU:O	2.59	0.54
3:EC:43:LEU:HD12	3:EC:44:GLU:N	2.22	0.54
3:EC:32:LEU:HG	3:EC:59:ARG:HH22	1.71	0.54
4:ED:96:LEU:O	4:ED:100:ARG:HG3	2.07	0.54
4:ED:62:GLN:HE22	4:ED:65:ARG:NH1	2.05	0.54
5:EE:133:TYR:O	5:EE:137:GLU:HG2	2.07	0.54
12:EL:90:VAL:HG12	12:EL:92:ASP:H	1.71	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:EF:52:ILE:HD11	18:ER:77:GLY:HA2	1.89	0.54
49:F3:13:GLU:CG	49:F3:24:THR:HA	2.37	0.54
22:FB:1145:C:C5	22:FB:1147:G:P	3.00	0.54
22:FB:1308:C:O4'	35:FO:23:ALA:HB2	2.07	0.54
22:FB:1672:A:C1'	25:FE:114:GLN:HA	2.37	0.54
22:FB:1762:C:H4'	22:FB:1921:A:N6	2.21	0.54
22:FB:1826:U:C4'	22:FB:1952:A:C2	2.90	0.54
22:FB:1979:C:C2'	22:FB:1980:A:H4'	2.35	0.54
22:FB:2312:A:H5'	22:FB:2315:A:N6	2.22	0.54
22:FB:2352:A:H2'	22:FB:2353:G:H8	1.71	0.54
22:FB:2492:G:H2'	22:FB:2493:U:C4	2.42	0.54
22:FB:10:A:C2	22:FB:2608:A:N3	2.75	0.54
22:FB:2686:C:H1'	35:FO:64:ARG:HG3	1.89	0.54
22:FB:320:A:H5''	22:FB:341:A:N6	2.22	0.54
22:FB:839:U:H5'	22:FB:2407:G:H2'	1.89	0.54
22:FB:851:C:H2'	22:FB:852:U:C6	2.42	0.54
22:FB:8:A:OP1	31:FK:79:PHE:CZ	2.60	0.54
22:FB:84:G:N2	22:FB:96:C:H2'	2.15	0.54
25:FE:92:ASN:H	25:FE:182:ILE:HD11	1.72	0.54
26:FF:22:VAL:HG23	26:FF:109:ALA:HB1	1.89	0.54
28:FH:6:LYS:NZ	28:FH:6:LYS:HB2	2.22	0.54
30:FJ:115:LEU:HD12	30:FJ:117:ALA:HB3	1.87	0.54
32:FL:46:HIS:HB2	32:FL:49:ASP:OD1	2.06	0.54
34:FN:32:ASP:OD2	34:FN:106:GLU:HG3	2.06	0.54
34:FN:44:LYS:O	34:FN:45:SER:HB3	2.07	0.54
1:GA:1373:G:C5'	7:GG:36:LYS:CB	2.82	0.54
1:GA:1420:C:H42	1:GA:1480:G:H1	1.53	0.54
1:GA:213:G:H1'	1:GA:214:U:C6	2.43	0.54
1:GA:254:G:H5'	17:GQ:69:LYS:CD	2.32	0.54
2:GB:23:ARG:HD3	2:GB:24:TRP:H	1.71	0.54
4:GD:152:SER:O	4:GD:158:ILE:HD13	2.06	0.54
9:GI:40:LEU:HB2	9:GI:43:ALA:HB3	1.89	0.54
12:GL:57:LYS:HA	12:GL:67:THR:HG23	1.89	0.54
1:GA:187:G:OP1	20:GT:82:SER:CB	2.54	0.54
22:HB:1856:U:C2	53:H7:43:LYS:NZ	2.75	0.54
22:HB:1312:G:H1	22:HB:1657:A:H5''	1.72	0.54
22:HB:1312:G:H22	22:HB:1657:A:H5'	1.72	0.54
22:HB:1359:G:O2'	22:HB:1360:G:H5'	2.06	0.54
22:HB:1373:G:H2'	22:HB:1374:G:O4'	2.07	0.54
22:HB:2265:A:N6	49:H3:38:LYS:HZ1	2.02	0.54
22:HB:2337:A:N3	22:HB:2337:A:H2'	2.21	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:HB:2343:C:H4'	44:HX:40:GLN:HB3	1.88	0.54
22:HB:2397:A:H2'	22:HB:2398:U:O4'	2.07	0.54
22:HB:574:C:H5	39:HS:79:GLN:HE22	1.54	0.54
25:HE:19:ARG:NH2	37:HQ:84:ALA:HB1	2.23	0.54
26:HF:22:VAL:HG23	26:HF:109:ALA:HB1	1.89	0.54
26:HF:121:ASP:HB2	26:HF:133:PHE:HZ	1.72	0.54
31:HK:59:ALA:HA	31:HK:62:ILE:HG22	1.89	0.54
31:HK:64:GLY:HA2	31:HK:70:PHE:CE2	2.41	0.54
33:HM:59:ARG:O	33:HM:60:LEU:CB	2.51	0.54
34:HN:65:ILE:CB	43:HW:115:ILE:HD11	2.35	0.54
37:HQ:12:LEU:HG	37:HQ:16:ILE:HG13	1.88	0.54
46:HZ:7:ARG:HA	46:HZ:28:ILE:HD13	1.88	0.54
2:IB:77:ALA:HA	2:IB:80:ILE:HD12	1.88	0.54
4:ID:67:ILE:HG22	4:ID:114:ARG:HH12	1.72	0.54
1:IA:16:A:C2'	5:IE:16:THR:HA	2.34	0.54
6:IF:41:GLU:HB2	6:IF:62:TRP:HZ3	1.71	0.54
9:II:31:GLN:HB3	9:II:36:TYR:HB2	1.88	0.54
18:IR:34:TYR:HA	18:IR:37:VAL:HG23	1.89	0.54
1:IA:1221:G:HO2'	19:IS:77:THR:HG21	1.69	0.54
50:J4:3:ARG:HG3	50:J4:4:THR:HG22	1.88	0.54
22:JB:231:G:O6	51:J5:4:MET:O	2.24	0.54
22:JB:3167:U:C4	53:J7:98:ARG:C	2.81	0.54
23:JA:118:G:P	36:JP:52:ALA:CA	2.94	0.54
22:JB:1001:A:C4'	46:JZ:27:LYS:HZ1	2.02	0.54
22:JB:1312:G:H1	22:JB:1657:A:H5''	1.72	0.54
22:JB:1281:A:OP1	22:JB:1988:A:H5''	2.08	0.54
22:JB:203:G:H4'	22:JB:234:C:H5''	1.89	0.54
22:JB:2473:G:H2'	22:JB:2474:G:C8	2.42	0.54
22:JB:2559:U:P	25:JE:132:LYS:HE3	2.47	0.54
22:JB:2727:G:O6	22:JB:2734:U:H3'	2.07	0.54
22:JB:420:C:OP1	53:J7:197:GLU:HG2	2.07	0.54
22:JB:459:A:N3	22:JB:459:A:H2'	2.22	0.54
22:JB:810:U:H2'	22:JB:811:G:O4'	2.07	0.54
24:JD:72:LYS:HZ3	24:JD:75:VAL:HG11	1.72	0.54
30:JJ:22:PRO:O	30:JJ:23:VAL:HG13	2.07	0.54
30:JJ:53:ILE:HA	30:JJ:72:PRO:HB3	1.89	0.54
31:JK:126:VAL:O	31:JK:127:ILE:HB	2.07	0.54
22:JB:567:G:C3'	31:JK:73:ASN:HA	2.36	0.54
33:JM:101:ARG:N	33:JM:101:ARG:HD2	2.22	0.54
34:JN:98:VAL:CG2	34:JN:99:LYS:HG2	2.29	0.54
1:AA:1081:G:OP1	5:AE:26:PHE:HA	2.07	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1225:A:O5'	13:AM:103:THR:OG1	1.98	0.54
1:AA:1294:G:H2'	1:AA:1295:G:C8	2.42	0.54
1:AA:299:G:N1	1:AA:566:G:O6	2.40	0.54
1:AA:373:A:H3'	1:AA:374:A:H8	1.73	0.54
1:AA:505:G:H2'	1:AA:506:G:C8	2.42	0.54
1:AA:520:A:O2'	12:AL:53:ARG:NE	2.27	0.54
1:AA:768:A:H5''	1:AA:804:U:C5'	2.37	0.54
5:AE:80:ILE:CB	8:AH:138:TRP:CH2	2.90	0.54
6:AF:41:GLU:HB2	6:AF:62:TRP:HZ3	1.71	0.54
9:AI:48:GLU:N	9:AI:49:PRO:HD2	2.22	0.54
13:AM:88:ARG:HE	13:AM:98:VAL:C	2.10	0.54
18:AR:85:LEU:HG	18:AR:86:VAL:H	1.70	0.54
22:BB:3123:G:N2	53:B7:31:GLU:OE1	2.40	0.54
22:BB:1397:A:N9	22:BB:1418:C:C5	2.76	0.54
22:BB:1436:G:C2	22:BB:1508:G:C2	2.95	0.54
22:BB:1896:A:H2'	22:BB:1898:U:C5	2.40	0.54
22:BB:2023:C:H2'	22:BB:2024:U:H6	1.71	0.54
22:BB:2245:A:H4'	22:BB:2246:A:O5'	2.07	0.54
22:BB:2352:A:H2'	22:BB:2353:G:H8	1.71	0.54
22:BB:2368:G:H5''	22:BB:2369:U:N1	2.21	0.54
22:BB:45:C:H2'	22:BB:46:C:C6	2.42	0.54
22:BB:718:A:C2	22:BB:740:A:H1'	2.41	0.54
24:BD:170:SER:C	24:BD:172:TYR:H	2.10	0.54
28:BH:6:LYS:NZ	28:BH:6:LYS:HB2	2.22	0.54
32:BL:12:ASP:CG	32:BL:98:ILE:HG22	2.28	0.54
33:BM:101:ARG:N	33:BM:101:ARG:HD2	2.22	0.54
22:BB:2372:A:C4'	33:BM:60:LEU:N	2.70	0.54
37:BQ:100:ARG:NH1	37:BQ:120:ASP:HB3	2.19	0.54
23:BA:97:C:H5'	43:BW:11:LYS:HD2	1.84	0.54
43:BW:6:LYS:N	43:BW:7:PRO:HD2	2.22	0.54
22:BB:2343:C:C5'	44:BX:40:GLN:CG	2.85	0.54
44:BX:47:ALA:HB3	44:BX:49:GLN:NE2	2.20	0.54
46:BZ:6:VAL:HB	46:BZ:50:LEU:HB3	1.88	0.54
1:CA:1019:C:H2'	1:CA:1020:U:C5	2.42	0.54
1:CA:1294:G:H2'	1:CA:1295:G:C8	2.42	0.54
1:CA:619:U:C2	4:CD:133:VAL:CA	2.77	0.54
1:CA:658:G:O2'	1:CA:659:U:H5'	2.07	0.54
1:CA:978:A:H1'	1:CA:1321:C:N4	2.22	0.54
3:CC:135:LYS:HB3	3:CC:139:GLN:OE1	2.07	0.54
6:CF:6:VAL:HG22	6:CF:90:VAL:HA	1.89	0.54
7:CG:97:GLN:HG3	7:CG:98:SER:N	2.22	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:523:A:H61	12:CL:92:ASP:H	1.54	0.54
22:DB:2000:U:O2'	48:D2:8:LYS:HA	2.07	0.54
53:D7:215:VAL:HG12	53:D7:216:LYS:H	1.72	0.54
23:DA:116:C:H4'	36:DP:50:THR:HB	1.88	0.54
22:DB:1240:G:P	38:DR:16:LYS:HG2	2.47	0.54
22:DB:55:A:H1'	22:DB:125:A:C2	2.42	0.54
22:DB:1288:A:N6	22:DB:1309:G:H5'	2.19	0.54
22:DB:1408:A:H5'	22:DB:1619:A:OP2	2.08	0.54
22:DB:1506:C:OP1	24:DD:74:GLY:O	2.24	0.54
22:DB:2261:G:C2	22:DB:2406:C:O2	2.60	0.54
22:DB:2263:C:C5'	49:D3:8:ILE:HD11	2.38	0.54
22:DB:2312:A:H5'	22:DB:2315:A:N6	2.22	0.54
22:DB:2748:C:H2'	22:DB:2749:A:O4'	2.08	0.54
22:DB:2769:C:H2'	22:DB:2867:G:C2	2.42	0.54
22:DB:310:A:H2'	22:DB:311:A:C4	2.42	0.54
22:DB:422:C:H2'	22:DB:423:G:C8	2.42	0.54
22:DB:851:C:H2'	22:DB:852:U:C6	2.42	0.54
22:DB:857:U:C1'	22:DB:946:U:O2	2.54	0.54
22:DB:868:U:H2'	22:DB:869:C:C6	2.42	0.54
24:DD:224:SER:HA	24:DD:233:HIS:CG	2.42	0.54
22:DB:1835:C:H4'	24:DD:253:PRO:HB2	1.89	0.54
25:DE:4:ILE:HG13	25:DE:197:VAL:HA	1.88	0.54
22:DB:2229:G:N3	34:DN:84:MET:HA	2.21	0.54
22:DB:1666:G:H22	35:DO:106:ASP:CB	2.10	0.54
37:DQ:67:THR:HA	37:DQ:82:PRO:HB3	1.90	0.54
1:EA:1227:A:O3'	13:EM:111:LYS:HE2	1.71	0.54
1:EA:1291:G:C5'	7:EG:41:ARG:NH1	2.70	0.54
1:EA:133:U:H4'	1:EA:325:A:H1'	1.89	0.54
1:EA:258:G:OP2	20:ET:83:ARG:CG	2.42	0.54
1:EA:658:G:O2'	1:EA:659:U:H5'	2.07	0.54
1:EA:760:G:O6	17:EQ:105:ALA:N	2.23	0.54
1:EA:861:G:H1'	1:EA:874:G:H4'	1.89	0.54
3:EC:27:LYS:O	3:EC:30:ARG:HG2	2.06	0.54
4:ED:10:ARG:HA	4:ED:40:PRO:HG3	1.87	0.54
5:EE:18:ARG:NH1	5:EE:18:ARG:HB2	2.22	0.54
11:EK:63:LEU:HG	11:EK:66:LEU:HD12	1.88	0.54
14:EN:15:LYS:HD3	14:EN:16:PHE:HD1	1.72	0.54
1:EA:377:G:P	16:EP:5:ARG:HD3	2.45	0.54
19:ES:12:ASP:N	19:ES:38:SER:HB3	2.15	0.54
48:F2:4:HIS:O	48:F2:5:PRO:C	2.44	0.54
22:FB:2325:A:H61	49:F3:27:ASN:HB3	1.72	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:FA:14:C:N1	44:FX:53:MET:CB	2.70	0.54
22:FB:1232:U:H2'	22:FB:1243:G:N1	2.21	0.54
22:FB:1308:C:P	35:FO:71:HIS:CD2	3.00	0.54
22:FB:1584:G:H3'	24:FD:62:TYR:HH	1.71	0.54
22:FB:1675:C:H5''	25:FE:131:SER:OG	2.06	0.54
22:FB:1739:G:H2'	22:FB:1740:G:H8	1.72	0.54
22:FB:1789:U:H2'	22:FB:1790:G:O4'	2.08	0.54
22:FB:2284:U:O4'	27:FG:152:MET:HA	2.07	0.54
22:FB:2325:A:C2'	49:F3:25:THR:CG2	2.85	0.54
22:FB:2521:A:O2'	22:FB:2522:G:H5'	2.07	0.54
22:FB:2711:G:OP1	25:FE:203:LYS:CE	2.55	0.54
22:FB:339:U:O2'	42:FV:76:LEU:CG	2.54	0.54
22:FB:490:A:H2'	22:FB:492:G:H5''	1.88	0.54
22:FB:4:C:N3	22:FB:2874:A:C6	2.75	0.54
22:FB:507:A:OP2	40:FT:20:LEU:HD23	2.06	0.54
22:FB:929:A:H2'	22:FB:930:A:H5''	1.90	0.54
25:FE:4:ILE:HG13	25:FE:197:VAL:HA	1.88	0.54
30:FJ:112:MET:H	30:FJ:113:PRO:HD2	1.71	0.54
30:FJ:22:PRO:O	30:FJ:23:VAL:HG13	2.07	0.54
31:FK:84:ASN:HA	31:FK:152:ALA:HA	1.90	0.54
33:FM:140:VAL:HG13	33:FM:141:VAL:N	2.16	0.54
34:FN:106:GLU:CB	43:FW:115:ILE:HD11	2.23	0.54
22:FB:1003:C:P	38:FR:47:TYR:HH	2.30	0.54
42:FV:85:ASP:HB3	42:FV:86:PRO:HD3	1.89	0.54
1:GA:1228:C:O2	13:GM:118:ALA:O	2.26	0.54
1:GA:978:A:H1'	1:GA:1321:C:N4	2.22	0.54
1:GA:815:A:N7	1:GA:1508:G:N2	2.39	0.54
12:GL:8:ASN:HD22	17:GQ:34:LYS:CE	2.20	0.54
22:HB:2862:G:H22	48:H2:30:LEU:HD22	1.63	0.54
51:H5:34:THR:HA	51:H5:36:LYS:HZ1	1.72	0.54
23:HA:44:C:N4	23:HA:47:A:H61	2.04	0.54
23:HA:76:U:H2'	23:HA:77:G:H5'	1.89	0.54
22:HB:1453:A:C6	22:HB:1454:U:C2	2.96	0.54
22:HB:1608:U:H2'	22:HB:1609:G:C8	2.43	0.54
22:HB:1888:C:H2'	22:HB:1889:G:OP1	2.06	0.54
22:HB:2462:C:C2	34:HN:121:LEU:HD11	2.40	0.54
22:HB:2473:G:H2'	22:HB:2474:G:C8	2.42	0.54
22:HB:2521:A:O2'	22:HB:2522:G:H5'	2.07	0.54
22:HB:3876:A:C5	53:H7:44:GLY:C	2.80	0.54
22:HB:1855:G:H1	22:HB:3877:A:N6	2.04	0.54
22:HB:661:C:H2'	22:HB:662:G:H8	1.72	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:GF:82:ARG:HA	24:HD:137:PRO:HG3	1.89	0.54
22:HB:1797:C:O2'	24:HD:49:ILE:HD12	2.07	0.54
24:HD:91:ARG:HB2	24:HD:91:ARG:NH2	2.22	0.54
25:HE:92:ASN:H	25:HE:182:ILE:HD11	1.72	0.54
22:HB:627:A:OP1	26:HF:33:TRP:HH2	1.89	0.54
31:HK:30:LYS:HB3	31:HK:30:LYS:HZ3	1.72	0.54
32:HL:76:ARG:HB3	32:HL:90:ARG:HH22	1.71	0.54
34:HN:63:GLY:HA2	43:HW:111:GLY:H	1.66	0.54
35:HO:28:LEU:HA	35:HO:32:GLY:HA2	1.88	0.54
39:HS:32:LYS:HD3	39:HS:63:HIS:O	2.06	0.54
1:IA:19:C:P	5:IE:127:ASN:ND2	2.79	0.54
1:IA:213:G:H1'	1:IA:214:U:C6	2.43	0.54
1:IA:658:G:O2'	1:IA:659:U:H5'	2.07	0.54
1:IA:691:G:H1'	1:IA:696:A:H61	1.72	0.54
1:IA:913:A:OP1	12:IL:46:LYS:NZ	2.34	0.54
1:IA:919:A:C2'	1:IA:920:U:H6	2.06	0.54
3:IC:151:VAL:HG13	3:IC:199:LYS:O	2.08	0.54
4:ID:155:LEU:HB2	4:ID:158:ILE:HG13	1.88	0.54
7:IG:26:PHE:O	7:IG:30:ILE:HG13	2.07	0.54
1:IA:1349:A:N1	7:IG:33:ASP:O	2.41	0.54
1:IA:1180:A:C5'	9:II:103:THR:CG2	2.84	0.54
1:IA:685:G:O3'	11:IK:40:ILE:O	2.25	0.54
7:IG:149:ARG:C	11:IK:59:TYR:CE2	2.52	0.54
1:IA:1114:C:O4'	14:IN:60:SER:HB3	2.07	0.54
16:IP:34:GLU:HG3	16:IP:36:ILE:HG12	1.89	0.54
17:IQ:92:ARG:HA	17:IQ:92:ARG:HE	1.72	0.54
20:IT:34:LYS:O	20:IT:38:LYS:HG3	2.06	0.54
22:JB:2073:A:N3	47:J1:58:LYS:HE3	2.22	0.54
23:JA:40:C:O2	23:JA:50:U:H4'	2.07	0.54
22:JB:1269:G:OP1	26:JF:65:GLY:O	2.25	0.54
22:JB:1373:G:H2'	22:JB:1374:G:O4'	2.07	0.54
22:JB:1807:A:H5''	24:JD:63:ARG:HH11	1.51	0.54
22:JB:1911:A:H2'	22:JB:1912:G:O4'	2.08	0.54
22:JB:2002:A:OP2	48:J2:8:LYS:HA	2.08	0.54
22:JB:2352:A:H2'	22:JB:2353:G:H8	1.71	0.54
22:JB:2260:C:C3'	22:JB:2368:G:N2	2.71	0.54
22:JB:236:C:O2'	22:JB:632:A:H4'	2.07	0.54
22:JB:2722:C:OP2	52:J6:35:ARG:CA	2.56	0.54
22:JB:491:A:H1'	42:JV:53:VAL:HG12	0.65	0.54
22:JB:677:G:O2'	22:JB:678:G:O4'	2.16	0.54
24:JD:263:ARG:HG2	24:JD:264:LYS:H	1.72	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:JB:2008:C:OP1	25:JE:147:PRO:CB	2.55	0.54
32:JL:12:ASP:CG	32:JL:98:ILE:HG22	2.28	0.54
33:JM:75:VAL:HG22	33:JM:76:LYS:N	2.23	0.54
34:JN:12:LYS:HZ2	34:JN:12:LYS:HB3	1.71	0.54
34:JN:44:LYS:O	34:JN:45:SER:HB3	2.07	0.54
35:JO:28:LEU:HA	35:JO:32:GLY:HA2	1.89	0.54
22:JB:2823:G:C8	37:JQ:105:TYR:N	2.75	0.54
37:JQ:55:ILE:HB	37:JQ:71:ILE:HG12	1.87	0.54
1:AA:1019:C:H2'	1:AA:1020:U:C5	2.43	0.54
1:AA:439:A:H1'	4:AD:122:ARG:HH12	1.72	0.54
1:AA:705:U:H2'	1:AA:706:A:O4'	2.07	0.54
1:AA:859:A:O2'	2:AB:27:LYS:CE	2.47	0.54
1:AA:861:G:H1'	1:AA:874:G:H4'	1.88	0.54
3:AC:191:THR:HB	3:AC:194:GLY:C	2.28	0.54
4:AD:62:GLN:HE22	4:AD:65:ARG:NH1	2.05	0.54
6:AF:46:ARG:HH22	18:AR:35:ARG:HH12	1.54	0.54
1:AA:1382:C:H4'	7:AG:79:ARG:NE	2.22	0.54
9:AI:27:THR:HA	9:AI:32:ASP:CA	2.35	0.54
13:AM:48:LEU:HB3	13:AM:52:GLU:HB2	1.87	0.54
1:AA:1309:G:C5'	13:AM:88:ARG:NH1	2.66	0.54
10:AJ:64:GLU:OE2	14:AN:57:ARG:HB3	2.08	0.54
1:AA:236:G:O3'	17:AQ:25:ARG:NH2	2.40	0.54
17:AQ:45:HIS:O	17:AQ:47:PRO:HD3	2.07	0.54
1:AA:583:A:N9	17:AQ:91:ARG:NH1	2.56	0.54
1:AA:846:C:P	18:AR:23:LYS:HZ3	2.29	0.54
1:AA:1319:A:H5'	19:AS:70:LYS:HZ1	1.70	0.54
20:AT:26:ASN:HB3	20:AT:30:LYS:HZ1	1.71	0.54
22:BB:1081:A:C2	30:BJ:10:LEU:HD13	2.43	0.54
22:BB:1268:U:H5'	22:BB:1269:G:C5'	2.37	0.54
22:BB:18:U:H4'	38:BR:23:GLY:CA	2.36	0.54
22:BB:1979:C:C2'	22:BB:1980:A:H4'	2.35	0.54
22:BB:2521:A:O2'	22:BB:2522:G:H5'	2.07	0.54
22:BB:2523:G:H5'	22:BB:2624:G:C5	2.31	0.54
22:BB:2470:U:N3	22:BB:2548:G:H4'	2.16	0.54
22:BB:2748:C:H2'	22:BB:2749:A:O4'	2.08	0.54
22:BB:2797:G:OP1	25:BE:111:LYS:O	2.24	0.54
22:BB:2816:C:OP1	35:BO:53:THR:HG21	2.08	0.54
22:BB:320:A:H5''	22:BB:341:A:N6	2.23	0.54
22:BB:3877:A:N6	22:BB:1862:C:H42	2.05	0.54
22:BB:52:A:H2'	22:BB:53:G:O4'	2.07	0.54
22:BB:644:A:C5	22:BB:645:G:H1'	2.42	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:BB:706:A:H2'	22:BB:707:U:C6	2.42	0.54
22:BB:851:C:H2'	22:BB:852:U:C6	2.42	0.54
24:BD:224:SER:HA	24:BD:233:HIS:CG	2.42	0.54
24:BD:63:ARG:HH22	24:BD:88:ARG:HD3	1.72	0.54
22:BB:1673:C:OP1	25:BE:117:MET:HE2	2.08	0.54
29:BI:13:LYS:O	29:BI:13:LYS:HG2	2.07	0.54
29:BI:49:GLN:N	29:BI:51:ARG:HH12	2.05	0.54
35:BO:28:LEU:HD12	35:BO:34:ILE:HG13	1.88	0.54
42:BV:32:GLN:HE22	42:BV:49:GLU:HB2	1.72	0.54
45:BY:25:LEU:HD22	45:BY:28:LEU:HD12	1.88	0.54
1:CA:1517:G:H8	22:DB:1903:C:P	2.29	0.54
1:CA:34:C:H2'	1:CA:35:G:C8	2.43	0.54
1:CA:373:A:H3'	1:CA:374:A:H8	1.73	0.54
2:CB:29:ALA:C	2:CB:30:ARG:HE	2.11	0.54
5:CE:133:TYR:O	5:CE:137:GLU:HG2	2.07	0.54
10:CJ:63:PHE:N	14:CN:59:ALA:CB	2.70	0.54
18:CR:39:VAL:HG23	18:CR:43:PHE:HB2	1.88	0.54
22:DB:14:A:H2'	48:D2:21:SER:OG	2.07	0.54
22:DB:696:U:C4'	50:D4:16:HIS:HE1	2.11	0.54
23:DA:58:G:H4'	23:DA:59:A:H8	1.72	0.54
22:DB:1896:A:H2'	22:DB:1898:U:C5	2.41	0.54
22:DB:1998:A:O2'	48:D2:3:LYS:CE	2.48	0.54
22:DB:2242:C:H2'	22:DB:2243:C:H6	1.72	0.54
22:DB:2368:G:H5''	22:DB:2369:U:N1	2.21	0.54
22:DB:2459:C:H2'	22:DB:2460:G:O4'	2.08	0.54
22:DB:45:C:H2'	22:DB:46:C:C6	2.41	0.54
22:DB:672:C:H2'	22:DB:673:G:C8	2.42	0.54
24:DD:182:LEU:HB3	24:DD:269:PHE:HB3	1.89	0.54
22:DB:2611:A:H1'	25:DE:61:LYS:CD	2.37	0.54
33:DM:75:VAL:HG22	33:DM:76:LYS:N	2.22	0.54
34:DN:44:LYS:O	34:DN:45:SER:HB3	2.07	0.54
35:DO:59:ASP:H	35:DO:63:ARG:NE	2.05	0.54
43:DW:84:TYR:CG	43:DW:128:ARG:HG3	2.42	0.54
22:DB:1169:C:P	46:DZ:27:LYS:NZ	2.80	0.54
46:DZ:6:VAL:HB	46:DZ:50:LEU:HB3	1.88	0.54
1:EA:1114:C:H2'	14:EN:61:TRP:HB2	1.89	0.54
1:EA:1294:G:H2'	1:EA:1295:G:C8	2.42	0.54
1:EA:1329:A:H4'	13:EM:29:ARG:CZ	2.37	0.54
1:EA:1392:G:H2'	1:EA:1393:U:O4'	2.07	0.54
1:EA:279:A:H5''	17:EQ:95:TYR:OH	1.75	0.54
1:EA:34:C:H2'	1:EA:35:G:C8	2.43	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:EA:373:A:H3'	1:EA:374:A:H8	1.73	0.54
1:EA:620:C:O2'	4:ED:138:TYR:CD1	2.60	0.54
1:EA:768:A:H5''	1:EA:804:U:C5'	2.37	0.54
3:EC:191:THR:HB	3:EC:194:GLY:C	2.28	0.54
4:ED:14:ARG:HG2	4:ED:66:ARG:NH1	2.23	0.54
1:EA:589:C:H1'	8:EH:29:SER:HB2	1.80	0.54
8:EH:36:LEU:O	8:EH:39:LEU:HB2	2.07	0.54
11:EK:12:ARG:HB3	11:EK:14:VAL:HG23	1.90	0.54
1:EA:538:G:O4'	12:EL:114:LYS:HE2	2.06	0.54
50:F4:11:LYS:NZ	50:F4:11:LYS:HA	2.23	0.54
23:FA:58:G:H4'	23:FA:59:A:H8	1.72	0.54
22:FB:1039:A:N6	22:FB:1136:G:H2'	2.21	0.54
22:FB:1268:U:H5'	22:FB:1269:G:C5'	2.37	0.54
22:FB:1288:A:N6	22:FB:1309:G:H5'	2.19	0.54
22:FB:15:G:C2'	48:F2:18:MET:SD	2.92	0.54
22:FB:2023:C:H2'	22:FB:2024:U:H6	1.71	0.54
22:FB:2245:A:H4'	22:FB:2246:A:O5'	2.07	0.54
22:FB:2461:G:H22	34:FN:53:ILE:CG1	2.20	0.54
22:FB:2470:U:C2	22:FB:2549:G:P	3.00	0.54
22:FB:2701:A:C5	22:FB:2848:A:N6	2.75	0.54
22:FB:45:C:H2'	22:FB:46:C:C6	2.42	0.54
22:FB:706:A:H2'	22:FB:707:U:C6	2.42	0.54
32:FL:50:ILE:O	32:FL:73:VAL:HA	2.07	0.54
39:FS:20:ILE:H	39:FS:20:ILE:HD12	1.71	0.54
22:FB:999:A:H3'	46:FZ:9:VAL:HG23	1.88	0.54
1:GA:1191:A:OP1	3:GC:3:ASN:CB	2.55	0.54
1:GA:1343:G:H2'	1:GA:1344:C:C6	2.42	0.54
1:GA:550:G:H2'	1:GA:551:U:C6	2.42	0.54
1:GA:764:C:H4'	15:GO:50:HIS:NE2	2.22	0.54
2:GB:136:VAL:HA	2:GB:139:LYS:HB2	1.88	0.54
2:GB:29:ALA:C	2:GB:30:ARG:HE	2.11	0.54
4:GD:127:THR:HB	4:GD:147:ALA:HB3	1.87	0.54
7:GG:40:ALA:O	9:GI:41:VAL:HG21	2.08	0.54
8:GH:38:ILE:HA	8:GH:41:ARG:NH1	2.21	0.54
1:GA:1127:G:O3'	9:GI:16:ARG:NH2	2.40	0.54
9:GI:44:VAL:C	9:GI:51:ARG:HH22	2.10	0.54
1:GA:1059:C:O3'	10:GJ:51:ARG:C	2.45	0.54
12:GL:83:VAL:HG22	12:GL:84:LEU:N	2.23	0.54
1:GA:952:U:H2'	13:GM:123:ALA:O	2.05	0.54
1:GA:760:G:O2'	17:GQ:102:GLY:HA2	2.07	0.54
22:HB:1135:C:H2'	52:H6:4:ARG:C	2.18	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
53:H7:215:VAL:HG12	53:H7:216:LYS:H	1.72	0.54
22:HB:1004:A:C4	22:HB:1173:G:N1	2.75	0.54
22:HB:1279:G:OP1	48:H2:16:ARG:NH2	2.40	0.54
22:HB:1281:A:OP1	22:HB:1988:A:H5''	2.08	0.54
22:HB:203:G:H4'	22:HB:234:C:H5''	1.89	0.54
22:HB:2848:A:N3	35:HO:8:ARG:HB2	2.22	0.54
22:HB:2075:U:H5''	22:HB:3093:C:P	2.47	0.54
22:HB:648:A:P	33:HM:131:LYS:NZ	2.81	0.54
22:HB:706:A:H2'	22:HB:707:U:C6	2.42	0.54
22:HB:929:A:H2'	22:HB:930:A:H5''	1.90	0.54
25:HE:8:LYS:HD2	25:HE:192:ASN:ND2	2.22	0.54
26:HF:151:VAL:HG21	26:HF:188:ILE:HG23	1.89	0.54
28:HH:25:LYS:HG2	28:HH:33:LEU:O	2.07	0.54
29:HI:13:LYS:O	29:HI:13:LYS:HG2	2.06	0.54
30:HJ:119:SER:HB2	30:HJ:122:ALA:HB3	1.89	0.54
30:HJ:118:GLY:HA2	30:HJ:123:ALA:HB2	1.89	0.54
30:HJ:42:ASN:N	30:HJ:45:THR:HB	2.22	0.54
33:HM:101:ARG:HD2	33:HM:101:ARG:N	2.22	0.54
34:HN:95:VAL:HG23	34:HN:96:SER:H	1.72	0.54
37:HQ:85:SER:N	37:HQ:86:PRO:CD	2.70	0.54
38:HR:75:ASN:HB3	38:HR:79:PHE:HB2	1.89	0.54
41:HU:91:LEU:HD13	45:HY:24:GLU:OE2	2.04	0.54
42:HV:96:LYS:HE2	42:HV:106:VAL:HG21	1.88	0.54
22:HB:494:A:N9	42:HV:56:LYS:HB2	2.15	0.54
1:IA:1309:G:H8	13:IM:99:ARG:NH1	2.05	0.54
1:IA:1409:C:H5'	22:JB:1899:A:C6	2.43	0.54
1:IA:705:U:H2'	1:IA:706:A:O4'	2.07	0.54
1:IA:572:A:H5''	1:IA:917:G:H5'	1.88	0.54
1:IA:1104:G:O2'	2:IB:111:ARG:HD2	2.06	0.54
1:IA:1057:G:O2'	3:IC:196:LEU:C	2.46	0.54
3:IC:73:PRO:HG2	3:IC:75:VAL:HG23	1.89	0.54
5:IE:61:TYR:C	5:IE:63:ARG:H	2.11	0.54
9:II:48:GLU:N	9:II:49:PRO:HD2	2.22	0.54
22:JB:2063:A:H4'	47:J1:33:VAL:HA	1.89	0.54
22:JB:3170:A:H2'	53:J7:131:ARG:NH2	2.23	0.54
23:JA:31:A:H2'	23:JA:32:C:C6	2.42	0.54
23:JA:44:C:N4	23:JA:47:A:H61	2.05	0.54
22:JB:10:A:C2	22:JB:2608:A:N3	2.76	0.54
22:JB:1166:A:C3'	22:JB:1168:G:N7	2.71	0.54
22:JB:1313:U:H4'	22:JB:1314:A:O5'	2.08	0.54
22:JB:1726:C:O2'	22:JB:2833:C:H1'	2.07	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:JB:2023:C:H2'	22:JB:2024:U:H6	1.71	0.54
22:JB:2044:G:H5'	22:JB:2480:C:O2'	2.07	0.54
22:JB:6:A:H61	22:JB:2870:C:H42	1.54	0.54
22:JB:2570:C:C5	24:JD:237:GLU:O	2.61	0.54
26:JF:22:VAL:HG23	26:JF:109:ALA:HB1	1.89	0.54
26:JF:114:GLY:O	26:JF:116:LYS:HG3	2.08	0.54
26:JF:121:ASP:HB2	26:JF:133:PHE:HZ	1.73	0.54
27:JG:31:ILE:HG12	27:JG:96:MET:SD	2.48	0.54
31:JK:59:ALA:HA	31:JK:62:ILE:HG22	1.89	0.54
33:JM:100:ARG:HE	33:JM:101:ARG:HH12	1.56	0.54
39:JS:20:ILE:H	39:JS:20:ILE:HD12	1.71	0.54
22:JB:63:A:C1'	41:JU:62:ARG:HH21	2.20	0.54
22:JB:340:G:N7	42:JV:27:GLY:O	2.41	0.54
44:JX:66:LYS:HZ2	44:JX:66:LYS:HB2	1.71	0.54
22:JB:2315:A:C6	44:JX:70:ILE:HG21	2.43	0.54
1:AA:1151:A:C1'	10:AJ:39:PRO:HG3	2.37	0.54
1:AA:1267:C:O2	1:AA:1327:C:H4'	2.08	0.54
1:AA:133:U:H4'	1:AA:325:A:H1'	1.89	0.54
1:AA:23:C:H2'	1:AA:24:U:C6	2.43	0.54
1:AA:34:C:H2'	1:AA:35:G:C8	2.43	0.54
1:AA:836:G:OP2	18:AR:61:LYS:CE	2.55	0.54
7:AG:97:GLN:HG3	7:AG:98:SER:N	2.22	0.54
13:AM:88:ARG:CG	13:AM:91:ARG:CB	2.78	0.54
1:AA:625:G:P	16:AP:10:GLY:HA3	2.47	0.54
1:AA:955:U:O2	19:AS:80:TYR:HE1	1.89	0.54
20:AT:100:ILE:O	1:GA:180:U:N1	2.40	0.54
53:B7:215:VAL:HG12	53:B7:216:LYS:H	1.72	0.54
22:BB:3124:G:O2'	53:B7:31:GLU:OE2	2.21	0.54
23:BA:92:G:O6	34:BN:39:GLU:OE2	2.24	0.54
22:BB:1074:G:H1'	30:BJ:134:MET:SD	2.47	0.54
22:BB:1101:U:H2'	22:BB:1102:G:O4'	2.08	0.54
22:BB:1608:U:H2'	22:BB:1609:G:C8	2.43	0.54
22:BB:1670:G:P	22:BB:2797:G:C6	3.01	0.54
22:BB:1739:G:H2'	22:BB:1740:G:H8	1.73	0.54
22:BB:1778:U:H2'	22:BB:1779:C:C6	2.41	0.54
22:BB:2001:G:H2'	22:BB:2002:A:O4'	2.07	0.54
22:BB:2499:C:H41	22:BB:2521:A:H61	1.55	0.54
22:BB:399:G:H4'	22:BB:400:U:C5	2.43	0.54
22:BB:540:G:C5	22:BB:2018:G:H5''	2.43	0.54
22:BB:83:A:N6	42:BV:102:LYS:CE	2.71	0.54
22:BB:84:G:N2	22:BB:96:C:H2'	2.15	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:BS:32:LYS:HD3	39:BS:63:HIS:O	2.07	0.54
1:CA:1147:C:O2	9:CI:16:ARG:NH1	2.35	0.54
1:CA:133:U:H4'	1:CA:325:A:H1'	1.89	0.54
1:CA:332:G:H5''	20:CT:10:LEU:HB2	0.56	0.54
3:CC:191:THR:HB	3:CC:194:GLY:C	2.28	0.54
1:CA:438:G:C5'	4:CD:125:HIS:CD2	2.90	0.54
5:CE:61:TYR:C	5:CE:63:ARG:H	2.11	0.54
1:CA:706:A:C1'	11:CK:29:ILE:CD1	2.80	0.54
19:CS:15:LEU:HD22	19:CS:33:THR:HG23	1.89	0.54
49:D3:13:GLU:CG	49:D3:24:THR:HA	2.37	0.54
53:D7:50:GLU:HG3	53:D7:190:ILE:HD13	1.87	0.54
22:DB:419:G:OP1	53:D7:197:GLU:CG	2.55	0.54
23:DA:91:A:H2'	23:DA:92:G:O4'	2.07	0.54
22:DB:1039:A:N6	22:DB:1136:G:H2'	2.21	0.54
22:DB:1268:U:H5'	22:DB:1269:G:C5'	2.37	0.54
22:DB:1402:G:N3	22:DB:1412:C:C2	2.76	0.54
22:DB:1670:G:N1	35:DO:11:ASN:CG	2.60	0.54
22:DB:1739:G:H2'	22:DB:1740:G:H8	1.73	0.54
22:DB:1778:U:H2'	22:DB:1779:C:C6	2.42	0.54
1:CA:1483:A:C2	22:DB:1942:G:N3	2.75	0.54
22:DB:2001:G:H2'	22:DB:2002:A:O4'	2.07	0.54
22:DB:2023:C:H2'	22:DB:2024:U:H6	1.71	0.54
22:DB:215:G:O2'	22:DB:617:U:O2'	2.25	0.54
22:DB:2368:G:H5''	22:DB:2369:U:C6	2.42	0.54
22:DB:3876:A:H2'	22:DB:3877:A:H4'	1.89	0.54
22:DB:505:G:H21	40:DT:82:ASN:CG	2.04	0.54
22:DB:512:A:C4'	40:DT:15:LYS:HZ2	2.21	0.54
22:DB:726:G:H2'	22:DB:727:U:H5'	1.89	0.54
22:DB:764:A:H4'	22:DB:765:C:C5	2.42	0.54
22:DB:934:G:N2	44:DX:24:LYS:CB	2.70	0.54
27:DG:4:LEU:HB3	27:DG:97:TYR:HB3	1.89	0.54
28:DH:50:LEU:O	28:DH:51:LEU:HD12	2.07	0.54
22:DB:1033:G:C5	31:DK:94:LYS:HD2	2.42	0.54
34:DN:77:LYS:HB2	34:DN:92:GLU:CD	2.26	0.54
34:DN:99:LYS:CE	43:DW:73:LYS:HZ2	1.99	0.54
22:DB:1469:U:C5	35:DO:60:LEU:CD1	2.90	0.54
37:DQ:85:SER:N	37:DQ:86:PRO:CD	2.70	0.54
38:DR:94:VAL:HB	39:DS:10:LYS:HB3	1.89	0.54
39:DS:63:HIS:HE1	39:DS:93:ILE:HD13	1.71	0.54
41:DU:15:LYS:HG3	41:DU:19:ALA:HB2	1.88	0.54
42:DV:85:ASP:HB3	42:DV:86:PRO:HD3	1.89	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:EA:23:C:H2'	1:EA:24:U:C6	2.43	0.54
4:ED:205:GLU:HA	4:ED:208:SER:OG	2.08	0.54
6:EF:41:GLU:HB2	6:EF:62:TRP:HZ3	1.72	0.54
7:EG:26:PHE:O	7:EG:30:ILE:HG13	2.06	0.54
9:EI:17:VAL:HG13	9:EI:62:TYR:O	2.06	0.54
19:ES:41:VAL:HG23	19:ES:43:GLU:HG2	1.89	0.54
20:ET:39:LYS:HD2	20:ET:43:LEU:HD11	1.88	0.54
51:F5:26:LYS:HE3	51:F5:26:LYS:HA	1.88	0.54
22:FB:928:G:H1'	23:FA:102:A:O2'	2.07	0.54
22:FB:1608:U:H2'	22:FB:1609:G:C8	2.43	0.54
22:FB:1778:U:H2'	22:FB:1779:C:C6	2.42	0.54
22:FB:2001:G:H2'	22:FB:2002:A:O4'	2.07	0.54
22:FB:2007:G:H5'	25:FE:149:ARG:CD	2.23	0.54
22:FB:2326:C:OP2	49:F3:25:THR:HG23	2.08	0.54
22:FB:52:A:H2'	22:FB:53:G:O4'	2.07	0.54
22:FB:644:A:C5	22:FB:645:G:H1'	2.43	0.54
22:FB:672:C:H2'	22:FB:673:G:C8	2.43	0.54
22:FB:868:U:H2'	22:FB:869:C:C6	2.42	0.54
24:FD:182:LEU:HB3	24:FD:269:PHE:HB3	1.88	0.54
24:FD:213:ARG:O	24:FD:214:TRP:HB2	2.08	0.54
24:FD:225:ALA:H	24:FD:233:HIS:CE1	2.25	0.54
26:FF:114:GLY:O	26:FF:116:LYS:HG3	2.08	0.54
30:FJ:118:GLY:HA2	30:FJ:123:ALA:HB2	1.90	0.54
30:FJ:42:ASN:N	30:FJ:45:THR:HB	2.22	0.54
32:FL:11:ALA:HB2	32:FL:19:ILE:HG21	1.88	0.54
35:FO:59:ASP:H	35:FO:63:ARG:NE	2.05	0.54
22:FB:455:A:HO2'	38:FR:2:PRO:CD	2.20	0.54
39:FS:63:HIS:HE1	39:FS:93:ILE:HD13	1.71	0.54
27:DG:179:LYS:CD	1:GA:1021:G:C4'	2.53	0.54
1:GA:1064:G:H22	1:GA:1190:G:H2'	1.71	0.54
1:GA:1106:G:OP1	3:GC:171:GLY:C	2.46	0.54
1:GA:691:G:H1'	1:GA:696:A:H61	1.72	0.54
1:GA:705:U:H2'	1:GA:706:A:O4'	2.08	0.54
3:GC:151:VAL:HG13	3:GC:200:ALA:HA	1.90	0.54
3:GC:191:THR:HB	3:GC:194:GLY:C	2.28	0.54
4:GD:10:ARG:O	4:GD:14:ARG:HB2	2.06	0.54
1:GA:412:A:C2	4:GD:30:LYS:C	2.80	0.54
7:GG:147:ALA:HB1	11:GK:54:ARG:NH1	2.23	0.54
8:GH:89:PRO:HA	8:GH:92:ARG:HH11	1.72	0.54
11:GK:12:ARG:HB3	11:GK:14:VAL:HG23	1.90	0.54
11:GK:63:LEU:HG	11:GK:66:LEU:HD12	1.88	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:GL:11:VAL:HG22	17:GQ:32:TYR:HB2	0.64	0.54
18:GR:34:TYR:HA	18:GR:37:VAL:HG23	1.90	0.54
1:GA:107:G:C5	20:GT:15:ARG:HB2	2.41	0.54
47:H1:19:GLN:NE2	47:H1:31:ILE:HA	2.21	0.54
22:HB:2862:G:N2	48:H2:30:LEU:HD13	2.22	0.54
49:H3:15:SER:O	49:H3:50:PHE:HA	2.06	0.54
22:HB:1142:G:N7	31:HK:105:GLY:CA	2.70	0.54
22:HB:1172:U:H2'	22:HB:1173:G:C8	2.42	0.54
22:HB:1313:U:H4'	22:HB:1314:A:O5'	2.08	0.54
22:HB:1370:U:C5'	50:H4:23:LYS:HB3	2.36	0.54
22:HB:1381:G:C5	47:H1:1:MET:SD	3.00	0.54
22:HB:1739:G:H2'	22:HB:1740:G:H8	1.72	0.54
22:HB:2016:A:H2'	22:HB:2019:C:N4	2.22	0.54
22:HB:2241:U:N1	22:HB:2306:A:C2	2.75	0.54
22:HB:236:C:C1'	22:HB:632:A:O2'	2.56	0.54
22:HB:2594:U:H3	48:H2:9:LYS:HE3	0.63	0.54
22:HB:2858:A:H3'	48:H2:52:TYR:CE1	2.43	0.54
22:HB:2861:A:C2	48:H2:31:THR:CB	2.74	0.54
22:HB:64:C:C4	22:HB:88:G:C6	2.96	0.54
27:HG:31:ILE:HG12	27:HG:96:MET:SD	2.47	0.54
29:HI:45:THR:HG23	29:HI:49:GLN:OE1	2.07	0.54
30:HJ:53:ILE:HA	30:HJ:72:PRO:HB3	1.88	0.54
22:HB:1148:G:C3'	31:HK:134:MET:SD	2.95	0.54
35:HO:28:LEU:HD12	35:HO:34:ILE:HG13	1.88	0.54
36:HP:69:ALA:HB2	36:HP:102:ALA:HB1	1.88	0.54
41:HU:53:ILE:HA	41:HU:80:VAL:HA	1.89	0.54
43:HW:49:THR:OG1	43:HW:132:GLN:NE2	2.39	0.54
1:IA:1284:C:H3'	1:IA:1285:A:C8	2.42	0.54
1:IA:978:A:H1'	1:IA:1321:C:N4	2.22	0.54
1:IA:191:G:N2	20:IT:56:MET:HE1	2.22	0.54
22:JB:221:A:OP2	51:J5:7:HIS:ND1	2.40	0.54
22:JB:220:U:OP2	51:J5:7:HIS:NE2	2.40	0.54
22:JB:3105:G:OP1	53:J7:35:THR:N	2.36	0.54
22:JB:1040:A:C1'	22:JB:2465:G:O4'	2.54	0.54
22:JB:1174:G:H4'	39:JS:87:ARG:HH11	1.71	0.54
22:JB:1583:A:N6	24:JD:89:SER:HA	2.22	0.54
22:JB:1608:U:H2'	22:JB:1609:G:C8	2.43	0.54
1:IA:1407:C:O2'	22:JB:1901:A:H1'	2.08	0.54
22:JB:2065:A:H2'	22:JB:2066:G:O4'	2.08	0.54
22:JB:2301:A:H2'	22:JB:2302:G:O4'	2.06	0.54
22:JB:2337:A:H2'	22:JB:2337:A:N3	2.22	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:JB:2511:G:H5''	28:JH:157:TYR:OH	2.07	0.54
22:JB:2707:G:C4'	32:JL:82:LYS:NZ	2.71	0.54
22:JB:542:A:O2'	38:JR:24:PHE:CD1	2.60	0.54
22:JB:542:A:O3'	38:JR:24:PHE:CD2	2.35	0.54
22:JB:672:C:H2'	22:JB:673:G:C8	2.42	0.54
22:JB:706:A:H2'	22:JB:707:U:C6	2.43	0.54
22:JB:999:A:H4'	22:JB:1166:A:C2	2.43	0.54
28:JH:6:LYS:HB2	28:JH:6:LYS:HZ2	1.73	0.54
32:JL:50:ILE:O	32:JL:73:VAL:HA	2.08	0.54
22:JB:222:G:P	33:JM:67:ASN:OD1	2.64	0.54
37:JQ:59:GLY:HA2	37:JQ:105:TYR:HA	1.88	0.54
37:JQ:67:THR:HA	37:JQ:82:PRO:HB3	1.90	0.54
39:JS:63:HIS:HE1	39:JS:93:ILE:HD13	1.71	0.54
42:JV:32:GLN:HE22	42:JV:49:GLU:HB2	1.72	0.54
42:JV:59:LYS:HB3	42:JV:65:PRO:HA	1.90	0.54
22:JB:2259:G:C6	44:JX:12:ASN:HB2	2.21	0.54
1:AA:1103:C:OP1	2:AB:98:LEU:CD1	2.56	0.54
1:AA:1146:A:C2	9:AI:5:TYR:CE1	2.96	0.54
1:AA:1382:C:O2	7:AG:77:SER:CB	2.54	0.54
1:AA:1512:U:H2'	1:AA:1513:A:H8	1.72	0.54
1:AA:740:U:C1'	15:AO:42:HIS:CG	2.80	0.54
1:AA:975:A:C2	1:AA:1357:A:H1'	2.42	0.54
3:AC:178:LEU:O	3:AC:179:ARG:HG3	2.08	0.54
6:AF:6:VAL:HG22	6:AF:90:VAL:HA	1.90	0.54
14:AN:31:ARG:N	14:AN:31:ARG:HD2	2.23	0.54
50:B4:3:ARG:HG3	50:B4:4:THR:HG22	1.88	0.54
23:BA:105:G:C5'	43:BW:92:VAL:CG2	2.69	0.54
22:BB:1408:A:H5'	22:BB:1619:A:OP2	2.08	0.54
22:BB:1790:G:H1'	22:BB:1811:A:N6	2.22	0.54
22:BB:1789:U:H2'	22:BB:1790:G:O4'	2.08	0.54
22:BB:2229:G:O6	34:BN:85:GLY:O	2.23	0.54
22:BB:2368:G:H5''	22:BB:2369:U:C6	2.43	0.54
22:BB:2459:C:H2'	22:BB:2460:G:O4'	2.08	0.54
22:BB:2767:C:H5'	25:BE:64:GLN:OE1	2.07	0.54
22:BB:523:A:H2	38:BR:11:ARG:CZ	2.20	0.54
25:BE:11:MET:CE	25:BE:12:THR:H	2.20	0.54
22:BB:2557:G:C2'	25:BE:133:LYS:HE3	2.37	0.54
34:BN:95:VAL:HG23	34:BN:96:SER:H	1.72	0.54
46:BZ:4:LYS:HG2	46:BZ:31:SER:HB2	1.90	0.54
1:CA:23:C:H2'	1:CA:24:U:C6	2.43	0.54
1:CA:334:C:O2'	1:CA:1434:A:O2'	2.11	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:32:A:H2'	1:CA:33:A:H8	1.71	0.54
1:CA:402:G:O4'	1:CA:621:A:C2	2.60	0.54
1:CA:705:U:H2'	1:CA:706:A:O4'	2.08	0.54
1:CA:899:C:N4	24:DD:4:LYS:NZ	2.43	0.54
3:CC:178:LEU:O	3:CC:179:ARG:HG3	2.08	0.54
3:CC:43:LEU:HD12	3:CC:44:GLU:N	2.22	0.54
3:CC:83:ARG:O	3:CC:87:LEU:HG	2.07	0.54
4:CD:152:SER:O	4:CD:158:ILE:HD13	2.06	0.54
4:CD:62:GLN:HE22	4:CD:65:ARG:NH1	2.05	0.54
1:CA:1351:U:H5'	7:CG:33:ASP:OD1	2.07	0.54
14:CN:31:ARG:N	14:CN:31:ARG:HD2	2.23	0.54
19:CS:39:THR:HA	19:CS:69:HIS:O	2.07	0.54
22:DB:177:U:H4'	47:D1:31:ILE:HD13	1.89	0.54
22:DB:2325:A:H2'	49:D3:25:THR:HG21	1.89	0.54
22:DB:930:A:H1'	23:DA:82:U:H1'	1.89	0.54
22:DB:1373:G:H2'	22:DB:1374:G:O4'	2.07	0.54
22:DB:1427:G:H2'	22:DB:1428:G:H5'	1.89	0.54
22:DB:589:C:OP1	38:DR:33:ARG:HD3	2.08	0.54
22:DB:644:A:C5	22:DB:645:G:H1'	2.43	0.54
22:DB:7:G:C1'	31:DK:163:PRO:HG2	2.37	0.54
22:DB:977:G:H2'	22:DB:978:U:C6	2.43	0.54
22:DB:2752:C:C1'	25:DE:166:THR:CG2	2.85	0.54
26:DF:121:ASP:HB2	26:DF:133:PHE:HZ	1.72	0.54
25:DE:151:TYR:CA	31:DK:106:TYR:OH	2.46	0.54
32:DL:12:ASP:CG	32:DL:98:ILE:HG22	2.28	0.54
22:DB:1040:A:C3'	34:DN:125:LYS:NZ	2.67	0.54
22:DB:965:G:P	34:DN:18:MET:CA	2.84	0.54
34:DN:98:VAL:HG22	43:DW:73:LYS:NZ	2.21	0.54
22:DB:863:C:H5''	46:DZ:18:LYS:HG2	1.88	0.54
1:EA:1226:C:O3'	13:EM:111:LYS:CE	2.49	0.54
1:EA:1343:G:H2'	1:EA:1344:C:C6	2.42	0.54
1:EA:1395:C:H5'	1:EA:1401:G:N2	2.22	0.54
1:EA:670:G:H2'	1:EA:671:G:H8	1.72	0.54
1:EA:674:G:H5'	6:EF:50:TYR:OH	2.07	0.54
3:EC:151:VAL:HG13	3:EC:199:LYS:O	2.08	0.54
7:EG:16:LEU:HG	9:EI:41:VAL:CA	2.31	0.54
7:EG:97:GLN:HG3	7:EG:98:SER:N	2.22	0.54
12:EL:83:VAL:HG22	12:EL:84:LEU:N	2.23	0.54
19:ES:51:VAL:HG12	19:ES:52:TYR:N	2.23	0.54
47:F1:2:GLN:C	47:F1:55:ARG:HE	2.10	0.54
23:FA:40:C:O2	23:FA:50:U:H4'	2.07	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:FB:1135:C:O2'	52:F6:4:ARG:CB	2.50	0.54
22:FB:1427:G:H2'	22:FB:1428:G:H5'	1.89	0.54
22:FB:1453:A:H3'	22:FB:1454:U:C5	2.43	0.54
22:FB:1586:A:C5	22:FB:1587:A:C2	2.95	0.54
22:FB:1790:G:H1'	22:FB:1811:A:N6	2.22	0.54
22:FB:2242:C:H2'	22:FB:2243:C:H6	1.73	0.54
22:FB:2288:A:H2'	22:FB:2289:A:O4'	2.07	0.54
22:FB:2368:G:H5''	22:FB:2369:U:N1	2.21	0.54
22:FB:2368:G:H5''	22:FB:2369:U:C6	2.42	0.54
22:FB:2498:U:C5'	22:FB:2546:G:H21	2.14	0.54
22:FB:2653:A:O2'	32:FL:43:ARG:HD3	2.08	0.54
22:FB:2724:G:H2'	22:FB:2725:C:C6	2.43	0.54
22:FB:2714:A:N6	22:FB:2750:G:C4	2.69	0.54
22:FB:3138:C:H2'	22:FB:3139:U:O4'	2.08	0.54
22:FB:726:G:H2'	22:FB:727:U:H5'	1.89	0.54
22:FB:953:G:H4'	22:FB:1203:A:H1'	1.89	0.54
22:FB:742:G:O6	24:FD:208:LYS:HD2	2.07	0.54
25:FE:11:MET:CE	25:FE:12:THR:H	2.20	0.54
27:FG:167:ARG:HD2	27:FG:170:LEU:HD22	1.89	0.54
27:FG:31:ILE:HG12	27:FG:96:MET:SD	2.47	0.54
28:FH:33:LEU:HG	28:FH:75:ALA:HB2	1.89	0.54
29:FI:45:THR:HG23	29:FI:49:GLN:OE1	2.07	0.54
22:FB:23:G:HO2'	40:FT:96:TYR:HE2	1.50	0.54
43:FW:6:LYS:N	43:FW:7:PRO:HD2	2.22	0.54
22:FB:940:G:N1	46:FZ:37:THR:HG21	2.22	0.54
1:GA:1284:C:H3'	1:GA:1285:A:C8	2.42	0.54
1:GA:975:A:C2	1:GA:1357:A:H1'	2.43	0.54
1:GA:1377:A:P	7:GG:95:ARG:NH1	2.79	0.54
1:GA:1433:A:H4'	37:HQ:116:ARG:HH11	1.72	0.54
1:GA:163:C:H2'	1:GA:164:U:H5'	1.89	0.54
1:GA:505:G:H2'	1:GA:506:G:C8	2.42	0.54
1:GA:637:G:H2'	1:GA:638:G:H8	1.71	0.54
1:GA:670:G:H2'	1:GA:671:G:H8	1.72	0.54
1:GA:727:G:H2'	1:GA:729:A:OP2	2.08	0.54
1:GA:861:G:H1'	1:GA:874:G:H4'	1.89	0.54
6:GF:36:ARG:NH1	6:GF:36:ARG:HB2	2.23	0.54
19:GS:38:SER:O	19:GS:71:LEU:HG	2.07	0.54
22:HB:2063:A:C3'	47:H1:33:VAL:HG22	2.36	0.54
47:H1:5:LEU:HD13	47:H1:55:ARG:HB3	1.90	0.54
22:HB:2602:G:C2'	48:H2:22:HIS:CE1	2.91	0.54
23:HA:31:A:H2'	23:HA:32:C:C6	2.42	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:HA:40:C:O2	23:HA:50:U:H4'	2.07	0.54
22:HB:953:G:H4'	22:HB:1203:A:H1'	1.89	0.54
22:HB:48:A:H62	22:HB:143:A:H2	1.55	0.54
22:HB:1829:C:O2'	22:HB:1910:A:C2'	2.56	0.54
22:HB:1911:A:H2'	22:HB:1912:G:O4'	2.08	0.54
22:HB:2023:C:H2'	22:HB:2024:U:H6	1.71	0.54
22:HB:2312:A:H5'	22:HB:2315:A:N6	2.22	0.54
22:HB:2352:A:H2'	22:HB:2353:G:H8	1.71	0.54
22:HB:838:A:H5''	22:HB:2407:G:C5	2.42	0.54
22:HB:2044:G:H5'	22:HB:2480:C:O2'	2.07	0.54
22:HB:1750:A:H5'	22:HB:2695:C:O2'	2.07	0.54
22:HB:3138:C:H2'	22:HB:3139:U:O4'	2.08	0.54
22:HB:574:C:H5''	39:HS:82:ARG:NH2	2.20	0.54
22:HB:672:C:H2'	22:HB:673:G:C8	2.42	0.54
24:HD:78:LYS:HD3	24:HD:96:HIS:HB3	1.89	0.54
26:HF:114:GLY:O	26:HF:116:LYS:HG3	2.08	0.54
28:HH:101:LYS:O	28:HH:117:PRO:HD2	2.08	0.54
28:HH:164:PHE:HB2	28:HH:167:GLU:OE1	2.07	0.54
28:HH:50:LEU:O	28:HH:51:LEU:HD12	2.07	0.54
31:HK:49:VAL:HG11	31:HK:88:VAL:HA	1.89	0.54
1:GA:346:G:OP1	32:HL:133:VAL:HG21	2.07	0.54
37:HQ:100:ARG:NH1	37:HQ:120:ASP:HB3	2.19	0.54
37:HQ:67:THR:HA	37:HQ:82:PRO:HB3	1.90	0.54
1:IA:1064:G:H22	1:IA:1190:G:H2'	1.71	0.54
1:IA:1343:G:H2'	1:IA:1344:C:C6	2.42	0.54
3:IC:135:LYS:HB3	3:IC:139:GLN:OE1	2.07	0.54
3:IC:142:MET:HA	3:IC:145:GLY:O	2.07	0.54
4:ID:205:GLU:HA	4:ID:208:SER:OG	2.08	0.54
6:IF:6:VAL:HG22	6:IF:90:VAL:HA	1.90	0.54
12:IL:47:LYS:HG3	12:IL:48:PRO:CD	2.37	0.54
13:IM:70:LEU:C	13:IM:72:ALA:H	2.11	0.54
10:IJ:50:ILE:O	14:IN:45:ARG:HD2	2.08	0.54
1:IA:1186:G:H21	14:IN:61:TRP:C	1.99	0.54
6:IF:89:MET:CE	18:IR:76:LEU:HD21	2.36	0.54
47:J1:2:GLN:C	47:J1:55:ARG:HE	2.10	0.54
23:JA:77:G:H1	23:JA:105:G:H1	1.54	0.54
22:JB:46:C:N4	22:JB:156:G:N1	2.22	0.54
22:JB:2016:A:H2'	22:JB:2019:C:N4	2.22	0.54
22:JB:217:U:H5''	22:JB:634:G:H4'	1.89	0.54
22:JB:2368:G:H5''	22:JB:2369:U:N1	2.22	0.54
22:JB:2397:A:H2'	22:JB:2398:U:O4'	2.07	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:JB:23:G:H1'	40:JT:96:TYR:CE2	2.40	0.54
22:JB:2533:U:C6	22:JB:2535:C:N4	2.76	0.54
22:JB:2748:C:H2'	22:JB:2749:A:O4'	2.07	0.54
22:JB:2823:G:H5''	37:JQ:103:LYS:O	2.07	0.54
22:JB:3138:C:H2'	22:JB:3139:U:O4'	2.08	0.54
22:JB:940:G:OP1	46:JZ:35:SER:HB2	2.08	0.54
24:JD:224:SER:HA	24:JD:233:HIS:CG	2.42	0.54
25:JE:55:ALA:HA	25:JE:58:LYS:NZ	2.23	0.54
27:JG:167:ARG:HD2	27:JG:170:LEU:HD22	1.89	0.54
27:JG:98:VAL:O	27:JG:101:GLU:HB3	2.08	0.54
22:JB:2637:C:N4	28:JH:181:GLY:CA	2.63	0.54
37:JQ:12:LEU:HG	37:JQ:16:ILE:HG13	1.88	0.54
22:JB:513:A:P	40:JT:15:LYS:O	2.65	0.54
43:JW:51:LEU:CG	43:JW:128:ARG:NH2	2.70	0.54
22:JB:868:U:H1'	44:JX:25:LYS:HE2	1.89	0.54
1:AA:1347:G:H2'	1:AA:1373:G:C6	2.42	0.54
1:AA:1453:G:O2'	1:AA:1454:G:H5'	2.07	0.54
13:AM:88:ARG:N	13:AM:91:ARG:HG2	2.23	0.54
22:BB:2861:A:C2'	48:B2:33:CYS:O	2.55	0.54
23:BA:59:A:O4'	27:BG:23:SER:CB	2.51	0.54
23:BA:92:G:N1	34:BN:39:GLU:CD	2.60	0.54
22:BB:1373:G:H2'	22:BB:1374:G:O4'	2.07	0.54
22:BB:1887:G:C2	22:BB:1888:C:C1'	2.87	0.54
1:AA:1495:U:H4'	22:BB:1895:A:C2	2.43	0.54
22:BB:2242:C:H2'	22:BB:2243:C:H6	1.73	0.54
22:BB:726:G:H2'	22:BB:727:U:H5'	1.89	0.54
22:BB:868:U:H2'	22:BB:869:C:C6	2.42	0.54
22:BB:94:C:H2'	45:BY:41:HIS:HD2	1.73	0.54
24:BD:83:GLU:O	24:BD:92:ILE:HG22	2.08	0.54
32:BL:50:ILE:O	32:BL:73:VAL:HA	2.07	0.54
22:BB:596:C:OP1	33:BM:30:ALA:O	2.25	0.54
22:BB:760:U:H4'	40:BT:110:ALA:CB	2.37	0.54
41:BU:53:ILE:HA	41:BU:80:VAL:HA	1.89	0.54
1:CA:1320:C:C4	19:CS:36:ARG:CG	2.87	0.54
1:CA:1343:G:H2'	1:CA:1344:C:C6	2.42	0.54
1:CA:1453:G:O2'	1:CA:1454:G:H5'	2.07	0.54
1:CA:407:G:C1'	4:CD:116:GLN:CB	2.85	0.54
2:CB:27:LYS:HD2	2:CB:193:ASP:HB3	1.90	0.54
49:D3:15:SER:O	49:D3:50:PHE:HA	2.06	0.54
22:DB:475:U:H5'	50:D4:5:TYR:HB3	1.89	0.54
22:DB:164:G:H4'	47:D1:12:CYS:CA	2.36	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:DB:1790:G:H1'	22:DB:1811:A:N6	2.22	0.54
22:DB:1805:G:H5''	24:DD:43:ARG:HA	1.88	0.54
22:DB:2288:A:H2'	22:DB:2289:A:O4'	2.07	0.54
22:DB:2044:G:H5'	22:DB:2480:C:O2'	2.07	0.54
22:DB:2499:C:H41	22:DB:2521:A:H61	1.55	0.54
22:DB:2724:G:H2'	22:DB:2725:C:C6	2.43	0.54
22:DB:2745:A:O2'	22:DB:2746:G:C5'	2.39	0.54
22:DB:3138:C:H2'	22:DB:3139:U:O4'	2.08	0.54
22:DB:399:G:H4'	22:DB:400:U:C5	2.43	0.54
22:DB:497:C:H4'	40:DT:80:LEU:CD1	2.37	0.54
22:DB:52:A:H2'	22:DB:53:G:O4'	2.08	0.54
22:DB:706:A:H2'	22:DB:707:U:C6	2.43	0.54
22:DB:929:A:H2'	22:DB:930:A:H5''	1.90	0.54
22:DB:1675:C:C5	25:DE:134:TRP:CZ2	2.96	0.54
22:DB:1992:G:C4'	40:DT:62:ARG:HA	2.37	0.54
42:DV:59:LYS:HB3	42:DV:65:PRO:HA	1.90	0.54
34:DN:99:LYS:NZ	43:DW:73:LYS:HZ1	2.01	0.54
45:DY:14:PHE:HA	45:DY:17:GLU:HB2	1.90	0.54
45:DY:51:ALA:C	45:DY:53:LEU:H	2.11	0.54
46:DZ:45:LYS:HA	46:DZ:48:LYS:HZ3	1.73	0.54
1:EA:1057:G:OP1	3:EC:155:GLY:CA	2.55	0.54
1:EA:1515:C:H1'	1:EA:1521:G:N2	2.21	0.54
1:EA:32:A:H2'	1:EA:33:A:H8	1.71	0.54
1:EA:705:U:H2'	1:EA:706:A:O4'	2.07	0.54
1:EA:865:A:P	1:EA:1078:U:H3	2.28	0.54
3:EC:151:VAL:HG13	3:EC:200:ALA:HA	1.90	0.54
3:EC:18:TRP:NE1	14:EN:53:LEU:CA	2.69	0.54
1:EA:407:G:C1'	4:ED:116:GLN:HG3	2.37	0.54
9:EI:44:VAL:C	9:EI:51:ARG:HH22	2.11	0.54
1:EA:686:U:C1'	11:EK:42:TRP:CE2	2.89	0.54
13:EM:70:LEU:C	13:EM:72:ALA:H	2.10	0.54
14:EN:22:THR:O	14:EN:23:ARG:HB2	2.06	0.54
18:ER:39:VAL:HG23	18:ER:43:PHE:HB2	1.88	0.54
23:FA:57:U:O4'	27:FG:26:MET:HE3	2.07	0.54
22:FB:1101:U:H2'	22:FB:1102:G:O4'	2.08	0.54
22:FB:1373:G:H2'	22:FB:1374:G:O4'	2.07	0.54
22:FB:1516:A:H1'	24:FD:98:ALA:HB2	1.44	0.54
22:FB:1630:A:N6	40:FT:108:PRO:O	2.41	0.54
22:FB:1861:G:P	22:FB:1862:C:OP2	2.65	0.54
22:FB:1281:A:OP1	22:FB:1988:A:H5''	2.08	0.54
22:FB:2264:C:OP2	49:F3:28:ARG:CG	2.55	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:FB:2372:A:C2	33:FM:59:ARG:CZ	2.91	0.54
22:FB:2576:G:OP1	24:FD:241:GLY:HA3	2.08	0.54
22:FB:2623:A:C2'	22:FB:2624:G:C2	2.91	0.54
22:FB:2637:C:P	28:FH:179:THR:HG21	2.48	0.54
22:FB:399:G:H4'	22:FB:400:U:C5	2.43	0.54
22:FB:506:G:OP1	40:FT:22:LYS:O	2.24	0.54
22:FB:863:C:C1'	46:FZ:43:MET:HG2	2.38	0.54
26:FF:121:ASP:HB2	26:FF:133:PHE:HZ	1.73	0.54
27:FG:138:PHE:O	27:FG:139:PRO:C	2.44	0.54
22:FB:2646:C:O2'	28:FH:111:HIS:HB3	2.08	0.54
22:FB:2637:C:N4	28:FH:181:GLY:HA2	2.21	0.54
34:FN:98:VAL:O	34:FN:99:LYS:HD3	2.07	0.54
37:FQ:61:GLY:HA3	37:FQ:66:PHE:HD1	1.72	0.54
22:FB:497:C:H1'	40:FT:82:ASN:ND2	2.20	0.54
42:FV:59:LYS:HB3	42:FV:65:PRO:HA	1.90	0.54
44:FX:47:ALA:H	44:FX:75:GLY:HA3	1.72	0.54
1:GA:1377:A:OP1	7:GG:95:ARG:NH1	2.41	0.54
1:GA:1512:U:H2'	1:GA:1513:A:H8	1.71	0.54
2:GB:27:LYS:HD2	2:GB:193:ASP:HB3	1.90	0.54
3:GC:151:VAL:HG13	3:GC:199:LYS:O	2.07	0.54
3:GC:43:LEU:HD12	3:GC:44:GLU:N	2.22	0.54
3:GC:73:PRO:HG2	3:GC:75:VAL:HG23	1.89	0.54
1:GA:1060:C:P	10:GJ:51:ARG:HB3	2.48	0.54
1:GA:911:U:C4	12:GL:23:LYS:HE2	2.42	0.54
1:GA:1229:A:C5'	13:GM:116:THR:HG22	2.37	0.54
16:GP:34:GLU:HG3	16:GP:36:ILE:HG12	1.89	0.54
17:GQ:92:ARG:HE	17:GQ:92:ARG:HA	1.72	0.54
51:H5:35:GLY:N	51:H5:36:LYS:HZ3	2.01	0.54
22:HB:1010:U:O2	22:HB:1168:G:C2	2.61	0.54
22:HB:2029:G:O2'	48:H2:19:ARG:NH1	2.40	0.54
22:HB:2368:G:H5''	22:HB:2369:U:N1	2.22	0.54
22:HB:2713:A:O3'	22:HB:2714:A:P	2.66	0.54
22:HB:2724:G:H2'	22:HB:2725:C:C6	2.43	0.54
22:HB:2669:C:OP1	22:HB:2847:G:O6	2.26	0.54
22:HB:3876:A:H2'	22:HB:3877:A:H4'	1.89	0.54
22:HB:1816:G:N2	24:HD:252:LYS:HE3	2.23	0.54
22:HB:648:A:P	33:HM:131:LYS:HZ3	2.30	0.54
22:HB:819:C:OP2	33:HM:41:SER:HA	2.07	0.54
34:HN:65:ILE:CB	43:HW:115:ILE:CD1	2.86	0.54
42:HV:32:GLN:HE22	42:HV:49:GLU:HB2	1.73	0.54
43:HW:6:LYS:N	43:HW:7:PRO:HD2	2.22	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:HZ:4:LYS:HG2	46:HZ:31:SER:HB2	1.90	0.54
46:HZ:45:LYS:HA	46:HZ:48:LYS:HZ3	1.72	0.54
1:IA:1226:C:N1	13:IM:104:ARG:CB	2.51	0.54
1:IA:1479:C:H2'	1:IA:1480:G:C8	2.42	0.54
1:IA:816:A:P	1:IA:1526:G:N3	2.79	0.54
1:IA:322:C:H2'	1:IA:323:U:O4'	2.06	0.54
1:IA:13:U:H4'	1:IA:914:A:OP2	2.07	0.54
1:IA:922:G:O2'	5:IE:19:MET:HE1	2.06	0.54
6:IF:46:ARG:NH1	18:IR:35:ARG:NH1	2.56	0.54
13:IM:3:ARG:H	13:IM:3:ARG:HD2	1.71	0.54
13:IM:57:ARG:HA	13:IM:61:GLU:HG3	1.87	0.54
53:J7:215:VAL:HG12	53:J7:216:LYS:H	1.72	0.54
53:J7:5:LYS:HZ2	53:J7:184:ILE:HG13	1.72	0.54
23:JA:36:A:H4'	23:JA:37:C:C5	2.35	0.54
23:JA:91:A:H2'	23:JA:92:G:O4'	2.07	0.54
22:JB:1806:G:H3'	22:JB:1807:A:C8	2.43	0.54
22:JB:1896:A:H2'	22:JB:1898:U:C5	2.40	0.54
22:JB:2001:G:H2'	22:JB:2002:A:O4'	2.07	0.54
22:JB:2210:C:P	47:J1:39:VAL:HG23	2.38	0.54
22:JB:402:A:C4	22:JB:2392:G:H4'	2.42	0.54
22:JB:2406:C:C5'	22:JB:2408:G:H1'	2.37	0.54
22:JB:2724:G:H2'	22:JB:2725:C:C6	2.43	0.54
22:JB:2282:G:C2'	27:JG:129:ASN:OD1	2.56	0.54
22:JB:63:A:C1'	41:JU:62:ARG:CD	2.85	0.54
43:JW:17:SER:HA	43:JW:36:ARG:NH1	2.22	0.54
1:AA:1177:G:H2'	1:AA:1178:G:C8	2.42	0.54
1:AA:32:A:H2'	1:AA:33:A:H8	1.71	0.54
2:AB:97:TRP:CH2	2:AB:173:ALA:HB2	2.42	0.54
3:AC:142:MET:HA	3:AC:145:GLY:O	2.07	0.54
3:AC:151:VAL:HG13	3:AC:199:LYS:O	2.07	0.54
3:AC:83:ARG:O	3:AC:87:LEU:HG	2.07	0.54
1:AA:546:G:N2	4:AD:2:GLY:HA2	2.21	0.54
6:AF:46:ARG:HH22	18:AR:35:ARG:HH11	1.54	0.54
8:AH:36:LEU:O	8:AH:39:LEU:HB2	2.07	0.54
3:AC:58:GLU:CA	10:AJ:92:THR:CG2	2.85	0.54
12:AL:57:LYS:HA	12:AL:67:THR:HG23	1.89	0.54
13:AM:70:LEU:C	13:AM:72:ALA:H	2.10	0.54
15:AO:45:VAL:HB	15:AO:46:HIS:HD1	1.71	0.54
17:AQ:92:ARG:HA	17:AQ:92:ARG:HE	1.72	0.54
1:AA:985:C:C4'	19:AS:55:LYS:HZ2	2.08	0.54
49:B3:15:SER:O	49:B3:50:PHE:HA	2.07	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:BB:1045:G:O2'	52:B6:18:ARG:NH2	2.41	0.54
53:B7:5:LYS:HZ2	53:B7:184:ILE:HG13	1.73	0.54
23:BA:77:G:H2'	43:BW:24:TYR:CZ	2.43	0.54
22:BB:1042:G:H5'	52:B6:8:LYS:CG	1.71	0.54
22:BB:953:G:H4'	22:BB:1203:A:H1'	1.89	0.54
22:BB:1228:G:H2'	22:BB:1229:C:O4'	2.07	0.54
22:BB:1288:A:N6	22:BB:1309:G:H5'	2.20	0.54
22:BB:2044:G:H5'	22:BB:2480:C:O2'	2.07	0.54
22:BB:219:G:N7	51:B5:2:PRO:HA	2.22	0.54
22:BB:2450:A:H2'	22:BB:2451:G:O4'	2.08	0.54
22:BB:2724:G:H2'	22:BB:2725:C:C6	2.43	0.54
22:BB:2671:C:H1'	22:BB:2822:U:H1'	1.90	0.54
22:BB:511:A:N1	40:BT:12:LYS:CA	2.36	0.54
22:BB:529:U:H5''	40:BT:39:ARG:HH22	1.71	0.54
22:BB:764:A:H4'	22:BB:765:C:C5	2.42	0.54
24:BD:91:ARG:NH2	24:BD:91:ARG:HB2	2.22	0.54
22:BB:2597:G:O2'	25:BE:150:VAL:HG21	2.07	0.54
26:BF:121:ASP:HB2	26:BF:133:PHE:HZ	1.72	0.54
28:BH:101:LYS:O	28:BH:117:PRO:HD2	2.08	0.54
28:BH:164:PHE:HB2	28:BH:167:GLU:OE1	2.07	0.54
28:BH:25:LYS:HG2	28:BH:33:LEU:O	2.07	0.54
34:BN:60:ARG:HD3	34:BN:61:ARG:H	1.73	0.54
37:BQ:85:SER:N	37:BQ:86:PRO:CD	2.70	0.54
40:BT:72:LEU:HD12	40:BT:126:ILE:HG23	1.89	0.54
43:BW:121:GLN:HG3	43:BW:123:VAL:HG13	1.90	0.54
1:CA:1060:C:H2'	1:CA:1061:G:C8	2.43	0.54
1:CA:546:G:N1	4:CD:2:GLY:CA	2.62	0.54
2:CB:97:TRP:CH2	2:CB:173:ALA:HB2	2.42	0.54
9:CI:48:GLU:N	9:CI:51:ARG:HH11	2.05	0.54
9:CI:44:VAL:C	9:CI:51:ARG:HH22	2.10	0.54
19:CS:51:VAL:HG12	19:CS:52:TYR:N	2.23	0.54
1:CA:1320:C:N1	19:CS:72:GLY:HA3	2.22	0.54
20:CT:39:LYS:HD2	20:CT:43:LEU:HD11	1.88	0.54
47:D1:2:GLN:C	47:D1:55:ARG:HE	2.10	0.54
48:D2:4:HIS:O	48:D2:5:PRO:C	2.44	0.54
22:DB:699:G:C5	50:D4:5:TYR:C	2.81	0.54
22:DB:1101:U:H2'	22:DB:1102:G:O4'	2.08	0.54
22:DB:1161:U:H2'	22:DB:1162:A:C8	2.42	0.54
22:DB:1608:U:H2'	22:DB:1609:G:C8	2.43	0.54
22:DB:215:G:O2'	22:DB:618:A:O4'	2.25	0.54
22:DB:2450:A:H2'	22:DB:2451:G:O4'	2.08	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:DB:25:U:H2'	22:DB:26:G:H5'	1.90	0.54
22:DB:418:C:C3'	53:D7:197:GLU:OE2	2.55	0.54
22:DB:540:G:C4	22:DB:2018:G:H4'	2.43	0.54
22:DB:659:G:O2'	51:D5:48:PHE:CE2	2.56	0.54
22:DB:696:U:H5''	50:D4:16:HIS:HD1	1.62	0.54
22:DB:864:C:O4'	46:DZ:43:MET:HG3	2.08	0.54
22:DB:887:G:OP1	43:DW:170:SER:HB3	2.03	0.54
24:DD:72:LYS:HZ1	24:DD:75:VAL:HG11	1.72	0.54
24:DD:78:LYS:HD3	24:DD:96:HIS:HB3	1.89	0.54
22:DB:2290:A:O3'	27:DG:70:ALA:HB2	2.08	0.54
28:DH:9:ILE:HG13	28:DH:10:ALA:N	2.18	0.54
22:DB:565:A:N3	31:DK:74:MET:HB2	2.20	0.54
34:DN:95:VAL:HG23	34:DN:96:SER:H	1.72	0.54
34:DN:99:LYS:HZ2	43:DW:73:LYS:NZ	2.02	0.54
37:DQ:59:GLY:HA2	37:DQ:105:TYR:HA	1.89	0.54
38:DR:75:ASN:HB3	38:DR:79:PHE:HB2	1.89	0.54
1:EA:1060:C:H2'	1:EA:1061:G:C8	2.43	0.54
1:EA:1194:U:H4'	5:EE:22:GLY:HA2	1.90	0.54
1:EA:1453:G:O2'	1:EA:1454:G:H5'	2.07	0.54
1:EA:163:C:H2'	1:EA:164:U:H5'	1.88	0.54
1:EA:667:G:N3	15:EO:49:ASP:OD1	2.41	0.54
9:EI:48:GLU:HA	9:EI:51:ARG:HD3	1.89	0.54
1:EA:684:A:HO2'	11:EK:40:ILE:CA	2.20	0.54
18:ER:34:TYR:HA	18:ER:37:VAL:HG23	1.89	0.54
19:ES:39:THR:HA	19:ES:69:HIS:O	2.07	0.54
1:EA:1225:A:H4'	19:ES:78:ARG:NH1	2.22	0.54
22:FB:1636:G:C4'	50:F4:1:MET:HE3	2.28	0.54
50:F4:3:ARG:HG3	50:F4:4:THR:HG22	1.88	0.54
53:F7:13:LYS:NZ	53:F7:177:GLU:HA	2.22	0.54
53:F7:215:VAL:HG12	53:F7:216:LYS:H	1.72	0.54
22:FB:1408:A:H5'	22:FB:1619:A:OP2	2.08	0.54
22:FB:2450:A:H2'	22:FB:2451:G:O4'	2.08	0.54
22:FB:2459:C:H2'	22:FB:2460:G:O4'	2.08	0.54
22:FB:3876:A:H2'	22:FB:3877:A:H4'	1.89	0.54
22:FB:575:U:O4	39:FS:80:TYR:HA	2.08	0.54
22:FB:764:A:H4'	22:FB:765:C:C5	2.42	0.54
22:FB:2713:A:H8	25:FE:204:ALA:O	1.72	0.54
28:FH:50:LEU:O	28:FH:51:LEU:HD12	2.08	0.54
34:FN:60:ARG:HD3	34:FN:61:ARG:H	1.73	0.54
34:FN:73:LYS:HE2	34:FN:93:TYR:HB3	1.90	0.54
36:FP:8:ARG:NH1	36:FP:9:ARG:HH11	2.05	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:FB:64:C:H6	41:FU:70:GLY:O	1.90	0.54
34:FN:131:LYS:NZ	43:FW:69:VAL:CG1	2.70	0.54
45:FY:51:ALA:C	45:FY:53:LEU:H	2.11	0.54
1:GA:1333:A:H2'	1:GA:1334:G:O4'	2.08	0.54
1:GA:572:A:H5''	1:GA:917:G:H5'	1.88	0.54
4:GD:67:ILE:HG22	4:GD:114:ARG:HH12	1.72	0.54
1:GA:932:C:O5'	7:GG:4:ARG:HG2	2.08	0.54
9:GI:48:GLU:N	9:GI:51:ARG:HH11	2.06	0.54
1:GA:36:C:O3'	12:GL:117:ARG:HD2	1.42	0.54
1:GA:223:U:O4'	20:GT:68:LYS:HG3	2.08	0.54
1:GA:186:C:C5'	20:GT:78:ALA:CB	2.63	0.54
49:H3:13:GLU:CG	49:H3:24:THR:HA	2.37	0.54
22:HB:2737:A:N6	52:H6:18:ARG:NH1	2.46	0.54
23:HA:103:A:H2'	23:HA:104:A:C8	2.43	0.54
22:HB:1401:G:C2	22:HB:1413:U:N3	2.75	0.54
22:HB:150:A:C5	22:HB:151:G:H1'	2.43	0.54
22:HB:173:A:N3	22:HB:173:A:H2'	2.21	0.54
22:HB:1916:G:H2'	22:HB:1917:C:C6	2.42	0.54
22:HB:2065:A:H2'	22:HB:2066:G:O4'	2.08	0.54
22:HB:2288:A:H2'	22:HB:2289:A:O4'	2.07	0.54
22:HB:2297:G:H2'	22:HB:2299:A:C2	2.43	0.54
22:HB:2399:C:OP1	49:H3:24:THR:CG2	2.30	0.54
22:HB:476:G:H2'	22:HB:477:A:C8	2.43	0.54
22:HB:561:U:C5'	22:HB:1233:A:N1	2.71	0.54
22:HB:839:U:OP1	22:HB:2407:G:H3'	2.07	0.54
22:HB:1202:U:C5'	39:HS:81:ARG:NH1	2.71	0.54
39:HS:23:GLU:HG3	39:HS:91:THR:HB	1.89	0.54
41:HU:67:ARG:NH2	41:HU:69:ILE:HB	2.21	0.54
46:HZ:6:VAL:HB	46:HZ:50:LEU:HB3	1.88	0.54
1:IA:925:G:N3	1:IA:1503:A:OP1	2.41	0.54
1:IA:767:A:C2	1:IA:1512:U:H1'	2.38	0.54
1:IA:363:A:H2	12:IL:31:PRO:HD2	1.73	0.54
1:IA:637:G:H2'	1:IA:638:G:H8	1.71	0.54
1:IA:697:U:H3	1:IA:798:G:H1'	1.73	0.54
3:IC:32:LEU:HG	3:IC:59:ARG:HH22	1.71	0.54
4:ID:204:ILE:CD1	5:IE:98:THR:O	2.55	0.54
5:IE:44:GLY:HA3	5:IE:58:ALA:HB1	1.89	0.54
5:IE:151:LEU:HD22	8:IH:77:GLU:OE2	1.98	0.54
12:IL:100:ILE:HG22	12:IL:101:VAL:H	1.72	0.54
12:IL:83:VAL:HG22	12:IL:84:LEU:N	2.23	0.54
13:IM:23:TYR:CD2	13:IM:67:GLU:HG2	2.43	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:IN:27:CYS:HG	14:IN:42:ILE:HD12	1.72	0.54
1:IA:129(A):G:H2'	17:IQ:64:PRO:O	2.07	0.54
49:J3:15:SER:O	49:J3:50:PHE:HA	2.07	0.54
51:J5:3:LYS:HE3	51:J5:5:LYS:HE3	1.88	0.54
22:JB:2505:G:O2'	52:J6:34:GLN:HG2	2.08	0.54
22:JB:3176:A:H5'	53:J7:33:ILE:HG21	1.90	0.54
23:JA:66:G:H2'	23:JA:67:C:O4'	2.08	0.54
22:JB:1145:C:C6	22:JB:1147:G:OP1	2.60	0.54
22:JB:114:C:OP1	22:JB:126:C:N4	2.40	0.54
22:JB:1004:A:C6	22:JB:1171:A:N6	2.76	0.54
22:JB:953:G:H4'	22:JB:1203:A:H1'	1.89	0.54
22:JB:1265:G:H2'	22:JB:1266:G:O4'	2.07	0.54
22:JB:1394:G:N2	22:JB:1588:A:N1	2.55	0.54
22:JB:1439:G:H2'	22:JB:1440:G:C8	2.43	0.54
22:JB:1789:U:H2'	22:JB:1790:G:O4'	2.08	0.54
22:JB:2297:G:H2'	22:JB:2299:A:C2	2.43	0.54
22:JB:2662:C:N3	32:JL:82:LYS:HD2	2.23	0.54
26:JF:151:VAL:HG21	26:JF:188:ILE:HG23	1.89	0.54
28:JH:6:LYS:HE3	28:JH:69:ARG:HB3	1.89	0.54
30:JJ:119:SER:HB2	30:JJ:122:ALA:HB3	1.88	0.54
22:JB:634:G:N7	33:JM:98:LEU:CD2	2.69	0.54
35:JO:76:VAL:HA	35:JO:79:VAL:HG12	1.89	0.54
37:JQ:123:ARG:O	37:JQ:124:VAL:HG22	2.08	0.54
22:JB:572:G:C2'	38:JR:37:GLN:OE1	2.49	0.54
38:JR:87:ASN:ND2	39:JS:50:ASP:HB2	2.14	0.54
40:JT:72:LEU:HD12	40:JT:126:ILE:HG23	1.90	0.54
42:JV:96:LYS:HE2	42:JV:106:VAL:HG21	1.88	0.54
22:JB:75:C:C3'	45:JY:56:VAL:CG1	2.85	0.54
1:AA:2003:G:O2'	1:AA:1004:A:H4'	2.08	0.54
1:AA:108:G:H8	20:AT:12:ALA:HB1	1.68	0.54
1:AA:1343:G:H2'	1:AA:1344:C:C6	2.42	0.54
1:AA:194:C:C5'	20:AT:65:LYS:HA	2.38	0.54
1:AA:486:U:H2'	1:AA:487:A:H8	1.73	0.54
1:AA:125:U:H5''	1:AA:605:U:O2'	2.08	0.54
1:AA:769:G:OP1	1:AA:803:G:H4'	2.08	0.54
3:AC:43:LEU:HD12	3:AC:44:GLU:N	2.22	0.54
5:AE:61:TYR:C	5:AE:63:ARG:H	2.11	0.54
5:AE:149:GLU:H	8:AH:107:LEU:HD22	1.72	0.54
9:AI:49:PRO:O	9:AI:53:VAL:HG22	2.07	0.54
10:AJ:20:ALA:O	10:AJ:24:VAL:HG23	2.08	0.54
1:AA:518:C:C5'	12:AL:50:SER:H	2.21	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:AM:86:CYS:SG	13:AM:88:ARG:HB2	2.48	0.54
14:AN:25:VAL:HG13	14:AN:26:ARG:N	2.22	0.54
10:AJ:64:GLU:CG	14:AN:57:ARG:O	2.55	0.54
47:B1:10:VAL:H	47:B1:11:PRO:CD	2.21	0.54
22:BB:801:A:H2	50:B4:4:THR:O	1.86	0.54
23:BA:66:G:H2'	23:BA:67:C:O4'	2.08	0.54
23:BA:91:A:H2'	23:BA:92:G:O4'	2.07	0.54
22:BB:1088:A:OP1	30:BJ:92:ASN:OD1	2.24	0.54
22:BB:1161:U:H2'	22:BB:1162:A:C8	2.43	0.54
22:BB:317:U:C2'	22:BB:1224:A:OP2	2.55	0.54
22:BB:1313:U:H4'	22:BB:1314:A:O5'	2.07	0.54
22:BB:122:G:OP1	22:BB:1389:C:C4'	2.55	0.54
22:BB:1281:A:OP1	22:BB:1988:A:H5''	2.08	0.54
22:BB:2334:C:H4'	44:BX:21:LEU:CD2	2.28	0.54
22:BB:25:U:H2'	22:BB:26:G:H5'	1.90	0.54
22:BB:3876:A:H2'	22:BB:3877:A:H4'	1.89	0.54
22:BB:464:G:H1'	22:BB:469:G:H21	1.73	0.54
22:BB:533:C:H2'	22:BB:534:U:C6	2.43	0.54
22:BB:672:C:H2'	22:BB:673:G:C8	2.43	0.54
22:BB:753:U:H1'	22:BB:1964:A:H1'	1.89	0.54
22:BB:1812:U:O2'	24:BD:203:ASN:ND2	2.40	0.54
24:BD:78:LYS:HD3	24:BD:96:HIS:HB3	1.89	0.54
26:BF:114:GLY:O	26:BF:116:LYS:HG3	2.08	0.54
28:BH:33:LEU:HG	28:BH:75:ALA:HB2	1.89	0.54
22:BB:1148:G:H4'	31:BK:133:GLY:CA	2.37	0.54
22:BB:2461:G:C6	34:BN:54:VAL:HA	2.41	0.54
22:BB:2333:A:C1'	44:BX:31:VAL:HA	2.37	0.54
45:BY:51:ALA:C	45:BY:53:LEU:H	2.11	0.54
46:BZ:7:ARG:HA	46:BZ:28:ILE:HD13	1.88	0.54
1:CA:1231:G:H4'	9:CI:126:SER:OG	2.07	0.54
1:CA:975:A:C2	1:CA:1357:A:H1'	2.43	0.54
1:CA:1517:G:C8	22:DB:1903:C:P	3.01	0.54
1:CA:195:A:H2'	1:CA:196:A:N7	2.23	0.54
1:CA:322:C:H2'	1:CA:323:U:O4'	2.07	0.54
1:CA:691:G:H1'	1:CA:696:A:H61	1.72	0.54
1:CA:753:A:O2'	8:CH:1:MET:CB	2.56	0.54
1:CA:932:C:H5''	7:CG:3:ARG:HG2	1.78	0.54
1:CA:1108:G:H5''	3:CC:176:HIS:CG	2.43	0.54
9:CI:40:LEU:HB2	9:CI:43:ALA:HB3	1.89	0.54
1:CA:1215:G:C5'	14:CN:3:ARG:NH2	2.59	0.54
1:CA:275:G:C2'	17:CQ:18:THR:HG21	2.35	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:236:G:O2'	17:CQ:25:ARG:CZ	2.56	0.54
23:DA:66:G:H2'	23:DA:67:C:O4'	2.08	0.54
22:DB:953:G:H4'	22:DB:1203:A:H1'	1.89	0.54
22:DB:1228:G:H2'	22:DB:1229:C:O4'	2.07	0.54
22:DB:1803:G:H2'	22:DB:1804:U:N1	2.23	0.54
22:DB:1887:G:C6	22:DB:1888:C:C6	2.96	0.54
22:DB:1935:A:OP1	32:DL:55:VAL:HB	2.08	0.54
22:DB:1992:G:C1'	35:DO:105:GLY:C	2.76	0.54
22:DB:2492:G:C4	22:DB:2493:U:N3	2.76	0.54
22:DB:2662:C:C5	22:DB:2707:G:O2'	2.59	0.54
22:DB:2662:C:N4	22:DB:2707:G:H2'	2.23	0.54
22:DB:2704:U:H3'	22:DB:2705:A:P	2.48	0.54
22:DB:547:U:C5'	31:DK:30:LYS:CB	2.71	0.54
22:DB:732:G:H2'	22:DB:733:G:H8	1.72	0.54
22:DB:81:C:H2'	22:DB:82:G:C8	2.43	0.54
22:DB:66:U:C5	22:DB:87:G:C2	2.95	0.54
24:DD:83:GLU:O	24:DD:92:ILE:HG22	2.08	0.54
25:DE:105:THR:HG21	25:DE:164:ARG:HB3	1.90	0.54
26:DF:114:GLY:O	26:DF:116:LYS:HG3	2.08	0.54
30:DJ:118:GLY:HA2	30:DJ:123:ALA:HB2	1.90	0.54
30:DJ:22:PRO:O	30:DJ:23:VAL:HG13	2.07	0.54
33:DM:106:VAL:C	33:DM:107:LYS:HG3	2.26	0.54
22:DB:2372:A:H1'	33:DM:59:ARG:CG	2.19	0.54
41:DU:82:LEU:HD23	41:DU:83:ALA:O	2.08	0.54
1:EA:2003:G:O2'	1:EA:1004:A:H4'	2.08	0.54
1:EA:1267:C:O2	1:EA:1327:C:H4'	2.08	0.54
1:EA:322:C:H2'	1:EA:323:U:O4'	2.07	0.54
1:EA:538:G:H4'	12:EL:114:LYS:CG	2.37	0.54
1:EA:691:G:H1'	1:EA:696:A:H61	1.72	0.54
3:EC:178:LEU:O	3:EC:179:ARG:HG3	2.08	0.54
3:EC:57:ILE:HG22	3:EC:59:ARG:HG3	1.90	0.54
4:ED:155:LEU:HB2	4:ED:158:ILE:HG13	1.88	0.54
5:EE:61:TYR:C	5:EE:63:ARG:H	2.11	0.54
6:EF:98:LEU:HD13	6:EF:101:ALA:C	2.28	0.54
1:EA:591:U:OP2	8:EH:30:ARG:HG3	2.08	0.54
8:EH:89:PRO:HA	8:EH:92:ARG:HH11	1.72	0.54
11:EK:123:LYS:N	11:EK:123:LYS:HD3	2.23	0.54
1:EA:684:A:O2'	11:EK:40:ILE:HA	2.07	0.54
1:EA:258:G:P	20:ET:87:LYS:HE3	2.48	0.54
22:FB:2040:A:C4	48:F2:3:LYS:N	2.76	0.54
22:FB:1161:U:H2'	22:FB:1162:A:C8	2.43	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:FB:1168:G:H5''	46:FZ:27:LYS:HD2	1.90	0.54
22:FB:1228:G:H2'	22:FB:1229:C:O4'	2.07	0.54
22:FB:1265:G:H2'	22:FB:1266:G:O4'	2.07	0.54
22:FB:150:A:C5	22:FB:151:G:H1'	2.43	0.54
22:FB:3093:C:C4'	29:FI:21:LYS:CA	2.27	0.54
22:FB:732:G:H2'	22:FB:733:G:H8	1.72	0.54
22:FB:977:G:H2'	22:FB:978:U:C6	2.43	0.54
22:FB:795:A:H62	24:FD:222:ARG:HE	1.55	0.54
24:FD:263:ARG:HG2	24:FD:264:LYS:H	1.72	0.54
22:FB:2752:C:H1'	25:FE:166:THR:HG22	1.90	0.54
33:FM:75:VAL:HG22	33:FM:76:LYS:N	2.23	0.54
37:FQ:123:ARG:O	37:FQ:124:VAL:HG22	2.08	0.54
41:FU:88:ILE:HG12	41:FU:90:ALA:N	2.14	0.54
44:FX:47:ALA:H	44:FX:75:GLY:CA	2.21	0.54
46:FZ:4:LYS:HG2	46:FZ:31:SER:HB2	1.90	0.54
1:GA:1012:U:H2'	1:GA:1013:G:C8	2.43	0.54
1:GA:1378:C:H3'	1:GA:1379:G:H4'	1.90	0.54
1:GA:1495:U:H1'	22:HB:1902:A:H61	1.72	0.54
1:GA:322:C:H2'	1:GA:323:U:O4'	2.07	0.54
1:GA:32:A:H2'	1:GA:33:A:H8	1.71	0.54
1:GA:691:G:H1'	1:GA:696:A:N6	2.23	0.54
1:GA:697:U:H3	1:GA:798:G:H1'	1.73	0.54
1:GA:877:C:C4'	8:GH:3:THR:O	2.55	0.54
3:GC:178:LEU:O	3:GC:179:ARG:HG3	2.08	0.54
1:GA:439:A:C4'	4:GD:122:ARG:HH22	2.21	0.54
5:GE:18:ARG:HB2	5:GE:18:ARG:NH1	2.22	0.54
8:GH:36:LEU:O	8:GH:39:LEU:HB2	2.07	0.54
11:GK:59:TYR:O	11:GK:62:GLN:HB3	2.07	0.54
14:GN:31:ARG:HD2	14:GN:31:ARG:N	2.23	0.54
1:GA:750:G:C1'	15:GO:22:THR:OG1	2.55	0.54
1:GA:376:G:C1'	16:GP:28:ARG:CZ	2.53	0.54
1:GA:583:A:H1'	17:GQ:91:ARG:NH1	2.22	0.54
22:HB:1377:G:O5'	47:H1:40:HIS:HE1	1.91	0.54
22:HB:1265:G:H2'	22:HB:1266:G:O4'	2.07	0.54
22:HB:1439:G:H2'	22:HB:1440:G:C8	2.43	0.54
22:HB:1439:G:H2'	22:HB:1440:G:H8	1.73	0.54
22:HB:1535:C:H41	22:HB:1536:G:H21	1.53	0.54
22:HB:1789:U:H2'	22:HB:1790:G:O4'	2.08	0.54
22:HB:1803:G:H2'	22:HB:1804:U:N1	2.23	0.54
22:HB:1806:G:H3'	22:HB:1807:A:C8	2.43	0.54
22:HB:2432:A:H61	22:HB:2479:U:H3	1.56	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:HB:2450:A:H2'	22:HB:2451:G:O4'	2.08	0.54
22:HB:2459:C:H2'	22:HB:2460:G:O4'	2.08	0.54
22:HB:422:C:H2'	22:HB:423:G:C8	2.42	0.54
22:HB:236:C:C1'	22:HB:632:A:O4'	2.55	0.54
22:HB:719:A:N7	22:HB:738:G:C2	2.76	0.54
24:HD:213:ARG:O	24:HD:214:TRP:HB2	2.08	0.54
24:HD:83:GLU:O	24:HD:92:ILE:HG22	2.08	0.54
27:HG:33:LYS:HB2	27:HG:157:VAL:HG23	1.89	0.54
33:HM:100:ARG:HE	33:HM:101:ARG:HH12	1.56	0.54
39:HS:63:HIS:HE1	39:HS:93:ILE:HD13	1.71	0.54
42:HV:59:LYS:HB3	42:HV:65:PRO:HA	1.90	0.54
41:HU:91:LEU:CD2	45:HY:24:GLU:OE2	2.53	0.54
1:IA:1019:C:H2'	1:IA:1020:U:C5	2.43	0.54
1:IA:1349:A:N6	1:IA:1373:G:H1'	2.23	0.54
1:IA:1384:C:H2'	1:IA:1385:G:C8	2.39	0.54
1:IA:1496:C:O2	22:JB:1902:A:H2	1.91	0.54
1:IA:195:A:H2'	1:IA:196:A:N7	2.23	0.54
1:IA:644:G:H5'	8:IH:132:GLU:OE1	2.08	0.54
1:IA:691:G:H1'	1:IA:696:A:N6	2.23	0.54
1:IA:861:G:H1'	1:IA:874:G:H4'	1.89	0.54
1:IA:975:A:C2	1:IA:1357:A:H1'	2.43	0.54
2:IB:29:ALA:C	2:IB:30:ARG:HE	2.11	0.54
4:ID:201:GLN:OE1	5:IE:116:THR:HB	2.07	0.54
1:IA:511:C:P	4:ID:43:HIS:CE1	3.01	0.54
6:IF:38:GLU:OE1	6:IF:66:GLU:HB2	2.08	0.54
7:IG:16:LEU:HD23	9:II:42:ARG:CD	2.38	0.54
1:IA:707:C:C4'	11:IK:85:ARG:HH22	2.16	0.54
1:IA:720:C:O2	18:IR:50:ILE:HD12	2.08	0.54
13:IM:87:TYR:HB3	19:IS:73:GLU:HA	1.89	0.54
22:JB:1035:G:H21	22:JB:1155:G:H5'	1.72	0.54
22:JB:1204:G:OP1	33:JM:37:GLN:HG2	2.03	0.54
22:JB:1439:G:H2'	22:JB:1440:G:H8	1.73	0.54
22:JB:1507:A:OP1	24:JD:99:ASP:OD2	2.26	0.54
22:JB:1535:C:H41	22:JB:1536:G:H21	1.54	0.54
22:JB:173:A:N3	22:JB:173:A:H2'	2.21	0.54
22:JB:1927:U:H1'	22:JB:1938:U:H5''	1.90	0.54
22:JB:2245:A:H4'	22:JB:2246:A:O5'	2.07	0.54
22:JB:2261:G:H5''	22:JB:2262:C:O5'	2.08	0.54
22:JB:2312:A:H5'	22:JB:2315:A:N6	2.22	0.54
22:JB:2339:A:N3	22:JB:2407:G:C6	2.76	0.54
22:JB:2459:C:H2'	22:JB:2460:G:O4'	2.08	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:JB:2509:A:H2'	22:JB:2510:A:H5''	1.89	0.54
22:JB:2658:A:N6	22:JB:2707:G:O6	2.40	0.54
22:JB:2714:A:N6	22:JB:2749:A:C2	2.73	0.54
22:JB:3876:A:H2'	22:JB:3877:A:H4'	1.89	0.54
22:JB:3876:A:H3'	53:J7:43:LYS:CD	2.37	0.54
24:JD:83:GLU:O	24:JD:92:ILE:HG22	2.08	0.54
22:JB:2785:A:O2'	25:JE:61:LYS:NZ	2.41	0.54
33:JM:106:VAL:C	33:JM:107:LYS:HG3	2.26	0.54
22:JB:2823:G:N7	37:JQ:105:TYR:CG	2.74	0.54
38:JR:47:TYR:CG	39:JS:75:LYS:C	2.72	0.54
22:JB:1175:A:C4'	39:JS:89:ASN:HD21	2.21	0.54
22:JB:76:C:H5'	45:JY:56:VAL:CB	2.37	0.54
1:AA:1060:C:H2'	1:AA:1061:G:C8	2.43	0.54
1:AA:1515:C:H1'	1:AA:1521:G:N2	2.21	0.54
1:AA:482:A:H2'	1:AA:483:C:O4'	2.08	0.54
1:AA:691:G:H1'	1:AA:696:A:H61	1.72	0.54
1:AA:995:C:N4	14:AN:4:LYS:HD3	2.23	0.54
2:AB:29:ALA:C	2:AB:30:ARG:HE	2.11	0.54
9:AI:44:VAL:C	9:AI:51:ARG:HH22	2.10	0.54
9:AI:48:GLU:N	9:AI:51:ARG:HH11	2.06	0.54
1:AA:1307:U:H5''	13:AM:109:THR:HG22	1.90	0.54
13:AM:68:GLY:HA2	13:AM:71:ARG:NH2	2.22	0.54
14:AN:23:ARG:HD3	14:AN:30:ALA:N	2.23	0.54
1:AA:669:U:H5'	15:AO:45:VAL:HG13	1.90	0.54
15:AO:75:PRO:HA	15:AO:78:TYR:HB3	1.89	0.54
17:AQ:12:SER:HB3	17:AQ:20:THR:HB	1.90	0.54
1:AA:276:G:C2	17:AQ:68:ARG:CZ	2.91	0.54
18:AR:39:VAL:HG23	18:AR:43:PHE:HB2	1.88	0.54
19:AS:51:VAL:HG12	19:AS:52:TYR:N	2.23	0.54
47:B1:31:ILE:HG23	47:B1:32:HIS:N	2.20	0.54
22:BB:1018:C:H1'	31:BK:134:MET:HA	1.90	0.54
22:BB:923:A:N3	22:BB:2243:C:H1'	2.22	0.54
22:BB:2261:G:H5''	22:BB:2262:C:O5'	2.07	0.54
22:BB:2312:A:H5'	22:BB:2315:A:N6	2.22	0.54
22:BB:2509:A:H2'	22:BB:2510:A:H5''	1.90	0.54
22:BB:107:G:OP1	22:BB:359:G:H1'	2.08	0.54
22:BB:862:A:H2	46:BZ:21:GLN:CG	2.21	0.54
22:BB:977:G:H2'	22:BB:978:U:C6	2.43	0.54
24:BD:11:PRO:HD2	24:BD:24:LEU:H	1.73	0.54
22:BB:625:A:N1	26:BF:176:ASN:CG	2.62	0.54
22:BB:597:U:H1'	26:BF:84:PHE:CZ	2.42	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:BJ:118:GLY:HA2	30:BJ:123:ALA:HB2	1.90	0.54
30:BJ:53:ILE:HA	30:BJ:72:PRO:HB3	1.89	0.54
31:BK:84:ASN:HA	31:BK:152:ALA:HA	1.90	0.54
34:BN:44:LYS:O	34:BN:45:SER:HB3	2.06	0.54
40:BT:110:ALA:HB1	40:BT:111:ARG:NH2	2.22	0.54
22:BB:497:C:O2	40:BT:77:ALA:HB1	2.08	0.54
41:BU:88:ILE:HG12	41:BU:90:ALA:N	2.14	0.54
44:BX:47:ALA:H	44:BX:75:GLY:CA	2.21	0.54
1:CA:1267:C:O2	1:CA:1327:C:H4'	2.08	0.54
1:CA:1396:A:H2	5:CE:19:MET:HE2	0.37	0.54
1:CA:36:C:C1'	12:CL:118:SER:HA	2.37	0.54
1:CA:407:G:N2	4:CD:157:LEU:HD12	2.23	0.54
1:CA:727:G:H2'	1:CA:729:A:OP2	2.08	0.54
3:CC:151:VAL:HG13	3:CC:199:LYS:O	2.07	0.54
1:CA:15:G:C5'	5:CE:24:ARG:HH22	2.19	0.54
5:CE:51:VAL:HB	5:CE:52:PRO:HD3	1.90	0.54
10:CJ:20:ALA:O	10:CJ:24:VAL:HG23	2.08	0.54
13:CM:86:CYS:SG	13:CM:88:ARG:HB2	2.48	0.54
14:CN:23:ARG:HD3	14:CN:30:ALA:N	2.23	0.54
1:CA:974:A:N3	14:CN:31:ARG:CB	2.71	0.54
22:DB:475:U:C4'	50:D4:5:TYR:CB	2.55	0.54
53:D7:200:LEU:HD13	53:D7:201:ARG:N	2.22	0.54
22:DB:150:A:C5	22:DB:151:G:H1'	2.43	0.54
22:DB:1887:G:N1	22:DB:1888:C:N1	2.55	0.54
22:DB:1281:A:OP1	22:DB:1988:A:H5''	2.08	0.54
22:DB:2492:G:OP2	25:DE:120:TRP:CE2	2.61	0.54
22:DB:2509:A:H2'	22:DB:2510:A:H5''	1.90	0.54
22:DB:2590:U:H5'	25:DE:132:LYS:HG2	1.89	0.54
22:DB:533:C:H2'	22:DB:534:U:C6	2.43	0.54
27:DG:17:MET:HA	27:DG:21:GLY:HA2	1.90	0.54
27:DG:31:ILE:HD11	27:DG:34:ILE:HG23	1.89	0.54
28:DH:33:LEU:HG	28:DH:75:ALA:HB2	1.89	0.54
29:DI:5:LEU:HB3	29:DI:14:THR:O	2.08	0.54
31:DK:74:MET:HG3	31:DK:75:ILE:HD13	1.90	0.54
22:DB:964:A:O2'	34:DN:18:MET:HG3	2.08	0.54
34:DN:98:VAL:O	34:DN:99:LYS:HD3	2.07	0.54
35:DO:45:ARG:N	35:DO:46:PRO:CD	2.71	0.54
37:DQ:123:ARG:O	37:DQ:124:VAL:HG22	2.08	0.54
45:DY:25:LEU:HD22	45:DY:28:LEU:HD12	1.88	0.54
45:DY:48:ARG:HA	45:DY:51:ALA:HB3	1.89	0.54
1:EA:1187:G:OP2	9:EI:113:LYS:CE	2.49	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:EA:718:G:N3	1:EA:718:G:H2'	2.23	0.54
4:ED:57:ARG:NH2	5:EE:107:ARG:HD3	2.23	0.54
11:EK:59:TYR:O	11:EK:62:GLN:HB3	2.07	0.54
14:EN:40:CYS:O	14:EN:44:LEU:HB3	2.08	0.54
22:FB:17:G:H5'	48:F2:14:SER:HA	1.89	0.54
22:FB:1313:U:H4'	22:FB:1314:A:O5'	2.08	0.54
22:FB:1513:U:O4	22:FB:1594:U:OP1	2.26	0.54
22:FB:226:C:O2'	22:FB:2373:C:C1'	2.56	0.54
22:FB:2509:A:H2'	22:FB:2510:A:H5''	1.90	0.54
22:FB:25:U:H2'	22:FB:26:G:H5'	1.90	0.54
22:FB:2716:G:N2	22:FB:2749:A:C1'	2.71	0.54
22:FB:3126:A:OP1	53:F7:26:PHE:HE1	1.86	0.54
22:FB:533:C:H2'	22:FB:534:U:C6	2.43	0.54
22:FB:539:A:OP2	31:FK:139:ARG:NH2	2.36	0.54
22:FB:66:U:C4	22:FB:87:G:N2	2.76	0.54
24:FD:224:SER:HA	24:FD:233:HIS:CG	2.42	0.54
22:FB:2035:G:C4'	25:FE:143:GLN:N	2.64	0.54
23:FA:44:C:O3'	27:FG:64:LYS:CD	2.56	0.54
27:FG:98:VAL:O	27:FG:101:GLU:HB3	2.08	0.54
28:FH:101:LYS:O	28:FH:117:PRO:HD2	2.08	0.54
31:FK:126:VAL:O	31:FK:127:ILE:HB	2.07	0.54
40:FT:72:LEU:HD12	40:FT:126:ILE:HG23	1.90	0.54
22:FB:2309:G:C2'	44:FX:71:ASN:ND2	2.71	0.54
45:FY:14:PHE:HA	45:FY:17:GLU:HB2	1.90	0.54
1:GA:1177:G:H2'	1:GA:1178:G:C8	2.43	0.54
1:GA:1199:U:C1'	10:GJ:54:PHE:CG	2.91	0.54
1:GA:1203:C:H5''	14:GN:2:ALA:HB2	1.90	0.54
1:GA:876:G:N3	8:GH:3:THR:OG1	2.41	0.54
3:GC:135:LYS:HB3	3:GC:139:GLN:OE1	2.07	0.54
4:GD:205:GLU:HA	4:GD:208:SER:OG	2.08	0.54
1:GA:430:A:OP1	4:GD:7:PRO:HA	2.08	0.54
1:GA:1251:A:C5'	9:GI:12:GLU:CD	2.76	0.54
9:GI:48:GLU:N	9:GI:49:PRO:HD2	2.22	0.54
14:GN:23:ARG:HD3	14:GN:30:ALA:N	2.23	0.54
15:GO:70:LEU:HD12	15:GO:77:ARG:HB2	1.88	0.54
12:GL:10:LEU:HB2	17:GQ:32:TYR:HD2	1.68	0.54
22:HB:157:G:C4'	50:H4:36:ALA:O	2.55	0.54
23:HA:66:G:H2'	23:HA:67:C:O4'	2.08	0.54
23:HA:92:G:H1	34:HN:39:GLU:CD	2.11	0.54
22:HB:1816:G:HO2'	22:HB:1817:U:H5'	1.73	0.54
22:HB:2407:G:H4'	22:HB:2408:G:C8	2.42	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:HB:2529:G:N1	22:HB:2538:C:C4	2.76	0.54
22:HB:2748:C:H2'	22:HB:2749:A:O4'	2.08	0.54
22:HB:543:G:OP1	38:HR:24:PHE:CA	2.53	0.54
22:HB:603:C:H2'	22:HB:604:U:O4'	2.07	0.54
22:HB:930:A:H8	23:HA:83:C:H5'	1.72	0.54
22:HB:977:G:H2'	22:HB:978:U:C6	2.43	0.54
24:HD:170:SER:C	24:HD:172:TYR:H	2.10	0.54
25:HE:55:ALA:HA	25:HE:58:LYS:NZ	2.23	0.54
27:HG:31:ILE:HD11	27:HG:34:ILE:HG23	1.89	0.54
30:HJ:22:PRO:O	30:HJ:23:VAL:HG13	2.07	0.54
31:HK:74:MET:HE3	31:HK:75:ILE:HG23	1.90	0.54
34:HN:73:LYS:HE2	34:HN:93:TYR:HB3	1.90	0.54
22:HB:1668:G:OP1	35:HO:11:ASN:HB3	2.08	0.54
38:HR:25:TRP:N	38:HR:28:ARG:HE	2.06	0.54
40:HT:62:ARG:HH11	40:HT:64:ALA:HB2	1.72	0.54
44:HX:47:ALA:HB3	44:HX:49:GLN:NE2	2.20	0.54
22:HB:941:U:C1'	46:HZ:24:GLY:N	2.68	0.54
1:IA:1012:U:H2'	1:IA:1013:G:C8	2.43	0.54
1:IA:1060:C:H2'	1:IA:1061:G:C8	2.43	0.54
1:IA:1321:C:O3'	13:IM:87:TYR:CE1	2.59	0.54
1:IA:1378:C:H3'	1:IA:1379:G:H4'	1.90	0.54
1:IA:814:A:C5'	1:IA:1511:G:H4'	2.38	0.54
1:IA:670:G:H2'	1:IA:671:G:H8	1.72	0.54
1:IA:684:A:C4	11:IK:39:PRO:HG3	2.23	0.54
1:IA:727:G:H2'	1:IA:729:A:OP2	2.08	0.54
1:IA:925:G:C1'	1:IA:1502:A:C1'	2.75	0.54
2:IB:16:HIS:HE1	2:IB:213:LEU:HB3	1.73	0.54
4:ID:14:ARG:HG2	4:ID:66:ARG:NH1	2.23	0.54
4:ID:62:GLN:HE22	4:ID:65:ARG:NH1	2.05	0.54
1:IA:824:C:H1'	8:IH:3:THR:HG21	0.54	0.54
1:IA:1123:A:C4'	10:IJ:38:ILE:HG23	2.38	0.54
1:IA:637:G:P	17:IQ:2:PRO:HD3	2.37	0.54
17:IQ:45:HIS:O	17:IQ:47:PRO:HD3	2.07	0.54
48:J2:6:VAL:HG23	48:J2:8:LYS:HZ2	1.72	0.54
22:JB:1018:C:H5''	31:JK:63:ARG:CG	2.38	0.54
22:JB:123:A:O2'	50:J4:14:LYS:HG3	2.07	0.54
22:JB:16:G:C4'	48:J2:17:ASP:CG	2.43	0.54
22:JB:1739:G:H2'	22:JB:1740:G:H8	1.73	0.54
22:JB:1803:G:H2'	22:JB:1804:U:N1	2.23	0.54
22:JB:1916:G:H2'	22:JB:1917:C:C6	2.42	0.54
22:JB:2288:A:H2'	22:JB:2289:A:O4'	2.07	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:JB:2450:A:H2'	22:JB:2451:G:O4'	2.08	0.54
22:JB:3197:U:N1	22:JB:2203:G:O6	2.06	0.54
22:JB:476:G:H2'	22:JB:477:A:C8	2.43	0.54
22:JB:796:A:OP2	24:JD:226:MET:HE1	2.03	0.54
22:JB:929:A:H2'	22:JB:930:A:H5''	1.90	0.54
22:JB:687:G:C5'	26:JF:70:GLY:C	2.77	0.54
28:JH:25:LYS:HG2	28:JH:33:LEU:O	2.07	0.54
30:JJ:118:GLY:HA2	30:JJ:123:ALA:HB2	1.90	0.54
30:JJ:20:ALA:O	30:JJ:21:PRO:C	2.43	0.54
30:JJ:91:PRO:HG2	30:JJ:133:SER:O	2.07	0.54
22:JB:2823:G:P	37:JQ:103:LYS:CD	2.90	0.54
38:JR:25:TRP:N	38:JR:28:ARG:HE	2.06	0.54
43:JW:6:LYS:N	43:JW:7:PRO:HD2	2.22	0.54
46:JZ:4:LYS:HG2	46:JZ:31:SER:HB2	1.90	0.54
1:AA:1014:A:C8	19:AS:34:TRP:HE3	2.20	0.54
1:AA:1345:U:C5'	9:AI:120:ARG:NH1	2.69	0.54
1:AA:275:G:H2'	1:AA:276:G:C8	2.42	0.54
1:AA:322:C:H2'	1:AA:323:U:O4'	2.07	0.54
1:AA:377:G:OP1	16:AP:3:LYS:HD2	2.07	0.54
1:AA:1396:A:C6	5:AE:19:MET:CE	2.91	0.54
10:AJ:47:PHE:HE2	14:AN:37:PHE:CZ	2.26	0.54
11:AK:123:LYS:N	11:AK:123:LYS:HD3	2.23	0.54
11:AK:59:TYR:O	11:AK:62:GLN:HB3	2.08	0.54
14:AN:15:LYS:HD3	14:AN:16:PHE:HD1	1.72	0.54
16:AP:6:LEU:HB3	16:AP:17:TYR:CD2	2.43	0.54
1:AA:761:G:C1'	17:AQ:103:GLY:CA	2.86	0.54
19:AS:36:ARG:HH21	19:AS:53:ASN:HA	1.73	0.54
53:B7:13:LYS:NZ	53:B7:177:GLU:HA	2.22	0.54
23:BA:103:A:H2'	23:BA:104:A:C8	2.43	0.54
23:BA:76:U:H2'	23:BA:77:G:H5'	1.89	0.54
22:BB:1265:G:H2'	22:BB:1266:G:O4'	2.07	0.54
22:BB:1427:G:H2'	22:BB:1428:G:H5'	1.89	0.54
22:BB:150:A:C5	22:BB:151:G:H1'	2.43	0.54
22:BB:1646:G:O2'	22:BB:2676:G:H4'	2.08	0.54
22:BB:1670:G:P	22:BB:2797:G:N1	2.73	0.54
22:BB:2065:A:H2'	22:BB:2066:G:O4'	2.08	0.54
22:BB:2284:U:H3	22:BB:2290:A:N6	2.06	0.54
22:BB:2297:G:H2'	22:BB:2299:A:C2	2.43	0.54
22:BB:2015:G:N2	22:BB:2551:A:N3	2.56	0.54
22:BB:2591:C:H2'	48:B2:4:HIS:HB2	1.90	0.54
22:BB:2663:U:N3	22:BB:2707:G:H1'	2.23	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:BB:3138:C:H2'	22:BB:3139:U:O4'	2.08	0.54
22:BB:1954:A:N6	24:BD:240:THR:H	2.06	0.54
25:BE:4:ILE:HG13	25:BE:197:VAL:HA	1.88	0.54
22:BB:2856:U:H4'	35:BO:94:TYR:N	2.22	0.54
36:BP:8:ARG:NH1	36:BP:9:ARG:HH11	2.05	0.54
22:BB:523:A:H2	38:BR:11:ARG:HH12	1.56	0.54
38:BR:25:TRP:N	38:BR:28:ARG:HE	2.06	0.54
41:BU:46:PHE:HB2	45:BY:23:LYS:HZ1	1.71	0.54
1:CA:2003:G:O2'	1:CA:1004:A:H4'	2.08	0.54
1:CA:1012:U:H2'	1:CA:1013:G:C8	2.43	0.54
1:CA:1060:C:C6	3:CC:2:GLY:CA	2.88	0.54
1:CA:1177:G:H2'	1:CA:1178:G:C8	2.43	0.54
1:CA:553:A:O4'	12:CL:31:PRO:HG2	2.08	0.54
1:CA:875:C:C1'	8:CH:15:ASN:OD1	2.37	0.54
1:CA:436:C:C2	4:CD:157:LEU:HD13	2.37	0.54
4:CD:205:GLU:HA	4:CD:208:SER:OG	2.08	0.54
6:CF:36:ARG:HB2	6:CF:36:ARG:NH1	2.23	0.54
1:CA:676:A:O2'	11:CK:119:CYS:SG	2.51	0.54
13:CM:81:LEU:CD1	13:CM:92:HIS:CE1	2.91	0.54
15:CO:75:PRO:HA	15:CO:78:TYR:HB3	1.89	0.54
22:DB:801:A:O2'	50:D4:4:THR:OG1	1.63	0.54
22:DB:2398:U:H3'	51:D5:31:HIS:C	2.28	0.54
22:DB:1265:G:H2'	22:DB:1266:G:O4'	2.07	0.54
22:DB:1290:A:H1'	35:DO:24:GLN:HA	0.58	0.54
22:DB:1313:U:H4'	22:DB:1314:A:O5'	2.08	0.54
22:DB:1385:C:H1'	22:DB:2193:C:N3	2.23	0.54
22:DB:1861:G:C5	53:D7:199:ASN:HB3	2.38	0.54
22:DB:2284:U:H3	22:DB:2290:A:N6	2.06	0.54
22:DB:2297:G:H2'	22:DB:2299:A:C2	2.43	0.54
1:CA:771:G:H21	24:DD:5:LYS:HD2	1.73	0.54
22:DB:2725:C:O3'	28:DH:141:VAL:HG21	2.08	0.54
28:DH:25:LYS:HG2	28:DH:33:LEU:O	2.07	0.54
32:DL:91:PHE:C	37:DQ:79:ARG:NH1	2.60	0.54
34:DN:60:ARG:HD3	34:DN:61:ARG:H	1.73	0.54
1:EA:1081:G:P	5:EE:18:ARG:HA	2.48	0.54
1:EA:1102:A:H2	2:EB:108:ILE:HG13	1.72	0.54
1:EA:195:A:H2'	1:EA:196:A:N7	2.23	0.54
1:EA:727:G:H2'	1:EA:729:A:OP2	2.07	0.54
5:EE:78:HIS:NE2	5:EE:143:ARG:HB2	2.23	0.54
1:EA:1186:G:C4'	9:EI:119:ALA:HB1	2.31	0.54
1:EA:242:C:P	12:EL:16:GLU:OE2	2.66	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:EQ:12:SER:HB3	17:EQ:20:THR:HB	1.90	0.54
17:EQ:43:LEU:HB3	17:EQ:69:LYS:HZ3	1.70	0.54
52:F6:14:CYS:CB	52:F6:26:ILE:H	2.21	0.54
53:F7:200:LEU:HD13	53:F7:201:ARG:N	2.22	0.54
22:FB:1265:G:N3	38:FR:33:ARG:N	2.55	0.54
22:FB:1646:G:O2'	22:FB:2676:G:H4'	2.08	0.54
22:FB:1760:G:H4'	22:FB:1941:C:C5'	2.32	0.54
22:FB:2040:A:H1'	48:F2:3:LYS:HB3	0.58	0.54
22:FB:2499:C:H41	22:FB:2521:A:H61	1.55	0.54
22:FB:795:A:H62	24:FD:222:ARG:HD2	1.72	0.54
22:FB:818:G:HO2'	33:FM:41:SER:CB	2.21	0.54
22:FB:839:U:OP1	22:FB:2407:G:H3'	2.08	0.54
22:FB:845:U:OP1	33:FM:41:SER:HB2	2.08	0.54
22:FB:879:A:N9	22:FB:2298:U:O4	2.42	0.54
22:FB:2753:C:O2'	25:FE:163:GLU:HG2	2.08	0.54
22:FB:548:G:C2'	31:FK:33:ILE:CG2	2.85	0.54
22:FB:2393:G:C1'	33:FM:65:PHE:HB2	2.38	0.54
43:FW:30:VAL:HG12	43:FW:31:SER:N	2.23	0.54
1:GA:1060:C:H2'	1:GA:1061:G:C8	2.43	0.54
1:GA:1349:A:N6	1:GA:1373:G:H1'	2.23	0.54
1:GA:17:U:H5'	5:GE:16:THR:HG22	1.86	0.54
1:GA:675:A:H2	11:GK:115:PRO:CB	2.18	0.54
1:GA:699:C:H2'	1:GA:700:G:H5'	1.88	0.54
1:GA:718:G:H2'	1:GA:718:G:N3	2.23	0.54
1:GA:750:G:O2'	15:GO:23:GLY:N	2.41	0.54
4:GD:96:LEU:O	4:GD:100:ARG:HG3	2.07	0.54
9:GI:49:PRO:O	9:GI:53:VAL:HG22	2.07	0.54
14:GN:15:LYS:HD3	14:GN:16:PHE:HD1	1.73	0.54
1:GA:749:C:O2'	15:GO:22:THR:CB	2.55	0.54
1:GA:274:A:H5''	17:GQ:14:LYS:HE2	1.89	0.54
1:GA:273:A:C2'	17:GQ:15:MET:HA	2.37	0.54
22:HB:2329:C:H5''	51:H5:42:ARG:CB	2.38	0.54
52:H6:14:CYS:CB	52:H6:26:ILE:H	2.21	0.54
53:H7:5:LYS:HZ2	53:H7:184:ILE:HG13	1.72	0.54
23:HA:106:U:OP1	43:HW:91:PRO:HB2	2.07	0.54
22:HB:1035:G:H21	22:HB:1155:G:H5'	1.72	0.54
22:HB:1239:A:OP1	39:HS:73:LYS:HG2	2.07	0.54
22:HB:1750:A:C5	22:HB:2675:U:O2	2.61	0.54
22:HB:1804:U:O2	24:HD:46:ARG:CA	2.55	0.54
22:HB:1790:G:H1'	22:HB:1811:A:N6	2.22	0.54
22:HB:1927:U:H1'	22:HB:1938:U:H5''	1.90	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:HB:2245:A:H4'	22:HB:2246:A:O5'	2.07	0.54
22:HB:642:A:N6	22:HB:2394:G:N2	2.54	0.54
22:HB:2433:G:H2'	22:HB:2434:G:O4'	2.08	0.54
22:HB:2467:A:H2'	22:HB:2468:G:O4'	2.08	0.54
22:HB:2509:A:H2'	22:HB:2510:A:H5''	1.90	0.54
22:HB:3124:G:OP1	53:H7:62:LYS:HD3	2.08	0.54
22:HB:399:G:H4'	22:HB:400:U:C5	2.43	0.54
22:HB:764:A:H4'	22:HB:765:C:C5	2.42	0.54
22:HB:857:U:O3'	22:HB:858:G:P	2.66	0.54
26:HF:48:ARG:HE	26:HF:51:VAL:CG2	2.21	0.54
27:HG:98:VAL:O	27:HG:101:GLU:HB3	2.08	0.54
34:HN:44:LYS:O	34:HN:45:SER:HB3	2.06	0.54
40:HT:53:ALA:O	40:HT:56:LEU:HB3	2.08	0.54
41:HU:92:ALA:CB	45:HY:24:GLU:HG2	2.37	0.54
44:HX:47:ALA:H	44:HX:75:GLY:CA	2.21	0.54
1:IA:23:C:H2'	1:IA:24:U:C6	2.43	0.54
1:IA:32:A:H2'	1:IA:33:A:H8	1.71	0.54
1:IA:505:G:H2'	1:IA:506:G:C8	2.42	0.54
1:IA:657:G:O2'	15:IO:23:GLY:CA	2.37	0.54
1:IA:718:G:N3	1:IA:718:G:H2'	2.23	0.54
1:IA:768:A:H5''	1:IA:804:U:C5'	2.37	0.54
1:IA:769:G:OP1	1:IA:803:G:H4'	2.08	0.54
1:IA:1100:C:C2	2:IB:98:LEU:HD21	2.43	0.54
10:IJ:46:ARG:CD	14:IN:59:ALA:HB1	2.38	0.54
15:IO:70:LEU:HD12	15:IO:77:ARG:HB2	1.89	0.54
19:IS:15:LEU:HD22	19:IS:33:THR:HG23	1.89	0.54
51:J5:13:ARG:HE	51:J5:24:ALA:HA	1.71	0.54
22:JB:1040:A:O3'	34:JN:125:LYS:NZ	2.39	0.54
22:JB:150:A:C5	22:JB:151:G:H1'	2.43	0.54
22:JB:1781:C:C5'	24:JD:213:ARG:NE	2.71	0.54
22:JB:1905:G:H2'	22:JB:1906:U:O4'	2.08	0.54
22:JB:2344:G:OP1	44:JX:39:ARG:O	2.26	0.54
22:JB:3175:C:C2'	53:J7:33:ILE:CD1	2.79	0.54
22:JB:422:C:H2'	22:JB:423:G:C8	2.42	0.54
22:JB:71:A:C4	45:JY:57:LYS:HB3	2.42	0.54
22:JB:764:A:H4'	22:JB:765:C:C5	2.42	0.54
22:JB:788:G:H22	22:JB:800:U:H2'	1.73	0.54
24:JD:246:PRO:CG	24:JD:247:VAL:H	2.17	0.54
24:JD:63:ARG:HH22	24:JD:88:ARG:HD3	1.71	0.54
26:JF:48:ARG:HE	26:JF:51:VAL:CG2	2.21	0.54
31:JK:49:VAL:HG11	31:JK:88:VAL:HA	1.89	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1108:G:OP2	3:AC:176:HIS:N	2.31	0.53
1:AA:275:G:P	17:AQ:14:LYS:HB2	2.36	0.53
1:AA:727:G:H2'	1:AA:729:A:OP2	2.08	0.53
3:AC:73:PRO:HG2	3:AC:75:VAL:HG23	1.90	0.53
1:AA:8:A:N7	4:AD:205:GLU:CB	2.71	0.53
6:AF:35:ALA:O	6:AF:36:ARG:HD3	2.08	0.53
1:AA:932:C:OP1	7:AG:3:ARG:CB	2.41	0.53
9:AI:121:ARG:HH11	9:AI:121:ARG:HG2	1.73	0.53
10:AJ:9:ARG:N	10:AJ:94:VAL:HG13	2.22	0.53
1:AA:1228:C:O2	13:AM:118:ALA:O	2.26	0.53
1:AA:952:U:N3	13:AM:125:ARG:CB	2.60	0.53
13:AM:23:TYR:CD2	13:AM:67:GLU:HG2	2.43	0.53
1:AA:658:G:O3'	15:AO:4:THR:O	2.25	0.53
1:AA:958:A:N6	19:AS:56:GLN:HG3	2.18	0.53
22:BB:2591:C:N4	48:B2:4:HIS:CE1	2.76	0.53
22:BB:123:A:C1'	50:B4:10:ARG:NH2	2.60	0.53
50:B4:11:LYS:NZ	50:B4:11:LYS:HA	2.23	0.53
22:BB:1483:G:O2'	22:BB:1484:G:N3	2.36	0.53
22:BB:1984:A:H2'	22:BB:1985:G:H8	1.73	0.53
22:BB:2062:U:HO2'	47:B1:32:HIS:CG	2.25	0.53
22:BB:38:G:N3	26:BF:42:THR:HB	2.23	0.53
22:BB:512:A:N3	40:BT:15:LYS:HG2	2.23	0.53
22:BB:742:G:O5'	24:BD:18:THR:OG1	2.25	0.53
24:BD:213:ARG:O	24:BD:214:TRP:HB2	2.08	0.53
25:BE:105:THR:HG21	25:BE:164:ARG:HB3	1.90	0.53
22:BB:2558:C:H5''	25:BE:132:LYS:HG2	1.89	0.53
27:BG:31:ILE:HD11	27:BG:34:ILE:HG23	1.89	0.53
22:BB:569:C:P	31:BK:137:LYS:NZ	2.81	0.53
31:BK:49:VAL:HG11	31:BK:88:VAL:HA	1.89	0.53
34:BN:103:VAL:H	34:BN:104:MET:CE	2.16	0.53
22:BB:2847:G:H21	35:BO:17:ARG:NH1	2.02	0.53
37:BQ:123:ARG:O	37:BQ:124:VAL:HG22	2.08	0.53
38:BR:25:TRP:CZ3	48:B2:14:SER:OG	2.51	0.53
22:BB:1246:G:P	40:BT:8:PHE:CE2	3.02	0.53
41:BU:82:LEU:HD23	41:BU:83:ALA:O	2.08	0.53
1:CA:486:U:H2'	1:CA:487:A:H8	1.73	0.53
1:CA:769:G:OP1	1:CA:803:G:H4'	2.08	0.53
1:CA:921:U:H1'	5:CE:19:MET:O	2.07	0.53
3:CC:73:PRO:HG2	3:CC:75:VAL:HG23	1.89	0.53
1:CA:407:G:C1'	4:CD:116:GLN:HB2	2.37	0.53
4:CD:149:ALA:HB3	4:CD:152:SER:OG	2.07	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:CF:48:LEU:HD22	18:CR:76:LEU:O	2.08	0.53
6:CF:51:PRO:HA	6:CF:56:PRO:HA	1.90	0.53
13:CM:68:GLY:HA2	13:CM:71:ARG:NH2	2.22	0.53
13:CM:84:ILE:O	13:CM:93:ARG:CD	2.56	0.53
19:CS:41:VAL:HG23	19:CS:43:GLU:HG2	1.89	0.53
22:DB:141:G:H2'	22:DB:142:U:C6	2.43	0.53
22:DB:2040:A:C1'	48:D2:3:LYS:C	2.74	0.53
22:DB:2065:A:H2'	22:DB:2066:G:O4'	2.08	0.53
22:DB:777:A:O2'	24:DD:210:GLY:CA	2.56	0.53
22:DB:777:A:C2	24:DD:209:ALA:HB3	2.43	0.53
27:DG:148:LYS:CD	27:DG:149:THR:H	2.20	0.53
27:DG:160:ALA:HB1	27:DG:165:GLU:C	2.28	0.53
28:DH:101:LYS:O	28:DH:117:PRO:HD2	2.08	0.53
30:DJ:112:MET:H	30:DJ:113:PRO:HD2	1.72	0.53
22:DB:606:A:C2	33:DM:23:PRO:CA	2.91	0.53
34:DN:73:LYS:HE2	34:DN:93:TYR:HB3	1.90	0.53
38:DR:25:TRP:N	38:DR:28:ARG:HE	2.07	0.53
38:DR:94:VAL:HB	39:DS:10:LYS:HD2	1.90	0.53
43:DW:121:GLN:HG3	43:DW:123:VAL:HG13	1.90	0.53
34:DN:131:LYS:HZ2	43:DW:69:VAL:HB	1.73	0.53
44:DX:47:ALA:H	44:DX:75:GLY:CA	2.21	0.53
1:EA:1177:G:H2'	1:EA:1178:G:C8	2.42	0.53
1:EA:1319:A:H5'	19:ES:70:LYS:HE2	1.89	0.53
1:EA:213:G:H1'	1:EA:214:U:C6	2.43	0.53
1:EA:486:U:H2'	1:EA:487:A:H8	1.73	0.53
1:EA:521:G:C5	12:EL:53:ARG:CZ	2.85	0.53
1:EA:691:G:H1'	1:EA:696:A:N6	2.23	0.53
1:EA:769:G:OP1	1:EA:803:G:H4'	2.08	0.53
1:EA:919:A:H2'	1:EA:920:U:C5	2.42	0.53
1:EA:995:C:N3	14:EN:4:LYS:HB2	2.24	0.53
4:ED:162:LEU:HD22	4:ED:166:LYS:HA	1.88	0.53
4:ED:67:ILE:HG22	4:ED:114:ARG:HH12	1.72	0.53
6:EF:35:ALA:O	6:EF:36:ARG:HD3	2.08	0.53
13:EM:3:ARG:HD2	13:EM:3:ARG:H	1.71	0.53
13:EM:86:CYS:SG	13:EM:88:ARG:HB2	2.48	0.53
1:EA:244:U:C5'	17:EQ:100:LYS:NZ	2.72	0.53
17:EQ:92:ARG:HE	17:EQ:92:ARG:HA	1.72	0.53
23:FA:91:A:H2'	23:FA:92:G:O4'	2.07	0.53
22:FB:1000:G:H5'	46:FZ:27:LYS:HD3	1.89	0.53
22:FB:1149:G:O5'	31:FK:55:ALA:CB	2.54	0.53
22:FB:1912:G:H3'	22:FB:1913:G:OP2	2.08	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:FB:1984:A:H2'	22:FB:1985:G:H8	1.73	0.53
22:FB:2065:A:H2'	22:FB:2066:G:O4'	2.08	0.53
22:FB:2297:G:H2'	22:FB:2299:A:C2	2.43	0.53
22:FB:2364:C:C1'	44:FX:69:PHE:CE1	2.89	0.53
22:FB:2433:G:H2'	22:FB:2434:G:O4'	2.07	0.53
22:FB:2044:G:H5'	22:FB:2480:C:O2'	2.07	0.53
22:FB:2752:C:C1'	25:FE:166:THR:HG22	2.35	0.53
22:FB:411:C:P	47:F1:62:ARG:HH12	2.32	0.53
22:FB:464:G:H1'	22:FB:469:G:H21	1.73	0.53
22:FB:675:C:C5'	33:FM:26:THR:HG23	2.39	0.53
26:FF:151:VAL:HG21	26:FF:188:ILE:HG23	1.89	0.53
22:FB:1269:G:H22	26:FF:76:THR:HA	1.54	0.53
28:FH:6:LYS:HZ2	28:FH:7:GLN:H	1.55	0.53
33:FM:64:GLY:H	51:F5:12:ARG:H	1.55	0.53
22:FB:1291:G:C3'	35:FO:33:ARG:O	2.56	0.53
41:FU:27:PHE:HB2	41:FU:78:ALA:HB3	1.90	0.53
22:FB:491:A:C3'	42:FV:55:THR:HG23	2.36	0.53
22:FB:940:G:C4	46:FZ:37:THR:OG1	2.61	0.53
1:GA:1019:C:H2'	1:GA:1020:U:C5	2.43	0.53
1:GA:1103:C:OP1	2:GB:98:LEU:CD1	2.55	0.53
1:GA:1479:C:H2'	1:GA:1480:G:C8	2.42	0.53
1:GA:195:A:H2'	1:GA:196:A:N7	2.23	0.53
1:GA:23:C:H2'	1:GA:24:U:C6	2.43	0.53
1:GA:362:G:OP2	12:GL:34:ARG:NH2	2.40	0.53
1:GA:373:A:H3'	1:GA:374:A:H8	1.73	0.53
2:GB:72:GLY:HA2	2:GB:165:VAL:HG22	1.90	0.53
1:GA:9:G:C5'	5:GE:104:ALA:HB1	2.19	0.53
5:GE:61:TYR:C	5:GE:63:ARG:H	2.11	0.53
9:GI:48:GLU:HA	9:GI:51:ARG:HD3	1.89	0.53
1:GA:689:C:P	11:GK:51:LYS:HZ1	2.30	0.53
1:GA:735:C:C6	18:GR:75:ILE:HD12	2.26	0.53
19:GS:49:ILE:HG22	19:GS:50:ALA:H	1.73	0.53
22:HB:1036:G:H1'	22:HB:1145:C:C4'	2.30	0.53
22:HB:1140:A:O2'	22:HB:2548:G:N2	2.41	0.53
22:HB:1291:G:OP1	35:HO:110:MET:HE1	2.09	0.53
22:HB:1902:A:N3	22:HB:1902:A:H2'	2.23	0.53
22:HB:2261:G:H5''	22:HB:2262:C:O5'	2.08	0.53
22:HB:2357:A:O2'	36:HP:19:THR:OG1	2.21	0.53
22:HB:2368:G:H5''	22:HB:2369:U:C6	2.43	0.53
22:HB:2486:C:H5''	22:HB:2552:C:H41	1.73	0.53
22:HB:2763:U:O3'	25:HE:40:GLN:HG2	2.08	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:HB:851:C:H2'	22:HB:852:U:C6	2.42	0.53
22:HB:1109:A:O3'	30:HJ:7:ILE:HD12	2.08	0.53
31:HK:74:MET:HG3	31:HK:75:ILE:HD13	1.90	0.53
32:HL:87:SER:CB	37:HQ:83:PHE:CB	2.81	0.53
41:HU:82:LEU:HD23	41:HU:83:ALA:O	2.08	0.53
1:IA:275:G:H2'	1:IA:276:G:C8	2.43	0.53
1:IA:560:U:C5'	1:IA:562:C:OP1	2.56	0.53
4:ID:96:LEU:O	4:ID:100:ARG:HG3	2.08	0.53
6:IF:36:ARG:HB2	6:IF:36:ARG:NH1	2.23	0.53
7:IG:103:TRP:HE1	7:IG:137:LYS:CB	2.18	0.53
13:IM:87:TYR:HB3	19:IS:73:GLU:CA	2.37	0.53
14:IN:15:LYS:HD3	14:IN:16:PHE:HD1	1.73	0.53
16:IP:20:VAL:HG13	16:IP:32:TYR:CE1	2.43	0.53
16:IP:37:GLY:HA2	16:IP:50:LYS:O	2.09	0.53
18:IR:39:VAL:HG23	18:IR:43:PHE:HB2	1.88	0.53
47:J1:31:ILE:HG23	47:J1:32:HIS:N	2.20	0.53
33:JM:62:LYS:CD	51:J5:30:ARG:NE	2.71	0.53
23:JA:117:G:C1'	36:JP:41:GLN:NE2	2.71	0.53
22:JB:1742:G:OP1	37:JQ:123:ARG:NH1	2.41	0.53
22:JB:1790:G:H1'	22:JB:1811:A:N6	2.22	0.53
22:JB:1888:C:O2'	22:JB:1889:G:OP1	2.25	0.53
22:JB:2467:A:H2'	22:JB:2468:G:O4'	2.09	0.53
22:JB:468:A:H5'	41:JU:69:ILE:HG13	1.85	0.53
22:JB:777:A:O2'	24:JD:214:TRP:CD2	2.54	0.53
29:JI:5:LEU:HB3	29:JI:14:THR:O	2.08	0.53
32:JL:83:ARG:HD2	32:JL:87:SER:HB3	1.89	0.53
22:JB:2692:A:C3'	35:JO:14:SER:HB2	2.27	0.53
22:JB:1172:U:C5'	39:JS:22:VAL:HG11	2.30	0.53
22:JB:339:U:C2'	42:JV:80:LYS:CE	2.85	0.53
1:AA:1012:U:H2'	1:AA:1013:G:C8	2.43	0.53
1:AA:1531:A:H2'	1:AA:1532:U:O4'	2.08	0.53
1:AA:860:A:H2'	1:AA:861:G:C8	2.44	0.53
4:AD:205:GLU:HA	4:AD:208:SER:OG	2.08	0.53
1:AA:545:C:H5'	4:AD:72:GLU:CD	2.19	0.53
6:AF:98:LEU:HD13	6:AF:101:ALA:C	2.28	0.53
5:AE:152:ARG:HA	8:AH:42:GLU:O	2.08	0.53
12:AL:83:VAL:HG22	12:AL:84:LEU:N	2.23	0.53
10:AJ:63:PHE:CZ	14:AN:48:ALA:HB1	2.42	0.53
19:AS:49:ILE:HG22	19:AS:50:ALA:H	1.73	0.53
22:BB:141:G:H2'	22:BB:142:U:C6	2.43	0.53
22:BB:1363:C:O2	22:BB:1588:A:H1'	2.08	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:BB:1669:A:N6	22:BB:1670:G:H21	2.02	0.53
22:BB:1949:A:O2'	22:BB:2572:U:C5'	2.56	0.53
22:BB:2433:G:H2'	22:BB:2434:G:O4'	2.07	0.53
22:BB:2504:G:C4'	22:BB:2721:A:C2	2.91	0.53
22:BB:38:G:H1'	26:BF:42:THR:OG1	2.08	0.53
22:BB:459:A:N3	22:BB:459:A:H2'	2.22	0.53
22:BB:59:G:H4'	45:BY:44:ARG:NH1	2.22	0.53
22:BB:743:A:H2'	22:BB:744:C:C6	2.44	0.53
22:BB:81:C:H2'	22:BB:82:G:C8	2.43	0.53
22:BB:37:C:HO2'	26:BF:45:THR:CB	2.00	0.53
26:BF:48:ARG:HE	26:BF:51:VAL:CG2	2.21	0.53
22:BB:628:A:H8	26:BF:97:ARG:NH1	1.92	0.53
27:BG:148:LYS:CD	27:BG:149:THR:H	2.20	0.53
27:BG:160:ALA:HB1	27:BG:165:GLU:C	2.28	0.53
31:BK:62:ILE:HD11	31:BK:144:MET:SD	2.49	0.53
34:BN:65:ILE:HA	43:BW:115:ILE:CG1	2.37	0.53
40:BT:50:VAL:N	40:BT:53:ALA:HB3	2.18	0.53
22:BB:888:G:C4	43:BW:165:GLU:OE1	2.59	0.53
23:BA:106:U:H3'	43:BW:91:PRO:HD3	1.89	0.53
1:CA:10:A:H62	1:CA:559:A:H62	1.56	0.53
1:CA:1120:G:H2'	1:CA:1121:U:C6	2.44	0.53
1:CA:1169:A:N3	1:CA:1169:A:C2'	2.71	0.53
1:CA:436:C:O4'	4:CD:156:GLU:O	2.27	0.53
1:CA:518:C:N3	12:CL:47:LYS:O	2.40	0.53
1:CA:546:G:OP1	4:CD:73:ARG:HB2	2.08	0.53
1:CA:691:G:H1'	1:CA:696:A:N6	2.23	0.53
3:CC:142:MET:HA	3:CC:145:GLY:O	2.07	0.53
6:CF:35:ALA:O	6:CF:36:ARG:HD3	2.08	0.53
6:CF:48:LEU:HB3	18:CR:77:GLY:C	2.23	0.53
1:CA:598:U:O3'	8:CH:95:VAL:N	2.41	0.53
9:CI:48:GLU:N	9:CI:49:PRO:HD2	2.22	0.53
14:CN:25:VAL:HG13	14:CN:26:ARG:N	2.22	0.53
16:CP:37:GLY:HA2	16:CP:50:LYS:O	2.08	0.53
16:CP:6:LEU:HB3	16:CP:17:TYR:CD2	2.43	0.53
17:CQ:92:ARG:HA	17:CQ:92:ARG:HE	1.73	0.53
20:CT:25:ARG:O	20:CT:29:LYS:HG3	2.08	0.53
47:D1:5:LEU:HD13	47:D1:55:ARG:HB3	1.90	0.53
35:DO:99:ARG:CB	48:D2:44:HIS:CD2	2.82	0.53
50:D4:11:LYS:HA	50:D4:11:LYS:NZ	2.23	0.53
53:D7:11:ALA:HA	53:D7:205:VAL:HG21	1.91	0.53
22:DB:3124:G:H21	53:D7:209:MSE:SE	2.41	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:DB:1110:G:P	30:DJ:7:ILE:HD11	2.48	0.53
22:DB:1172:U:H1'	39:DS:8:GLY:C	2.28	0.53
22:DB:1669:A:N6	22:DB:1670:G:H21	2.02	0.53
22:DB:1674:C:OP2	25:DE:134:TRP:CD1	2.55	0.53
22:DB:1806:G:H3'	22:DB:1807:A:C8	2.43	0.53
22:DB:2261:G:H5''	22:DB:2262:C:O5'	2.07	0.53
22:DB:2728:A:H1'	28:DH:67:LEU:HB2	1.90	0.53
22:DB:2847:G:N2	35:DO:17:ARG:HH12	2.05	0.53
22:DB:574:C:H1'	22:DB:586:G:N2	2.23	0.53
22:DB:699:G:N7	50:D4:5:TYR:CD1	2.61	0.53
22:DB:753:U:H1'	22:DB:1964:A:H1'	1.90	0.53
24:DD:263:ARG:HG2	24:DD:264:LYS:H	1.72	0.53
25:DE:55:ALA:HA	25:DE:58:LYS:NZ	2.23	0.53
27:DG:33:LYS:HB2	27:DG:157:VAL:HG23	1.89	0.53
22:DB:1017:C:C2	31:DK:56:THR:HG23	2.34	0.53
33:DM:143:PRO:HG2	33:DM:144:GLU:H	1.74	0.53
22:DB:1670:G:N2	35:DO:11:ASN:HD21	2.06	0.53
36:DP:42:ILE:HG22	36:DP:43:ILE:H	1.73	0.53
36:DP:8:ARG:NH1	36:DP:9:ARG:HH11	2.05	0.53
37:DQ:100:ARG:NH1	37:DQ:120:ASP:HB3	2.19	0.53
39:DS:62:GLU:OE1	39:DS:98:ILE:HG22	2.09	0.53
40:DT:53:ALA:O	40:DT:56:LEU:HB3	2.08	0.53
22:DB:868:U:O4'	44:DX:25:LYS:CE	2.56	0.53
46:DZ:7:ARG:HA	46:DZ:28:ILE:HD13	1.88	0.53
46:DZ:4:LYS:HG2	46:DZ:31:SER:HB2	1.90	0.53
1:EA:1012:U:H2'	1:EA:1013:G:C8	2.43	0.53
1:EA:1169:A:C2'	1:EA:1169:A:N3	2.71	0.53
1:EA:1333:A:H2'	1:EA:1334:G:O4'	2.08	0.53
1:EA:1420:C:H42	1:EA:1480:G:H1	1.53	0.53
6:EF:38:GLU:OE1	6:EF:66:GLU:HB2	2.08	0.53
1:EA:1349:A:OP1	9:EI:121:ARG:HG3	2.07	0.53
9:EI:40:LEU:HB2	9:EI:43:ALA:HB3	1.89	0.53
1:EA:538:G:C4'	12:EL:114:LYS:CD	2.77	0.53
19:ES:43:GLU:HG3	19:ES:44:MET:N	2.24	0.53
29:FI:1:MET:CG	47:F1:68:ARG:HH22	2.06	0.53
22:FB:2264:C:C6	49:F3:28:ARG:HB2	2.43	0.53
22:FB:45:C:N4	22:FB:156:G:H1	2.06	0.53
22:FB:1803:G:H2'	22:FB:1804:U:N1	2.23	0.53
22:FB:2448:A:H1'	34:FN:57:ARG:CG	2.36	0.53
22:FB:2540:A:H2'	32:FL:23:ARG:HD2	1.90	0.53
22:FB:3093:C:H4'	29:FI:21:LYS:HB3	1.81	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:FB:409:G:C5'	47:F1:39:VAL:CG1	2.86	0.53
22:FB:410:A:O3'	47:F1:58:LYS:HD3	2.09	0.53
22:FB:459:A:H2'	22:FB:459:A:N3	2.22	0.53
22:FB:566:U:C1'	31:FK:73:ASN:ND2	2.67	0.53
22:FB:566:U:H2'	31:FK:73:ASN:CG	2.28	0.53
24:FD:170:SER:C	24:FD:172:TYR:H	2.10	0.53
29:FI:5:LEU:HB3	29:FI:14:THR:O	2.08	0.53
31:FK:62:ILE:HD11	31:FK:144:MET:SD	2.48	0.53
22:FB:2627:G:H21	32:FL:26:ASN:ND2	2.05	0.53
32:FL:76:ARG:CB	32:FL:90:ARG:HH12	2.21	0.53
32:FL:90:ARG:HG3	32:FL:91:PHE:N	2.24	0.53
33:FM:100:ARG:HE	33:FM:101:ARG:HH12	1.56	0.53
34:FN:99:LYS:N	34:FN:100:PRO:HD3	2.24	0.53
38:FR:18:LEU:HD13	38:FR:21:ALA:HB2	1.91	0.53
22:FB:1274:C:OP2	40:FT:118:LYS:CD	2.55	0.53
1:GA:1384:C:H2'	1:GA:1385:G:C8	2.39	0.53
1:GA:275:G:H2'	1:GA:276:G:C8	2.43	0.53
1:GA:34:C:H2'	1:GA:35:G:C8	2.43	0.53
1:GA:546:G:OP1	4:GD:72:GLU:HB3	2.08	0.53
1:GA:768:A:H5''	1:GA:804:U:C5'	2.37	0.53
1:GA:769:G:OP1	1:GA:803:G:H4'	2.08	0.53
2:GB:102:LEU:HB2	2:GB:176:GLU:OE1	2.09	0.53
3:GC:27:LYS:O	3:GC:30:ARG:HG2	2.06	0.53
6:GF:38:GLU:OE1	6:GF:66:GLU:HB2	2.08	0.53
9:GI:121:ARG:HH11	9:GI:121:ARG:HG2	1.73	0.53
10:GJ:20:ALA:O	10:GJ:24:VAL:HG23	2.08	0.53
14:GN:40:CYS:O	14:GN:44:LEU:HB3	2.08	0.53
15:GO:16:ALA:HA	15:GO:26:GLU:HB2	1.90	0.53
16:GP:20:VAL:HG13	16:GP:32:TYR:CE1	2.43	0.53
19:GS:41:VAL:HG23	19:GS:43:GLU:HG2	1.89	0.53
22:HB:3122:U:O2'	53:H7:158:LYS:HE3	2.06	0.53
23:HA:91:A:H2'	23:HA:92:G:O4'	2.07	0.53
22:HB:1566:G:C6	22:HB:1567:A:N6	2.77	0.53
22:HB:2462:C:O2	34:HN:121:LEU:CD1	2.49	0.53
22:HB:1985:G:H1'	22:HB:2692:A:N6	2.23	0.53
22:HB:3093:C:O4'	22:HB:2181:A:C2	2.59	0.53
22:HB:5:A:C2	22:HB:2873:G:C5	2.92	0.53
22:HB:690:A:H4'	22:HB:2054:A:C4'	2.38	0.53
22:HB:700:C:OP1	50:H4:2:LYS:CG	2.56	0.53
27:HG:167:ARG:HD2	27:HG:170:LEU:HD22	1.89	0.53
22:HB:2619:G:P	31:HK:122:HIS:CE1	3.01	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:HB:1148:G:C2'	31:HK:134:MET:SD	2.95	0.53
31:HK:84:ASN:HA	31:HK:152:ALA:HA	1.90	0.53
22:HB:648:A:OP2	33:HM:131:LYS:HE2	2.07	0.53
22:HB:824:U:H3'	33:HM:33:GLY:CA	2.38	0.53
35:HO:76:VAL:HA	35:HO:79:VAL:HG12	1.89	0.53
37:HQ:123:ARG:O	37:HQ:124:VAL:HG22	2.08	0.53
22:HB:1020:A:C5'	38:HR:59:ARG:HD3	2.34	0.53
42:HV:23:ILE:HB	42:HV:81:VAL:HG11	1.90	0.53
22:HB:60:A:C5'	45:HY:29:ARG:NH2	2.67	0.53
45:HY:48:ARG:HA	45:HY:51:ALA:HB3	1.89	0.53
1:IA:1374:A:O2'	7:IG:29:LYS:CE	2.56	0.53
1:IA:599:C:C5'	8:IH:97:VAL:HG12	2.36	0.53
1:IA:712:A:H2'	1:IA:713:G:O4'	2.07	0.53
1:IA:824:C:O4'	8:IH:3:THR:HB	2.08	0.53
1:IA:864:A:H5''	1:IA:1078:U:O2	2.08	0.53
3:IC:151:VAL:HG13	3:IC:200:ALA:HA	1.90	0.53
1:IA:510:A:HO2'	4:ID:43:HIS:CE1	2.26	0.53
5:IE:51:VAL:HB	5:IE:52:PRO:HD3	1.90	0.53
5:IE:78:HIS:NE2	5:IE:143:ARG:HB2	2.24	0.53
1:IA:1227:A:H5''	13:IM:111:LYS:HE3	1.90	0.53
14:IN:15:LYS:HD3	14:IN:16:PHE:N	2.20	0.53
16:IP:6:LEU:HB3	16:IP:17:TYR:CD2	2.43	0.53
16:IP:60:LEU:HD23	16:IP:65:GLN:NE2	2.20	0.53
52:J6:14:CYS:CB	52:J6:26:ILE:H	2.21	0.53
22:JB:3178:C:O4'	53:J7:161:ASP:CA	2.56	0.53
22:JB:1197:U:O2'	22:JB:1198:C:H5'	2.08	0.53
22:JB:1329:U:H5'	22:JB:1405:A:N3	2.23	0.53
22:JB:2186:G:O2'	24:JD:150:GLY:O	2.26	0.53
22:JB:2308:A:H2'	22:JB:2309:G:H8	1.74	0.53
22:JB:2368:G:H5''	22:JB:2369:U:C6	2.43	0.53
22:JB:2433:G:H2'	22:JB:2434:G:O4'	2.08	0.53
22:JB:2491:C:C4'	25:JE:138:PRO:CB	2.81	0.53
22:JB:2672:U:H2'	22:JB:2673:G:H8	1.74	0.53
22:JB:1985:G:H1'	22:JB:2692:A:N6	2.23	0.53
22:JB:399:G:H4'	22:JB:400:U:C5	2.43	0.53
22:JB:851:C:H2'	22:JB:852:U:C6	2.43	0.53
22:JB:977:G:H2'	22:JB:978:U:C6	2.43	0.53
34:JN:95:VAL:HG23	34:JN:96:SER:H	1.72	0.53
37:JQ:61:GLY:HA3	37:JQ:66:PHE:HD1	1.73	0.53
1:AA:1202:G:N2	14:AN:42:ILE:HG21	2.23	0.53
1:AA:1333:A:H2'	1:AA:1334:G:O4'	2.08	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1378:C:H3'	1:AA:1379:G:H4'	1.90	0.53
1:AA:1471:G:OP1	32:BL:17:ARG:CG	2.57	0.53
1:AA:195:A:H2'	1:AA:196:A:N7	2.23	0.53
1:AA:10:A:H62	1:AA:559:A:H62	1.57	0.53
1:AA:691:G:H1'	1:AA:696:A:N6	2.23	0.53
4:AD:14:ARG:HG2	4:AD:66:ARG:NH1	2.22	0.53
7:AG:16:LEU:HG	9:AI:42:ARG:NH1	2.23	0.53
13:AM:80:ARG:H	13:AM:80:ARG:HD3	1.74	0.53
23:BA:86:A:H2'	23:BA:87:C:O4'	2.09	0.53
22:BB:2725:C:C5'	28:BH:142:GLY:N	2.69	0.53
22:BB:2856:U:H5'	35:BO:93:GLY:O	2.04	0.53
22:BB:505:G:H1'	40:BT:78:ASN:O	2.09	0.53
22:BB:732:G:H2'	22:BB:733:G:H8	1.73	0.53
22:BB:821:A:H62	33:BM:40:ARG:HH22	1.57	0.53
22:BB:1954:A:N6	24:BD:239:ARG:CB	2.71	0.53
24:BD:263:ARG:HH21	24:BD:264:LYS:NZ	2.07	0.53
27:BG:167:ARG:HD2	27:BG:170:LEU:HD22	1.89	0.53
27:BG:33:LYS:HB2	27:BG:157:VAL:HG23	1.89	0.53
31:BK:74:MET:HG3	31:BK:75:ILE:HD13	1.90	0.53
1:AA:340:U:P	32:BL:109:ARG:HH12	2.29	0.53
34:BN:99:LYS:N	34:BN:100:PRO:HD3	2.24	0.53
35:BO:45:ARG:C	35:BO:47:PHE:H	2.11	0.53
36:BP:42:ILE:HG22	36:BP:43:ILE:H	1.74	0.53
37:BQ:59:GLY:HA2	37:BQ:105:TYR:HA	1.89	0.53
22:BB:827:C:C5'	39:BS:84:THR:C	2.64	0.53
22:BB:2332:G:H21	44:BX:30:VAL:CG1	2.21	0.53
22:BB:2365:U:C1'	44:BX:37:LEU:CG	2.71	0.53
1:CA:1378:C:H3'	1:CA:1379:G:H4'	1.90	0.53
1:CA:275:G:H2'	1:CA:276:G:C8	2.43	0.53
1:CA:482:A:H2'	1:CA:483:C:O4'	2.08	0.53
1:CA:718:G:H2'	1:CA:718:G:N3	2.23	0.53
1:CA:860:A:H2'	1:CA:861:G:C8	2.44	0.53
2:CB:72:GLY:HA2	2:CB:165:VAL:HG22	1.91	0.53
3:CC:119:ARG:HG2	3:CC:123:GLN:HE21	1.72	0.53
1:CA:597:G:C2	8:CH:92:ARG:HG2	2.43	0.53
8:CH:96:GLY:N	8:CH:99:GLU:HB2	2.24	0.53
1:CA:1345:U:P	9:CI:120:ARG:HE	2.29	0.53
14:CN:15:LYS:HD3	14:CN:16:PHE:HD1	1.73	0.53
1:CA:761:G:C5	17:CQ:104:LYS:HA	2.42	0.53
1:CA:275:G:H4'	17:CQ:15:MET:H	1.72	0.53
19:CS:49:ILE:HG22	19:CS:50:ALA:H	1.73	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:DB:465:C:H42	50:D4:39:ARG:CZ	2.13	0.53
23:DA:103:A:H2'	23:DA:104:A:C8	2.43	0.53
23:DA:76:U:H2'	23:DA:77:G:H5'	1.89	0.53
23:DA:86:A:H2'	23:DA:87:C:O4'	2.09	0.53
22:DB:1030:U:OP1	22:DB:1046:U:O4'	2.26	0.53
22:DB:1197:U:C3'	22:DB:1198:C:P	2.97	0.53
22:DB:1646:G:O2'	22:DB:2676:G:H4'	2.09	0.53
22:DB:1681:A:C2	32:DL:79:HIS:CE1	2.96	0.53
22:DB:2492:G:N9	22:DB:2493:U:C4	2.76	0.53
22:DB:459:A:H2'	22:DB:459:A:N3	2.22	0.53
22:DB:539:A:OP2	31:DK:139:ARG:CZ	2.51	0.53
22:DB:596:C:O2	33:DM:29:THR:HG22	1.98	0.53
26:DF:48:ARG:HE	26:DF:51:VAL:CG2	2.21	0.53
22:DB:2494:C:C3'	31:DK:108:GLY:CA	2.47	0.53
32:DL:86:GLY:O	37:DQ:83:PHE:O	2.26	0.53
35:DO:28:LEU:HA	35:DO:32:GLY:HA2	1.89	0.53
22:DB:19:C:OP1	38:DR:23:GLY:HA2	2.08	0.53
22:DB:528:G:O3'	40:DT:39:ARG:HG2	2.07	0.53
43:DW:17:SER:HA	43:DW:36:ARG:NH1	2.22	0.53
1:EA:10:A:H62	1:EA:559:A:H62	1.57	0.53
1:EA:1512:U:H2'	1:EA:1513:A:H8	1.72	0.53
1:EA:254:G:H2'	1:EA:255:G:C8	2.43	0.53
1:EA:275:G:H2'	1:EA:276:G:C8	2.43	0.53
1:EA:487:A:C2'	4:ED:131:ARG:NH1	2.71	0.53
1:EA:632:A:C1'	17:EQ:30:PRO:CA	2.86	0.53
1:EA:712:A:H2'	1:EA:713:G:O4'	2.07	0.53
1:EA:880:C:OP1	12:EL:7:ILE:CA	2.53	0.53
1:EA:919:A:C2	1:EA:920:U:C4	2.97	0.53
2:EB:16:HIS:HE1	2:EB:213:LEU:HB3	1.73	0.53
2:EB:189:ASP:CB	2:EB:204:ASN:HA	2.38	0.53
2:EB:27:LYS:HD2	2:EB:193:ASP:HB3	1.90	0.53
6:EF:6:VAL:HG22	6:EF:90:VAL:HA	1.90	0.53
7:EG:16:LEU:CD2	9:EI:41:VAL:HG13	2.29	0.53
7:EG:68:ASN:HB3	7:EG:135:VAL:HG22	1.91	0.53
14:EN:31:ARG:HD2	14:EN:31:ARG:N	2.23	0.53
1:EA:995:C:C4	14:EN:4:LYS:HD3	2.40	0.53
15:EO:36:ILE:HD11	15:EO:63:ARG:CZ	2.39	0.53
16:EP:20:VAL:HG13	16:EP:32:TYR:CE1	2.43	0.53
19:ES:49:ILE:HG22	19:ES:50:ALA:H	1.73	0.53
47:F1:5:LEU:HD13	47:F1:55:ARG:HB3	1.90	0.53
23:FA:66:G:H2'	23:FA:67:C:O4'	2.08	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:FB:1669:A:N6	22:FB:1670:G:H21	2.02	0.53
22:FB:2284:U:H3	22:FB:2290:A:N6	2.06	0.53
22:FB:236:C:H1'	22:FB:632:A:H1'	1.90	0.53
22:FB:81:C:H2'	22:FB:82:G:C8	2.43	0.53
24:FD:246:PRO:CG	24:FD:247:VAL:H	2.17	0.53
24:FD:83:GLU:O	24:FD:92:ILE:HG22	2.08	0.53
26:FF:33:TRP:HA	26:FF:36:ALA:HB3	1.90	0.53
26:FF:48:ARG:HE	26:FF:51:VAL:CG2	2.21	0.53
22:FB:2292:C:H5''	27:FG:87:ILE:HD12	1.90	0.53
35:FO:45:ARG:N	35:FO:46:PRO:CD	2.72	0.53
38:FR:73:GLY:HA3	38:FR:114:ARG:HH11	1.73	0.53
22:FB:470:U:HO2'	41:FU:68:PHE:HE2	0.58	0.53
1:GA:1080:A:C4'	5:GE:16:THR:HG1	2.21	0.53
1:GA:1267:C:O2	1:GA:1327:C:H4'	2.08	0.53
1:GA:1518:A:H2'	1:GA:1519:A:C8	2.44	0.53
1:GA:815:A:C3'	1:GA:1526:G:H21	2.18	0.53
1:GA:877:C:C1'	8:GH:3:THR:HA	2.30	0.53
3:GC:57:ILE:HG22	3:GC:59:ARG:HG3	1.90	0.53
12:GL:10:LEU:HB3	17:GQ:32:TYR:CE2	2.41	0.53
18:GR:39:VAL:HG23	18:GR:43:PHE:HB2	1.88	0.53
1:GA:958:A:N6	19:GS:77:THR:CA	2.71	0.53
22:HB:3121:G:H4'	53:H7:160:LYS:CE	2.37	0.53
23:HA:108:G:H2'	23:HA:109:G:O4'	2.09	0.53
22:HB:1166:A:C6	22:HB:1168:G:C4	2.96	0.53
22:HB:47:G:C2	22:HB:154:U:OP2	2.62	0.53
22:HB:1584:G:OP2	24:HD:59:LYS:CG	2.51	0.53
22:HB:2001:G:H2'	22:HB:2002:A:O4'	2.07	0.53
22:HB:2242:C:H2'	22:HB:2243:C:H6	1.72	0.53
22:HB:648:A:H61	33:HM:78:SER:HB2	1.72	0.53
22:HB:732:G:H2'	22:HB:733:G:H8	1.72	0.53
22:HB:741:G:C2'	24:HD:17:THR:O	2.55	0.53
22:HB:61:U:C4	22:HB:91:A:N6	2.68	0.53
24:HD:24:LEU:HA	24:HD:201:HIS:HE1	1.74	0.53
24:HD:263:ARG:HG2	24:HD:264:LYS:H	1.72	0.53
22:HB:2553:G:H22	25:HE:142:GLY:H	1.45	0.53
25:HE:19:ARG:HH22	37:HQ:84:ALA:HB1	1.74	0.53
22:HB:811:G:OP2	26:HF:56:ARG:HD2	2.09	0.53
28:HH:6:LYS:HE3	28:HH:69:ARG:HB3	1.89	0.53
31:HK:139:ARG:NH2	31:HK:142:ARG:HH11	2.05	0.53
33:HM:56:LEU:HD23	33:HM:57:ILE:N	2.20	0.53
23:HA:49:C:H5'	36:HP:94:TYR:CZ	2.43	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:HR:18:LEU:HD13	38:HR:21:ALA:HB2	1.91	0.53
22:HB:1338:G:N2	40:HT:106:LEU:CB	2.71	0.53
22:HB:934:G:C4'	44:HX:23:VAL:HG21	2.24	0.53
1:IA:2003:G:O2'	1:IA:1004:A:H4'	2.08	0.53
1:IA:1147:C:C1'	9:II:16:ARG:NE	2.67	0.53
1:IA:1267:C:O2	1:IA:1327:C:H4'	2.08	0.53
1:IA:1333:A:H2'	1:IA:1334:G:O4'	2.08	0.53
1:IA:1376:U:H5''	7:IG:95:ARG:HH12	1.73	0.53
1:IA:1512:U:H2'	1:IA:1513:A:H8	1.71	0.53
1:IA:590:C:C5'	8:IH:30:ARG:CZ	2.82	0.53
3:IC:191:THR:HB	3:IC:194:GLY:C	2.28	0.53
1:IA:646:U:C1'	17:IQ:81:ARG:NH1	2.60	0.53
50:J4:11:LYS:NZ	50:J4:11:LYS:HA	2.23	0.53
23:JA:103:A:H2'	23:JA:104:A:C8	2.43	0.53
23:JA:86:A:H2'	23:JA:87:C:O4'	2.09	0.53
22:JB:1256:C:H4'	33:JM:17:LYS:HD3	1.90	0.53
22:JB:1363:C:H1'	22:JB:1588:A:O2'	2.08	0.53
22:JB:690:A:H4'	22:JB:2054:A:C4'	2.38	0.53
22:JB:2239:C:HO2'	22:JB:2367:A:C4'	2.20	0.53
22:JB:2241:U:C4	44:JX:14:ARG:N	2.70	0.53
22:JB:2602:G:P	22:JB:2800:C:O2'	2.65	0.53
22:JB:25:U:H2'	22:JB:26:G:H5'	1.90	0.53
22:JB:415:A:HO2'	22:JB:420:C:H5'	1.74	0.53
22:JB:846:A:C1'	33:JM:53:ARG:HH11	2.16	0.53
22:JB:846:A:H4'	33:JM:52:GLY:O	2.07	0.53
24:JD:11:PRO:HD2	24:JD:24:LEU:H	1.73	0.53
22:JB:2550:C:C2'	25:JE:143:GLN:HB3	2.31	0.53
40:JT:53:ALA:O	40:JT:56:LEU:HB3	2.08	0.53
22:JB:339:U:H1'	42:JV:79:SER:OG	2.06	0.53
42:JV:85:ASP:HB3	42:JV:86:PRO:HD3	1.89	0.53
1:AA:1169:A:N3	1:AA:1169:A:C2'	2.71	0.53
1:AA:1420:C:H42	1:AA:1480:G:H1	1.54	0.53
1:AA:794:A:H2	1:AA:1506:U:OP1	1.91	0.53
1:AA:22:G:N3	1:AA:913:A:H2	2.06	0.53
1:AA:639:G:H2'	1:AA:640:A:C8	2.38	0.53
3:AC:87:LEU:HB2	3:AC:101:LEU:HD11	1.91	0.53
5:AE:51:VAL:HB	5:AE:52:PRO:HD3	1.90	0.53
8:AH:28:ALA:HB2	8:AH:58:TYR:O	2.09	0.53
1:AA:1224:G:O2'	13:AM:102:ARG:HA	2.09	0.53
22:BB:1135:C:H4'	52:B6:36:GLN:CG	2.38	0.53
23:BA:44:C:H1'	27:BG:63:GLN:NE2	2.24	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:BB:1002:C:N1	22:BB:1174:G:N2	2.36	0.53
22:BB:1397:A:C4	22:BB:1418:C:N3	2.66	0.53
22:BB:1806:G:H3'	22:BB:1807:A:C8	2.43	0.53
22:BB:1806:G:H5''	22:BB:1807:A:H2'	1.89	0.53
22:BB:690:A:H4'	22:BB:2054:A:C4'	2.38	0.53
22:BB:2407:G:H4'	22:BB:2408:G:N7	2.23	0.53
22:BB:2510:A:H61	22:BB:2641:A:H61	1.56	0.53
22:BB:2671:C:H1'	22:BB:2822:U:C1'	2.38	0.53
22:BB:476:G:H2'	22:BB:477:A:C8	2.43	0.53
22:BB:673:G:H2'	22:BB:674:U:C6	2.44	0.53
22:BB:6:A:H1'	31:BK:163:PRO:HG3	1.91	0.53
22:BB:713:G:H2'	22:BB:714:G:C8	2.44	0.53
24:BD:263:ARG:HG2	24:BD:264:LYS:H	1.72	0.53
22:BB:2599:U:H1'	25:BE:157:ALA:O	2.07	0.53
27:BG:17:MET:HA	27:BG:21:GLY:HA2	1.90	0.53
38:BR:75:ASN:HB3	38:BR:79:PHE:HB2	1.89	0.53
43:BW:17:SER:HA	43:BW:36:ARG:NH1	2.22	0.53
43:BW:30:VAL:HG12	43:BW:31:SER:N	2.24	0.53
22:BB:94:C:O2'	45:BY:41:HIS:CB	2.54	0.53
1:CA:1266:G:P	1:GA:1273:G:H5'	2.46	0.53
1:CA:1333:A:H2'	1:CA:1334:G:O4'	2.08	0.53
1:CA:335:C:C4'	1:CA:1434:A:O2'	2.56	0.53
1:CA:1420:C:H42	1:CA:1480:G:H1	1.54	0.53
1:CA:1531:A:H2'	1:CA:1532:U:O4'	2.09	0.53
1:CA:163:C:H2'	1:CA:164:U:H5'	1.89	0.53
1:CA:186:C:O4'	20:CT:78:ALA:CB	2.56	0.53
1:CA:673:G:H4'	18:CR:75:ILE:CA	2.39	0.53
1:CA:712:A:H2'	1:CA:713:G:O4'	2.08	0.53
1:CA:943:U:C2'	9:CI:124:GLN:HE22	2.22	0.53
4:CD:14:ARG:HG2	4:CD:66:ARG:NH1	2.23	0.53
7:CG:106:GLN:HA	7:CG:109:ASN:ND2	2.24	0.53
11:CK:59:TYR:O	11:CK:62:GLN:HB3	2.08	0.53
1:CA:760:G:O2'	17:CQ:97:SER:CB	2.56	0.53
19:CS:43:GLU:HG3	19:CS:44:MET:N	2.23	0.53
29:DI:1:MET:HG3	47:D1:65:ASP:O	2.08	0.53
23:DA:77:G:H21	43:DW:22:VAL:HG23	1.69	0.53
22:DB:1014:G:O2'	22:DB:1015:U:H5'	2.08	0.53
22:DB:1806:G:H5''	22:DB:1807:A:H2'	1.89	0.53
22:DB:1984:A:H2'	22:DB:1985:G:H8	1.73	0.53
22:DB:2433:G:H2'	22:DB:2434:G:O4'	2.08	0.53
22:DB:2526:U:O2	32:DL:23:ARG:NH1	2.41	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:DB:2612:G:H2'	22:DB:2613:A:O4'	2.09	0.53
22:DB:464:G:H1'	22:DB:469:G:H21	1.74	0.53
22:DB:638:A:O2'	22:DB:662:G:H5'	2.09	0.53
24:DD:213:ARG:O	24:DD:214:TRP:HB2	2.08	0.53
24:DD:11:PRO:HD2	24:DD:24:LEU:H	1.74	0.53
22:DB:1815:G:H5''	24:DD:54:ILE:HG13	1.89	0.53
22:DB:2551:A:C8	25:DE:144:ARG:HB3	2.39	0.53
28:DH:152:ARG:HD2	28:DH:152:ARG:O	2.09	0.53
22:DB:1078:A:C2	30:DJ:26:ALA:HB1	2.43	0.53
32:DL:90:ARG:HG3	32:DL:91:PHE:N	2.24	0.53
33:DM:110:ALA:H	33:DM:129:ALA:HB2	1.74	0.53
38:DR:18:LEU:HD13	38:DR:21:ALA:HB2	1.90	0.53
22:DB:1162:A:C2	38:DR:78:THR:HG21	2.41	0.53
22:DB:1325:U:P	41:DU:68:PHE:CE1	3.01	0.53
1:EA:1378:C:H3'	1:EA:1379:G:H4'	1.90	0.53
1:EA:1531:A:H2'	1:EA:1532:U:O4'	2.08	0.53
1:EA:1204:A:O2'	3:EC:188:LEU:HD21	2.08	0.53
3:EC:18:TRP:HE1	14:EN:52:GLN:N	2.06	0.53
1:EA:1207:G:P	3:EC:192:THR:O	2.66	0.53
3:EC:73:PRO:HG2	3:EC:75:VAL:HG23	1.89	0.53
8:EH:89:PRO:HA	8:EH:92:ARG:NH1	2.24	0.53
10:EJ:20:ALA:O	10:EJ:24:VAL:HG23	2.08	0.53
1:EA:1123:A:C1'	10:EJ:37:PRO:O	2.55	0.53
1:EA:708:C:C5'	11:EK:20:TYR:CE2	2.88	0.53
47:F1:10:VAL:H	47:F1:11:PRO:CD	2.21	0.53
23:FA:76:U:H2'	23:FA:77:G:H5'	1.89	0.53
22:FB:141:G:H2'	22:FB:142:U:C6	2.43	0.53
22:FB:1673:C:P	25:FE:136:ARG:HH11	2.29	0.53
22:FB:1806:G:H3'	22:FB:1807:A:C8	2.43	0.53
22:FB:1911:A:H2'	22:FB:1912:G:O4'	2.08	0.53
22:FB:1927:U:H1'	22:FB:1938:U:H5''	1.90	0.53
22:FB:690:A:H4'	22:FB:2054:A:C4'	2.39	0.53
22:FB:2399:C:C5'	51:F5:33:ASN:H	2.21	0.53
22:FB:2399:C:C6	51:F5:31:HIS:C	2.82	0.53
22:FB:2618:A:H1'	31:FK:125:ARG:NH2	2.24	0.53
22:FB:2662:C:C5	22:FB:2707:G:O2'	2.47	0.53
22:FB:2773:G:N3	22:FB:2780:A:C4	2.76	0.53
22:FB:471:A:OP1	50:F4:46:ASP:HB2	2.08	0.53
22:FB:476:G:H2'	22:FB:477:A:C8	2.43	0.53
22:FB:638:A:O2'	22:FB:662:G:H5'	2.09	0.53
22:FB:743:A:H2'	22:FB:744:C:C6	2.44	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:FB:753:U:H1'	22:FB:1964:A:H1'	1.90	0.53
22:FB:1885:C:H1'	24:FD:244:ARG:NE	2.24	0.53
22:FB:2659:C:C1'	25:FE:187:ALA:HA	2.39	0.53
26:FF:39:ARG:NE	26:FF:39:ARG:HA	2.24	0.53
22:FB:2636:A:OP2	28:FH:181:GLY:HA3	2.09	0.53
32:FL:110:VAL:CG1	32:FL:131:PRO:HD3	2.39	0.53
22:FB:2540:A:H2'	32:FL:23:ARG:CD	2.39	0.53
22:FB:2372:A:OP1	33:FM:60:LEU:HG	2.08	0.53
22:FB:1993:G:P	40:FT:63:SER:HB3	2.48	0.53
43:FW:43:PHE:HB2	43:FW:69:VAL:HG21	1.90	0.53
22:FB:2364:C:O4'	44:FX:69:PHE:CZ	2.61	0.53
1:GA:1308:U:H5'	13:GM:110:ARG:CZ	2.37	0.53
1:GA:1349:A:H2'	1:GA:1350:A:O4'	2.09	0.53
1:GA:195:A:P	20:GT:65:LYS:CD	2.87	0.53
1:GA:335:C:C4'	1:GA:1434:A:O2'	2.56	0.53
1:GA:712:A:H2'	1:GA:713:G:O4'	2.08	0.53
3:GC:119:ARG:HG2	3:GC:123:GLN:HE21	1.72	0.53
5:GE:80:ILE:HG22	8:GH:138:TRP:CH2	2.43	0.53
10:GJ:79:ARG:HH12	10:GJ:83:GLU:CB	2.07	0.53
13:GM:70:LEU:C	13:GM:72:ALA:H	2.10	0.53
13:GM:93:ARG:NH1	22:HB:900(A):A:P	2.82	0.53
1:GA:729:A:H61	15:GO:51:HIS:CE1	2.17	0.53
15:GO:36:ILE:HD11	15:GO:63:ARG:CZ	2.39	0.53
13:GM:87:TYR:CA	19:GS:73:GLU:C	2.72	0.53
20:GT:25:ARG:O	20:GT:29:LYS:HG3	2.08	0.53
47:H1:10:VAL:H	47:H1:11:PRO:CD	2.21	0.53
22:HB:1376:C:N4	47:H1:2:GLN:CA	2.50	0.53
22:HB:2040:A:C4'	48:H2:8:LYS:NZ	2.65	0.53
23:HA:86:A:H2'	23:HA:87:C:O4'	2.09	0.53
22:HB:1329:U:H5'	22:HB:1405:A:N3	2.23	0.53
22:HB:1471:G:H21	22:HB:2681:A:N6	2.01	0.53
22:HB:1566:G:N1	22:HB:1567:A:N6	2.56	0.53
22:HB:1687:C:H2'	22:HB:1688:U:O4'	2.08	0.53
22:HB:2063:A:H3'	22:HB:2064:U:C6	2.44	0.53
22:HB:2529:G:C2	22:HB:2538:C:N3	2.76	0.53
22:HB:25:U:H2'	22:HB:26:G:H5'	1.90	0.53
22:HB:2672:U:H2'	22:HB:2673:G:H8	1.74	0.53
22:HB:2859:U:O2	48:H2:34:PRO:HB2	2.09	0.53
22:HB:470:U:H2'	22:HB:471:A:O4'	2.08	0.53
22:HB:552:C:H2'	22:HB:553:C:C4'	2.17	0.53
22:HB:61:U:N3	22:HB:91:A:C6	2.76	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:HB:788:G:H22	22:HB:800:U:H2'	1.74	0.53
22:HB:861:G:N3	22:HB:944:A:H1'	2.23	0.53
24:HD:11:PRO:HD2	24:HD:24:LEU:H	1.73	0.53
22:HB:2751:C:HO2'	25:HE:166:THR:HG21	1.59	0.53
27:HG:170:LEU:HD12	27:HG:170:LEU:H	1.74	0.53
34:HN:63:GLY:H	43:HW:110:GLY:CA	2.21	0.53
38:HR:73:GLY:HA3	38:HR:114:ARG:HH11	1.73	0.53
40:HT:72:LEU:HD12	40:HT:126:ILE:HG23	1.90	0.53
42:HV:96:LYS:HD3	42:HV:98:ILE:CD1	2.39	0.53
1:IA:1177:G:H2'	1:IA:1178:G:C8	2.43	0.53
1:IA:1376:U:H5''	7:IG:95:ARG:NH2	2.23	0.53
1:IA:1418:A:H2	22:JB:1942:G:N3	2.06	0.53
1:IA:1518:A:H2'	1:IA:1519:A:C8	2.44	0.53
1:IA:34:C:H2'	1:IA:35:G:C8	2.43	0.53
1:IA:625:G:H5''	16:IP:35:LYS:HE3	1.90	0.53
1:IA:699:C:H2'	1:IA:700:G:H5'	1.89	0.53
1:IA:768:A:H1'	1:IA:1523:G:H22	1.73	0.53
1:IA:815:A:H2'	1:IA:1526:G:N1	2.22	0.53
9:II:49:PRO:O	9:II:53:VAL:HG22	2.07	0.53
11:IK:12:ARG:HB3	11:IK:14:VAL:HG23	1.90	0.53
1:IA:33:A:C2	12:IL:32:PHE:HZ	2.26	0.53
14:IN:23:ARG:HD3	14:IN:30:ALA:N	2.23	0.53
15:IO:36:ILE:HD11	15:IO:63:ARG:CZ	2.39	0.53
15:IO:89:GLY:HA3	22:JB:729:A:OP2	2.09	0.53
1:IA:637:G:H1'	17:IQ:2:PRO:HG3	1.89	0.53
19:IS:41:VAL:HG23	19:IS:43:GLU:HG2	1.90	0.53
1:IA:1226:C:O4'	19:IS:80:TYR:CD2	2.61	0.53
47:J1:10:VAL:H	47:J1:11:PRO:CD	2.21	0.53
22:JB:474:G:N2	50:J4:12:ARG:CZ	2.67	0.53
22:JB:2400:G:O6	51:J5:31:HIS:CE1	2.61	0.53
23:JA:108:G:H2'	23:JA:109:G:O4'	2.09	0.53
22:JB:109:A:O4'	45:JY:59:GLU:CA	2.57	0.53
22:JB:1687:C:H2'	22:JB:1688:U:O4'	2.08	0.53
22:JB:1984:A:H2'	22:JB:1985:G:H8	1.73	0.53
22:JB:2186:G:N7	24:JD:149:PRO:HG2	2.22	0.53
22:JB:2242:C:H2'	22:JB:2243:C:H6	1.73	0.53
22:JB:2238:G:OP1	22:JB:2406:C:C5	2.61	0.53
22:JB:10:A:N3	22:JB:2608:A:C2	2.76	0.53
22:JB:2613:A:O2'	25:JE:77:ILE:HD13	2.09	0.53
22:JB:2697:G:H21	22:JB:2822:U:H4'	1.73	0.53
22:JB:402:A:C2	22:JB:2392:G:O4'	2.61	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:JB:528:G:O2'	40:JT:97:VAL:N	2.41	0.53
22:JB:533:C:H2'	22:JB:534:U:C6	2.43	0.53
22:JB:743:A:H2'	22:JB:744:C:C6	2.44	0.53
24:JD:170:SER:C	24:JD:172:TYR:H	2.10	0.53
22:JB:2181:A:H1'	29:JI:27:ASN:O	2.09	0.53
31:JK:116:ARG:NH1	31:JK:123:PRO:HG3	2.24	0.53
32:JL:123:PHE:HB2	32:JL:126:ILE:HB	1.90	0.53
39:JS:23:GLU:HG3	39:JS:91:THR:HB	1.89	0.53
22:JB:2363:G:C3'	44:JX:39:ARG:HH22	1.73	0.53
1:AA:1108:G:OP1	3:AC:176:HIS:N	2.41	0.53
1:AA:163:C:H2'	1:AA:164:U:H5'	1.89	0.53
1:AA:681:C:H2'	1:AA:682:G:C8	2.44	0.53
1:AA:1256:A:H3'	3:AC:27:LYS:HD2	1.89	0.53
4:AD:149:ALA:HB3	4:AD:152:SER:OG	2.07	0.53
1:AA:1369:C:OP2	9:AI:111:ARG:HB2	2.09	0.53
11:AK:12:ARG:HB3	11:AK:14:VAL:HG23	1.89	0.53
1:AA:951:G:N2	13:AM:125:ARG:HD2	2.23	0.53
10:AJ:47:PHE:CD1	14:AN:56:VAL:HG12	2.42	0.53
1:AA:667:G:O4'	15:AO:49:ASP:HA	2.02	0.53
47:B1:5:LEU:HD13	47:B1:55:ARG:HB3	1.90	0.53
52:B6:14:CYS:CB	52:B6:26:ILE:H	2.21	0.53
23:BA:40:C:O2	23:BA:50:U:H4'	2.08	0.53
22:BB:1007:A:N1	22:BB:1171:A:C4	2.76	0.53
22:BB:1471:G:H21	22:BB:2681:A:H61	1.50	0.53
22:BB:1507:A:OP1	24:BD:99:ASP:CA	2.56	0.53
22:BB:1668:G:OP2	35:BO:11:ASN:OD1	2.27	0.53
22:BB:1804:U:O4'	24:BD:46:ARG:NE	2.40	0.53
22:BB:922:A:N3	22:BB:2243:C:O3'	2.42	0.53
22:BB:2462:C:C4'	34:BN:50:ALA:HB2	2.39	0.53
22:BB:2601:C:P	25:BE:159:HIS:CG	3.00	0.53
22:BB:491:A:H2'	22:BB:491:A:N3	2.24	0.53
22:BB:574:C:C6	39:BS:79:GLN:CD	2.77	0.53
22:BB:638:A:O2'	22:BB:662:G:H5'	2.09	0.53
22:BB:676:G:H2'	22:BB:950:G:O2'	2.08	0.53
25:BE:187:ALA:O	25:BE:188:ILE:HG22	2.08	0.53
25:BE:7:THR:O	37:BQ:3:THR:HG21	2.09	0.53
26:BF:39:ARG:HA	26:BF:39:ARG:NE	2.24	0.53
29:BI:5:LEU:HB3	29:BI:14:THR:O	2.08	0.53
32:BL:123:PHE:HB2	32:BL:126:ILE:HB	1.91	0.53
32:BL:90:ARG:HG3	32:BL:91:PHE:N	2.23	0.53
34:BN:73:LYS:HE2	34:BN:93:TYR:HB3	1.90	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:BB:2813:G:HO2'	35:BO:45:ARG:HB3	1.73	0.53
35:BO:76:VAL:HA	35:BO:79:VAL:HG12	1.89	0.53
38:BR:73:GLY:HA3	38:BR:114:ARG:HH11	1.73	0.53
38:BR:18:LEU:HD13	38:BR:21:ALA:HB2	1.91	0.53
42:BV:59:LYS:HB3	42:BV:65:PRO:HA	1.90	0.53
1:CA:1190:G:OP1	3:CC:175:LEU:HD21	2.09	0.53
1:CA:681:C:H2'	1:CA:682:G:C8	2.44	0.53
1:CA:737:A:H5''	6:CF:92:LYS:NZ	2.24	0.53
3:CC:132:ARG:NH2	4:CD:47:ARG:HH12	1.94	0.53
5:CE:78:HIS:NE2	5:CE:143:ARG:HB2	2.24	0.53
9:CI:70:LYS:HA	9:CI:73:GLN:HB2	1.90	0.53
13:CM:23:TYR:CD2	13:CM:67:GLU:HG2	2.43	0.53
13:CM:80:ARG:H	13:CM:80:ARG:HD3	1.74	0.53
1:CA:230:G:O3'	16:CP:26:ARG:NH2	2.42	0.53
49:D3:24:THR:HG21	51:D5:34:THR:O	2.07	0.53
22:DB:1135:C:C4'	52:D6:4:ARG:HG2	2.13	0.53
22:DB:1687:C:H2'	22:DB:1688:U:O4'	2.08	0.53
22:DB:2284:U:C2'	27:DG:40:LEU:HD22	2.39	0.53
22:DB:2411:A:C4	47:D1:27:THR:C	2.79	0.53
22:DB:1139:A:N6	22:DB:2469:G:H5'	2.23	0.53
22:DB:2661:G:O2'	25:DE:12:THR:OG1	2.22	0.53
22:DB:470:U:H2'	22:DB:471:A:O4'	2.08	0.53
22:DB:476:G:H2'	22:DB:477:A:C8	2.44	0.53
22:DB:742:G:H3'	24:DD:18:THR:HG21	1.91	0.53
22:DB:743:A:H2'	22:DB:744:C:C6	2.44	0.53
22:DB:793:G:H1'	22:DB:798:G:H22	1.74	0.53
22:DB:811:G:OP2	26:DF:56:ARG:CD	2.57	0.53
24:DD:246:PRO:HB3	24:DD:252:LYS:HG2	1.91	0.53
27:DG:167:ARG:HD2	27:DG:170:LEU:HD22	1.89	0.53
31:DK:116:ARG:NH1	31:DK:123:PRO:HG3	2.24	0.53
33:DM:56:LEU:HD23	33:DM:57:ILE:N	2.20	0.53
35:DO:45:ARG:C	35:DO:47:PHE:H	2.11	0.53
42:DV:96:LYS:HD3	42:DV:98:ILE:CD1	2.39	0.53
22:DB:865:A:OP1	46:DZ:42:GLY:HA3	2.08	0.53
1:EA:1064:G:H4'	1:EA:1065:U:H5'	1.90	0.53
1:EA:1166:G:O2'	1:EA:1167:A:H3'	2.09	0.53
1:EA:975:A:C2	1:EA:1357:A:H1'	2.43	0.53
1:EA:448:A:C2	16:EP:44:THR:HG22	2.44	0.53
1:EA:449:C:O2'	16:EP:42:ARG:O	2.24	0.53
1:EA:126:G:OP1	1:EA:605:U:C4'	2.56	0.53
1:EA:860:A:H2'	1:EA:861:G:C8	2.44	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:EA:1056:U:O5'	3:EC:162:GLN:C	2.46	0.53
5:EE:51:VAL:HB	5:EE:52:PRO:HD3	1.90	0.53
6:EF:36:ARG:HB2	6:EF:36:ARG:NH1	2.23	0.53
7:EG:137:LYS:HA	7:EG:140:ASP:OD2	2.09	0.53
22:FB:222:G:OP2	51:F5:7:HIS:CD2	2.60	0.53
23:FA:86:A:H2'	23:FA:87:C:O4'	2.09	0.53
22:FB:1687:C:H2'	22:FB:1688:U:O4'	2.08	0.53
22:FB:1806:G:H5''	22:FB:1807:A:H2'	1.89	0.53
22:FB:2023:C:H2'	22:FB:2024:U:C6	2.44	0.53
22:FB:2725:C:H42	22:FB:2740:C:N4	2.06	0.53
22:FB:409:G:H5'	47:F1:39:VAL:CB	2.35	0.53
22:FB:470:U:H2'	22:FB:471:A:O4'	2.08	0.53
22:FB:491:A:H2'	22:FB:491:A:N3	2.24	0.53
22:FB:644:A:C2'	22:FB:2383:C:OP1	2.55	0.53
22:FB:713:G:H2'	22:FB:714:G:C8	2.44	0.53
24:FD:78:LYS:HD3	24:FD:96:HIS:HB3	1.89	0.53
25:FE:105:THR:HG21	25:FE:164:ARG:HB3	1.90	0.53
22:FB:3093:C:C4'	29:FI:21:LYS:CB	2.69	0.53
34:FN:31:GLY:O	43:FW:117:VAL:HA	2.09	0.53
35:FO:28:LEU:HA	35:FO:32:GLY:HA2	1.89	0.53
22:FB:2848:A:H1'	35:FO:6:ALA:HB1	1.90	0.53
25:FE:19:ARG:CZ	37:FQ:65:SER:N	2.38	0.53
40:FT:53:ALA:O	40:FT:56:LEU:HB3	2.08	0.53
42:FV:32:GLN:HE22	42:FV:49:GLU:HB2	1.72	0.53
43:FW:121:GLN:HG3	43:FW:123:VAL:HG13	1.90	0.53
22:FB:2239:C:O3'	44:FX:14:ARG:HD2	2.06	0.53
22:FB:2309:G:O2'	44:FX:36:ILE:HD13	2.09	0.53
1:GA:2003:G:O2'	1:GA:1004:A:H4'	2.08	0.53
1:GA:1169:A:C2'	1:GA:1169:A:N3	2.71	0.53
20:AT:100:ILE:O	1:GA:180:U:C1'	2.57	0.53
4:GD:14:ARG:HG2	4:GD:66:ARG:NH1	2.22	0.53
1:GA:541:G:C2'	4:GD:43:HIS:HD2	2.20	0.53
6:GF:98:LEU:HD13	6:GF:101:ALA:C	2.28	0.53
7:GG:116:ALA:O	7:GG:120:ILE:HG13	2.09	0.53
7:GG:103:TRP:HE1	7:GG:137:LYS:CB	2.18	0.53
1:GA:391:G:OP1	16:GP:8:ARG:NH1	2.41	0.53
1:GA:255:G:H8	17:GQ:17:LYS:HD2	1.74	0.53
22:HB:1014:G:O2'	22:HB:1015:U:H5'	2.08	0.53
22:HB:1669:A:H62	22:HB:1670:G:N2	2.03	0.53
22:HB:1829:C:H4'	22:HB:1910:A:C2'	2.39	0.53
22:HB:2308:A:H2'	22:HB:2309:G:H8	1.74	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:HB:2336:G:H2'	22:HB:2338:C:OP2	2.09	0.53
22:HB:2436:U:H2'	22:HB:2437:G:O4'	2.09	0.53
22:HB:2494:C:H4'	31:HK:107:GLN:N	2.23	0.53
22:HB:3876:A:C2	22:HB:3877:A:H1'	2.44	0.53
22:HB:491:A:N3	22:HB:491:A:H2'	2.24	0.53
22:HB:533:C:H2'	22:HB:534:U:C6	2.43	0.53
22:HB:648:A:H2	33:HM:110:ALA:O	1.87	0.53
22:HB:917:U:O2'	43:HW:118:HIS:CG	2.54	0.53
22:HB:95:G:C4'	45:HY:45:GLN:HG3	2.38	0.53
6:GF:81:ILE:C	24:HD:137:PRO:HB3	2.26	0.53
31:HK:61:ARG:HA	31:HK:65:LYS:HB2	1.91	0.53
35:HO:112:LEU:HD13	35:HO:113:ILE:N	2.22	0.53
22:HB:1668:G:OP2	35:HO:11:ASN:OD1	2.26	0.53
35:HO:45:ARG:C	35:HO:47:PHE:H	2.11	0.53
36:HP:94:TYR:HD1	36:HP:95:LYS:HG2	1.74	0.53
43:HW:43:PHE:HB2	43:HW:69:VAL:HG21	1.91	0.53
43:HW:84:TYR:CD2	43:HW:128:ARG:CZ	2.91	0.53
1:IA:1120:G:H2'	1:IA:1121:U:C6	2.44	0.53
1:IA:1349:A:H2'	1:IA:1350:A:O4'	2.09	0.53
1:IA:228:A:H2	16:IP:1:MET:H1	1.55	0.53
1:IA:482:A:H2'	1:IA:483:C:O4'	2.08	0.53
1:IA:532:A:C6	1:IA:1206:G:O2'	2.62	0.53
3:IC:119:ARG:HG2	3:IC:123:GLN:HE21	1.73	0.53
3:IC:178:LEU:O	3:IC:179:ARG:HG3	2.08	0.53
6:IF:35:ALA:O	6:IF:36:ARG:HD3	2.09	0.53
7:IG:106:GLN:HA	7:IG:109:ASN:ND2	2.24	0.53
9:II:70:LYS:HA	9:II:73:GLN:HB2	1.91	0.53
1:IA:1125:U:N3	10:IJ:5:ARG:CZ	2.71	0.53
13:IM:86:CYS:SG	13:IM:88:ARG:HB2	2.48	0.53
6:IF:43:LEU:CD2	18:IR:35:ARG:HA	2.39	0.53
19:IS:51:VAL:HG12	19:IS:52:TYR:N	2.23	0.53
22:JB:1289:A:OP2	22:JB:1662:G:C2	2.61	0.53
22:JB:1996:A:H5''	40:JT:117:ILE:CA	2.03	0.53
22:JB:2023:C:H2'	22:JB:2024:U:C6	2.44	0.53
22:JB:2336:G:H2'	22:JB:2338:C:OP2	2.09	0.53
22:JB:1646:G:O2'	22:JB:2676:G:H4'	2.08	0.53
22:JB:541:C:H5''	22:JB:542:A:C4	2.43	0.53
22:JB:732:G:H2'	22:JB:733:G:H8	1.72	0.53
22:JB:761:G:O6	40:JT:111:ARG:NE	2.41	0.53
22:JB:861:G:N3	22:JB:944:A:H1'	2.23	0.53
22:JB:892:A:C6	22:JB:912:A:C2	2.86	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:JB:2284:U:C1'	27:JG:152:MET:H	2.20	0.53
28:JH:152:ARG:HD2	28:JH:152:ARG:O	2.09	0.53
31:JK:84:ASN:HA	31:JK:152:ALA:HA	1.90	0.53
32:JL:90:ARG:HG3	32:JL:91:PHE:N	2.23	0.53
22:JB:883:A:O3'	34:JN:9:LYS:O	2.26	0.53
40:JT:40:LEU:HD12	48:J2:20:ARG:NE	2.24	0.53
22:JB:63:A:C5	41:JU:62:ARG:NH2	2.71	0.53
41:JU:82:LEU:HD23	41:JU:83:ALA:O	2.08	0.53
42:JV:96:LYS:HD3	42:JV:98:ILE:CD1	2.39	0.53
22:JB:2344:G:OP1	44:JX:40:GLN:HB2	2.09	0.53
1:AA:1064:G:H4'	1:AA:1065:U:H5'	1.90	0.53
1:AA:1120:G:H2'	1:AA:1121:U:C6	2.44	0.53
1:AA:1256:A:H5'	1:AA:1258:G:C1'	2.39	0.53
1:AA:213:G:H1'	1:AA:214:U:C6	2.43	0.53
1:AA:332:G:O4'	20:AT:13:LEU:CG	2.57	0.53
1:AA:739:C:O2	15:AO:46:HIS:ND1	1.95	0.53
1:AA:439:A:C3'	4:AD:122:ARG:HH22	2.09	0.53
7:AG:46:ALA:CB	7:AG:120:ILE:HG21	2.39	0.53
1:AA:876:G:C2'	8:AH:4:ASP:HB2	2.39	0.53
10:AJ:55:LYS:HZ2	10:AJ:55:LYS:HB2	1.73	0.53
1:AA:1225:A:C4'	13:AM:103:THR:OG1	2.56	0.53
50:B4:25:LYS:NZ	50:B4:25:LYS:HA	2.23	0.53
51:B5:3:LYS:HZ2	51:B5:5:LYS:HG3	1.74	0.53
23:BA:108:G:H2'	23:BA:109:G:O4'	2.09	0.53
22:BB:1014:G:O2'	22:BB:1015:U:H5'	2.07	0.53
22:BB:1139:A:N1	22:BB:2470:U:O4	2.41	0.53
22:BB:1149:G:P	31:BK:132:PHE:CE1	3.01	0.53
22:BB:1000:G:P	22:BB:1168:G:C5'	2.97	0.53
22:BB:1377:G:H3'	47:B1:3:LYS:HZ1	1.71	0.53
22:BB:1378:A:O4'	47:B1:11:PRO:HB2	2.09	0.53
22:BB:1911:A:H2'	22:BB:1912:G:O4'	2.08	0.53
22:BB:2061:C:H2'	22:BB:2062:U:O4'	2.09	0.53
22:BB:226:C:O2'	51:B5:8:LYS:NZ	2.41	0.53
22:BB:2467:A:H2'	22:BB:2468:G:O4'	2.08	0.53
22:BB:3154:G:H2'	22:BB:3155:G:H8	1.74	0.53
22:BB:628:A:OP1	26:BF:100:ARG:HD2	2.08	0.53
22:BB:788:G:H22	22:BB:800:U:H2'	1.73	0.53
24:BD:72:LYS:HZ1	24:BD:75:VAL:HG11	1.72	0.53
25:BE:55:ALA:HA	25:BE:58:LYS:HZ1	1.72	0.53
28:BH:50:LEU:O	28:BH:51:LEU:HD12	2.07	0.53
22:BB:2464:G:H1'	34:BN:120:ARG:O	2.09	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BN:99:LYS:NZ	43:BW:73:LYS:HZ1	2.06	0.53
37:BQ:61:GLY:HA3	37:BQ:66:PHE:HD1	1.73	0.53
39:BS:66:GLY:HA2	39:BS:93:ILE:HG12	1.90	0.53
43:BW:49:THR:HG1	43:BW:132:GLN:NE2	0.91	0.53
1:CA:1166:G:O2'	1:CA:1167:A:H3'	2.09	0.53
1:CA:1345:U:C5'	9:CI:120:ARG:HH12	2.00	0.53
3:CC:87:LEU:HB2	3:CC:101:LEU:HD11	1.91	0.53
6:CF:98:LEU:HD13	6:CF:101:ALA:C	2.28	0.53
8:CH:89:PRO:HA	8:CH:92:ARG:NH1	2.24	0.53
19:CS:36:ARG:HH21	19:CS:53:ASN:HA	1.74	0.53
1:CA:986:A:O4'	19:CS:55:LYS:HG3	2.08	0.53
1:CA:332:G:OP1	20:CT:9:ASN:O	2.27	0.53
23:DA:108:G:H2'	23:DA:109:G:O4'	2.09	0.53
22:DB:1142:G:N2	31:DK:103:TYR:HB2	2.24	0.53
22:DB:690:A:H4'	22:DB:2054:A:C4'	2.39	0.53
22:DB:2467:A:H2'	22:DB:2468:G:O4'	2.08	0.53
22:DB:2470:U:H3	22:DB:2548:G:C3'	2.22	0.53
22:DB:2662:C:H42	25:DE:21:ILE:CD1	2.11	0.53
22:DB:2716:G:C6	22:DB:2748:C:N3	2.76	0.53
22:DB:2725:C:H42	22:DB:2740:C:N4	2.06	0.53
22:DB:2766:U:O2	25:DE:61:LYS:HB3	2.09	0.53
24:DD:263:ARG:HH21	24:DD:264:LYS:NZ	2.07	0.53
25:DE:187:ALA:O	25:DE:188:ILE:HG22	2.09	0.53
28:DH:174:GLY:O	28:DH:175:LYS:HB2	2.09	0.53
31:DK:62:ILE:HD11	31:DK:144:MET:SD	2.48	0.53
31:DK:59:ALA:HA	31:DK:62:ILE:HG22	1.89	0.53
43:DW:43:PHE:HB2	43:DW:69:VAL:HG21	1.91	0.53
44:DX:47:ALA:HB3	44:DX:49:GLN:NE2	2.20	0.53
44:DX:48:GLY:HA3	44:DX:56:ASP:H	1.74	0.53
1:EA:1120:G:H2'	1:EA:1121:U:C6	2.44	0.53
1:EA:1206:G:H5''	3:EC:192:THR:O	2.08	0.53
1:EA:226:G:H2'	1:EA:227:G:C8	2.44	0.53
1:EA:392:G:OP2	16:EP:12:LYS:HA	2.09	0.53
1:EA:482:A:H2'	1:EA:483:C:O4'	2.08	0.53
1:EA:523:A:C6	12:EL:90:VAL:HG21	2.40	0.53
1:EA:586:C:C5'	8:EH:91:ARG:CA	2.79	0.53
2:EB:119:GLU:HG3	2:EB:153:ARG:HH22	1.74	0.53
4:ED:52:SER:O	4:ED:56:VAL:HG23	2.09	0.53
6:EF:51:PRO:HA	6:EF:56:PRO:HA	1.90	0.53
1:EA:1185:G:H2'	9:EI:110:GLU:CD	2.29	0.53
1:EA:1148:U:O2'	9:EI:66:ARG:HD3	2.09	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:EL:47:LYS:HG3	12:EL:48:PRO:CD	2.37	0.53
19:ES:15:LEU:HD22	19:ES:33:THR:HG23	1.90	0.53
49:F3:39:LYS:HE3	49:F3:40:TYR:H	1.74	0.53
22:FB:661:C:OP1	51:F5:20:GLY:CA	2.55	0.53
23:FA:108:G:H2'	23:FA:109:G:O4'	2.09	0.53
22:FB:1006:C:O2	38:FR:57:PHE:HD2	1.91	0.53
22:FB:1493:A:N1	22:FB:1573:G:C1'	2.63	0.53
22:FB:1495:G:H5'	22:FB:1577:G:H5'	1.90	0.53
22:FB:1743:C:H5'	22:FB:2836:U:C3'	2.38	0.53
22:FB:2061:C:H2'	22:FB:2062:U:O4'	2.09	0.53
22:FB:2261:G:H5''	22:FB:2262:C:O5'	2.08	0.53
22:FB:2265:A:OP2	49:F3:30:ASN:N	2.42	0.53
22:FB:2464:G:H5'	34:FN:47:GLN:HE21	1.72	0.53
22:FB:2612:G:H2'	22:FB:2613:A:O4'	2.09	0.53
22:FB:2672:U:H2'	22:FB:2673:G:H8	1.74	0.53
22:FB:2701:A:H62	22:FB:2848:A:N6	2.07	0.53
22:FB:2750:G:C2	25:FE:204:ALA:CB	2.84	0.53
22:FB:3:U:C4	22:FB:2875:C:C2	2.96	0.53
22:FB:639:G:O3'	51:F5:17:THR:O	2.27	0.53
22:FB:793:G:H1'	22:FB:798:G:H22	1.74	0.53
24:FD:11:PRO:HD2	24:FD:24:LEU:H	1.74	0.53
24:FD:263:ARG:HH21	24:FD:264:LYS:NZ	2.07	0.53
25:FE:187:ALA:O	25:FE:188:ILE:HG22	2.09	0.53
25:FE:55:ALA:HA	25:FE:58:LYS:NZ	2.23	0.53
27:FG:148:LYS:CD	27:FG:149:THR:H	2.20	0.53
22:FB:2760:G:C2	31:FK:125:ARG:HG3	2.43	0.53
31:FK:74:MET:HG3	31:FK:75:ILE:HD13	1.90	0.53
34:FN:44:LYS:N	34:FN:47:GLN:HB2	2.24	0.53
37:FQ:67:THR:HA	37:FQ:82:PRO:HB3	1.90	0.53
22:FB:590:C:O5'	38:FR:32:TYR:HB3	2.08	0.53
39:FS:62:GLU:OE1	39:FS:98:ILE:HG22	2.09	0.53
22:FB:2344:G:C4'	44:FX:66:LYS:HD2	2.32	0.53
23:FA:85:G:H5'	46:FZ:47:VAL:HG13	1.90	0.53
1:GA:10:A:H62	1:GA:559:A:H62	1.56	0.53
1:GA:1111:A:H2'	1:GA:1112:C:C5	2.44	0.53
1:GA:1223:C:P	19:GS:78:ARG:NH2	2.82	0.53
1:GA:1378:C:OP1	7:GG:6:ARG:NE	2.31	0.53
1:GA:1393:U:C3'	1:GA:1394:A:C8	2.90	0.53
1:GA:185:A:H2'	1:GA:186:C:C6	2.43	0.53
1:GA:681:C:H2'	1:GA:682:G:C8	2.44	0.53
4:GD:52:SER:O	4:GD:56:VAL:HG23	2.09	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:GE:78:HIS:NE2	5:GE:143:ARG:HB2	2.24	0.53
1:GA:1148:U:O2'	9:GI:14:VAL:HG21	2.08	0.53
1:GA:958:A:C2	19:GS:77:THR:CG2	2.79	0.53
50:H4:11:LYS:NZ	50:H4:11:LYS:HA	2.23	0.53
50:H4:25:LYS:NZ	50:H4:25:LYS:HA	2.24	0.53
22:HB:1148:G:H5''	31:HK:133:GLY:CA	2.27	0.53
22:HB:1276:U:C1'	48:H2:10:LYS:HE2	2.29	0.53
22:HB:1984:A:H2'	22:HB:1985:G:H8	1.73	0.53
22:HB:2023:C:H2'	22:HB:2024:U:C6	2.44	0.53
22:HB:2028:C:H2'	22:HB:2029:G:H8	1.74	0.53
22:HB:2333:A:O2'	44:HX:32:LYS:HG2	2.09	0.53
22:HB:424:G:OP2	22:HB:2386:G:P	2.67	0.53
22:HB:2491:C:H2'	22:HB:2492:G:H4'	1.90	0.53
22:HB:2499:C:H41	22:HB:2521:A:H61	1.55	0.53
22:HB:10:A:N6	22:HB:2608:A:N9	2.57	0.53
22:HB:415:A:HO2'	22:HB:420:C:H5'	1.74	0.53
22:HB:541:C:H5''	22:HB:542:A:C4	2.44	0.53
22:HB:743:A:H2'	22:HB:744:C:C6	2.44	0.53
22:HB:597:U:C1'	26:HF:84:PHE:HZ	2.09	0.53
31:HK:42:VAL:HG13	31:HK:166:LEU:HG	1.91	0.53
36:HP:42:ILE:HG22	36:HP:43:ILE:H	1.73	0.53
37:HQ:59:GLY:HA2	37:HQ:105:TYR:HA	1.89	0.53
37:HQ:61:GLY:HA3	37:HQ:66:PHE:HD1	1.72	0.53
25:HE:54:LYS:CB	37:HQ:6:LYS:HZ1	1.99	0.53
43:HW:30:VAL:HG12	43:HW:31:SER:N	2.23	0.53
1:IA:10:A:H62	1:IA:559:A:H62	1.57	0.53
1:IA:1169:A:N3	1:IA:1169:A:C2'	2.71	0.53
1:IA:373:A:H3'	1:IA:374:A:H8	1.73	0.53
1:IA:681:C:H2'	1:IA:682:G:C8	2.44	0.53
1:IA:1206:G:O4'	3:IC:193:TYR:C	2.47	0.53
4:ID:100:ARG:HH22	4:ID:137:SER:CB	2.21	0.53
6:IF:98:LEU:HD13	6:IF:101:ALA:C	2.28	0.53
1:IA:589:C:H4'	8:IH:30:ARG:CB	2.38	0.53
9:II:116:LYS:HZ3	9:II:121:ARG:N	2.07	0.53
9:II:40:LEU:HB2	9:II:43:ALA:HB3	1.89	0.53
9:II:48:GLU:N	9:II:51:ARG:HH11	2.06	0.53
10:IJ:20:ALA:O	10:IJ:24:VAL:HG23	2.09	0.53
1:IA:675:A:H2	11:IK:116:HIS:N	2.03	0.53
14:IN:31:ARG:N	14:IN:31:ARG:HD2	2.23	0.53
1:IA:958:A:C5	19:IS:56:GLN:HG2	2.43	0.53
47:J1:5:LEU:HD13	47:J1:55:ARG:HB3	1.90	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:JA:117:G:N3	36:JP:41:GLN:HG2	2.23	0.53
22:JB:1014:G:O2'	22:JB:1015:U:H5'	2.08	0.53
22:JB:1173:G:OP1	39:JS:23:GLU:HB2	2.09	0.53
22:JB:141:G:H2'	22:JB:142:U:C6	2.43	0.53
22:JB:1829:C:H5'	22:JB:1911:A:O4'	2.02	0.53
22:JB:1861:G:H1'	53:J7:199:ASN:CG	2.22	0.53
22:JB:1911:A:HO2'	22:JB:1912:G:H5'	1.74	0.53
22:JB:2063:A:H3'	22:JB:2064:U:C6	2.44	0.53
22:JB:2259:G:H1'	22:JB:2367:A:N1	2.23	0.53
22:JB:2481:G:H5''	22:JB:2482:A:H5''	1.90	0.53
22:JB:2490:U:O4'	25:JE:124:GLY:C	2.46	0.53
22:JB:2491:C:H2'	22:JB:2492:G:H4'	1.90	0.53
22:JB:2505:G:O2'	52:J6:34:GLN:CG	2.56	0.53
22:JB:2457:A:H1'	22:JB:2507:U:O2'	2.09	0.53
22:JB:3876:A:C2	22:JB:3877:A:H1'	2.44	0.53
22:JB:491:A:H2'	22:JB:491:A:N3	2.24	0.53
22:JB:574:C:H1'	22:JB:586:G:N2	2.23	0.53
22:JB:644:A:C5	22:JB:645:G:H1'	2.43	0.53
22:JB:66:U:C5	22:JB:87:G:N2	2.77	0.53
24:JD:263:ARG:HH21	24:JD:264:LYS:NZ	2.07	0.53
22:JB:1581:C:H5	24:JD:28:ARG:HH12	1.54	0.53
22:JB:2558:C:C3'	25:JE:132:LYS:CD	2.78	0.53
22:JB:455:A:C5	26:JF:39:ARG:HD3	2.43	0.53
22:JB:2042:A:O2'	26:JF:62:LYS:CB	2.56	0.53
27:JG:170:LEU:HD12	27:JG:170:LEU:H	1.74	0.53
34:JN:60:ARG:HD3	34:JN:61:ARG:H	1.73	0.53
23:JA:49:C:O2'	36:JP:95:LYS:CD	2.56	0.53
1:IA:1462:G:O3'	37:JQ:121:ARG:NH2	2.40	0.53
44:JX:47:ALA:H	44:JX:75:GLY:CA	2.21	0.53
22:JB:108:G:N2	45:JY:56:VAL:HA	2.23	0.53
1:AA:1166:G:O2'	1:AA:1167:A:H3'	2.09	0.53
1:AA:1221:G:O2'	19:AS:77:THR:HG23	2.03	0.53
1:AA:335:C:H1'	1:AA:1434:A:H2	1.73	0.53
1:AA:1500:A:O3'	1:AA:1508:G:H5''	2.09	0.53
1:AA:226:G:H2'	1:AA:227:G:C8	2.44	0.53
1:AA:330:C:H2'	1:AA:331:G:C8	2.42	0.53
1:AA:664:G:O2'	1:AA:665:A:H3'	2.08	0.53
4:AD:52:SER:O	4:AD:56:VAL:HG23	2.09	0.53
5:AE:145:LYS:O	8:AH:107:LEU:HD11	2.07	0.53
1:AA:974:A:C2	14:AN:31:ARG:HB3	2.05	0.53
1:AA:1202:G:N2	14:AN:42:ILE:CG2	2.71	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:AO:89:GLY:H	22:BB:729:A:P	2.32	0.53
19:AS:41:VAL:HG23	19:AS:43:GLU:HG2	1.90	0.53
22:BB:1081:A:N1	30:BJ:10:LEU:HD13	2.23	0.53
22:BB:1439:G:H2'	22:BB:1440:G:H8	1.73	0.53
22:BB:1669:A:OP1	35:BO:9:LYS:NZ	2.39	0.53
22:BB:1687:C:H2'	22:BB:1688:U:O4'	2.08	0.53
22:BB:1750:A:H4'	22:BB:2695:C:H1'	1.90	0.53
22:BB:18:U:C1'	22:BB:563:U:H5'	2.39	0.53
22:BB:2023:C:H2'	22:BB:2024:U:C6	2.44	0.53
22:BB:2056:C:O2'	24:BD:228:PRO:CB	2.57	0.53
22:BB:2612:G:H2'	22:BB:2613:A:O4'	2.09	0.53
22:BB:2672:U:H2'	22:BB:2673:G:H8	1.74	0.53
22:BB:80:A:H1'	22:BB:305:A:C4	2.44	0.53
22:BB:470:U:H2'	22:BB:471:A:O4'	2.08	0.53
22:BB:533:C:H4'	22:BB:550:C:O2	2.09	0.53
22:BB:793:G:H1'	22:BB:798:G:H22	1.74	0.53
24:BD:24:LEU:HA	24:BD:201:HIS:HE1	1.74	0.53
22:BB:1673:C:O5'	25:BE:136:ARG:HG2	2.08	0.53
22:BB:2599:U:O4'	25:BE:156:MET:HB3	2.08	0.53
33:BM:110:ALA:H	33:BM:129:ALA:HB2	1.74	0.53
22:BB:820:U:N3	33:BM:40:ARG:CZ	2.72	0.53
35:BO:100:VAL:HG12	35:BO:109:THR:HG22	1.91	0.53
22:BB:2669:C:OP2	35:BO:10:LEU:HD22	2.08	0.53
39:BS:66:GLY:N	39:BS:93:ILE:HG23	2.24	0.53
42:BV:36:VAL:HG12	42:BV:37:LEU:H	1.74	0.53
42:BV:48:VAL:HG13	42:BV:50:GLY:N	2.22	0.53
1:CA:1059:C:H5'	14:CN:45:ARG:HH22	1.74	0.53
1:CA:1256:A:H5'	1:CA:1258:G:C1'	2.39	0.53
1:CA:1261:A:H5'	1:CA:1283:G:O3'	2.09	0.53
1:CA:226:G:H2'	1:CA:227:G:C8	2.44	0.53
1:CA:330:C:H2'	1:CA:331:G:C8	2.42	0.53
1:CA:592:G:H2'	1:CA:593:G:C8	2.44	0.53
1:CA:639:G:H2'	1:CA:640:A:C8	2.38	0.53
1:CA:697:U:H3	1:CA:798:G:H1'	1.73	0.53
1:CA:976:G:H22	1:CA:1362:C:H3'	1.74	0.53
4:CD:96:LEU:O	4:CD:100:ARG:HG3	2.08	0.53
1:CA:407:G:C2'	4:CD:116:GLN:NE2	2.68	0.53
1:CA:17:U:C3'	5:CE:14:ARG:NH2	2.70	0.53
6:CF:38:GLU:OE1	6:CF:66:GLU:HB2	2.08	0.53
7:CG:46:ALA:CB	7:CG:120:ILE:HG21	2.39	0.53
9:CI:121:ARG:HH11	9:CI:121:ARG:HG2	1.73	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:CL:83:VAL:HG22	12:CL:84:LEU:N	2.23	0.53
50:D4:25:LYS:NZ	50:D4:25:LYS:HA	2.23	0.53
23:DA:40:C:O2	23:DA:50:U:H4'	2.07	0.53
23:DA:77:G:N9	43:DW:29:ASN:CG	2.62	0.53
22:DB:1007:A:N1	22:DB:1171:A:C4	2.77	0.53
22:DB:1329:U:H5'	22:DB:1405:A:N3	2.23	0.53
22:DB:1439:G:H2'	22:DB:1440:G:H8	1.73	0.53
22:DB:1911:A:H2'	22:DB:1912:G:O4'	2.08	0.53
22:DB:1916:G:H2'	22:DB:1917:C:C6	2.43	0.53
22:DB:1927:U:H1'	22:DB:1938:U:H5''	1.91	0.53
22:DB:2492:G:C2'	22:DB:2493:U:N1	2.72	0.53
22:DB:2672:U:H2'	22:DB:2673:G:H8	1.74	0.53
22:DB:491:A:H2'	22:DB:491:A:N3	2.24	0.53
22:DB:673:G:H2'	22:DB:674:U:C6	2.44	0.53
22:DB:713:G:H2'	22:DB:714:G:C8	2.44	0.53
24:DD:170:SER:C	24:DD:172:TYR:H	2.10	0.53
26:DF:39:ARG:HA	26:DF:39:ARG:NE	2.24	0.53
22:DB:2728:A:C1'	28:DH:67:LEU:HB2	2.39	0.53
31:DK:135:LEU:O	31:DK:137:LYS:N	2.42	0.53
31:DK:90:LEU:HD22	31:DK:95:LEU:HD12	1.91	0.53
33:DM:35:LYS:HD3	33:DM:35:LYS:N	2.24	0.53
22:DB:2373:C:H4'	33:DM:59:ARG:HH12	1.73	0.53
22:DB:966:A:H4'	34:DN:87:GLY:HA3	1.89	0.53
37:DQ:61:GLY:HA3	37:DQ:66:PHE:HD1	1.73	0.53
22:DB:1162:A:C1'	38:DR:78:THR:HG23	2.39	0.53
42:DV:23:ILE:HB	42:DV:81:VAL:HG11	1.90	0.53
44:DX:29:GLU:H	44:DX:62:LEU:HB3	1.74	0.53
1:EA:1344:C:H4'	9:EI:120:ARG:O	2.08	0.53
1:EA:1518:A:H2'	1:EA:1519:A:C8	2.43	0.53
1:EA:331:G:H5''	1:EA:332:G:H8	1.73	0.53
1:EA:681:C:H2'	1:EA:682:G:C8	2.44	0.53
1:EA:976:G:H22	1:EA:1362:C:H3'	1.74	0.53
3:EC:135:LYS:NZ	5:EE:52:PRO:CB	2.71	0.53
1:EA:1204:A:O2'	3:EC:195:VAL:HG11	2.08	0.53
3:EC:3:ASN:ND2	3:EC:3:ASN:H	2.07	0.53
9:EI:49:PRO:O	9:EI:53:VAL:HG22	2.07	0.53
1:EA:520:A:C2'	12:EL:73:GLU:HA	2.38	0.53
1:EA:1228:C:H3'	13:EM:105:THR:HG22	1.90	0.53
14:EN:23:ARG:HD3	14:EN:30:ALA:N	2.23	0.53
14:EN:25:VAL:HG13	14:EN:26:ARG:N	2.22	0.53
1:EA:376:G:C5'	16:EP:6:LEU:HB2	2.38	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:ES:36:ARG:HH21	19:ES:53:ASN:HA	1.73	0.53
22:FB:166:G:H2'	22:FB:182:G:N2	2.24	0.53
22:FB:1829:C:C5'	22:FB:1911:A:O5'	2.57	0.53
22:FB:1916:G:H2'	22:FB:1917:C:C6	2.42	0.53
22:FB:224:G:O6	51:F5:8:LYS:HG2	2.08	0.53
22:FB:574:C:H1'	22:FB:586:G:N2	2.23	0.53
22:FB:598:U:H5'	26:FF:89:ARG:HH21	1.74	0.53
22:FB:788:G:H22	22:FB:800:U:H2'	1.73	0.53
22:FB:891:A:C6	22:FB:909:C:C2	2.82	0.53
22:FB:625:A:N7	26:FF:172:VAL:HG21	2.23	0.53
27:FG:17:MET:HA	27:FG:21:GLY:HA2	1.91	0.53
28:FH:152:ARG:HD2	28:FH:152:ARG:O	2.09	0.53
22:FB:1111:C:C1'	28:FH:168:GLN:HE21	2.14	0.53
28:FH:55:PRO:HD2	28:FH:61:HIS:NE2	2.24	0.53
29:FI:7:GLU:OE2	29:FI:34:LEU:HA	2.09	0.53
31:FK:42:VAL:HG13	31:FK:166:LEU:HG	1.91	0.53
31:FK:90:LEU:HD22	31:FK:95:LEU:HD12	1.91	0.53
32:FL:12:ASP:CG	32:FL:98:ILE:HG22	2.28	0.53
22:FB:2463:G:C2'	34:FN:47:GLN:NE2	2.71	0.53
38:FR:3:ARG:HG3	38:FR:4:ALA:N	2.24	0.53
41:FU:82:LEU:HD23	41:FU:83:ALA:O	2.08	0.53
43:FW:47:SER:C	43:FW:49:THR:H	2.12	0.53
22:FB:2240:C:H3'	44:FX:15:ASP:CA	2.38	0.53
22:FB:980:G:C5'	46:FZ:13:PRO:CA	2.43	0.53
22:FB:999:A:P	46:FZ:8:SER:CA	2.94	0.53
1:GA:1120:G:H2'	1:GA:1121:U:C6	2.44	0.53
1:GA:1256:A:H5'	1:GA:1258:G:C1'	2.39	0.53
1:GA:1395:C:H5'	1:GA:1401:G:N2	2.21	0.53
1:GA:739:C:O2	15:GO:46:HIS:NE2	2.40	0.53
2:GB:119:GLU:HG3	2:GB:153:ARG:HH22	1.74	0.53
1:GA:17:U:O5'	5:GE:16:THR:HB	2.07	0.53
5:GE:44:GLY:HA3	5:GE:58:ALA:HB1	1.89	0.53
8:GH:96:GLY:N	8:GH:99:GLU:HB2	2.24	0.53
13:GM:86:CYS:SG	13:GM:88:ARG:HB2	2.48	0.53
1:GA:580:U:C2'	15:GO:57:LEU:HD21	2.38	0.53
16:GP:6:LEU:HB3	16:GP:17:TYR:CD2	2.43	0.53
17:GQ:12:SER:HB3	17:GQ:20:THR:HB	1.90	0.53
19:GS:43:GLU:HG3	19:GS:44:MET:N	2.24	0.53
22:HB:2329:C:H5''	51:H5:42:ARG:HB3	1.90	0.53
22:HB:1199:U:H3'	22:HB:1200:G:H5''	1.91	0.53
22:HB:141:G:H2'	22:HB:142:U:C6	2.43	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:HB:215:G:C1'	22:HB:618:A:C4'	2.87	0.53
22:HB:2198:U:H2'	22:HB:2199:C:H4'	1.90	0.53
22:HB:2481:G:H5''	22:HB:2482:A:H5''	1.90	0.53
22:HB:2717:G:N2	31:HK:118:ALA:CA	2.69	0.53
22:HB:3167:U:H5	53:H7:98:ARG:HD2	1.63	0.53
22:HB:644:A:C5	22:HB:645:G:H1'	2.43	0.53
22:HB:677:G:C2	22:HB:678:G:C4	2.97	0.53
30:HJ:125:ASN:HD22	30:HJ:126:THR:N	2.06	0.53
22:HB:9:U:H5'	31:HK:35:LYS:O	2.08	0.53
31:HK:62:ILE:HD11	31:HK:144:MET:SD	2.48	0.53
32:HL:12:ASP:CG	32:HL:98:ILE:HG22	2.28	0.53
33:HM:38:LYS:NZ	33:HM:43:ALA:HB1	2.24	0.53
34:HN:44:LYS:N	34:HN:47:GLN:HB2	2.24	0.53
22:HB:511:A:N1	40:HT:12:LYS:HB2	2.22	0.53
1:IA:1057:G:H4'	3:IC:196:LEU:HA	1.89	0.53
1:IA:1256:A:H5'	1:IA:1258:G:C1'	2.39	0.53
1:IA:1261:A:H5'	1:IA:1283:G:O3'	2.09	0.53
1:IA:278:G:H8	17:IQ:95:TYR:HD2	1.45	0.53
1:IA:735:C:H1'	6:IF:89:MET:CE	2.39	0.53
1:IA:860:A:H2'	1:IA:861:G:C8	2.44	0.53
8:IH:14:ARG:HH21	8:IH:83:ILE:C	2.12	0.53
12:IL:11:VAL:CB	17:IQ:36:ILE:CD1	2.81	0.53
18:IR:34:TYR:O	18:IR:37:VAL:HG23	2.08	0.53
1:IA:1227:A:OP1	19:IS:80:TYR:HE2	1.92	0.53
40:JT:36:ARG:NH2	48:J2:16:ARG:CG	2.70	0.53
22:JB:1032:A:H62	22:JB:1151:U:H3	1.57	0.53
22:JB:1364:C:O2'	22:JB:1587:A:O2'	2.22	0.53
22:JB:204:A:N6	22:JB:2386:G:C1'	2.71	0.53
22:JB:2198:U:H2'	22:JB:2199:C:H4'	1.90	0.53
22:JB:2598:C:H4'	25:JE:150:VAL:HB	1.89	0.53
22:JB:2852:G:C5'	37:JQ:8:ASN:HB3	2.36	0.53
22:JB:642:A:C2	22:JB:2393:G:C2	2.95	0.53
22:JB:677:G:C3'	22:JB:678:G:H8	2.21	0.53
24:JD:78:LYS:HD3	24:JD:96:HIS:HB3	1.89	0.53
28:JH:101:LYS:O	28:JH:117:PRO:HD2	2.08	0.53
31:JK:135:LEU:O	31:JK:137:LYS:N	2.42	0.53
33:JM:67:ASN:HD21	51:J5:7:HIS:CB	1.99	0.53
36:JP:42:ILE:HG22	36:JP:43:ILE:H	1.73	0.53
38:JR:73:GLY:HA3	38:JR:114:ARG:HH11	1.73	0.53
22:JB:73:A:P	45:JY:51:ALA:HB1	2.47	0.53
1:AA:1518:A:H2'	1:AA:1519:A:C8	2.43	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:185:A:H2'	1:AA:186:C:C6	2.43	0.53
1:AA:296:U:C2'	1:AA:297:G:H5'	2.39	0.53
1:AA:699:C:H2'	1:AA:700:G:H5'	1.89	0.53
1:AA:712:A:H2'	1:AA:713:G:O4'	2.08	0.53
1:AA:975:A:C5	14:AN:34:TYR:OH	2.55	0.53
2:AB:102:LEU:HB2	2:AB:176:GLU:OE1	2.09	0.53
3:AC:119:ARG:HG2	3:AC:123:GLN:HE21	1.73	0.53
3:AC:35:GLU:O	3:AC:39:ILE:HG13	2.09	0.53
5:AE:44:GLY:HA3	5:AE:58:ALA:HB1	1.89	0.53
1:AA:1377:A:OP1	7:AG:95:ARG:CD	2.55	0.53
20:AT:25:ARG:O	20:AT:29:LYS:HG3	2.08	0.53
47:B1:48:ARG:HD3	47:B1:49:PHE:O	2.09	0.53
22:BB:1237:G:HO2'	39:BS:85:GLY:C	1.93	0.53
22:BB:166:G:H2'	22:BB:182:G:N2	2.24	0.53
22:BB:1927:U:H1'	22:BB:1938:U:H5''	1.90	0.53
22:BB:2336:G:H2'	22:BB:2338:C:OP2	2.09	0.53
22:BB:2398:U:H6	51:B5:31:HIS:O	1.92	0.53
22:BB:525:A:C5'	38:BR:31:GLN:O	2.57	0.53
22:BB:574:C:H1'	22:BB:586:G:N2	2.23	0.53
22:BB:2558:C:C5'	25:BE:132:LYS:CG	2.86	0.53
26:BF:151:VAL:HG21	26:BF:188:ILE:HG23	1.89	0.53
27:BG:170:LEU:H	27:BG:170:LEU:HD12	1.74	0.53
31:BK:30:LYS:HB3	31:BK:30:LYS:HZ3	1.73	0.53
36:BP:9:ARG:HH12	36:BP:12:ARG:N	2.02	0.53
38:BR:53:LYS:HZ3	38:BR:56:ASP:HB3	1.73	0.53
40:BT:53:ALA:O	40:BT:56:LEU:HB3	2.08	0.53
42:BV:96:LYS:HD3	42:BV:98:ILE:CD1	2.39	0.53
1:CA:1314:C:OP2	19:CS:6:LYS:NZ	2.19	0.53
1:CA:213:G:H1'	1:CA:214:U:C6	2.43	0.53
1:CA:559:A:H61	5:CE:126:ARG:NE	2.06	0.53
1:CA:699:C:H2'	1:CA:700:G:H5'	1.88	0.53
3:CC:35:GLU:O	3:CC:39:ILE:HG13	2.09	0.53
1:CA:1077:G:O6	5:CE:45:PHE:CD2	2.62	0.53
9:CI:27:THR:HA	9:CI:32:ASP:CA	2.35	0.53
11:CK:12:ARG:HB3	11:CK:14:VAL:HG23	1.90	0.53
13:CM:88:ARG:HB2	13:CM:92:HIS:ND1	2.24	0.53
13:CM:81:LEU:HD13	13:CM:92:HIS:CE1	2.44	0.53
1:CA:667:G:O2'	15:CO:48:LYS:O	2.24	0.53
8:CH:91:ARG:O	17:CQ:34:LYS:CB	2.57	0.53
18:CR:34:TYR:HA	18:CR:37:VAL:HG23	1.90	0.53
22:DB:2040:A:C4'	48:D2:6:VAL:HG13	2.37	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:DB:465:C:H42	50:D4:39:ARG:HE	1.55	0.53
22:DB:1030:U:OP1	22:DB:1045:G:N2	2.41	0.53
22:DB:1397:A:N3	22:DB:1418:C:C4	2.77	0.53
22:DB:1398:G:N2	22:DB:1416:A:C8	2.76	0.53
22:DB:166:G:H2'	22:DB:182:G:N2	2.24	0.53
22:DB:1905:G:H2'	22:DB:1906:U:O4'	2.08	0.53
22:DB:2023:C:H2'	22:DB:2024:U:C6	2.44	0.53
22:DB:2061:C:H2'	22:DB:2062:U:O4'	2.09	0.53
22:DB:2283:G:HO2'	27:DG:153:ASP:CB	1.91	0.53
22:DB:2336:G:H2'	22:DB:2338:C:OP2	2.09	0.53
22:DB:706:A:OP2	24:DD:58:HIS:ND1	2.40	0.53
22:DB:788:G:H22	22:DB:800:U:H2'	1.73	0.53
22:DB:677:G:H4'	22:DB:951:G:C4'	2.38	0.53
25:DE:151:TYR:CA	31:DK:106:TYR:HE1	1.75	0.53
26:DF:151:VAL:HG21	26:DF:188:ILE:HG23	1.89	0.53
27:DG:98:VAL:O	27:DG:101:GLU:HB3	2.08	0.53
34:DN:44:LYS:N	34:DN:47:GLN:HB2	2.24	0.53
22:DB:2463:G:O2'	34:DN:47:GLN:NE2	2.42	0.53
38:DR:18:LEU:HD11	38:DR:29:SER:O	2.09	0.53
22:DB:456:C:C4'	38:DR:2:PRO:C	2.68	0.53
22:DB:1006:C:C2	38:DR:57:PHE:CD2	2.96	0.53
40:DT:66:GLU:O	40:DT:67:PRO:C	2.44	0.53
43:DW:11:LYS:HE3	43:DW:11:LYS:HA	1.91	0.53
41:DU:4:TYR:CE2	45:DY:27:GLU:OE2	2.53	0.53
1:EA:1190:G:OP1	3:EC:175:LEU:HD21	2.09	0.53
1:EA:1220:G:N3	19:ES:54:GLY:HA2	2.23	0.53
1:EA:1264:C:HO2'	1:EA:1265:G:H5'	1.74	0.53
1:EA:1265:G:H3'	1:EA:1266:G:H8	1.73	0.53
1:EA:1318:A:O3'	19:ES:10:PHE:CB	2.34	0.53
1:EA:928:G:H5''	1:EA:1533:C:H41	1.65	0.53
1:EA:699:C:H2'	1:EA:700:G:H5'	1.89	0.53
4:ED:205:GLU:HB2	5:EE:101:ILE:HG23	1.85	0.53
5:EE:105:VAL:HB	5:EE:106:PRO:HD3	1.90	0.53
8:EH:96:GLY:N	8:EH:99:GLU:HB2	2.24	0.53
1:EA:689:C:H5	11:EK:51:LYS:NZ	2.04	0.53
12:EL:16:GLU:OE2	12:EL:19:ARG:NH2	2.42	0.53
1:EA:995:C:C2	14:EN:4:LYS:HB2	2.43	0.53
22:FB:641:G:N7	51:F5:15:LYS:HE2	1.37	0.53
51:F5:34:THR:HA	51:F5:36:LYS:HZ3	1.73	0.53
23:FA:103:A:H2'	23:FA:104:A:C8	2.43	0.53
22:FB:1014:G:O2'	22:FB:1015:U:H5'	2.08	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:FB:113:C:C1'	22:FB:125:A:C4'	2.87	0.53
22:FB:1481:U:C4'	22:FB:1561:A:N1	2.72	0.53
22:FB:1985:G:H1'	22:FB:2692:A:N6	2.24	0.53
22:FB:923:A:N3	22:FB:2243:C:H1'	2.24	0.53
22:FB:2265:A:H3'	49:F3:31:THR:HG23	1.89	0.53
22:FB:2436:U:H2'	22:FB:2437:G:O4'	2.09	0.53
22:FB:2467:A:H2'	22:FB:2468:G:O4'	2.09	0.53
22:FB:2481:G:H5''	22:FB:2482:A:H5''	1.91	0.53
22:FB:2733:A:N3	52:F6:15:LYS:CE	2.71	0.53
22:FB:2738:A:H1'	28:FH:64:LEU:CD1	2.38	0.53
22:FB:2753:C:O2'	25:FE:163:GLU:CG	2.56	0.53
22:FB:332:C:OP1	26:FF:129:LYS:CE	2.56	0.53
22:FB:3875:A:C8	53:F7:43:LYS:CD	2.90	0.53
22:FB:673:G:H2'	22:FB:674:U:C6	2.44	0.53
22:FB:58:C:C4'	22:FB:72:A:N6	2.72	0.53
22:FB:882:C:H2'	22:FB:883:A:O4'	2.09	0.53
22:FB:742:G:N2	24:FD:18:THR:CG2	2.72	0.53
27:FG:170:LEU:HD12	27:FG:170:LEU:H	1.74	0.53
32:FL:83:ARG:HD2	32:FL:87:SER:HB3	1.89	0.53
34:FN:106:GLU:HG2	43:FW:115:ILE:HG21	1.89	0.53
35:FO:45:ARG:C	35:FO:47:PHE:H	2.11	0.53
22:FB:2684:A:C6	35:FO:60:LEU:HD21	2.44	0.53
37:FQ:100:ARG:NH1	37:FQ:120:ASP:HB3	2.19	0.53
38:FR:25:TRP:N	38:FR:28:ARG:HE	2.06	0.53
22:FB:506:G:OP1	40:FT:23:PRO:N	2.41	0.53
42:FV:23:ILE:HB	42:FV:81:VAL:HG11	1.91	0.53
34:FN:131:LYS:HZ2	43:FW:69:VAL:CG1	2.21	0.53
44:FX:29:GLU:H	44:FX:62:LEU:HB3	1.74	0.53
1:GA:1166:G:O2'	1:GA:1167:A:H3'	2.09	0.53
20:AT:100:ILE:CG2	1:GA:179:A:N3	2.71	0.53
8:GH:89:PRO:HA	8:GH:92:ARG:NH1	2.24	0.53
18:GR:34:TYR:O	18:GR:37:VAL:HG23	2.08	0.53
49:H3:38:LYS:HZ3	49:H3:38:LYS:HA	1.74	0.53
49:H3:39:LYS:HE3	49:H3:40:TYR:H	1.74	0.53
22:HB:55:A:O2'	22:HB:125:A:C5	2.61	0.53
22:HB:1408:A:H5'	22:HB:1619:A:OP2	2.08	0.53
22:HB:166:G:H2'	22:HB:182:G:N2	2.24	0.53
22:HB:1905:G:H2'	22:HB:1906:U:O4'	2.08	0.53
22:HB:1998:A:C5	48:H2:7:PRO:CG	2.91	0.53
22:HB:2064:U:P	47:H1:33:VAL:CB	2.97	0.53
22:HB:2181:A:C2	29:HI:24:TYR:CE2	2.97	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:HB:2407:G:H5''	22:HB:2408:G:OP1	2.09	0.53
22:HB:1646:G:O2'	22:HB:2676:G:H4'	2.09	0.53
22:HB:37:C:O2'	26:HF:45:THR:HG21	2.09	0.53
22:HB:463:C:OP2	26:HF:46:ARG:NH2	2.41	0.53
22:HB:574:C:H1'	22:HB:586:G:N2	2.23	0.53
22:HB:215:G:O4'	22:HB:618:A:H4'	2.09	0.53
22:HB:638:A:O2'	22:HB:662:G:H5'	2.09	0.53
22:HB:66:U:C5	22:HB:87:G:N2	2.77	0.53
22:HB:69:G:C5'	22:HB:72:A:O4'	2.51	0.53
25:HE:4:ILE:HA	25:HE:198:LEU:HD12	1.91	0.53
28:HH:96:ALA:HB1	28:HH:103:LEU:HD11	1.91	0.53
28:HH:174:GLY:O	28:HH:175:LYS:HB2	2.09	0.53
31:HK:116:ARG:NH1	31:HK:123:PRO:HG3	2.24	0.53
32:HL:90:ARG:HG3	32:HL:91:PHE:N	2.24	0.53
33:HM:75:VAL:HG22	33:HM:76:LYS:N	2.23	0.53
22:HB:2463:G:N2	34:HN:120:ARG:HG3	2.06	0.53
34:HN:65:ILE:HG23	43:HW:112:LEU:CB	2.38	0.53
22:HB:2814:G:C1'	35:HO:45:ARG:HD3	2.39	0.53
22:HB:542:A:O5'	38:HR:25:TRP:HB3	2.09	0.53
1:IA:1467:G:H2'	1:IA:1468:A:H8	1.74	0.53
1:IA:768:A:C2	1:IA:1512:U:C1'	2.92	0.53
1:IA:510:A:O2'	4:ID:43:HIS:CG	2.62	0.53
2:IB:102:LEU:HB2	2:IB:176:GLU:OE1	2.09	0.53
6:IF:43:LEU:HD11	18:IR:35:ARG:HA	1.91	0.53
7:IG:116:ALA:O	7:IG:120:ILE:HG13	2.09	0.53
13:IM:87:TYR:CB	19:IS:76:PRO:HD3	2.39	0.53
19:IS:6:LYS:HB3	19:IS:7:LYS:HZ3	1.74	0.53
49:J3:39:LYS:HE3	49:J3:40:TYR:H	1.74	0.53
22:JB:1101:U:H2'	22:JB:1102:G:O4'	2.08	0.53
22:JB:1199:U:H3'	22:JB:1200:G:H5''	1.91	0.53
22:JB:2028:C:H2'	22:JB:2029:G:H8	1.74	0.53
22:JB:871:U:C2'	22:JB:2247:A:H2'	2.35	0.53
22:JB:2436:U:H2'	22:JB:2437:G:O4'	2.09	0.53
22:JB:2499:C:H41	22:JB:2521:A:H61	1.55	0.53
22:JB:2720:A:H5''	52:J6:20:HIS:CD2	2.44	0.53
22:JB:470:U:H2'	22:JB:471:A:O4'	2.08	0.53
22:JB:60:A:C6	22:JB:92:U:O4	2.61	0.53
24:JD:117:VAL:HG22	24:JD:127:LEU:HD13	1.91	0.53
26:JF:177:VAL:O	26:JF:180:ILE:HG12	2.09	0.53
29:JI:9:SER:O	29:JI:10:ARG:HG3	2.09	0.53
22:JB:633:G:C5'	33:JM:101:ARG:HG2	2.37	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:JW:123:VAL:O	43:JW:159:THR:HG23	2.09	0.53
43:JW:30:VAL:HG12	43:JW:31:SER:N	2.23	0.53
44:JX:48:GLY:HA3	44:JX:56:ASP:H	1.74	0.53
1:AA:1261:A:H5'	1:AA:1283:G:O3'	2.09	0.53
1:AA:1393:U:HO3'	1:AA:1394:A:H8	1.52	0.53
1:AA:180:U:H1'	20:GT:98:PRO:C	2.29	0.53
1:AA:564:C:O2'	8:AH:91:ARG:NH2	2.42	0.53
1:AA:659:U:H5''	15:AO:5:LYS:HE3	1.90	0.53
1:AA:976:G:H22	1:AA:1362:C:H3'	1.74	0.53
1:AA:980:C:H1'	14:AN:19:ARG:CZ	2.39	0.53
5:AE:81:GLU:OE1	5:AE:90:VAL:HA	2.09	0.53
6:AF:38:GLU:OE1	6:AF:66:GLU:HB2	2.08	0.53
7:AG:137:LYS:HA	7:AG:140:ASP:OD2	2.09	0.53
7:AG:68:ASN:HB3	7:AG:135:VAL:HG22	1.91	0.53
7:AG:95:ARG:O	7:AG:99:LEU:HG	2.09	0.53
8:AH:39:LEU:HB3	8:AH:45:ILE:CG1	2.39	0.53
8:AH:14:ARG:HH21	8:AH:83:ILE:C	2.13	0.53
13:AM:83:ASP:HA	13:AM:93:ARG:HD2	1.91	0.53
15:AO:70:LEU:O	15:AO:78:TYR:HB2	2.09	0.53
49:B3:28:ARG:HB3	49:B3:30:ASN:OD1	2.09	0.53
22:BB:1042:G:N3	52:B6:23:VAL:CB	2.69	0.53
22:BB:1631:C:N3	40:BT:108:PRO:CD	2.69	0.53
22:BB:1924:C:H2'	22:BB:1925:C:O4'	2.09	0.53
22:BB:2481:G:H5''	22:BB:2482:A:H5''	1.91	0.53
22:BB:1985:G:H1'	22:BB:2692:A:N6	2.24	0.53
22:BB:2725:C:H42	22:BB:2740:C:N4	2.07	0.53
22:BB:465:C:N4	50:B4:39:ARG:NH1	2.56	0.53
22:BB:513:A:OP1	40:BT:18:VAL:CG1	2.55	0.53
22:BB:6:A:H2'	22:BB:7:G:H8	1.73	0.53
26:BF:33:TRP:HA	26:BF:36:ALA:HB3	1.90	0.53
27:BG:98:VAL:O	27:BG:101:GLU:HB3	2.08	0.53
22:BB:1149:G:C5'	31:BK:55:ALA:CB	2.85	0.53
32:BL:76:ARG:CB	32:BL:90:ARG:HH12	2.21	0.53
34:BN:99:LYS:CE	43:BW:73:LYS:HZ1	2.22	0.53
22:BB:504:G:H21	40:BT:77:ALA:HB3	1.64	0.53
41:BU:27:PHE:HB2	41:BU:78:ALA:HB3	1.90	0.53
43:BW:11:LYS:HE3	43:BW:11:LYS:HA	1.91	0.53
44:BX:48:GLY:HA3	44:BX:56:ASP:H	1.74	0.53
44:BX:29:GLU:H	44:BX:62:LEU:HB3	1.74	0.53
22:BB:862:A:C2	46:BZ:21:GLN:CG	2.92	0.53
1:CA:1057:G:OP1	3:CC:154:SER:O	2.27	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:1064:G:H4'	1:CA:1065:U:H5'	1.90	0.53
1:CA:1265:G:H3'	1:CA:1266:G:H8	1.73	0.53
1:CA:1469:G:H2'	1:CA:1470:G:C8	2.44	0.53
1:CA:185:A:H2'	1:CA:186:C:C6	2.43	0.53
1:CA:331:G:H5''	1:CA:332:G:H8	1.73	0.53
1:CA:675:A:H2'	1:CA:675:A:N3	2.22	0.53
1:CA:827:U:H4'	8:CH:21:LYS:CD	2.34	0.53
4:CD:25:ARG:NH1	4:CD:31:CYS:HB2	2.24	0.53
22:DB:1199:U:H3'	22:DB:1200:G:H5''	1.91	0.53
22:DB:1290:A:C1'	35:DO:24:GLN:HG2	2.39	0.53
22:DB:1290:A:O4'	35:DO:24:GLN:CB	2.57	0.53
22:DB:1414:G:N2	22:DB:1484:G:C2	2.77	0.53
22:DB:2436:U:H2'	22:DB:2437:G:O4'	2.09	0.53
22:DB:1140:A:N1	22:DB:2470:U:C5	2.77	0.53
22:DB:2481:G:H5''	22:DB:2482:A:H5''	1.91	0.53
22:DB:2658:A:O2'	25:DE:187:ALA:HB3	2.01	0.53
22:DB:503:G:H21	40:DT:71:VAL:HG13	1.73	0.53
25:DE:7:THR:HB	25:DE:194:GLY:H	1.74	0.53
30:DJ:125:ASN:HD22	30:DJ:126:THR:N	2.06	0.53
31:DK:139:ARG:NH2	31:DK:142:ARG:HH11	2.05	0.53
23:DA:92:G:O6	34:DN:39:GLU:HG2	2.09	0.53
22:DB:2692:A:O2'	35:DO:15:SER:N	2.42	0.53
23:DA:10:U:O2	36:DP:49:GLN:HB2	2.09	0.53
42:DV:36:VAL:HG12	42:DV:37:LEU:H	1.74	0.53
22:DB:885:A:C2'	43:DW:118:HIS:NE2	2.71	0.53
23:DA:107:C:C4'	43:DW:88:TYR:C	2.77	0.53
1:EA:1080:A:H4'	5:EE:16:THR:OG1	2.09	0.53
1:EA:1117:G:O4'	9:EI:104:ARG:NH2	2.42	0.53
1:EA:1261:A:H5'	1:EA:1283:G:O3'	2.09	0.53
1:EA:238:G:OP2	17:EQ:40:LYS:NZ	2.42	0.53
1:EA:1056:U:H5'	3:EC:163:ALA:CB	2.37	0.53
7:EG:37:ASN:O	7:EG:41:ARG:HG3	2.09	0.53
1:EA:44:G:P	16:EP:11:SER:CB	2.90	0.53
16:EP:6:LEU:HB3	16:EP:17:TYR:CD2	2.43	0.53
8:EH:91:ARG:NH1	17:EQ:34:LYS:NZ	2.48	0.53
20:ET:25:ARG:O	20:ET:29:LYS:HG3	2.08	0.53
22:FB:1488:G:O6	22:FB:1536:G:C2	2.62	0.53
22:FB:1924:C:H2'	22:FB:1925:C:O4'	2.09	0.53
22:FB:2056:C:H5''	24:FD:229:VAL:CA	2.39	0.53
22:FB:2063:A:H3'	22:FB:2064:U:C6	2.44	0.53
22:FB:2339:A:C2	22:FB:2407:G:O6	2.62	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:FB:2773:G:H21	22:FB:2780:A:C1'	2.21	0.53
22:FB:541:C:H41	22:FB:572:G:C1'	2.21	0.53
22:FB:861:G:N3	22:FB:944:A:H1'	2.23	0.53
24:FD:27:LYS:HZ2	24:FD:27:LYS:HB3	1.74	0.53
26:FF:177:VAL:O	26:FF:180:ILE:HG12	2.09	0.53
22:FB:687:G:C4'	26:FF:70:GLY:HA3	2.38	0.53
33:FM:143:PRO:HG2	33:FM:144:GLU:H	1.74	0.53
33:FM:35:LYS:HD3	33:FM:35:LYS:N	2.24	0.53
22:FB:968:C:OP2	34:FN:75:VAL:CG1	2.56	0.53
22:FB:2685:A:H1'	35:FO:64:ARG:CZ	2.39	0.53
44:FX:47:ALA:HB3	44:FX:49:GLN:NE2	2.20	0.53
1:GA:927:G:C2'	1:GA:1531:A:H2	2.22	0.53
1:GA:426:G:C1'	4:GD:42:GLN:HB2	2.38	0.53
1:GA:482:A:H2'	1:GA:483:C:O4'	2.08	0.53
1:GA:486:U:H2'	1:GA:487:A:H8	1.73	0.53
4:GD:25:ARG:NH1	4:GD:31:CYS:HB2	2.24	0.53
5:GE:17:ALA:HA	5:GE:26:PHE:HB3	1.91	0.53
8:GH:28:ALA:HB2	8:GH:58:TYR:O	2.09	0.53
1:GA:720:C:O3'	18:GR:52:PRO:HA	2.09	0.53
19:GS:6:LYS:HB3	19:GS:7:LYS:HZ3	1.74	0.53
22:HB:1166:A:N1	22:HB:1168:G:C1'	2.72	0.53
22:HB:1354:A:H3'	22:HB:1410:U:N3	2.24	0.53
22:HB:1460:G:N2	22:HB:1563:U:N3	2.57	0.53
22:HB:1924:C:H2'	22:HB:1925:C:O4'	2.09	0.53
22:HB:2072:C:H42	22:HB:2073:A:N6	2.07	0.53
22:HB:2339:A:OP2	51:H5:49:VAL:O	2.26	0.53
22:HB:2504:G:C4'	22:HB:2721:A:C2	2.92	0.53
22:HB:2612:G:H2'	22:HB:2613:A:O4'	2.09	0.53
22:HB:673:G:H2'	22:HB:674:U:C6	2.44	0.53
22:HB:737:C:H3'	22:HB:738:G:P	2.48	0.53
22:HB:755:C:H2'	22:HB:756:C:O4'	2.09	0.53
22:HB:860:U:O2'	22:HB:861:G:H5'	2.09	0.53
22:HB:1884:A:H2	24:HD:244:ARG:HD2	1.57	0.53
26:HF:177:VAL:O	26:HF:180:ILE:HG12	2.09	0.53
22:HB:2646:C:H6	28:HH:109:TYR:CD2	2.23	0.53
29:HI:7:GLU:OE2	29:HI:34:LEU:HA	2.09	0.53
39:HS:62:GLU:OE1	39:HS:98:ILE:HG22	2.09	0.53
22:HB:510:G:C2'	40:HT:16:GLN:NE2	2.59	0.53
41:HU:75:ARG:HE	41:HU:75:ARG:HA	1.74	0.53
1:IA:1111:A:H2'	1:IA:1112:C:C5	2.44	0.53
1:IA:978:A:C2	1:IA:1319:A:H1'	2.44	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:IA:966:G:N7	1:IA:1400:C:N4	2.57	0.53
1:IA:815:A:C6	1:IA:1508:G:N2	2.76	0.53
1:IA:254:G:H2'	1:IA:255:G:C8	2.43	0.53
1:IA:260:G:O6	20:IT:83:ARG:NH1	2.42	0.53
1:IA:447:G:H1'	1:IA:487:A:H61	1.74	0.53
1:IA:740:U:H5'	15:IO:35:ARG:NH2	1.84	0.53
1:IA:971:G:H3'	1:IA:971:G:OP1	2.09	0.53
2:IB:91:PRO:HB2	2:IB:152:PHE:HA	1.91	0.53
2:IB:27:LYS:HD2	2:IB:193:ASP:HB3	1.90	0.53
1:IA:1101:A:O5'	2:IB:98:LEU:O	2.27	0.53
4:ID:128:VAL:HG12	4:ID:129:ASN:H	1.74	0.53
9:II:121:ARG:HG2	9:II:121:ARG:HH11	1.74	0.53
11:IK:123:LYS:N	11:IK:123:LYS:HD3	2.23	0.53
11:IK:59:TYR:O	11:IK:62:GLN:HB3	2.08	0.53
11:IK:91:ARG:O	11:IK:95:ILE:HG13	2.09	0.53
14:IN:40:CYS:O	14:IN:44:LEU:HB3	2.08	0.53
15:IO:16:ALA:HA	15:IO:26:GLU:HB2	1.90	0.53
20:IT:25:ARG:O	20:IT:29:LYS:HG3	2.08	0.53
22:JB:2000:U:C5'	48:J2:8:LYS:HZ1	2.21	0.53
22:JB:1354:A:H3'	22:JB:1410:U:N3	2.24	0.53
22:JB:1408:A:H5'	22:JB:1619:A:OP2	2.08	0.53
22:JB:1902:A:H2'	22:JB:1902:A:N3	2.24	0.53
22:JB:1924:C:H2'	22:JB:1925:C:O4'	2.09	0.53
22:JB:2260:C:C3'	22:JB:2368:G:H21	2.22	0.53
22:JB:2451:G:H3'	22:JB:2454:C:H42	1.74	0.53
22:JB:2612:G:H2'	22:JB:2613:A:O4'	2.09	0.53
22:JB:349:G:P	42:JV:13:LYS:CE	2.85	0.53
22:JB:592:G:H2'	22:JB:593:C:C6	2.44	0.53
22:JB:673:G:H2'	22:JB:674:U:C6	2.44	0.53
22:JB:932:G:O2'	22:JB:2248:A:N6	2.42	0.53
24:JD:170:SER:O	24:JD:171:ASP:HB2	2.09	0.53
33:JM:110:ALA:H	33:JM:129:ALA:HB2	1.74	0.53
22:JB:596:C:C2	33:JM:44:GLY:O	2.62	0.53
33:JM:72:TYR:CD2	51:J5:64:ARG:CG	2.89	0.53
38:JR:18:LEU:HD13	38:JR:21:ALA:HB2	1.91	0.53
22:JB:2004:U:C5	38:JR:25:TRP:CD1	2.97	0.53
38:JR:87:ASN:HB2	39:JS:52:GLY:N	2.23	0.53
46:JZ:45:LYS:HA	46:JZ:48:LYS:HZ3	1.74	0.53
1:AA:10:A:H1'	1:AA:507:C:O3'	2.09	0.53
1:AA:1469:G:H2'	1:AA:1470:G:C8	2.44	0.53
1:AA:815:A:N3	1:AA:1529:G:N3	2.56	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:182:U:H4'	1:GA:190:A:N3	2.24	0.53
1:AA:514:C:H2'	1:AA:515:G:C8	2.43	0.53
1:AA:581:G:O6	1:AA:758:G:H3'	2.08	0.53
1:AA:836:G:P	18:AR:61:LYS:CE	2.97	0.53
2:AB:72:GLY:HA2	2:AB:165:VAL:HG22	1.90	0.53
1:AA:1189:C:C5'	3:AC:10:PHE:CZ	2.92	0.53
4:AD:100:ARG:HH22	4:AD:137:SER:CB	2.21	0.53
8:AH:4:ASP:O	8:AH:8:ASP:HB2	2.09	0.53
13:AM:19:LEU:HD13	13:AM:30:ALA:C	2.30	0.53
1:AA:667:G:O3'	15:AO:48:LYS:HB3	2.06	0.53
1:AA:742:G:P	15:AO:55:GLY:HA2	2.48	0.53
53:B7:11:ALA:HA	53:B7:205:VAL:HG21	1.90	0.53
22:BB:1197:U:HO3'	22:BB:1198:C:P	2.31	0.53
22:BB:1199:U:H3'	22:BB:1200:G:H5''	1.91	0.53
22:BB:1402:G:C2	22:BB:1412:C:C4	2.89	0.53
22:BB:1329:U:H5'	22:BB:1405:A:N3	2.23	0.53
22:BB:1615:C:H5'	41:BU:33:ALA:HB1	1.91	0.53
22:BB:1916:G:H2'	22:BB:1917:C:C6	2.43	0.53
22:BB:2288:A:H3'	22:BB:2289:A:C8	2.44	0.53
22:BB:2795:A:O4'	35:BO:5:LYS:CG	2.56	0.53
22:BB:501:G:H21	22:BB:1334:A:P	2.32	0.53
22:BB:540:G:N7	22:BB:2018:G:H4'	2.24	0.53
22:BB:568:G:C4	22:BB:569:C:C2	2.96	0.53
22:BB:215:G:C3'	22:BB:617:U:HO2'	2.21	0.53
22:BB:57:G:C2	22:BB:72:A:C4	2.97	0.53
22:BB:479:G:H5'	22:BB:810:U:OP1	2.09	0.53
24:BD:117:VAL:HG22	24:BD:127:LEU:HD13	1.91	0.53
24:BD:170:SER:O	24:BD:171:ASP:HB2	2.09	0.53
24:BD:72:LYS:HZ3	24:BD:75:VAL:CG2	2.21	0.53
25:BE:176:ARG:CZ	37:BQ:19:ASP:CG	2.77	0.53
25:BE:55:ALA:HA	25:BE:58:LYS:NZ	2.23	0.53
32:BL:25:LEU:HD22	32:BL:26:ASN:H	1.74	0.53
22:BB:648:A:N3	33:BM:109:LEU:CD1	2.71	0.53
33:BM:143:PRO:HG2	33:BM:144:GLU:H	1.74	0.53
22:BB:596:C:H5''	33:BM:28:LYS:HZ3	1.71	0.53
34:BN:65:ILE:HD12	34:BN:103:VAL:O	2.09	0.53
22:BB:338:G:O3'	42:BV:9:HIS:CB	2.49	0.53
1:CA:1467:G:H2'	1:CA:1468:A:H8	1.74	0.53
1:CA:296:U:C2'	1:CA:297:G:H5'	2.39	0.53
1:CA:664:G:O2'	1:CA:665:A:H3'	2.09	0.53
3:CC:57:ILE:HG22	3:CC:59:ARG:HG3	1.90	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:588:G:C3'	8:CH:5:PRO:HG3	2.39	0.53
10:CJ:63:PHE:CD2	14:CN:57:ARG:O	2.62	0.53
18:CR:34:TYR:O	18:CR:37:VAL:HG23	2.08	0.53
47:D1:48:ARG:HD3	47:D1:49:PHE:O	2.09	0.53
52:D6:14:CYS:CB	52:D6:26:ILE:H	2.21	0.53
22:DB:1077:U:H5'	22:DB:1078:A:OP2	2.09	0.53
22:DB:1674:C:OP1	25:DE:136:ARG:HB2	1.85	0.53
22:DB:1924:C:H2'	22:DB:1925:C:O4'	2.09	0.53
22:DB:922:A:N3	22:DB:2244:C:C5'	2.71	0.53
22:DB:2492:G:O5'	22:DB:2493:U:OP2	2.27	0.53
22:DB:2646:C:C4	28:DH:109:TYR:HB2	2.44	0.53
22:DB:6:A:H2'	22:DB:7:G:H8	1.72	0.53
22:DB:860:U:C2'	22:DB:861:G:H5'	2.39	0.53
22:DB:882:C:H2'	22:DB:883:A:O4'	2.09	0.53
24:DD:24:LEU:HA	24:DD:201:HIS:HE1	1.74	0.53
22:DB:2612:G:N3	25:DE:62:PRO:HB3	2.24	0.53
22:DB:38:G:H1'	26:DF:42:THR:OG1	2.09	0.53
26:DF:72:ARG:NE	26:DF:77:PHE:HB3	2.24	0.53
32:DL:83:ARG:HD2	32:DL:87:SER:HB3	1.89	0.53
36:DP:9:ARG:HH12	36:DP:12:ARG:N	2.02	0.53
41:DU:27:PHE:HB2	41:DU:78:ALA:HB3	1.90	0.53
1:EA:1392:G:H4'	1:EA:1531:A:P	2.48	0.53
1:EA:324:G:H22	1:EA:327:A:P	2.32	0.53
1:EA:668:G:C4	15:EO:46:HIS:CD2	2.97	0.53
1:EA:919:A:H2'	1:EA:920:U:C6	2.44	0.53
3:EC:87:LEU:HB2	3:EC:101:LEU:HD11	1.91	0.53
7:EG:106:GLN:HA	7:EG:109:ASN:ND2	2.24	0.53
8:EH:112:LEU:HD22	8:EH:134:ILE:H	1.74	0.53
8:EH:39:LEU:HB3	8:EH:45:ILE:CG1	2.39	0.53
1:EA:1185:G:C2'	9:EI:110:GLU:CG	2.86	0.53
9:EI:10:ARG:HB3	9:EI:72:GLY:O	2.09	0.53
9:EI:70:LYS:HA	9:EI:73:GLN:HB2	1.91	0.53
7:EG:149:ARG:CZ	11:EK:59:TYR:OH	2.57	0.53
15:EO:16:ALA:HA	15:EO:26:GLU:HB2	1.90	0.53
1:EA:1320:C:C5	19:ES:36:ARG:C	2.82	0.53
22:FB:1000:G:C5	46:FZ:10:ILE:HD11	2.44	0.53
22:FB:1077:U:H5'	22:FB:1078:A:OP2	2.09	0.53
22:FB:1199:U:H3'	22:FB:1200:G:H5''	1.91	0.53
22:FB:1329:U:H5'	22:FB:1405:A:N3	2.23	0.53
22:FB:1786:C:O2	24:FD:252:LYS:HE3	2.09	0.53
22:FB:2273:C:H5'	36:FP:95:LYS:HE2	1.91	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:FB:2288:A:H3'	22:FB:2289:A:C8	2.44	0.53
22:FB:2686:C:H2'	22:FB:2687:G:C8	2.44	0.53
22:FB:591:G:O3'	38:FR:11:ARG:NH1	2.40	0.53
22:FB:828:C:OP1	39:FS:86:HIS:NE2	2.41	0.53
22:FB:2578:G:C8	24:FD:236:GLY:HA2	2.39	0.53
22:FB:2600:A:C4'	25:FE:158:GLY:HA3	2.39	0.53
38:FR:91:ASN:ND2	39:FS:10:LYS:CD	2.64	0.53
44:FX:48:GLY:HA3	44:FX:56:ASP:H	1.74	0.53
1:GA:1261:A:H5'	1:GA:1283:G:O3'	2.09	0.53
1:GA:1292:U:OP2	7:GG:41:ARG:NH2	2.36	0.53
1:GA:226:G:H2'	1:GA:227:G:C8	2.44	0.53
1:GA:254:G:H2'	1:GA:255:G:C8	2.43	0.53
1:GA:768:A:H1'	1:GA:1523:G:H22	1.74	0.53
1:GA:860:A:H2'	1:GA:861:G:C8	2.44	0.53
1:GA:971:G:OP1	1:GA:971:G:H3'	2.09	0.53
2:GB:74:LYS:HB2	2:GB:165:VAL:HG11	1.91	0.53
6:GF:51:PRO:HA	6:GF:56:PRO:HA	1.91	0.53
1:GA:626:U:OP1	16:GP:35:LYS:HE3	2.09	0.53
1:GA:760:G:O2'	17:GQ:102:GLY:HA3	2.09	0.53
22:HB:1016:C:H2'	22:HB:1017:C:C6	2.44	0.53
22:HB:1032:A:H62	22:HB:1151:U:H3	1.57	0.53
22:HB:1161:U:H2'	22:HB:1162:A:C8	2.43	0.53
22:HB:1005:U:C4	22:HB:1171:A:N6	2.74	0.53
22:HB:1582:A:C6	24:HD:211:ARG:HG2	2.44	0.53
22:HB:1806:G:H5''	22:HB:1807:A:H2'	1.89	0.53
22:HB:1821:A:H3'	22:HB:1822:C:C6	2.44	0.53
22:HB:2061:C:H2'	22:HB:2062:U:O4'	2.09	0.53
22:HB:2204:A:H4'	22:HB:2205:C:O5'	2.09	0.53
22:HB:58:C:N3	22:HB:73:A:N3	2.50	0.53
22:HB:720:A:C6	22:HB:738:G:H1'	2.44	0.53
22:HB:783:G:H5'	50:H4:8:ASN:OD1	2.09	0.53
22:HB:81:C:H2'	22:HB:82:G:C8	2.43	0.53
22:HB:922:A:C2	22:HB:2243:C:C2'	2.91	0.53
24:HD:263:ARG:HH21	24:HD:264:LYS:NZ	2.07	0.53
27:HG:148:LYS:CD	27:HG:149:THR:H	2.20	0.53
29:HI:9:SER:O	29:HI:10:ARG:HG3	2.09	0.53
29:HI:5:LEU:HB3	29:HI:14:THR:O	2.08	0.53
31:HK:135:LEU:O	31:HK:137:LYS:N	2.42	0.53
32:HL:76:ARG:CB	32:HL:90:ARG:HH12	2.22	0.53
32:HL:83:ARG:HD2	32:HL:87:SER:HB3	1.89	0.53
34:HN:65:ILE:HD12	34:HN:103:VAL:O	2.09	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:HY:14:PHE:HA	45:HY:17:GLU:HB2	1.89	0.53
1:IA:1151:A:H5''	10:IJ:42:THR:C	2.29	0.53
1:IA:1195:C:H5'	1:IA:1398:A:N6	2.24	0.53
1:IA:1374:A:C1'	7:IG:29:LYS:CE	2.87	0.53
1:IA:927:G:O4'	1:IA:1503:A:OP1	2.27	0.53
1:IA:926:G:C4	1:IA:1504:G:H5''	2.44	0.53
1:IA:185:A:H2'	1:IA:186:C:C6	2.44	0.53
1:IA:814:A:H4'	1:IA:1511:G:H5'	0.61	0.53
8:IH:4:ASP:O	8:IH:8:ASP:HB2	2.09	0.53
1:IA:1117:G:C4'	9:II:104:ARG:CZ	2.64	0.53
13:IM:80:ARG:H	13:IM:80:ARG:HD3	1.74	0.53
15:IO:70:LEU:O	15:IO:78:TYR:HB2	2.10	0.53
19:IS:49:ILE:HG22	19:IS:50:ALA:H	1.73	0.53
1:IA:222:U:H4'	20:IT:68:LYS:HE2	1.90	0.53
23:JA:76:U:H2'	23:JA:77:G:H5'	1.90	0.53
22:JB:1020:A:O2'	38:JR:62:ILE:HB	2.09	0.53
22:JB:1161:U:H2'	22:JB:1162:A:C8	2.43	0.53
22:JB:1203:A:C2'	33:JM:37:GLN:NE2	2.72	0.53
22:JB:1261:G:H21	38:JR:3:ARG:NH1	2.03	0.53
22:JB:1750:A:N3	22:JB:2675:U:O2	2.42	0.53
22:JB:1821:A:H3'	22:JB:1822:C:C6	2.44	0.53
22:JB:2073:A:C2	47:J1:58:LYS:NZ	2.74	0.53
22:JB:2505:G:H21	52:J6:2:LYS:HG3	1.73	0.53
22:JB:2570:C:H2'	22:JB:2571:G:H8	1.74	0.53
22:JB:2686:C:H2'	22:JB:2687:G:C8	2.45	0.53
22:JB:2764:U:H4'	25:JE:36:ARG:HH22	1.72	0.53
22:JB:3122:U:O2	53:J7:158:LYS:HG3	2.09	0.53
22:JB:638:A:O2'	22:JB:662:G:H5'	2.09	0.53
22:JB:755:C:H2'	22:JB:756:C:O4'	2.09	0.53
22:JB:791:G:H4'	24:JD:49:ILE:CA	2.34	0.53
22:JB:847:C:HO2'	22:JB:2337:A:C1'	2.14	0.53
22:JB:873:U:C5	22:JB:2247:A:O5'	2.62	0.53
22:JB:892:A:C6	22:JB:911:A:H2	2.27	0.53
24:JD:119:ALA:HA	24:JD:129:ASN:H	1.74	0.53
25:JE:187:ALA:O	25:JE:188:ILE:HG22	2.09	0.53
27:JG:17:MET:HA	27:JG:21:GLY:HA2	1.90	0.53
28:JH:174:GLY:O	28:JH:175:LYS:HB2	2.09	0.53
28:JH:50:LEU:O	28:JH:51:LEU:HD12	2.07	0.53
31:JK:62:ILE:HD11	31:JK:144:MET:SD	2.48	0.53
32:JL:8:LEU:HD22	32:JL:93:ARG:O	2.09	0.53
32:JL:76:ARG:CB	32:JL:90:ARG:HH12	2.22	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:JM:35:LYS:HD3	33:JM:35:LYS:N	2.24	0.53
23:JA:53:G:N7	36:JP:64:LYS:CE	2.72	0.53
22:JB:1240:G:P	38:JR:16:LYS:HD2	2.48	0.53
39:JS:62:GLU:OE1	39:JS:98:ILE:HG22	2.09	0.53
45:JY:14:PHE:HA	45:JY:17:GLU:HB2	1.90	0.53
45:JY:44:ARG:HA	45:JY:47:ARG:CB	2.38	0.53
22:JB:940:G:N3	46:JZ:40:VAL:HG22	2.23	0.53
1:AA:978:A:C2	1:AA:1319:A:H1'	2.44	0.52
1:AA:1320:C:O4'	19:AS:73:GLU:HB3	2.10	0.52
1:AA:324:G:H22	1:AA:327:A:P	2.32	0.52
1:AA:592:G:H2'	1:AA:593:G:C8	2.45	0.52
1:AA:666:G:H1'	15:AO:51:HIS:CB	2.22	0.52
1:AA:694:A:OP1	11:AK:53:SER:HA	2.09	0.52
1:AA:940:C:C4'	7:AG:29:LYS:NZ	2.72	0.52
1:AA:1073:U:O2'	2:AB:104:ASN:OD1	2.27	0.52
2:AB:16:HIS:HE1	2:AB:213:LEU:HB3	1.73	0.52
3:AC:57:ILE:HG22	3:AC:59:ARG:HG3	1.90	0.52
8:AH:96:GLY:N	8:AH:99:GLU:HB2	2.24	0.52
1:AA:521:G:N7	12:AL:92:ASP:OD2	2.43	0.52
1:AA:973:G:C5'	14:AN:41:ARG:NH2	2.71	0.52
19:AS:6:LYS:HB3	19:AS:7:LYS:HZ3	1.74	0.52
22:BB:157:G:H4'	50:B4:36:ALA:HB1	0.60	0.52
22:BB:1437:A:H2'	22:BB:1438:G:H8	0.75	0.52
22:BB:1821:A:H3'	22:BB:1822:C:C6	2.44	0.52
22:BB:1975:G:H4'	22:BB:1976:U:C5	2.45	0.52
22:BB:2072:C:H42	22:BB:2073:A:N6	2.07	0.52
22:BB:2238:G:H2'	22:BB:2239:C:C6	2.44	0.52
22:BB:2357:A:H5''	36:BP:26:ARG:CZ	2.39	0.52
22:BB:2386:G:H2'	22:BB:2387:U:C6	2.44	0.52
22:BB:2451:G:H3'	22:BB:2454:C:H42	1.74	0.52
22:BB:2491:C:H2'	22:BB:2492:G:H4'	1.90	0.52
22:BB:2590:U:H3'	22:BB:2591:C:H6	1.74	0.52
22:BB:2716:G:O6	22:BB:2749:A:C2	2.62	0.52
22:BB:649:G:O2'	22:BB:650:U:H5'	2.09	0.52
22:BB:882:C:H2'	22:BB:883:A:O4'	2.09	0.52
22:BB:886:A:C4	43:BW:167:THR:CB	2.84	0.52
22:BB:2599:U:O2	25:BE:156:MET:HE2	2.09	0.52
26:BF:177:VAL:O	26:BF:180:ILE:HG12	2.09	0.52
28:BH:152:ARG:O	28:BH:152:ARG:HD2	2.09	0.52
22:BB:1140:A:H5'	31:BK:107:GLN:HB2	1.90	0.52
31:BK:42:VAL:HG13	31:BK:166:LEU:HG	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:BK:61:ARG:HA	31:BK:65:LYS:HB2	1.91	0.52
38:BR:106:PHE:HA	38:BR:109:LEU:HB3	1.91	0.52
22:BB:1336:G:H5''	40:BT:119:LYS:NZ	2.23	0.52
22:BB:1225:G:O6	40:BT:11:LYS:HB2	2.09	0.52
1:CA:1230:C:O2	13:CM:126:LYS:CD	2.57	0.52
1:CA:1279:A:OP2	10:CJ:7:LYS:CD	2.57	0.52
1:CA:978:A:C2	1:CA:1319:A:H1'	2.44	0.52
1:CA:1518:A:H2'	1:CA:1519:A:C8	2.43	0.52
1:CA:619:U:H1'	4:CD:133:VAL:CG2	2.29	0.52
1:CA:953:G:H22	13:CM:120:LYS:CA	2.22	0.52
1:CA:971:G:H3'	1:CA:971:G:OP1	2.09	0.52
1:CA:402:G:C4'	4:CD:135:LEU:HD11	2.35	0.52
7:CG:137:LYS:HA	7:CG:140:ASP:OD2	2.09	0.52
16:CP:20:VAL:HG13	16:CP:32:TYR:CE1	2.44	0.52
47:D1:10:VAL:H	47:D1:11:PRO:CD	2.21	0.52
22:DB:177:U:C4'	47:D1:30:GLU:O	2.58	0.52
49:D3:28:ARG:HB3	49:D3:30:ASN:OD1	2.09	0.52
53:D7:206:LYS:HB2	53:D7:212:ALA:HA	1.91	0.52
22:DB:874:A:O2'	23:DA:81:C:O3'	2.26	0.52
22:DB:1439:G:H2'	22:DB:1440:G:C8	2.43	0.52
22:DB:2288:A:H3'	22:DB:2289:A:C8	2.45	0.52
22:DB:2491:C:H2'	22:DB:2492:G:H4'	1.90	0.52
22:DB:2590:U:H3'	22:DB:2591:C:H6	1.74	0.52
22:DB:2686:C:H2'	22:DB:2687:G:C8	2.44	0.52
22:DB:107:G:OP1	22:DB:359:G:H1'	2.09	0.52
22:DB:415:A:HO2'	22:DB:420:C:H5'	1.74	0.52
22:DB:487:G:C2'	22:DB:489:A:N7	2.71	0.52
22:DB:568:G:OP2	31:DK:136:PRO:O	2.27	0.52
22:DB:592:G:H2'	22:DB:593:C:C6	2.44	0.52
25:DE:133:LYS:NZ	25:DE:133:LYS:HB2	2.24	0.52
22:DB:2766:U:C1'	25:DE:62:PRO:CA	2.75	0.52
32:DL:123:PHE:HB2	32:DL:126:ILE:HB	1.91	0.52
34:DN:99:LYS:N	34:DN:100:PRO:HD3	2.24	0.52
38:DR:73:GLY:HA3	38:DR:114:ARG:HH11	1.73	0.52
22:DB:1164:C:C6	38:DR:77:SER:OG	2.59	0.52
39:DS:66:GLY:N	39:DS:93:ILE:HG23	2.24	0.52
22:DB:506:G:OP2	40:DT:21:ARG:CB	2.57	0.52
22:DB:489:A:H5''	42:DV:4:PRO:O	2.09	0.52
43:DW:30:VAL:HG12	43:DW:31:SER:N	2.23	0.52
1:EA:1256:A:H5'	1:EA:1258:G:C1'	2.39	0.52
1:EA:1318:A:C1'	19:ES:10:PHE:CD1	2.92	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:EA:1349:A:H2'	1:EA:1350:A:O4'	2.09	0.52
1:EA:1500:A:O3'	1:EA:1508:G:H5''	2.09	0.52
1:EA:185:A:H2'	1:EA:186:C:C6	2.44	0.52
1:EA:244:U:OP2	17:EQ:100:LYS:HE2	2.00	0.52
1:EA:592:G:H2'	1:EA:593:G:C8	2.45	0.52
1:EA:697:U:H3	1:EA:798:G:H1'	1.73	0.52
1:EA:741:G:H4'	15:EO:55:GLY:HA3	1.90	0.52
2:EB:72:GLY:HA2	2:EB:165:VAL:HG22	1.90	0.52
1:EA:436:C:H1'	4:ED:157:LEU:HD13	1.92	0.52
4:ED:25:ARG:NH1	4:ED:31:CYS:HB2	2.24	0.52
1:EA:643:C:C2	8:EH:132:GLU:HB2	2.41	0.52
8:EH:14:ARG:HH21	8:EH:83:ILE:C	2.13	0.52
10:EJ:7:LYS:HG2	10:EJ:9:ARG:NH1	2.25	0.52
15:EO:70:LEU:O	15:EO:78:TYR:HB2	2.10	0.52
49:F3:28:ARG:HB3	49:F3:30:ASN:OD1	2.09	0.52
22:FB:1636:G:O5'	50:F4:1:MET:HE3	2.06	0.52
51:F5:9:MET:O	51:F5:14:ILE:HD11	2.09	0.52
22:FB:1905:G:H2'	22:FB:1906:U:O4'	2.08	0.52
22:FB:1971:C:H2'	22:FB:1972:G:C8	2.44	0.52
22:FB:2034:A:OP1	25:FE:137:ARG:HD3	2.10	0.52
22:FB:2336:G:H2'	22:FB:2338:C:OP2	2.09	0.52
22:FB:2491:C:H2'	22:FB:2492:G:H4'	1.90	0.52
22:FB:2590:U:H3'	22:FB:2591:C:H6	1.74	0.52
22:FB:456:C:H4'	38:FR:3:ARG:HB2	1.91	0.52
22:FB:592:G:H2'	22:FB:593:C:C6	2.44	0.52
22:FB:644:A:O2'	22:FB:2383:C:H4'	2.10	0.52
22:FB:649:G:O2'	22:FB:650:U:H5'	2.09	0.52
22:FB:6:A:H2'	22:FB:7:G:H8	1.72	0.52
22:FB:860:U:C2'	22:FB:861:G:H5'	2.39	0.52
24:FD:119:ALA:HA	24:FD:129:ASN:H	1.74	0.52
22:FB:2577:A:O5'	24:FD:235:GLY:O	2.28	0.52
28:FH:6:LYS:HE3	28:FH:69:ARG:HB3	1.89	0.52
28:FH:96:ALA:HB1	28:FH:103:LEU:HD11	1.91	0.52
31:FK:61:ARG:HA	31:FK:65:LYS:HB2	1.91	0.52
32:FL:8:LEU:HD22	32:FL:93:ARG:O	2.09	0.52
42:FV:76:LEU:HB3	42:FV:80:LYS:HZ1	1.74	0.52
1:GA:1531:A:H2'	1:GA:1532:U:O4'	2.09	0.52
1:GA:718:G:N3	11:GK:116:HIS:CE1	2.77	0.52
1:GA:879:C:H2'	1:GA:880:C:C6	2.44	0.52
1:GA:978:A:C2	1:GA:1319:A:H1'	2.44	0.52
1:GA:509:A:C6	4:GD:54:TYR:HE2	2.27	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:GL:57:LYS:HA	12:GL:67:THR:HA	1.91	0.52
16:GP:37:GLY:HA2	16:GP:50:LYS:O	2.08	0.52
1:GA:958:A:C2	19:GS:77:THR:HG21	2.41	0.52
47:H1:48:ARG:HD3	47:H1:49:PHE:O	2.09	0.52
53:H7:11:ALA:HA	53:H7:205:VAL:HG21	1.90	0.52
22:HB:1468:A:N1	35:HO:80:MET:CG	2.72	0.52
22:HB:1586:A:H3'	22:HB:1587:A:P	2.49	0.52
22:HB:2238:G:H2'	22:HB:2239:C:C6	2.44	0.52
22:HB:2303:C:H4'	22:HB:2317:G:OP1	2.09	0.52
22:HB:2334:C:H5'	44:HX:21:LEU:CG	2.38	0.52
22:HB:2528:G:O6	22:HB:2539:C:N4	2.42	0.52
22:HB:2602:G:C1'	48:H2:22:HIS:CE1	2.88	0.52
22:HB:2686:C:H2'	22:HB:2687:G:C8	2.45	0.52
22:HB:2701:A:H2'	35:HO:5:LYS:HZ3	1.72	0.52
22:HB:3115:G:O6	22:HB:3118:U:H3'	2.10	0.52
22:HB:504:G:O4'	40:HT:25:PHE:HD2	1.90	0.52
22:HB:236:C:H1'	22:HB:632:A:O2'	2.07	0.52
27:HG:69:LYS:HZ1	27:HG:72:LYS:N	2.05	0.52
22:HB:2646:C:H6	28:HH:109:TYR:HD2	1.52	0.52
28:HH:152:ARG:O	28:HH:152:ARG:HD2	2.09	0.52
34:HN:106:GLU:CB	43:HW:113:VAL:C	2.37	0.52
39:HS:66:GLY:N	39:HS:93:ILE:HG23	2.24	0.52
22:HB:761:G:H2'	40:HT:110:ALA:HB1	1.86	0.52
22:HB:57:G:C5'	41:HU:75:ARG:NH1	2.73	0.52
43:HW:11:LYS:HE3	43:HW:11:LYS:HA	1.91	0.52
43:HW:121:GLN:HG3	43:HW:123:VAL:HG13	1.90	0.52
45:HY:51:ALA:C	45:HY:53:LEU:H	2.11	0.52
1:IA:1166:G:O2'	1:IA:1167:A:H3'	2.09	0.52
1:IA:486:U:H2'	1:IA:487:A:H8	1.73	0.52
1:IA:675:A:N3	1:IA:675:A:H2'	2.23	0.52
1:IA:751:U:C2'	15:IO:69:TYR:CZ	2.84	0.52
8:IH:28:ALA:HB2	8:IH:58:TYR:O	2.09	0.52
10:IJ:9:ARG:N	10:IJ:94:VAL:HG13	2.22	0.52
1:IA:520:A:H5''	12:IL:73:GLU:HB3	1.90	0.52
22:JB:1049:C:C4	22:JB:1129:A:C6	2.97	0.52
22:JB:1710:U:H2'	24:JD:15:GLN:HE22	1.73	0.52
22:JB:1747:G:N7	37:JQ:126:LYS:CB	2.72	0.52
22:JB:166:G:H2'	22:JB:182:G:N2	2.24	0.52
22:JB:1975:G:H4'	22:JB:1976:U:C5	2.44	0.52
22:JB:2061:C:H2'	22:JB:2062:U:O4'	2.09	0.52
22:JB:2072:C:H42	22:JB:2073:A:N6	2.08	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:JB:2614:A:H4'	25:JE:77:ILE:CG2	2.39	0.52
22:JB:3177:C:C2'	53:J7:161:ASP:OD2	2.57	0.52
22:JB:3196:G:H1	22:JB:2204:A:N6	2.07	0.52
22:JB:81:C:H2'	22:JB:82:G:C8	2.43	0.52
22:JB:869:C:H5'	44:JX:57:HIS:O	2.08	0.52
26:JF:33:TRP:HA	26:JF:36:ALA:HB3	1.90	0.52
22:JB:610:G:C5'	26:JF:99:VAL:HG23	2.28	0.52
27:JG:160:ALA:HB1	27:JG:165:GLU:C	2.29	0.52
29:JI:26:ARG:NH1	47:J1:68:ARG:HE	2.07	0.52
31:JK:90:LEU:HD22	31:JK:95:LEU:HD12	1.91	0.52
34:JN:65:ILE:HD12	34:JN:103:VAL:O	2.09	0.52
38:JR:18:LEU:HD11	38:JR:29:SER:O	2.09	0.52
39:JS:66:GLY:N	39:JS:93:ILE:HG23	2.24	0.52
43:JW:121:GLN:HG3	43:JW:123:VAL:HG13	1.90	0.52
22:JB:2310:G:C3'	44:JX:71:ASN:CA	2.82	0.52
22:JB:76:C:C5'	45:JY:56:VAL:CG2	2.87	0.52
1:AA:1060:C:OP1	10:AJ:51:ARG:HD2	2.06	0.52
1:AA:1128:C:O3'	9:AI:18:PHE:HZ	1.79	0.52
1:AA:1190:G:H4'	3:AC:176:HIS:CE1	2.44	0.52
1:AA:1265:G:H3'	1:AA:1266:G:H8	1.73	0.52
1:AA:1271:G:H5'	1:AA:1314:C:OP1	2.09	0.52
1:AA:1467:G:H2'	1:AA:1468:A:H8	1.74	0.52
1:AA:1520:G:H2'	1:AA:1521:G:C8	2.45	0.52
1:AA:659:U:H5''	15:AO:4:THR:CB	2.39	0.52
1:AA:971:G:OP1	1:AA:971:G:H3'	2.09	0.52
7:AG:106:GLN:HA	7:AG:109:ASN:ND2	2.24	0.52
7:AG:116:ALA:O	7:AG:120:ILE:HG13	2.09	0.52
16:AP:20:VAL:HG13	16:AP:32:TYR:CE1	2.43	0.52
1:AA:376:G:OP1	16:AP:67:THR:HG21	2.08	0.52
1:AA:1013:G:H3'	19:AS:18:LYS:NZ	2.24	0.52
50:B4:20:ALA:HA	50:B4:23:LYS:HE3	1.91	0.52
22:BB:1004:A:N6	22:BB:1172:U:H3	2.08	0.52
22:BB:1439:G:H2'	22:BB:1440:G:C8	2.43	0.52
22:BB:1453:A:C3'	22:BB:1454:U:C5	2.90	0.52
22:BB:1669:A:H62	22:BB:1670:G:N2	2.03	0.52
22:BB:1686:A:O3'	22:BB:2528:G:H5'	2.09	0.52
22:BB:1905:G:H2'	22:BB:1906:U:O4'	2.08	0.52
22:BB:2063:A:H3'	22:BB:2064:U:C6	2.44	0.52
22:BB:2356:A:N3	36:BP:89:PHE:CE2	2.72	0.52
22:BB:2686:C:H2'	22:BB:2687:G:C8	2.45	0.52
22:BB:1670:G:OP1	22:BB:2797:G:C6	2.61	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:BH:174:GLY:O	28:BH:175:LYS:HB2	2.09	0.52
32:BL:8:LEU:HD22	32:BL:93:ARG:O	2.09	0.52
34:BN:44:LYS:N	34:BN:47:GLN:HB2	2.24	0.52
40:BT:127:ILE:HD11	40:BT:129:ALA:HB3	1.91	0.52
42:BV:23:ILE:HB	42:BV:81:VAL:HG11	1.90	0.52
42:BV:68:GLY:O	42:BV:69:GLN:HB2	2.09	0.52
43:BW:67:LYS:CG	43:BW:128:ARG:HH12	2.20	0.52
1:CA:29:G:C4'	1:CA:295:C:H4'	2.33	0.52
1:CA:523:A:N1	12:CL:91:LYS:CA	2.63	0.52
1:CA:644:G:N9	8:CH:92:ARG:CD	2.70	0.52
1:CA:710:G:OP1	6:CF:54:LYS:NZ	2.41	0.52
2:CB:102:LEU:HB2	2:CB:176:GLU:OE1	2.09	0.52
4:CD:100:ARG:O	4:CD:104:VAL:HG23	2.09	0.52
7:CG:116:ALA:O	7:CG:120:ILE:HG13	2.09	0.52
8:CH:4:ASP:O	8:CH:8:ASP:HB2	2.09	0.52
11:CK:91:ARG:O	11:CK:95:ILE:HG13	2.09	0.52
12:CL:47:LYS:HG3	12:CL:48:PRO:CD	2.37	0.52
13:CM:19:LEU:HD13	13:CM:30:ALA:C	2.30	0.52
14:CN:40:CYS:O	14:CN:44:LEU:HB3	2.08	0.52
15:CO:70:LEU:O	15:CO:78:TYR:HB2	2.09	0.52
1:CA:275:G:C4'	17:CQ:14:LYS:CB	1.88	0.52
50:D4:20:ALA:HA	50:D4:23:LYS:HE3	1.91	0.52
51:D5:9:MET:O	51:D5:14:ILE:HD11	2.09	0.52
22:DB:2328:G:C4'	51:D5:42:ARG:NH1	2.72	0.52
53:D7:200:LEU:HD22	53:D7:201:ARG:N	2.22	0.52
22:DB:1154:A:H61	31:DK:52:GLY:CA	2.20	0.52
22:DB:1565:G:H2'	22:DB:1566:G:H8	1.75	0.52
22:DB:1797:C:O2'	24:DD:49:ILE:HG13	2.06	0.52
22:DB:1975:G:H4'	22:DB:1976:U:C5	2.45	0.52
22:DB:1985:G:H1'	22:DB:2692:A:N6	2.24	0.52
22:DB:1140:A:H61	22:DB:2470:U:H5	1.55	0.52
22:DB:3876:A:C2	22:DB:3877:A:H1'	2.44	0.52
22:DB:861:G:N3	22:DB:944:A:H1'	2.23	0.52
22:DB:676:G:N2	22:DB:950:G:H4'	2.25	0.52
22:DB:969:U:C2	34:DN:19:THR:HB	2.45	0.52
31:DK:135:LEU:C	31:DK:137:LYS:H	2.13	0.52
22:DB:1149:G:OP1	31:DK:55:ALA:CB	2.57	0.52
22:DB:606:A:C2	33:DM:23:PRO:C	2.77	0.52
22:DB:967:G:H5''	34:DN:77:LYS:HA	1.90	0.52
40:DT:72:LEU:HD12	40:DT:126:ILE:HG23	1.90	0.52
40:DT:55:ASP:H	40:DT:58:ARG:HB3	1.74	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:DV:30:LYS:O	42:DV:30:LYS:HD3	2.09	0.52
44:DX:43:THR:HG21	44:DX:46:LYS:HG2	1.92	0.52
1:EA:1187:G:N2	14:EN:60:SER:OG	2.42	0.52
1:EA:1320:C:H5'	19:ES:70:LYS:CD	2.38	0.52
1:EA:29:G:C4'	1:EA:295:C:H4'	2.33	0.52
1:EA:435:C:O2'	4:ED:156:GLU:CD	2.42	0.52
1:EA:581:G:O6	1:EA:758:G:H3'	2.09	0.52
1:EA:633:G:H5''	17:EQ:28:PRO:CG	2.18	0.52
1:EA:664:G:O2'	1:EA:665:A:H3'	2.09	0.52
1:EA:958:A:C4'	19:ES:55:LYS:NZ	2.68	0.52
4:ED:128:VAL:HG12	4:ED:129:ASN:H	1.74	0.52
7:EG:46:ALA:CB	7:EG:120:ILE:HG21	2.39	0.52
7:EG:95:ARG:O	7:EG:99:LEU:HG	2.09	0.52
12:EL:57:LYS:HA	12:EL:67:THR:HA	1.91	0.52
47:F1:31:ILE:HG23	47:F1:32:HIS:N	2.20	0.52
47:F1:48:ARG:HD3	47:F1:49:PHE:O	2.09	0.52
22:FB:1003:C:C5'	38:FR:47:TYR:CZ	2.56	0.52
22:FB:1439:G:H2'	22:FB:1440:G:C8	2.43	0.52
22:FB:1439:G:H2'	22:FB:1440:G:H8	1.73	0.52
22:FB:1565:G:H2'	22:FB:1566:G:H8	1.75	0.52
22:FB:2072:C:H42	22:FB:2073:A:N6	2.07	0.52
22:FB:2258:G:C1'	22:FB:2306:A:O2'	2.58	0.52
22:FB:2432:A:C4'	22:FB:2551:A:O2'	2.57	0.52
22:FB:2679:G:H21	35:FO:68:GLN:CD	2.12	0.52
22:FB:1741:G:N3	22:FB:2835:A:H2	2.06	0.52
22:FB:3115:G:O6	22:FB:3118:U:H3'	2.09	0.52
22:FB:331:U:O4	26:FF:134:ILE:HD11	2.09	0.52
22:FB:224:G:H4'	22:FB:399:G:C5	2.44	0.52
22:FB:456:C:P	38:FR:2:PRO:CG	2.97	0.52
22:FB:568:G:H2'	22:FB:569:C:C1'	2.38	0.52
22:FB:687:G:C5'	26:FF:70:GLY:C	2.72	0.52
22:FB:846:A:H2	22:FB:2337:A:N6	2.06	0.52
22:FB:1673:C:H6	25:FE:136:ARG:CZ	2.19	0.52
22:FB:2032:G:H1'	25:FE:156:MET:CE	2.39	0.52
28:FH:174:GLY:O	28:FH:175:LYS:HB2	2.09	0.52
28:FH:68:THR:C	28:FH:70:THR:H	2.13	0.52
31:FK:149:LYS:HZ1	31:FK:150:VAL:HG13	1.74	0.52
32:FL:25:LEU:HD22	32:FL:26:ASN:H	1.74	0.52
22:FB:1684:G:H5''	32:FL:7:ARG:CD	2.37	0.52
34:FN:55:MET:HE2	34:FN:114:GLN:HE21	1.75	0.52
34:FN:65:ILE:HD12	34:FN:103:VAL:O	2.09	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:FP:42:ILE:HG22	36:FP:43:ILE:H	1.73	0.52
38:FR:43:ALA:HA	39:FS:75:LYS:CE	2.39	0.52
43:FW:88:TYR:C	43:FW:90:GLU:O	2.48	0.52
1:GA:1271:G:H5'	1:GA:1314:C:OP1	2.09	0.52
1:GA:815:A:C4	1:GA:1527:C:O2	2.62	0.52
1:GA:265:G:H21	17:GQ:70:ARG:HH21	0.60	0.52
3:GC:119:ARG:O	3:GC:123:GLN:HG3	2.09	0.52
5:GE:51:VAL:HB	5:GE:52:PRO:HD3	1.90	0.52
7:GG:106:GLN:HA	7:GG:109:ASN:ND2	2.24	0.52
1:GA:1373:G:H4'	7:GG:34:GLY:C	2.29	0.52
1:GA:824:C:H1'	8:GH:2:LEU:HA	1.90	0.52
8:GH:39:LEU:HB3	8:GH:45:ILE:CG1	2.39	0.52
22:HB:1376:C:H3'	47:H1:3:LYS:O	2.09	0.52
49:H3:28:ARG:HB3	49:H3:30:ASN:OD1	2.09	0.52
22:HB:3177:C:C4'	53:H7:163:PRO:HG2	2.20	0.52
22:HB:3876:A:C2	53:H7:44:GLY:HA3	2.44	0.52
23:HA:117:G:H4'	36:HP:52:ALA:HA	1.91	0.52
23:HA:58:G:H4'	23:HA:59:A:H5'	1.92	0.52
22:HB:1018:C:H2'	22:HB:1019:U:H5	1.75	0.52
22:HB:1072:U:O2	30:HJ:11:GLN:HG2	2.08	0.52
22:HB:1087:C:H4'	30:HJ:90:THR:HA	1.90	0.52
22:HB:1101:U:H2'	22:HB:1102:G:O4'	2.08	0.52
22:HB:1376:C:N4	47:H1:2:GLN:CB	2.72	0.52
22:HB:2329:C:C5'	51:H5:42:ARG:HB3	2.39	0.52
22:HB:541:C:N4	22:HB:572:G:C1'	2.72	0.52
22:HB:631:G:H4'	22:HB:632:A:H2	1.74	0.52
22:HB:816:U:H2'	22:HB:817:A:H8	1.74	0.52
24:HD:117:VAL:HG22	24:HD:127:LEU:HD13	1.91	0.52
26:HF:33:TRP:HA	26:HF:36:ALA:HB3	1.90	0.52
22:HB:625:A:O4'	26:HF:38:ARG:CD	2.57	0.52
31:HK:139:ARG:NH2	31:HK:142:ARG:HB3	2.24	0.52
22:HB:1149:G:C4'	31:HK:56:THR:OG1	2.53	0.52
34:HN:60:ARG:HD3	34:HN:61:ARG:H	1.73	0.52
32:HL:91:PHE:CA	37:HQ:79:ARG:HD3	2.21	0.52
39:HS:66:GLY:HA2	39:HS:93:ILE:HG12	1.91	0.52
42:HV:68:GLY:O	42:HV:69:GLN:HB2	2.09	0.52
22:HB:918:A:O5'	43:HW:118:HIS:CD2	2.62	0.52
1:IA:514:C:H2'	1:IA:515:G:C8	2.44	0.52
4:ID:52:SER:O	4:ID:56:VAL:HG23	2.09	0.52
5:IE:81:GLU:OE1	5:IE:90:VAL:HA	2.09	0.52
8:IH:89:PRO:HA	8:IH:92:ARG:NH1	2.24	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:IL:11:VAL:CG1	17:IQ:36:ILE:HD13	2.30	0.52
1:IA:192:U:C4'	20:IT:57:ARG:CZ	2.81	0.52
50:J4:25:LYS:NZ	50:J4:25:LYS:HA	2.23	0.52
33:JM:62:LYS:CA	51:J5:30:ARG:HH11	2.19	0.52
22:JB:1139:A:H62	22:JB:2469:G:P	2.32	0.52
22:JB:1140:A:N6	22:JB:2470:U:H5	2.06	0.52
22:JB:1141:U:H1'	22:JB:1142:G:N7	2.24	0.52
22:JB:1815:G:C5'	24:JD:52:ARG:HG2	2.38	0.52
22:JB:2204:A:H4'	22:JB:2205:C:O5'	2.09	0.52
22:JB:2488:G:OP1	22:JB:2534:U:OP1	2.27	0.52
22:JB:3167:U:O4	53:J7:100:VAL:HB	2.09	0.52
22:JB:631:G:H4'	22:JB:632:A:H2	1.75	0.52
22:JB:860:U:O2'	22:JB:861:G:H5'	2.10	0.52
22:JB:93:A:C4	45:JY:41:HIS:NE2	2.71	0.52
22:JB:94:C:C5'	45:JY:40:PRO:HD2	2.40	0.52
22:JB:1583:A:H61	24:JD:89:SER:HA	1.74	0.52
25:JE:105:THR:HG21	25:JE:164:ARG:HB3	1.90	0.52
25:JE:63:MET:HB2	25:JE:64:GLN:NE2	2.25	0.52
22:JB:3187:U:C5'	29:JI:11:LEU:HD21	2.34	0.52
29:JI:7:GLU:OE2	29:JI:34:LEU:HA	2.09	0.52
22:JB:1074:G:O3'	30:JJ:84:ILE:HD12	2.09	0.52
34:JN:73:LYS:HE2	34:JN:93:TYR:HB3	1.90	0.52
38:JR:87:ASN:ND2	39:JS:50:ASP:CG	2.61	0.52
40:JT:127:ILE:HD11	40:JT:129:ALA:HB3	1.91	0.52
41:JU:27:PHE:HB2	41:JU:78:ALA:HB3	1.90	0.52
22:JB:491:A:C8	42:JV:53:VAL:HG13	2.44	0.52
1:AA:1349:A:H2'	1:AA:1350:A:O4'	2.09	0.52
1:AA:1374:A:H2'	1:AA:1375:A:O4'	2.09	0.52
6:AF:68:PRO:O	6:AF:72:VAL:HG23	2.10	0.52
7:AG:37:ASN:O	7:AG:41:ARG:HG3	2.09	0.52
8:AH:120:THR:O	8:AH:124:ALA:HB2	2.09	0.52
14:AN:40:CYS:O	14:AN:44:LEU:HB3	2.08	0.52
15:AO:16:ALA:HB1	15:AO:21:ASP:CB	2.37	0.52
15:AO:36:ILE:HD11	15:AO:63:ARG:CZ	2.39	0.52
18:AR:34:TYR:O	18:AR:37:VAL:HG23	2.08	0.52
19:AS:43:GLU:HG3	19:AS:44:MET:N	2.24	0.52
22:BB:2789:U:C4'	48:B2:30:LEU:CD1	2.86	0.52
22:BB:2861:A:C4	48:B2:31:THR:HG21	2.45	0.52
22:BB:1044:U:O4	52:B6:15:LYS:CE	2.57	0.52
22:BB:1070:G:N2	30:BJ:127:VAL:HA	2.22	0.52
22:BB:1309:G:OP1	22:BB:2688:G:C1'	2.56	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:BB:1368:G:H2'	22:BB:1369:G:C8	2.44	0.52
22:BB:1510:A:C2	22:BB:1595:A:C1'	2.74	0.52
22:BB:1902:A:N3	22:BB:1902:A:H2'	2.23	0.52
22:BB:2436:U:H2'	22:BB:2437:G:O4'	2.09	0.52
22:BB:2525:U:O2'	22:BB:2545:A:N3	2.43	0.52
22:BB:2614:A:O3'	25:BE:78:LEU:HA	2.09	0.52
22:BB:224:G:H4'	22:BB:399:G:C5	2.44	0.52
22:BB:592:G:H2'	22:BB:593:C:C6	2.44	0.52
22:BB:861:G:N3	22:BB:944:A:H1'	2.23	0.52
22:BB:1583:A:N9	24:BD:84:TYR:CE1	2.76	0.52
25:BE:118:LYS:NZ	25:BE:118:LYS:HA	2.24	0.52
22:BB:2661:G:O2'	25:BE:11:MET:CE	2.57	0.52
33:BM:35:LYS:N	33:BM:35:LYS:HD3	2.24	0.52
41:BU:16:ALA:HA	41:BU:20:MET:HB2	1.92	0.52
22:BB:489:A:C5'	42:BV:5:SER:O	2.49	0.52
44:BX:43:THR:HG21	44:BX:46:LYS:HG2	1.92	0.52
1:CA:1224:G:HO2'	13:CM:102:ARG:CB	2.12	0.52
1:CA:1324:A:H2'	1:CA:1325:C:O4'	2.10	0.52
1:CA:1349:A:H2'	1:CA:1350:A:O4'	2.09	0.52
1:CA:1374:A:H2'	1:CA:1375:A:O4'	2.09	0.52
1:CA:1500:A:O3'	1:CA:1508:G:H5''	2.09	0.52
1:CA:324:G:H22	1:CA:327:A:P	2.32	0.52
1:CA:581:G:C2	17:CQ:105:ALA:HB2	2.44	0.52
4:CD:52:SER:O	4:CD:56:VAL:HG23	2.09	0.52
4:CD:57:ARG:NH2	5:CE:111:GLU:CD	2.63	0.52
1:CA:1298:C:H41	7:CG:115:ARG:HD3	1.60	0.52
7:CG:68:ASN:HB3	7:CG:135:VAL:HG22	1.91	0.52
8:CH:14:ARG:HH21	8:CH:83:ILE:C	2.13	0.52
9:CI:10:ARG:HG2	9:CI:75:ASP:OD2	2.09	0.52
9:CI:111:ARG:HG3	14:CN:61:TRP:CZ2	2.45	0.52
17:CQ:12:SER:HB3	17:CQ:20:THR:HB	1.90	0.52
47:D1:31:ILE:HG23	47:D1:32:HIS:N	2.20	0.52
22:DB:1044:U:OP2	52:D6:9:LYS:HG3	2.10	0.52
22:DB:156:G:H2'	22:DB:157:G:C8	2.44	0.52
22:DB:1686:A:O3'	22:DB:2528:G:H5'	2.09	0.52
22:DB:1816:G:N2	24:DD:252:LYS:HD3	2.22	0.52
22:DB:1971:C:H2'	22:DB:1972:G:C8	2.44	0.52
22:DB:2035:G:H4'	25:DE:143:GLN:N	2.24	0.52
22:DB:2063:A:H3'	22:DB:2064:U:C6	2.44	0.52
22:DB:2072:C:H42	22:DB:2073:A:N6	2.08	0.52
22:DB:2237:C:OP1	44:DX:10:SER:C	2.43	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:DB:2238:G:H2'	22:DB:2239:C:C6	2.44	0.52
22:DB:3197:U:C1'	22:DB:2181:A:C8	2.91	0.52
22:DB:224:G:H4'	22:DB:399:G:C5	2.44	0.52
22:DB:503:G:H5'	40:DT:30:TYR:HH	1.72	0.52
24:DD:10:THR:O	24:DD:12:SER:N	2.43	0.52
26:DF:177:VAL:O	26:DF:180:ILE:HG12	2.09	0.52
28:DH:96:ALA:HB1	28:DH:103:LEU:HD11	1.91	0.52
31:DK:84:ASN:HA	31:DK:152:ALA:HA	1.90	0.52
22:DB:1019:U:H5'	31:DK:63:ARG:HD2	1.91	0.52
32:DL:86:GLY:HA3	37:DQ:84:ALA:HA	1.90	0.52
32:DL:83:ARG:HB3	32:DL:89:ILE:HG13	1.90	0.52
34:DN:65:ILE:HD12	34:DN:103:VAL:O	2.09	0.52
1:EA:1468:A:H3'	1:EA:1469:G:C8	2.43	0.52
1:EA:514:C:H2'	1:EA:515:G:C8	2.44	0.52
1:EA:675:A:H2'	1:EA:675:A:N3	2.23	0.52
1:EA:973:G:H1'	10:EJ:54:PHE:CE2	2.45	0.52
1:EA:978:A:C2	1:EA:1319:A:H1'	2.44	0.52
1:EA:487:A:H2'	4:ED:131:ARG:NH1	2.24	0.52
7:EG:116:ALA:O	7:EG:120:ILE:HG13	2.09	0.52
8:EH:86:ILE:HB	8:EH:133:LEU:HD22	1.92	0.52
18:ER:34:TYR:O	18:ER:37:VAL:HG23	2.09	0.52
22:FB:1049:C:H42	22:FB:1129:A:N6	2.03	0.52
22:FB:1269:G:N2	26:FF:76:THR:OG1	2.39	0.52
22:FB:1654:A:O3'	22:FB:2689:C:H1'	2.10	0.52
22:FB:423:G:N2	22:FB:2386:G:C4	2.77	0.52
22:FB:204:A:N6	22:FB:2386:G:O4'	2.43	0.52
22:FB:2386:G:H2'	22:FB:2387:U:C6	2.44	0.52
22:FB:479:G:H5'	22:FB:810:U:OP1	2.09	0.52
22:FB:716:U:H3'	22:FB:717:G:P	2.49	0.52
22:FB:58:C:N3	22:FB:72:A:C2	2.75	0.52
22:FB:2294:U:C5'	27:FG:33:LYS:HZ2	2.18	0.52
28:FH:5:GLY:HA2	28:FH:66:GLY:HA2	1.91	0.52
30:FJ:125:ASN:HD22	30:FJ:126:THR:N	2.06	0.52
32:FL:114:VAL:HG13	32:FL:131:PRO:HD2	1.91	0.52
38:FR:111:ASP:HA	38:FR:114:ARG:HB2	1.91	0.52
22:FB:1630:A:N6	40:FT:109:ARG:O	2.42	0.52
41:FU:56:MET:HG2	41:FU:57:ASN:ND2	2.24	0.52
1:GA:1240:U:O4	7:GG:119:ARG:NH2	2.42	0.52
1:GA:1374:A:HO2'	1:GA:1375:A:H5'	1.74	0.52
1:GA:1467:G:H2'	1:GA:1468:A:H8	1.74	0.52
1:GA:1528:U:H4'	1:GA:1529:G:H21	1.74	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:GA:324:G:H22	1:GA:327:A:P	2.32	0.52
1:GA:325:A:H61	16:GP:25:ARG:NH1	2.06	0.52
1:GA:447:G:H1'	1:GA:487:A:H61	1.74	0.52
1:GA:514:C:H2'	1:GA:515:G:C8	2.44	0.52
1:GA:125:U:O3'	1:GA:605:U:H1'	2.10	0.52
2:GB:204:ASN:ND2	2:GB:205:ASP:H	2.08	0.52
2:GB:16:HIS:HE1	2:GB:213:LEU:HB3	1.74	0.52
1:GA:438:G:C5'	4:GD:123:HIS:CD2	2.84	0.52
4:GD:100:ARG:HH22	4:GD:137:SER:CB	2.21	0.52
5:GE:104:ALA:HA	5:GE:107:ARG:NH2	2.25	0.52
6:GF:35:ALA:O	6:GF:36:ARG:HD3	2.08	0.52
8:GH:112:LEU:HD22	8:GH:134:ILE:H	1.74	0.52
9:GI:28:VAL:HG13	9:GI:63:ILE:HG22	1.91	0.52
9:GI:70:LYS:HA	9:GI:73:GLN:HB2	1.90	0.52
1:GA:676:A:H4'	11:GK:115:PRO:HB3	1.92	0.52
1:GA:1226:C:C4'	13:GM:111:LYS:HE3	2.33	0.52
10:GJ:63:PHE:CZ	14:GN:45:ARG:O	2.63	0.52
19:GS:15:LEU:HD22	19:GS:33:THR:HG23	1.89	0.52
19:GS:36:ARG:HH21	19:GS:53:ASN:HA	1.73	0.52
22:HB:3175:C:O2'	53:H7:206:LYS:CD	2.57	0.52
22:HB:1889:G:OP2	22:HB:1913:G:P	2.68	0.52
22:HB:2181:A:N3	29:HI:24:TYR:CE2	2.74	0.52
22:HB:2048:C:H5''	22:HB:2231:G:H4'	1.92	0.52
22:HB:2333:A:O2'	44:HX:31:VAL:CG1	2.57	0.52
22:HB:2570:C:H2'	22:HB:2571:G:H8	1.74	0.52
22:HB:2619:G:OP1	31:HK:122:HIS:CD2	2.63	0.52
22:HB:1470:G:N1	22:HB:2683:C:N3	2.45	0.52
22:HB:2760:G:N3	31:HK:149:LYS:HD2	2.24	0.52
22:HB:514:G:N2	40:HT:14:ARG:CG	2.63	0.52
22:HB:573:C:H5'	38:HR:40:LEU:HG	1.91	0.52
22:HB:592:G:H2'	22:HB:593:C:C6	2.44	0.52
31:HK:135:LEU:C	31:HK:137:LYS:H	2.13	0.52
32:HL:113:PRO:CD	37:HQ:75:GLU:C	2.78	0.52
32:HL:123:PHE:HB2	32:HL:126:ILE:HB	1.90	0.52
32:HL:110:VAL:CG1	32:HL:131:PRO:HD3	2.39	0.52
35:HO:45:ARG:N	35:HO:46:PRO:CD	2.72	0.52
44:HX:29:GLU:H	44:HX:62:LEU:HB3	1.74	0.52
1:IA:1057:G:O4'	3:IC:196:LEU:HD23	2.09	0.52
1:IA:1058:G:OP2	3:IC:154:SER:O	2.26	0.52
1:IA:226:G:H2'	1:IA:227:G:C8	2.44	0.52
1:IA:597:G:N3	8:IH:94:TYR:CE2	2.78	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:IA:976:G:H22	1:IA:1362:C:H3'	1.74	0.52
2:IB:119:GLU:HG3	2:IB:153:ARG:HH22	1.74	0.52
2:IB:72:GLY:HA2	2:IB:165:VAL:HG22	1.90	0.52
4:ID:204:ILE:HG21	5:IE:101:ILE:HD11	1.91	0.52
6:IF:4:TYR:HA	6:IF:92:LYS:HA	1.92	0.52
7:IG:137:LYS:HA	7:IG:140:ASP:OD2	2.09	0.52
1:IA:1130:A:C2'	9:II:18:PHE:CZ	2.92	0.52
1:IA:705:U:O2	11:IK:29:ILE:CD1	2.56	0.52
13:IM:72:ALA:CB	27:JG:115:ARG:HH11	2.22	0.52
17:IQ:12:SER:HB3	17:IQ:20:THR:HB	1.90	0.52
13:IM:86:CYS:N	19:IS:74:PHE:CB	2.72	0.52
1:IA:187:G:C4'	20:IT:104:LEU:HA	2.39	0.52
47:J1:48:ARG:HD3	47:J1:49:PHE:O	2.09	0.52
22:JB:474:G:H3'	50:J4:5:TYR:CB	2.39	0.52
22:JB:474:G:C3'	50:J4:5:TYR:HB2	1.90	0.52
22:JB:3122:U:H2'	53:J7:158:LYS:NZ	2.25	0.52
53:J7:11:ALA:HA	53:J7:205:VAL:HG21	1.91	0.52
53:J7:206:LYS:HB2	53:J7:212:ALA:HA	1.92	0.52
22:JB:1016:C:H2'	22:JB:1017:C:C6	2.44	0.52
22:JB:1166:A:H2'	22:JB:1168:G:C8	2.44	0.52
22:JB:1287:A:H2'	22:JB:1288:A:OP2	2.08	0.52
22:JB:2075:U:O3'	22:JB:3093:C:P	2.68	0.52
22:JB:2238:G:H2'	22:JB:2239:C:C6	2.44	0.52
22:JB:2265:A:C8	49:J3:31:THR:CB	2.91	0.52
22:JB:2303:C:H4'	22:JB:2317:G:OP1	2.10	0.52
22:JB:2826:C:C1'	35:JO:61:HIS:CG	2.92	0.52
22:JB:464:G:H1'	22:JB:469:G:H21	1.73	0.52
22:JB:777:A:C2	22:JB:1781:C:H5'	2.43	0.52
22:JB:860:U:C2'	22:JB:861:G:H5'	2.39	0.52
25:JE:133:LYS:NZ	25:JE:133:LYS:HB2	2.25	0.52
22:JB:2464:G:C1'	34:JN:123:GLY:HA2	2.34	0.52
35:JO:100:VAL:HG12	35:JO:109:THR:HG22	1.91	0.52
22:JB:1174:G:N3	39:JS:87:ARG:O	2.43	0.52
44:JX:32:LYS:HA	44:JX:66:LYS:HZ2	1.74	0.52
1:AA:815:A:C5	1:AA:1529:G:C4	2.98	0.52
1:AA:331:G:H5''	1:AA:332:G:H8	1.74	0.52
1:AA:369:C:H2'	1:AA:370:C:C6	2.45	0.52
1:AA:877:C:C5'	8:AH:89:PRO:CG	2.88	0.52
2:AB:189:ASP:CB	2:AB:204:ASN:HA	2.38	0.52
3:AC:3:ASN:H	3:AC:3:ASN:ND2	2.07	0.52
5:AE:152:ARG:HA	8:AH:42:GLU:HB3	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:AE:79:GLU:HG3	5:AE:92:LYS:HA	1.92	0.52
1:AA:1230:C:H2'	13:AM:125:ARG:NH1	2.16	0.52
13:AM:44:ARG:HG3	13:AM:46:LYS:HD3	1.92	0.52
23:BA:58:G:H4'	23:BA:59:A:H5'	1.91	0.52
23:BA:78:A:N6	23:BA:104:A:H61	2.08	0.52
23:BA:92:G:N1	34:BN:39:GLU:CG	2.70	0.52
23:BA:93:G:H5''	34:BN:23:LYS:HZ1	1.63	0.52
22:BB:1075:C:OP1	30:BJ:84:ILE:HD11	2.10	0.52
22:BB:1077:U:H5'	22:BB:1078:A:OP2	2.09	0.52
22:BB:1565:G:H2'	22:BB:1566:G:H8	1.75	0.52
22:BB:1674:C:H2'	22:BB:1675:C:C6	2.45	0.52
1:AA:1496:C:O2	22:BB:1902:A:C2	2.62	0.52
22:BB:2204:A:H4'	22:BB:2205:C:O5'	2.08	0.52
22:BB:657:A:O2'	22:BB:2330:G:H5''	2.08	0.52
22:BB:331:U:O4	26:BF:134:ILE:HD13	2.08	0.52
22:BB:645:G:H2'	22:BB:646:C:C6	2.44	0.52
22:BB:820:U:C4	33:BM:40:ARG:CZ	2.92	0.52
22:BB:860:U:C2'	22:BB:861:G:H5'	2.39	0.52
26:BF:72:ARG:NE	26:BF:77:PHE:HB3	2.24	0.52
29:BI:9:SER:O	29:BI:10:ARG:HG3	2.09	0.52
22:BB:2795:A:OP1	35:BO:5:LYS:HD2	2.10	0.52
38:BR:18:LEU:HD11	38:BR:29:SER:O	2.09	0.52
41:BU:56:MET:HG2	41:BU:57:ASN:ND2	2.24	0.52
43:BW:69:VAL:HG12	43:BW:70:GLN:H	1.74	0.52
22:BB:940:G:C2	46:BZ:22:ALA:HA	2.44	0.52
1:CA:1146:A:C2	9:CI:18:PHE:HZ	2.28	0.52
3:CC:3:ASN:H	3:CC:3:ASN:ND2	2.07	0.52
8:CH:120:THR:O	8:CH:124:ALA:HB2	2.09	0.52
10:CJ:63:PHE:HD2	14:CN:57:ARG:O	1.93	0.52
11:CK:79:SER:HA	11:CK:104:GLN:CB	2.40	0.52
12:CL:41:ARG:O	12:CL:54:LYS:HA	2.10	0.52
12:CL:12:ARG:NH1	17:CQ:98:LEU:HD12	2.06	0.52
22:DB:15:G:N2	48:D2:18:MET:HG2	2.17	0.52
33:DM:61:PRO:HB3	51:D5:25:PHE:CE1	2.44	0.52
22:DB:1289:A:OP2	22:DB:1662:G:N3	2.42	0.52
22:DB:1674:C:H2'	22:DB:1675:C:C6	2.45	0.52
22:DB:2198:U:H2'	22:DB:2199:C:H4'	1.90	0.52
22:DB:2386:G:H2'	22:DB:2387:U:C6	2.44	0.52
22:DB:2034:A:H61	22:DB:2593:A:H1'	1.73	0.52
22:DB:2654:A:H2'	22:DB:2655:C:O4'	2.10	0.52
22:DB:2662:C:N3	25:DE:21:ILE:HD13	2.25	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:DB:3154:G:H2'	22:DB:3155:G:H8	1.74	0.52
22:DB:504:G:C4'	40:DT:25:PHE:CE2	2.92	0.52
22:DB:625:A:C4'	26:DF:38:ARG:NE	2.70	0.52
22:DB:649:G:O2'	22:DB:650:U:H5'	2.09	0.52
24:DD:165:VAL:HG22	24:DD:175:VAL:HG22	1.92	0.52
22:DB:2646:C:C4	28:DH:109:TYR:CB	2.92	0.52
32:DL:114:VAL:HG13	32:DL:131:PRO:HD2	1.92	0.52
33:DM:38:LYS:NZ	33:DM:43:ALA:HB1	2.24	0.52
34:DN:44:LYS:NZ	34:DN:44:LYS:HB3	2.25	0.52
22:DB:1290:A:C1'	35:DO:24:GLN:CB	2.86	0.52
41:DU:42:ILE:HB	41:DU:50:VAL:HG21	1.92	0.52
44:DX:32:LYS:HA	44:DX:66:LYS:HZ2	1.74	0.52
1:EA:1324:A:H2'	1:EA:1325:C:O4'	2.10	0.52
1:EA:1374:A:H2'	1:EA:1375:A:O4'	2.09	0.52
1:EA:1469:G:H2'	1:EA:1470:G:C8	2.44	0.52
1:EA:971:G:H3'	1:EA:971:G:OP1	2.09	0.52
6:EF:68:PRO:O	6:EF:72:VAL:HG23	2.10	0.52
8:EH:28:ALA:HB2	8:EH:58:TYR:O	2.09	0.52
1:EA:448:A:C2	16:EP:44:THR:CG2	2.92	0.52
1:EA:234:C:C3'	17:EQ:70:ARG:HE	2.22	0.52
1:EA:188:C:C5	20:ET:105:SER:OG	2.57	0.52
22:FB:394:U:H1'	47:F1:13:LYS:HZ1	1.73	0.52
22:FB:1998:A:C1'	48:F2:3:LYS:HZ1	2.17	0.52
22:FB:125:A:H62	50:F4:18:PHE:HE1	1.38	0.52
22:FB:1269:G:H2'	26:FF:76:THR:CG2	2.39	0.52
22:FB:1669:A:H62	22:FB:1670:G:N2	2.03	0.52
22:FB:1686:A:O3'	22:FB:2528:G:H5'	2.09	0.52
22:FB:1821:A:H3'	22:FB:1822:C:C6	2.44	0.52
22:FB:1975:G:H4'	22:FB:1976:U:C5	2.45	0.52
22:FB:2265:A:N9	49:F3:31:THR:CG2	2.72	0.52
22:FB:347:C:O2	42:FV:10:HIS:CG	2.59	0.52
22:FB:3876:A:C2	22:FB:3877:A:H1'	2.44	0.52
22:FB:510:G:C5	40:FT:15:LYS:O	2.62	0.52
22:FB:1884:A:C2	24:FD:244:ARG:CD	2.91	0.52
25:FE:7:THR:HB	25:FE:194:GLY:H	1.74	0.52
31:FK:49:VAL:HG11	31:FK:88:VAL:HA	1.90	0.52
22:FB:2448:A:C5'	34:FN:58:HIS:HE1	2.22	0.52
40:FT:127:ILE:HD11	40:FT:129:ALA:HB3	1.91	0.52
42:FV:30:LYS:HD3	42:FV:30:LYS:O	2.10	0.52
42:FV:96:LYS:HD3	42:FV:98:ILE:CD1	2.39	0.52
1:GA:1060:C:O2'	10:GJ:56:HIS:CG	2.62	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:GA:1064:G:H4'	1:GA:1065:U:H5'	1.90	0.52
1:GA:10:A:H1'	1:GA:507:C:O3'	2.09	0.52
1:GA:1157:A:H61	1:GA:1178:G:H1'	1.74	0.52
1:GA:581:G:O6	1:GA:758:G:H3'	2.09	0.52
1:GA:664:G:O2'	1:GA:665:A:H3'	2.09	0.52
1:GA:815:A:C8	1:GA:1508:G:N2	2.77	0.52
2:GB:178:ARG:NH2	2:GB:198:ASP:HA	2.25	0.52
2:GB:30:ARG:NH1	8:GH:75:ARG:NH1	2.52	0.52
3:GC:181:ASN:HD21	3:GC:204:LEU:HD22	1.74	0.52
3:GC:87:LEU:HB2	3:GC:101:LEU:HD11	1.91	0.52
5:GE:79:GLU:HG3	5:GE:92:LYS:HA	1.92	0.52
8:GH:120:THR:O	8:GH:124:ALA:HB2	2.09	0.52
8:GH:86:ILE:HB	8:GH:133:LEU:HD22	1.92	0.52
7:GG:16:LEU:CG	9:GI:42:ARG:NH1	2.72	0.52
1:GA:1248:A:N3	9:GI:70:LYS:CD	2.71	0.52
22:HB:1019:U:C3'	38:HR:59:ARG:HD2	2.39	0.52
22:HB:1077:U:H5'	22:HB:1078:A:OP2	2.10	0.52
22:HB:1166:A:P	38:HR:55:ARG:HH22	2.32	0.52
22:HB:1368:G:H2'	22:HB:1369:G:C8	2.44	0.52
22:HB:762:A:O2'	22:HB:1633:C:H1'	2.10	0.52
22:HB:1974:U:H3'	22:HB:1975:G:H5'	1.91	0.52
22:HB:1975:G:H4'	22:HB:1976:U:C5	2.45	0.52
22:HB:2288:A:H3'	22:HB:2289:A:H8	1.75	0.52
22:HB:2451:G:H3'	22:HB:2454:C:H42	1.74	0.52
22:HB:2633:A:C4'	22:HB:2634:G:H4'	2.39	0.52
22:HB:640:C:H2'	22:HB:641:G:O4'	2.10	0.52
22:HB:649:G:O2'	22:HB:650:U:H5'	2.09	0.52
22:HB:699:G:C6	50:H4:5:TYR:CB	2.82	0.52
22:HB:7:G:N2	22:HB:2871:U:N1	2.56	0.52
22:HB:860:U:C2'	22:HB:861:G:H5'	2.39	0.52
22:HB:913:A:H2'	22:HB:914:C:C5	2.45	0.52
22:HB:1582:A:H1'	24:HD:215:LEU:HD22	1.91	0.52
27:HG:17:MET:HA	27:HG:21:GLY:HA2	1.90	0.52
28:HH:5:GLY:HA2	28:HH:66:GLY:HA2	1.92	0.52
22:HB:2393:G:O2'	33:HM:66:ASN:OD1	2.27	0.52
22:HB:637:G:H21	33:HM:74:VAL:HG22	1.75	0.52
34:HN:125:LYS:O	34:HN:126:LEU:HD23	2.10	0.52
22:HB:2826:C:HO2'	35:HO:60:LEU:HB3	1.71	0.52
25:HE:54:LYS:HE2	37:HQ:6:LYS:HE3	0.57	0.52
38:HR:106:PHE:HA	38:HR:109:LEU:HB3	1.91	0.52
38:HR:18:LEU:HD11	38:HR:29:SER:O	2.09	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:HU:56:MET:HG2	41:HU:57:ASN:ND2	2.25	0.52
41:HU:27:PHE:HB2	41:HU:78:ALA:HB3	1.90	0.52
42:HV:36:VAL:HG12	42:HV:37:LEU:H	1.74	0.52
22:HB:1129:A:C4'	43:HW:76:ARG:HH12	1.90	0.52
22:HB:2334:C:O4'	44:HX:32:LYS:CD	2.57	0.52
1:IA:1060:C:P	3:IC:2:GLY:CA	2.84	0.52
1:IA:1064:G:H4'	1:IA:1065:U:H5'	1.90	0.52
1:IA:1157:A:H61	1:IA:1178:G:H1'	1.74	0.52
1:IA:1236:A:C4'	1:IA:1304:G:H4'	2.39	0.52
1:IA:1271:G:H5'	1:IA:1314:C:OP1	2.09	0.52
1:IA:1374:A:H2'	1:IA:1375:A:O4'	2.09	0.52
1:IA:1395:C:H5'	1:IA:1401:G:N2	2.21	0.52
1:IA:43:C:H5''	16:IP:11:SER:HB3	1.90	0.52
1:IA:581:G:O6	1:IA:758:G:H3'	2.09	0.52
1:IA:640:A:O3'	8:IH:127:LEU:HD12	1.95	0.52
1:IA:674:G:N2	1:IA:675:A:H62	2.08	0.52
3:IC:157:ILE:HD11	3:IC:164:ARG:HE	1.75	0.52
3:IC:57:ILE:HG22	3:IC:59:ARG:HG3	1.90	0.52
4:ID:100:ARG:O	4:ID:104:VAL:HG23	2.09	0.52
1:IA:973:G:H1'	10:IJ:54:PHE:HE2	1.67	0.52
1:IA:778:G:C1'	11:IK:120:ARG:H	2.19	0.52
1:IA:958:A:O4'	19:IS:55:LYS:NZ	2.43	0.52
53:J7:200:LEU:HD22	53:J7:201:ARG:N	2.22	0.52
22:JB:1260:A:O3'	38:JR:2:PRO:HB3	2.09	0.52
22:JB:15:G:H1'	48:J2:18:MET:CG	2.27	0.52
22:JB:1630:A:OP2	50:J4:3:ARG:CZ	2.57	0.52
22:JB:753:U:H1'	22:JB:1964:A:H1'	1.90	0.52
22:JB:2206:C:C4'	24:JD:262:LYS:HG2	2.40	0.52
22:JB:2048:C:H5''	22:JB:2231:G:H4'	1.92	0.52
22:JB:2240:C:H5''	44:JX:16:SER:CB	2.38	0.52
22:JB:2492:G:N1	22:JB:2549:G:O6	2.43	0.52
22:JB:2813:G:H4'	35:JO:42:LYS:HZ3	1.70	0.52
22:JB:3115:G:O6	22:JB:3118:U:H3'	2.10	0.52
22:JB:505:G:O4'	40:JT:78:ASN:ND2	2.42	0.52
22:JB:596:C:H5''	26:JF:84:PHE:CZ	2.44	0.52
22:JB:816:U:H2'	22:JB:817:A:H8	1.74	0.52
31:JK:139:ARG:NH2	31:JK:142:ARG:HB3	2.24	0.52
22:JB:2708:U:P	32:JL:82:LYS:CG	2.82	0.52
35:JO:45:ARG:C	35:JO:47:PHE:H	2.11	0.52
39:JS:32:LYS:CD	39:JS:63:HIS:H	2.22	0.52
42:JV:36:VAL:HG12	42:JV:37:LEU:H	1.74	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:JV:23:ILE:HB	42:JV:81:VAL:HG11	1.91	0.52
43:JW:69:VAL:HG12	43:JW:70:GLN:H	1.74	0.52
1:AA:1240:U:H5	7:AG:115:ARG:HB3	1.74	0.52
1:AA:1324:A:H2'	1:AA:1325:C:O4'	2.10	0.52
1:AA:620:C:C5'	4:AD:138:TYR:CZ	2.92	0.52
1:AA:674:G:N2	1:AA:675:A:H62	2.08	0.52
1:AA:675:A:H2'	1:AA:675:A:N3	2.23	0.52
1:AA:697:U:H3	1:AA:798:G:H1'	1.73	0.52
1:AA:958:A:O2'	19:AS:55:LYS:NZ	2.39	0.52
2:AB:204:ASN:ND2	2:AB:205:ASP:H	2.08	0.52
1:AA:828:A:H2	2:AB:24:TRP:HE1	1.57	0.52
5:AE:136:MET:HA	5:AE:139:LEU:HD12	1.92	0.52
1:AA:1298:C:N4	7:AG:114:ARG:HB3	2.24	0.52
1:AA:1374:A:O4'	7:AG:31:MET:CE	2.57	0.52
8:AH:112:LEU:HD22	8:AH:134:ILE:H	1.74	0.52
9:AI:10:ARG:HG2	9:AI:75:ASP:OD2	2.10	0.52
9:AI:28:VAL:HG13	9:AI:63:ILE:HG22	1.91	0.52
9:AI:70:LYS:HA	9:AI:73:GLN:HB2	1.90	0.52
11:AK:79:SER:HA	11:AK:104:GLN:CB	2.40	0.52
15:AO:57:LEU:HA	15:AO:60:VAL:HG23	1.91	0.52
16:AP:37:GLY:HA2	16:AP:50:LYS:O	2.08	0.52
22:BB:1032:A:H62	22:BB:1151:U:H3	1.57	0.52
22:BB:1885:C:H1'	24:BD:242:ALA:CA	2.30	0.52
22:BB:1954:A:C5	24:BD:239:ARG:CA	2.85	0.52
22:BB:1915:A:C2	22:BB:1956:G:H1'	2.45	0.52
22:BB:1971:C:H2'	22:BB:1972:G:C8	2.44	0.52
22:BB:2276:C:O2'	22:BB:2301:A:H1'	2.09	0.52
22:BB:2505:G:H5'	22:BB:2722:C:H5'	1.91	0.52
22:BB:2510:A:C1'	22:BB:2637:C:O2'	2.54	0.52
22:BB:2034:A:H61	22:BB:2593:A:H1'	1.74	0.52
22:BB:2600:A:H4'	25:BE:159:HIS:H	1.64	0.52
22:BB:2654:A:H2'	22:BB:2655:C:O4'	2.10	0.52
22:BB:8:A:N1	22:BB:2869:U:C2	2.78	0.52
22:BB:3115:G:O6	22:BB:3118:U:H3'	2.10	0.52
22:BB:3869:G:H2'	22:BB:3871:A:OP2	2.09	0.52
22:BB:505:G:H1'	40:BT:82:ASN:CB	2.26	0.52
22:BB:748:A:H61	22:BB:774:A:H1'	1.75	0.52
22:BB:930:A:H4'	22:BB:930:A:OP1	2.10	0.52
1:AA:711:G:C3'	24:BD:184:ARG:NH1	2.57	0.52
22:BB:2796:A:H5''	25:BE:110:GLY:CA	2.39	0.52
26:BF:163:ASN:HB2	26:BF:166:TRP:HB2	1.92	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:BB:2723:C:N1	28:BH:150:LYS:CE	2.72	0.52
30:BJ:111:LYS:HZ3	30:BJ:111:LYS:HB3	1.74	0.52
30:BJ:111:LYS:HE3	30:BJ:127:VAL:H	1.75	0.52
33:BM:38:LYS:NZ	33:BM:43:ALA:HB1	2.24	0.52
34:BN:27:TYR:CE2	43:BW:73:LYS:HA	2.45	0.52
22:BB:1669:A:P	35:BO:9:LYS:HZ3	2.32	0.52
36:BP:63:ASN:ND2	36:BP:64:LYS:H	2.08	0.52
39:BS:62:GLU:OE1	39:BS:98:ILE:HG22	2.09	0.52
41:BU:42:ILE:HB	41:BU:50:VAL:HG21	1.92	0.52
42:BV:30:LYS:O	42:BV:30:LYS:HD3	2.10	0.52
1:CA:1074:G:H4'	2:CB:104:ASN:CA	2.36	0.52
1:CA:1271:G:H5'	1:CA:1314:C:OP1	2.09	0.52
1:CA:1350:A:N7	9:CI:118:LYS:CE	2.71	0.52
1:CA:589:C:OP1	8:CH:31:PHE:HD2	1.89	0.52
1:CA:781:A:H4'	1:CA:1522:U:O2'	2.10	0.52
2:CB:115:LEU:O	2:CB:119:GLU:HB2	2.10	0.52
2:CB:74:LYS:HB2	2:CB:165:VAL:HG11	1.92	0.52
3:CC:132:ARG:CZ	4:CD:47:ARG:HH11	2.19	0.52
4:CD:100:ARG:HH22	4:CD:137:SER:CB	2.22	0.52
5:CE:105:VAL:HB	5:CE:106:PRO:HD3	1.90	0.52
1:CA:5:U:C5	5:CE:95:ALA:HB2	2.44	0.52
6:CF:68:PRO:O	6:CF:72:VAL:HG23	2.09	0.52
7:CG:95:ARG:O	7:CG:99:LEU:HG	2.09	0.52
8:CH:86:ILE:HB	8:CH:133:LEU:HD22	1.92	0.52
8:CH:31:PHE:HB3	8:CH:32:LYS:HE2	1.92	0.52
8:CH:39:LEU:HB3	8:CH:45:ILE:CG1	2.39	0.52
13:CM:92:HIS:CE1	13:CM:98:VAL:HG11	2.45	0.52
15:CO:16:ALA:HA	15:CO:26:GLU:HB2	1.90	0.52
17:CQ:54:GLY:H	17:CQ:85:VAL:CG2	2.23	0.52
1:CA:1220:G:O3'	19:CS:36:ARG:HD3	2.10	0.52
1:CA:108:G:H8	20:CT:12:ALA:CB	2.22	0.52
23:DA:10:U:C3'	36:DP:28:ARG:NH1	2.65	0.52
22:DB:1356:G:O2'	22:DB:1613:G:N7	2.36	0.52
22:DB:1746:A:P	37:DQ:126:LYS:OXT	2.67	0.52
22:DB:1821:A:H3'	22:DB:1822:C:C6	2.44	0.52
22:DB:1846:A:N3	22:DB:2211:U:O2'	2.41	0.52
22:DB:1829:C:O2'	22:DB:1910:A:C1'	2.58	0.52
22:DB:2229:G:H2'	34:DN:84:MET:CA	2.37	0.52
22:DB:2265:A:OP2	49:D3:28:ARG:HB3	2.09	0.52
22:DB:2303:C:H4'	22:DB:2317:G:OP1	2.09	0.52
22:DB:2451:G:H3'	22:DB:2454:C:H42	1.74	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:DB:2492:G:OP1	25:DE:120:TRP:CH2	2.61	0.52
22:DB:2633:A:C4'	22:DB:2634:G:H4'	2.39	0.52
22:DB:537:C:C4	22:DB:2759:U:H2'	2.44	0.52
22:DB:2856:U:H4'	35:DO:94:TYR:N	2.19	0.52
22:DB:748:A:H61	22:DB:774:A:H1'	1.75	0.52
22:DB:479:G:H5'	22:DB:810:U:OP1	2.10	0.52
24:DD:72:LYS:HZ3	24:DD:75:VAL:CG2	2.21	0.52
22:DB:1674:C:H3'	25:DE:134:TRP:NE1	2.23	0.52
26:DF:97:ARG:HD2	26:DF:100:ARG:HH22	1.75	0.52
27:DG:175:LEU:H	27:DG:176:PRO:CD	2.23	0.52
29:DI:7:GLU:OE2	29:DI:34:LEU:HA	2.09	0.52
36:DP:63:ASN:ND2	36:DP:64:LYS:H	2.08	0.52
38:DR:106:PHE:HA	38:DR:109:LEU:HB3	1.91	0.52
22:DB:1355:A:OP1	41:DU:56:MET:CB	2.58	0.52
43:DW:123:VAL:O	43:DW:159:THR:HG23	2.09	0.52
1:EA:1520:G:H2'	1:EA:1521:G:C8	2.44	0.52
1:EA:234:C:H4'	17:EQ:70:ARG:CZ	2.39	0.52
1:EA:546:G:N1	4:ED:2:GLY:CA	2.72	0.52
1:EA:674:G:N2	1:EA:675:A:H62	2.08	0.52
1:EA:707:C:H5''	11:EK:85:ARG:CZ	2.39	0.52
1:EA:992:U:H1'	1:EA:993:G:C2	2.45	0.52
3:EC:119:ARG:O	3:EC:123:GLN:HG3	2.10	0.52
4:ED:100:ARG:HH22	4:ED:137:SER:CB	2.22	0.52
1:EA:613:C:C4'	4:ED:86:LYS:HZ1	2.19	0.52
4:ED:205:GLU:HG3	5:EE:101:ILE:CG1	2.38	0.52
5:EE:17:ALA:HA	5:EE:26:PHE:HB3	1.91	0.52
5:EE:81:GLU:OE1	5:EE:90:VAL:HA	2.09	0.52
8:EH:120:THR:O	8:EH:124:ALA:HB2	2.10	0.52
1:EA:1525:G:O5'	11:EK:127:LYS:NZ	2.42	0.52
1:EA:684:A:HO2'	11:EK:40:ILE:HA	1.74	0.52
10:EJ:62:HIS:CD2	14:EN:61:TRP:CH2	2.97	0.52
16:EP:37:GLY:HA2	16:EP:50:LYS:O	2.09	0.52
22:FB:2373:C:O2	47:F1:28:ARG:NH1	2.42	0.52
50:F4:25:LYS:HA	50:F4:25:LYS:NZ	2.23	0.52
23:FA:14:C:C4	44:FX:53:MET:HA	2.45	0.52
22:FB:1674:C:H2'	22:FB:1675:C:C6	2.45	0.52
22:FB:1902:A:H2'	22:FB:1902:A:N3	2.24	0.52
22:FB:1922:U:H1'	22:FB:2571:G:O4'	2.09	0.52
22:FB:2258:G:N3	22:FB:2306:A:N3	2.57	0.52
22:FB:2288:A:H3'	22:FB:2289:A:H8	1.75	0.52
22:FB:2276:C:O2'	22:FB:2301:A:H1'	2.09	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:FB:2308:A:H2'	22:FB:2309:G:H8	1.74	0.52
22:FB:2225:G:N2	22:FB:2405:A:O2'	2.43	0.52
22:FB:2533:U:H3'	22:FB:2534:U:P	2.50	0.52
22:FB:2716:G:N1	22:FB:2748:C:N3	2.49	0.52
22:FB:2769:C:C2'	22:FB:2867:G:C2	2.92	0.52
22:FB:409:G:H5''	47:F1:10:VAL:HG21	1.92	0.52
22:FB:577:U:H2'	22:FB:579:G:N7	2.25	0.52
22:FB:7:G:H4'	31:FK:161:GLN:CA	2.40	0.52
22:FB:860:U:O2'	22:FB:861:G:H5'	2.10	0.52
22:FB:742:G:C6	24:FD:208:LYS:CD	2.93	0.52
24:FD:72:LYS:HZ3	24:FD:75:VAL:CG2	2.21	0.52
25:FE:133:LYS:NZ	25:FE:133:LYS:HB2	2.25	0.52
27:FG:160:ALA:HB1	27:FG:165:GLU:C	2.29	0.52
31:FK:135:LEU:O	31:FK:137:LYS:N	2.42	0.52
32:FL:76:ARG:HB3	32:FL:90:ARG:NH1	2.25	0.52
37:FQ:101:ARG:HB2	37:FQ:104:LEU:HD11	1.92	0.52
38:FR:18:LEU:HD11	38:FR:29:SER:O	2.09	0.52
38:FR:61:TRP:O	38:FR:62:ILE:HG23	2.10	0.52
41:FU:42:ILE:HB	41:FU:50:VAL:HG21	1.91	0.52
23:FA:97:C:P	43:FW:11:LYS:HD3	2.49	0.52
43:FW:11:LYS:HE3	43:FW:11:LYS:HA	1.92	0.52
1:GA:1057:G:H4'	3:GC:196:LEU:HA	1.90	0.52
1:GA:1265:G:H3'	1:GA:1266:G:H8	1.73	0.52
1:GA:1236:A:C4'	1:GA:1304:G:H4'	2.40	0.52
1:GA:1324:A:H2'	1:GA:1325:C:O4'	2.10	0.52
1:GA:1374:A:H2'	1:GA:1375:A:O4'	2.09	0.52
1:GA:674:G:N2	1:GA:675:A:H62	2.08	0.52
3:GC:35:GLU:O	3:GC:39:ILE:HG13	2.09	0.52
1:GA:541:G:O2'	4:GD:43:HIS:HD2	1.92	0.52
6:GF:68:PRO:O	6:GF:72:VAL:HG23	2.10	0.52
8:GH:14:ARG:HH21	8:GH:83:ILE:C	2.13	0.52
8:GH:4:ASP:O	8:GH:8:ASP:HB2	2.09	0.52
9:GI:10:ARG:HB3	9:GI:72:GLY:O	2.09	0.52
22:HB:1141:U:H1'	22:HB:1142:G:N7	2.24	0.52
22:HB:236:C:H1'	22:HB:632:A:C4'	2.40	0.52
22:HB:2462:C:H2'	22:HB:2463:G:O4'	2.09	0.52
22:HB:360:A:H2'	22:HB:361:G:O4'	2.10	0.52
22:HB:464:G:H1'	22:HB:469:G:H21	1.73	0.52
22:HB:777:A:C2	22:HB:1781:C:H5'	2.43	0.52
24:HD:246:PRO:HB3	24:HD:252:LYS:HG2	1.91	0.52
25:HE:118:LYS:HA	25:HE:118:LYS:NZ	2.24	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:HF:39:ARG:HA	26:HF:39:ARG:NE	2.24	0.52
23:HA:59:A:H4'	27:HG:23:SER:CB	2.38	0.52
27:HG:32:GLU:OE2	27:HG:33:LYS:HG3	2.10	0.52
22:HB:2725:C:H5'	28:HH:142:GLY:HA3	1.91	0.52
28:HH:55:PRO:HD2	28:HH:61:HIS:NE2	2.24	0.52
31:HK:110:LEU:CG	31:HK:111:LYS:H	2.23	0.52
32:HL:114:VAL:HG13	32:HL:131:PRO:HD2	1.92	0.52
32:HL:91:PHE:CD1	37:HQ:79:ARG:CG	2.89	0.52
32:HL:91:PHE:CG	37:HQ:79:ARG:CD	2.92	0.52
22:HB:762:A:H3'	40:HT:110:ALA:C	2.26	0.52
41:HU:16:ALA:HA	41:HU:20:MET:HB2	1.92	0.52
1:IA:1117:G:C4	9:II:106:ALA:HB1	2.39	0.52
1:IA:1528:U:H4'	1:IA:1529:G:H21	1.75	0.52
1:IA:324:G:H22	1:IA:327:A:P	2.32	0.52
1:IA:331:G:H5''	1:IA:332:G:H8	1.73	0.52
1:IA:719:C:C2	18:IR:74:ARG:NH2	2.67	0.52
1:IA:879:C:H2'	1:IA:880:C:C6	2.44	0.52
3:IC:186:PHE:HZ	3:IC:188:LEU:HD23	1.74	0.52
3:IC:87:LEU:HB2	3:IC:101:LEU:HD11	1.91	0.52
7:IG:46:ALA:CB	7:IG:120:ILE:HG21	2.39	0.52
7:IG:95:ARG:O	7:IG:99:LEU:HG	2.09	0.52
8:IH:86:ILE:HB	8:IH:133:LEU:HD22	1.92	0.52
1:IA:824:C:C2'	8:IH:3:THR:CG2	2.78	0.52
22:JB:2371:A:OP1	51:J5:29:LYS:CG	2.57	0.52
53:J7:32:ILE:CG2	53:J7:167:VAL:H	2.23	0.52
23:JA:78:A:N6	23:JA:104:A:H61	2.08	0.52
22:JB:1018:C:H2'	22:JB:1019:U:H5	1.75	0.52
22:JB:1039:A:C2	22:JB:2466:G:O4'	2.63	0.52
22:JB:1075:C:H5''	30:JJ:84:ILE:HG23	1.89	0.52
22:JB:1368:G:H2'	22:JB:1369:G:C8	2.45	0.52
22:JB:1394:G:N2	22:JB:1588:A:C2	2.78	0.52
22:JB:762:A:O2'	22:JB:1633:C:H1'	2.10	0.52
22:JB:1806:G:H5''	22:JB:1807:A:H2'	1.89	0.52
22:JB:2239:C:H3'	44:JX:14:ARG:NH2	2.23	0.52
22:JB:2276:C:O2'	22:JB:2301:A:H1'	2.10	0.52
22:JB:1139:A:N6	22:JB:2469:G:C5'	2.73	0.52
22:JB:1938:U:O4	22:JB:2531:U:H1'	2.10	0.52
22:JB:360:A:H2'	22:JB:361:G:O4'	2.10	0.52
22:JB:491:A:C8	42:JV:53:VAL:CG1	2.93	0.52
22:JB:572:G:N2	38:JR:33:ARG:HD3	2.23	0.52
22:JB:640:C:H2'	22:JB:641:G:O4'	2.10	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:JB:748:A:H61	22:JB:774:A:H1'	1.75	0.52
22:JB:795:A:C2	24:JD:53:PHE:HE1	2.26	0.52
27:JG:148:LYS:CD	27:JG:149:THR:H	2.20	0.52
28:JH:55:PRO:HD2	28:JH:61:HIS:NE2	2.24	0.52
22:JB:1072:U:C2'	30:JJ:11:GLN:HE22	2.19	0.52
30:JJ:111:LYS:HE3	30:JJ:127:VAL:H	1.75	0.52
22:JB:1019:U:OP2	31:JK:63:ARG:NH2	2.42	0.52
31:JK:74:MET:HG3	31:JK:75:ILE:HD13	1.90	0.52
33:JM:38:LYS:NZ	33:JM:43:ALA:HB1	2.24	0.52
33:JM:59:ARG:O	33:JM:60:LEU:CB	2.51	0.52
36:JP:94:TYR:HD1	36:JP:95:LYS:HG2	1.75	0.52
41:JU:42:ILE:HB	41:JU:50:VAL:HG21	1.92	0.52
42:JV:30:LYS:HD3	42:JV:30:LYS:O	2.10	0.52
43:JW:124:ALA:HB2	43:JW:160:LEU:H	1.75	0.52
1:AA:1111:A:H2'	1:AA:1112:C:C5	2.44	0.52
1:AA:1308:U:P	13:AM:97:PRO:CB	2.82	0.52
1:AA:1528:U:H4'	1:AA:1529:G:H21	1.74	0.52
1:AA:182:U:H1'	1:GA:189:A:H62	1.75	0.52
1:AA:281:G:H5''	17:AQ:40:LYS:HE2	1.91	0.52
1:AA:985:C:C3'	19:AS:55:LYS:HZ1	2.22	0.52
3:AC:186:PHE:HZ	3:AC:188:LEU:HD23	1.74	0.52
3:AC:151:VAL:HG13	3:AC:200:ALA:HA	1.90	0.52
6:AF:51:PRO:HA	6:AF:56:PRO:HA	1.91	0.52
8:AH:89:PRO:HA	8:AH:92:ARG:NH1	2.24	0.52
9:AI:75:ASP:C	9:AI:77:ILE:H	2.13	0.52
1:AA:273:A:C1'	17:AQ:16:GLN:N	2.73	0.52
1:AA:265:G:N2	17:AQ:64:PRO:CB	2.72	0.52
19:AS:33:THR:HB	19:AS:51:VAL:HG22	1.92	0.52
22:BB:1998:A:N3	48:B2:3:LYS:HD2	2.25	0.52
22:BB:1291:G:H2'	22:BB:1292:A:C8	2.44	0.52
22:BB:2310:G:H4'	44:BX:71:ASN:N	2.24	0.52
22:BB:1654:A:O3'	22:BB:2689:C:H1'	2.10	0.52
22:BB:3876:A:C2	22:BB:3877:A:H1'	2.44	0.52
22:BB:545:C:O2'	38:BR:53:LYS:CE	2.56	0.52
22:BB:675:C:H5'	33:BM:26:THR:CG2	2.36	0.52
22:BB:677:G:C4'	22:BB:951:G:C4'	2.81	0.52
24:BD:176:ARG:NH1	24:BD:176:ARG:HB3	2.25	0.52
25:BE:133:LYS:NZ	25:BE:133:LYS:HB2	2.25	0.52
22:BB:2599:U:O2'	25:BE:157:ALA:O	2.27	0.52
22:BB:2753:C:OP1	25:BE:164:ARG:HG2	2.09	0.52
29:BI:7:GLU:OE2	29:BI:34:LEU:HA	2.09	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:BK:116:ARG:NH1	31:BK:123:PRO:HG3	2.24	0.52
31:BK:120:SER:HA	31:BK:123:PRO:HG2	1.92	0.52
31:BK:122:HIS:O	31:BK:124:GLU:HG2	2.10	0.52
31:BK:122:HIS:N	31:BK:123:PRO:HD2	2.24	0.52
36:BP:94:TYR:HD1	36:BP:95:LYS:HG2	1.75	0.52
22:BB:505:G:H4'	40:BT:78:ASN:HB3	1.85	0.52
1:CA:1028:C:H2'	1:CA:1029:U:C4'	2.38	0.52
1:CA:1520:G:H2'	1:CA:1521:G:C8	2.45	0.52
1:CA:514:C:H2'	1:CA:515:G:C8	2.44	0.52
1:CA:519:C:H5'	12:CL:51:ALA:HA	0.77	0.52
1:CA:520:A:C3'	12:CL:53:ARG:HE	2.22	0.52
1:CA:674:G:N2	1:CA:675:A:H62	2.08	0.52
1:CA:942:G:H21	9:CI:124:GLN:HB3	1.75	0.52
1:CA:992:U:H1'	1:CA:993:G:C2	2.45	0.52
2:CB:16:HIS:HE1	2:CB:213:LEU:HB3	1.74	0.52
3:CC:151:VAL:HG13	3:CC:200:ALA:HA	1.90	0.52
4:CD:208:SER:OG	5:CE:101:ILE:CG2	2.57	0.52
1:CA:509:A:C5'	4:CD:54:TYR:HD2	2.22	0.52
6:CF:4:TYR:HA	6:CF:92:LYS:HA	1.92	0.52
7:CG:92:SER:O	7:CG:96:GLN:HG3	2.10	0.52
1:CA:1367:C:H5'	10:CJ:60:ARG:CZ	2.40	0.52
13:CM:44:ARG:HG3	13:CM:46:LYS:HD3	1.92	0.52
1:CA:668:G:O4'	15:CO:48:LYS:N	2.42	0.52
16:CP:71:ARG:NE	16:CP:74:LEU:HB2	2.25	0.52
19:CS:33:THR:HB	19:CS:51:VAL:HG22	1.92	0.52
22:DB:2039:G:C2	48:D2:3:LYS:C	2.74	0.52
49:D3:39:LYS:HE3	49:D3:40:TYR:H	1.74	0.52
23:DA:78:A:N6	23:DA:104:A:H61	2.08	0.52
22:DB:1238:A:O3'	39:DS:73:LYS:CB	2.58	0.52
22:DB:1239:A:OP2	39:DS:73:LYS:HG3	2.08	0.52
22:DB:1285:A:H1'	22:DB:1634:A:N3	2.25	0.52
22:DB:1654:A:O3'	22:DB:2689:C:H1'	2.10	0.52
22:DB:1669:A:H62	22:DB:1670:G:N2	2.04	0.52
22:DB:2288:A:H3'	22:DB:2289:A:H8	1.75	0.52
22:DB:2426:G:H1	22:DB:2430:A:N6	2.07	0.52
22:DB:2500:C:O2	22:DB:2543:A:C2	2.62	0.52
22:DB:2553:G:O2'	25:DE:143:GLN:HG2	2.08	0.52
22:DB:2716:G:C6	22:DB:2749:A:C4	2.97	0.52
22:DB:2766:U:H5'	25:DE:66:HIS:N	2.25	0.52
22:DB:3869:G:H2'	22:DB:3871:A:OP2	2.09	0.52
22:DB:574:C:OP2	39:DS:80:TYR:N	2.42	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:DB:577:U:H2'	22:DB:579:G:N7	2.25	0.52
25:DE:63:MET:HB2	25:DE:64:GLN:NE2	2.25	0.52
26:DF:163:ASN:HB2	26:DF:166:TRP:HB2	1.92	0.52
26:DF:33:TRP:HA	26:DF:36:ALA:HB3	1.90	0.52
27:DG:170:LEU:HD12	27:DG:170:LEU:H	1.74	0.52
22:DB:2292:C:C5'	27:DG:87:ILE:HD11	2.38	0.52
30:DJ:119:SER:N	30:DJ:123:ALA:HB2	2.25	0.52
31:DK:42:VAL:HG13	31:DK:166:LEU:HG	1.91	0.52
31:DK:61:ARG:HA	31:DK:65:LYS:HB2	1.91	0.52
32:DL:76:ARG:HB3	32:DL:90:ARG:NH1	2.25	0.52
33:DM:140:VAL:HG13	33:DM:141:VAL:N	2.17	0.52
25:DE:176:ARG:HH12	37:DQ:12:LEU:HA	1.67	0.52
22:DB:512:A:H5'	40:DT:15:LYS:CG	2.31	0.52
1:EA:10:A:H1'	1:EA:507:C:O3'	2.09	0.52
1:EA:407:G:O4'	4:ED:116:GLN:HG3	2.10	0.52
1:EA:500:G:H2'	1:EA:501:C:C6	2.45	0.52
2:EB:102:LEU:HB2	2:EB:176:GLU:OE1	2.09	0.52
3:EC:19:GLU:OE2	14:EN:51:GLY:O	2.27	0.52
3:EC:23:TYR:HB3	10:EJ:92:THR:HG23	1.88	0.52
4:ED:15:GLU:HG3	4:ED:63:LYS:HG3	1.92	0.52
1:EA:8:A:C3'	5:EE:121:LYS:HZ2	2.22	0.52
1:EA:1080:A:H5''	5:EE:16:THR:OG1	2.10	0.52
8:EH:4:ASP:O	8:EH:8:ASP:HB2	2.09	0.52
9:EI:121:ARG:HH11	9:EI:121:ARG:HG2	1.74	0.52
9:EI:75:ASP:C	9:EI:77:ILE:H	2.13	0.52
10:EJ:10:GLY:HA3	10:EJ:16:LEU:CD2	2.40	0.52
53:F7:34:LEU:HD13	53:F7:165:VAL:HB	1.92	0.52
53:F7:53:PRO:HA	53:F7:154:SER:HB3	1.91	0.52
22:FB:1047:G:H2'	22:FB:1048:U:H5'	1.91	0.52
22:FB:1289:A:C2	35:FO:23:ALA:C	2.60	0.52
22:FB:2240:C:C5'	44:FX:15:ASP:O	2.58	0.52
22:FB:2256:G:O2'	34:FN:14:PHE:CE1	2.52	0.52
22:FB:2261:G:H1	22:FB:2404:A:C1'	2.19	0.52
22:FB:2303:C:H4'	22:FB:2317:G:OP1	2.10	0.52
22:FB:2034:A:H61	22:FB:2593:A:H1'	1.74	0.52
22:FB:2654:A:H2'	22:FB:2655:C:O4'	2.10	0.52
22:FB:2716:G:C4	22:FB:2748:C:N3	2.76	0.52
22:FB:2:G:N2	22:FB:2875:C:C2	2.63	0.52
22:FB:427:C:O3'	22:FB:3865:A:C2	2.63	0.52
22:FB:538:A:N7	31:FK:142:ARG:CZ	2.72	0.52
22:FB:645:G:H2'	22:FB:646:C:C6	2.45	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:FD:183:ARG:HB3	24:FD:270:ILE:HG22	1.92	0.52
24:FD:70:ARG:O	24:FD:70:ARG:HD3	2.10	0.52
25:FE:118:LYS:HA	25:FE:118:LYS:NZ	2.24	0.52
29:FI:9:SER:O	29:FI:10:ARG:HG3	2.09	0.52
32:FL:123:PHE:HB2	32:FL:126:ILE:HB	1.91	0.52
36:FP:5:THR:O	36:FP:9:ARG:HB3	2.10	0.52
23:FA:49:C:H5'	36:FP:95:LYS:HG3	1.91	0.52
22:FB:934:G:H21	44:FX:25:LYS:HG3	1.73	0.52
44:FX:43:THR:HG21	44:FX:46:LYS:HG2	1.92	0.52
1:GA:1199:U:O4'	10:GJ:54:PHE:HB3	2.09	0.52
1:GA:132:C:C4'	20:GT:74:LYS:CE	2.83	0.52
1:GA:400:C:O3'	4:GD:73:ARG:NH2	2.42	0.52
1:GA:559:A:N1	5:GE:126:ARG:CD	2.72	0.52
1:GA:593:G:H2'	1:GA:594:G:O4'	2.10	0.52
1:GA:694:A:O5'	11:GK:53:SER:CA	2.57	0.52
1:GA:697:U:H1'	1:GA:785:G:O2'	2.10	0.52
1:GA:976:G:H22	1:GA:1362:C:H3'	1.74	0.52
4:GD:100:ARG:O	4:GD:104:VAL:HG23	2.10	0.52
5:GE:136:MET:HA	5:GE:139:LEU:HD12	1.92	0.52
5:GE:81:GLU:OE1	5:GE:90:VAL:HA	2.09	0.52
7:GG:68:ASN:ND2	7:GG:127:ALA:HB1	2.25	0.52
13:GM:19:LEU:HD13	13:GM:30:ALA:C	2.30	0.52
13:GM:23:TYR:CD2	13:GM:67:GLU:HG2	2.43	0.52
13:GM:81:LEU:HD13	13:GM:88:ARG:NH1	2.25	0.52
13:GM:88:ARG:CZ	13:GM:99:ARG:HG3	2.39	0.52
13:GM:92:HIS:CE1	13:GM:98:VAL:HG11	2.45	0.52
15:GO:57:LEU:HA	15:GO:60:VAL:HG23	1.92	0.52
17:GQ:43:LEU:HB3	17:GQ:69:LYS:HZ1	1.75	0.52
53:H7:32:ILE:CG2	53:H7:167:VAL:H	2.23	0.52
22:HB:1166:A:C5	22:HB:1168:G:C5	2.98	0.52
22:HB:1004:A:N3	22:HB:1173:G:C2	2.77	0.52
22:HB:1486:A:N1	22:HB:1536:G:N3	2.57	0.52
22:HB:1681:A:N3	22:HB:2706:U:C2	2.78	0.52
22:HB:2276:C:O2'	22:HB:2301:A:H1'	2.10	0.52
22:HB:2334:C:N1	44:HX:32:LYS:CE	2.59	0.52
22:HB:2638:G:N7	28:HH:181:GLY:CA	2.72	0.52
22:HB:2653:A:H1'	32:HL:41:ASN:ND2	2.24	0.52
22:HB:2749:A:C8	31:HK:121:LYS:CE	2.92	0.52
22:HB:2606:G:C5	22:HB:2757:G:O6	2.63	0.52
22:HB:2825:A:C5	22:HB:2844:G:H1'	2.45	0.52
22:HB:2848:A:H1'	35:HO:6:ALA:C	2.30	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:HB:57:G:C4	22:HB:72:A:N1	2.78	0.52
22:HB:79:G:H4'	22:HB:356:A:C2	2.45	0.52
22:HB:63:A:N1	22:HB:89:A:N1	2.57	0.52
24:HD:70:ARG:HD3	24:HD:70:ARG:O	2.10	0.52
29:HI:17:VAL:O	29:HI:17:VAL:HG13	2.10	0.52
42:HV:48:VAL:HG13	42:HV:50:GLY:N	2.22	0.52
22:HB:888:G:C1'	43:HW:165:GLU:OE1	2.48	0.52
1:IA:1531:A:H2'	1:IA:1532:U:O4'	2.08	0.52
1:IA:296:U:C2'	1:IA:297:G:H5'	2.39	0.52
1:IA:671:G:H21	6:IF:80:ARG:NH1	2.04	0.52
1:IA:1190:G:N7	3:IC:3:ASN:HB2	2.25	0.52
3:IC:3:ASN:H	3:IC:3:ASN:ND2	2.07	0.52
4:ID:25:ARG:NH1	4:ID:31:CYS:HB2	2.24	0.52
4:ID:85:LYS:HD3	4:ID:92:VAL:HG21	1.91	0.52
6:IF:43:LEU:HD21	18:IR:35:ARG:CA	2.37	0.52
3:IC:23:TYR:CD2	10:IJ:92:THR:HG22	2.44	0.52
15:IO:16:ALA:HB1	15:IO:21:ASP:CB	2.37	0.52
19:IS:43:GLU:HG3	19:IS:44:MET:N	2.23	0.52
23:JA:58:G:H4'	23:JA:59:A:H5'	1.92	0.52
22:JB:1428:G:H4'	22:JB:1429:A:H4'	1.92	0.52
22:JB:226:C:H42	22:JB:2374:C:H4'	1.57	0.52
22:JB:428:A:N1	22:JB:2388:G:C6	2.78	0.52
22:JB:2633:A:C4'	22:JB:2634:G:H4'	2.39	0.52
22:JB:2725:C:H42	22:JB:2740:C:N4	2.06	0.52
22:JB:47:G:C4	22:JB:155:G:O6	2.62	0.52
22:JB:512:A:H5'	40:JT:16:GLN:HB2	1.91	0.52
22:JB:577:U:H2'	22:JB:579:G:N7	2.25	0.52
22:JB:579:G:OP1	22:JB:983:G:H4'	2.10	0.52
22:JB:713:G:H2'	22:JB:714:G:C8	2.44	0.52
24:JD:245:VAL:HG11	24:JD:249:PRO:HD3	1.92	0.52
22:JB:786:U:O2'	24:JD:49:ILE:N	2.41	0.52
22:JB:1692:C:N3	25:JE:129:HIS:CE1	2.78	0.52
26:JF:39:ARG:NE	26:JF:39:ARG:HA	2.24	0.52
30:JJ:119:SER:N	30:JJ:123:ALA:HB2	2.25	0.52
32:JL:114:VAL:HG13	32:JL:131:PRO:HD2	1.92	0.52
32:JL:83:ARG:HB3	32:JL:89:ILE:HG13	1.91	0.52
22:JB:846:A:H5'	33:JM:52:GLY:O	2.08	0.52
33:JM:56:LEU:HD23	33:JM:57:ILE:N	2.20	0.52
34:JN:99:LYS:N	34:JN:100:PRO:HD3	2.24	0.52
36:JP:5:THR:O	36:JP:9:ARG:HB3	2.10	0.52
37:JQ:39:VAL:HG12	37:JQ:41:GLU:H	1.75	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:JB:512:A:H5''	40:JT:15:LYS:O	2.10	0.52
41:JU:56:MET:HG2	41:JU:57:ASN:ND2	2.25	0.52
43:JW:11:LYS:HE3	43:JW:11:LYS:HA	1.91	0.52
22:JB:108:G:N3	45:JY:59:GLU:CA	2.52	0.52
1:AA:569:C:H1'	1:AA:574:A:H2'	1.92	0.52
1:AA:879:C:H2'	1:AA:880:C:C6	2.44	0.52
1:AA:8:A:C4	5:AE:107:ARG:NH2	2.77	0.52
1:AA:992:U:H1'	1:AA:993:G:C2	2.45	0.52
1:AA:1102:A:O2'	2:AB:98:LEU:HB3	2.10	0.52
4:AD:128:VAL:HG12	4:AD:129:ASN:H	1.74	0.52
5:AE:78:HIS:NE2	5:AE:143:ARG:HB2	2.24	0.52
7:AG:92:SER:O	7:AG:96:GLN:HG3	2.10	0.52
5:AE:80:ILE:HB	8:AH:138:TRP:CH2	2.44	0.52
9:AI:50:LEU:HD22	9:AI:56:LEU:N	2.25	0.52
17:AQ:64:PRO:HB3	17:AQ:70:ARG:NH2	2.25	0.52
1:AA:1457:A:C5'	20:AT:27:LYS:HG2	2.35	0.52
51:B5:9:MET:O	51:B5:14:ILE:HD11	2.09	0.52
53:B7:34:LEU:HD13	53:B7:165:VAL:HB	1.92	0.52
22:BB:106:G:O2'	22:BB:358:C:H1'	2.10	0.52
22:BB:1483:G:C6	22:BB:1539:U:N3	2.69	0.52
22:BB:1583:A:C2'	24:BD:84:TYR:CE1	2.69	0.52
22:BB:762:A:O2'	22:BB:1633:C:H1'	2.10	0.52
22:BB:2288:A:H3'	22:BB:2289:A:H8	1.75	0.52
22:BB:2426:G:H1	22:BB:2430:A:N6	2.07	0.52
22:BB:2633:A:C4'	22:BB:2634:G:H4'	2.39	0.52
22:BB:2661:G:O2'	25:BE:11:MET:HE3	2.08	0.52
22:BB:2795:A:N7	25:BE:192:ASN:OD1	2.43	0.52
22:BB:105:G:H4'	22:BB:304:A:H2'	1.91	0.52
22:BB:3867:G:H4'	53:B7:42:LYS:HB3	1.88	0.52
22:BB:577:U:H2'	22:BB:579:G:N7	2.25	0.52
22:BB:816:U:H2'	22:BB:817:A:H8	1.74	0.52
22:BB:860:U:O2'	22:BB:861:G:H5'	2.10	0.52
25:BE:8:LYS:HB2	37:BQ:3:THR:CB	2.33	0.52
26:BF:97:ARG:HD2	26:BF:100:ARG:HH22	1.75	0.52
31:BK:135:LEU:O	31:BK:137:LYS:N	2.42	0.52
31:BK:135:LEU:C	31:BK:137:LYS:H	2.13	0.52
22:BB:1631:C:C4	40:BT:108:PRO:HD2	2.43	0.52
22:BB:2311:U:OP2	44:BX:51:VAL:HG21	2.09	0.52
1:CA:10:A:H1'	1:CA:507:C:O3'	2.09	0.52
1:CA:1310:G:N7	19:CS:2:PRO:HD3	2.22	0.52
1:CA:1318:A:C4'	19:CS:10:PHE:CD1	2.92	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:1349:A:P	9:CI:118:LYS:CB	2.98	0.52
1:CA:369:C:H2'	1:CA:370:C:C6	2.45	0.52
1:CA:500:G:H2'	1:CA:501:C:C6	2.45	0.52
1:CA:581:G:O6	1:CA:758:G:H3'	2.09	0.52
1:CA:879:C:H2'	1:CA:880:C:C6	2.44	0.52
3:CC:186:PHE:HZ	3:CC:188:LEU:HD23	1.74	0.52
3:CC:181:ASN:HD21	3:CC:204:LEU:HD22	1.74	0.52
1:CA:1060:C:C6	3:CC:2:GLY:HA3	2.45	0.52
4:CD:128:VAL:HG12	4:CD:129:ASN:H	1.74	0.52
4:CD:60:GLU:O	4:CD:64:LEU:HD23	2.10	0.52
6:CF:50:TYR:CD1	18:CR:80:PRO:CA	2.88	0.52
9:CI:48:GLU:HB2	9:CI:78:LYS:NZ	2.25	0.52
15:CO:89:GLY:O	22:DB:730:C:N4	2.43	0.52
51:D5:3:LYS:HZ2	51:D5:5:LYS:HG3	1.75	0.52
23:DA:107:C:C4'	43:DW:88:TYR:HA	2.40	0.52
22:DB:1291:G:H2'	22:DB:1292:A:C8	2.44	0.52
22:DB:1377:G:H2'	22:DB:1379:A:OP2	2.09	0.52
22:DB:1883:A:C4	22:DB:1953:A:C5	2.98	0.52
22:DB:1883:A:C6	22:DB:1953:A:N6	2.78	0.52
22:DB:1846:A:N6	22:DB:2070:G:H21	2.08	0.52
22:DB:2308:A:H2'	22:DB:2309:G:H8	1.74	0.52
22:DB:2432:A:C1'	22:DB:2551:A:O2'	2.56	0.52
22:DB:419:G:P	53:D7:197:GLU:CD	2.88	0.52
22:DB:645:G:H2'	22:DB:646:C:C6	2.45	0.52
22:DB:860:U:O2'	22:DB:861:G:H5'	2.10	0.52
22:DB:857:U:H1'	22:DB:946:U:O2	2.09	0.52
24:DD:119:ALA:HA	24:DD:129:ASN:H	1.74	0.52
22:DB:2766:U:C2	25:DE:61:LYS:C	2.79	0.52
34:DN:42:TRP:HA	34:DN:94:TRP:CH2	2.45	0.52
35:DO:100:VAL:HG12	35:DO:109:THR:HG22	1.91	0.52
36:DP:94:TYR:HD1	36:DP:95:LYS:HG2	1.74	0.52
45:DY:43:VAL:O	45:DY:47:ARG:HG2	2.10	0.52
1:EA:1028:C:H2'	1:EA:1029:U:C4'	2.38	0.52
1:EA:1271:G:H5'	1:EA:1314:C:OP1	2.09	0.52
1:EA:296:U:C2'	1:EA:297:G:H5'	2.39	0.52
1:EA:558:G:H4'	5:EE:121:LYS:NZ	2.25	0.52
1:EA:569:C:H1'	1:EA:574:A:H2'	1.92	0.52
1:EA:710:G:OP1	6:EF:54:LYS:CD	2.55	0.52
1:EA:845:A:H4'	18:ER:23:LYS:HZ1	1.73	0.52
1:EA:926:G:C5	1:EA:1502:A:N1	2.72	0.52
1:EA:966:G:O3'	9:EI:127:LYS:O	2.28	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:EB:91:PRO:HB2	2:EB:152:PHE:HA	1.91	0.52
3:EC:35:GLU:O	3:EC:39:ILE:HG13	2.10	0.52
5:EE:104:ALA:HA	5:EE:107:ARG:NH2	2.25	0.52
22:FB:409:G:C4'	47:F1:39:VAL:CG1	2.56	0.52
22:FB:2371:A:OP1	51:F5:29:LYS:HD2	2.10	0.52
23:FA:78:A:N6	23:FA:104:A:H61	2.08	0.52
22:FB:1036:G:H1'	22:FB:1145:C:H4'	1.91	0.52
22:FB:1043:A:H4'	52:F6:23:VAL:CG2	2.39	0.52
22:FB:1205:G:H2'	22:FB:1206:G:C8	2.45	0.52
22:FB:1285:A:H1'	22:FB:1634:A:N3	2.25	0.52
22:FB:1291:G:H2'	22:FB:1292:A:C8	2.44	0.52
22:FB:1307:U:O3'	35:FO:71:HIS:HB3	2.10	0.52
22:FB:1630:A:N1	40:FT:109:ARG:N	2.58	0.52
22:FB:2204:A:H4'	22:FB:2205:C:O5'	2.09	0.52
22:FB:838:A:H5''	22:FB:2407:G:N7	2.25	0.52
22:FB:2633:A:C4'	22:FB:2634:G:H4'	2.39	0.52
22:FB:3869:G:H2'	22:FB:3871:A:OP2	2.10	0.52
22:FB:64:C:C6	41:FU:70:GLY:O	2.62	0.52
22:FB:748:A:H61	22:FB:774:A:H1'	1.75	0.52
26:FF:163:ASN:HB2	26:FF:166:TRP:HB2	1.92	0.52
26:FF:97:ARG:HD2	26:FF:100:ARG:HH22	1.75	0.52
27:FG:175:LEU:H	27:FG:176:PRO:CD	2.23	0.52
31:FK:122:HIS:N	31:FK:123:PRO:HD2	2.24	0.52
31:FK:135:LEU:C	31:FK:137:LYS:H	2.13	0.52
22:FB:2662:C:C1'	32:FL:86:GLY:O	2.55	0.52
34:FN:100:PRO:HG2	34:FN:102:ARG:HH12	1.75	0.52
39:FS:66:GLY:N	39:FS:93:ILE:HG23	2.24	0.52
44:FX:74:LYS:HD2	44:FX:75:GLY:H	1.75	0.52
22:FB:863:C:O2'	46:FZ:43:MET:CB	2.57	0.52
1:CA:1273:G:H4'	1:GA:1266:G:OP2	2.09	0.52
1:GA:278:G:OP2	17:GQ:41:LYS:CE	2.57	0.52
1:GA:675:A:H2'	1:GA:675:A:N3	2.23	0.52
3:GC:3:ASN:ND2	3:GC:3:ASN:H	2.07	0.52
1:GA:413:G:H22	4:GD:31:CYS:CA	2.22	0.52
4:GD:85:LYS:HD3	4:GD:92:VAL:HG21	1.91	0.52
7:GG:135:VAL:HA	7:GG:138:LYS:HB3	1.92	0.52
7:GG:46:ALA:CB	7:GG:120:ILE:HG21	2.39	0.52
8:GH:31:PHE:HB3	8:GH:32:LYS:HE2	1.92	0.52
10:GJ:10:GLY:HA3	10:GJ:16:LEU:CD2	2.40	0.52
13:GM:44:ARG:HG3	13:GM:46:LYS:HD3	1.92	0.52
1:GA:254:G:C5'	17:GQ:69:LYS:CD	2.88	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:GA:194:C:O4'	20:GT:64:ASP:O	2.25	0.52
1:GA:179:A:OP2	20:GT:65:LYS:HE3	2.09	0.52
22:HB:2861:A:C6	48:H2:31:THR:HB	2.41	0.52
51:H5:13:ARG:HH11	51:H5:23:MET:C	2.13	0.52
22:HB:1428:G:H4'	22:HB:1429:A:H4'	1.92	0.52
22:HB:2288:A:H3'	22:HB:2289:A:C8	2.44	0.52
22:HB:2365:U:H1'	44:HX:37:LEU:HD21	0.66	0.52
22:HB:2386:G:H2'	22:HB:2387:U:C6	2.44	0.52
22:HB:2725:C:H42	22:HB:2740:C:N4	2.06	0.52
22:HB:3873:G:H2'	22:HB:3874:C:N1	2.25	0.52
22:HB:603:C:N3	22:HB:604:U:N3	2.58	0.52
24:HD:176:ARG:NH1	24:HD:176:ARG:HB3	2.25	0.52
25:HE:76:ARG:HG2	25:HE:77:ILE:H	1.74	0.52
26:HF:97:ARG:HD2	26:HF:100:ARG:HH22	1.75	0.52
27:HG:160:ALA:HB1	27:HG:165:GLU:C	2.29	0.52
30:HJ:71:THR:HG21	30:HJ:113:PRO:HB2	1.92	0.52
33:HM:143:PRO:HG2	33:HM:144:GLU:H	1.74	0.52
34:HN:99:LYS:N	34:HN:100:PRO:HD3	2.24	0.52
37:HQ:101:ARG:HB2	37:HQ:104:LEU:HD11	1.92	0.52
39:HS:32:LYS:CD	39:HS:63:HIS:H	2.22	0.52
44:HX:48:GLY:HA3	44:HX:56:ASP:H	1.74	0.52
1:IA:1028:C:H2'	1:IA:1029:U:C4'	2.37	0.52
1:IA:1240:U:O4	7:IG:119:ARG:NH2	2.42	0.52
1:IA:1265:G:H3'	1:IA:1266:G:H8	1.73	0.52
1:IA:1324:A:H2'	1:IA:1325:C:O4'	2.10	0.52
1:IA:590:C:C5'	8:IH:30:ARG:CD	2.78	0.52
1:IA:61:G:H2'	1:IA:62:U:O4'	2.10	0.52
1:IA:664:G:O2'	1:IA:665:A:H3'	2.09	0.52
1:IA:765:G:OP2	15:IO:50:HIS:NE2	2.39	0.52
1:IA:877:C:O3'	8:IH:88:LYS:HB2	2.08	0.52
1:IA:1057:G:O4'	3:IC:195:VAL:O	2.27	0.52
5:IE:17:ALA:HA	5:IE:26:PHE:HB3	1.91	0.52
7:IG:68:ASN:HB3	7:IG:135:VAL:HG22	1.91	0.52
7:IG:37:ASN:O	7:IG:41:ARG:HG3	2.09	0.52
8:IH:120:THR:O	8:IH:124:ALA:HB2	2.10	0.52
9:II:27:THR:HA	9:II:32:ASP:CA	2.35	0.52
13:IM:44:ARG:HG3	13:IM:46:LYS:HD3	1.92	0.52
22:JB:2265:A:C5	49:J3:31:THR:HB	2.44	0.52
22:JB:2328:G:OP2	51:J5:41:ILE:HD12	2.08	0.52
22:JB:1072:U:C2'	30:JJ:11:GLN:NE2	2.66	0.52
22:JB:1974:U:H3'	22:JB:1975:G:H5'	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:JB:2210:C:O4'	47:J1:39:VAL:HG21	2.09	0.52
22:JB:2386:G:H2'	22:JB:2387:U:C6	2.44	0.52
22:JB:2426:G:H1	22:JB:2430:A:N6	2.07	0.52
22:JB:2825:A:C5	22:JB:2844:G:H1'	2.45	0.52
22:JB:2847:G:HO2'	35:JO:8:ARG:NH2	1.98	0.52
22:JB:649:G:O2'	22:JB:650:U:H5'	2.09	0.52
22:JB:913:A:H2'	22:JB:914:C:C5	2.45	0.52
31:JK:42:VAL:HG13	31:JK:166:LEU:HG	1.91	0.52
33:JM:107:LYS:HB2	33:JM:126:SER:HB2	1.92	0.52
34:JN:42:TRP:HA	34:JN:94:TRP:CH2	2.45	0.52
22:JB:1307:U:O2'	35:JO:23:ALA:CB	2.58	0.52
35:JO:45:ARG:N	35:JO:46:PRO:CD	2.71	0.52
23:JA:10:U:C3'	36:JP:28:ARG:NH1	2.64	0.52
37:JQ:101:ARG:HB2	37:JQ:104:LEU:HD11	1.92	0.52
38:JR:41:ASN:C	38:JR:43:ALA:H	2.13	0.52
41:JU:53:ILE:HG13	41:JU:54:SER:N	2.25	0.52
41:JU:75:ARG:HA	41:JU:75:ARG:HE	1.74	0.52
22:JB:2315:A:C4	44:JX:70:ILE:HD13	2.33	0.52
1:AA:1028:C:H2'	1:AA:1029:U:C4'	2.38	0.52
1:AA:1221:G:C3'	19:AS:77:THR:HG21	2.40	0.52
1:AA:1468:A:H3'	1:AA:1469:G:C8	2.43	0.52
1:AA:17:U:C4'	1:AA:1079:G:O2'	2.57	0.52
1:AA:521:G:OP2	12:AL:53:ARG:HG2	1.56	0.52
4:AD:100:ARG:O	4:AD:104:VAL:HG23	2.09	0.52
4:AD:25:ARG:NH1	4:AD:31:CYS:HB2	2.24	0.52
4:AD:85:LYS:HD3	4:AD:92:VAL:HG21	1.91	0.52
5:AE:17:ALA:HA	5:AE:26:PHE:HB3	1.91	0.52
6:AF:36:ARG:HB2	6:AF:36:ARG:NH1	2.23	0.52
6:AF:4:TYR:HA	6:AF:92:LYS:HA	1.92	0.52
5:AE:151:LEU:HD21	8:AH:78:GLN:O	1.82	0.52
11:AK:91:ARG:O	11:AK:95:ILE:HG13	2.09	0.52
17:AQ:28:PRO:HB3	17:AQ:35:VAL:HG22	1.92	0.52
49:B3:39:LYS:HE3	49:B3:40:TYR:H	1.74	0.52
22:BB:1205:G:H2'	22:BB:1206:G:C8	2.45	0.52
22:BB:2303:C:H4'	22:BB:2317:G:OP1	2.09	0.52
22:BB:2766:U:H5''	25:BE:64:GLN:C	2.25	0.52
22:BB:336:A:H2'	22:BB:337:G:O4'	2.09	0.52
22:BB:642:A:C2	22:BB:2394:G:H1'	2.45	0.52
24:BD:245:VAL:HG11	24:BD:249:PRO:HD3	1.92	0.52
24:BD:246:PRO:HB3	24:BD:252:LYS:HG2	1.91	0.52
22:BB:1583:A:O2'	24:BD:84:TYR:HE1	1.92	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:BB:2753:C:C5'	25:BE:164:ARG:H	2.20	0.52
25:BE:181:LEU:HB3	37:BQ:12:LEU:CD2	2.39	0.52
25:BE:18:ASP:OD1	32:BL:84:ALA:C	2.48	0.52
25:BE:7:THR:HB	25:BE:194:GLY:H	1.74	0.52
28:BH:55:PRO:HD2	28:BH:61:HIS:NE2	2.24	0.52
30:BJ:119:SER:N	30:BJ:123:ALA:HB2	2.25	0.52
31:BK:110:LEU:CG	31:BK:111:LYS:H	2.23	0.52
31:BK:90:LEU:HD22	31:BK:95:LEU:HD12	1.91	0.52
34:BN:44:LYS:HB3	34:BN:44:LYS:NZ	2.25	0.52
22:BB:1236:G:O6	39:BS:72:ARG:O	2.28	0.52
41:BU:53:ILE:HG13	41:BU:54:SER:N	2.25	0.52
1:CA:1382:C:C4'	7:CG:79:ARG:CG	2.60	0.52
2:CB:119:GLU:HG3	2:CB:153:ARG:HH22	1.74	0.52
5:CE:136:MET:HA	5:CE:139:LEU:HD12	1.92	0.52
7:CG:37:ASN:O	7:CG:41:ARG:HG3	2.09	0.52
10:CJ:9:ARG:N	10:CJ:94:VAL:HG13	2.22	0.52
1:CA:520:A:H3'	12:CL:53:ARG:CD	2.40	0.52
13:CM:50:GLU:O	13:CM:54:VAL:HG23	2.10	0.52
19:CS:33:THR:HB	19:CS:51:VAL:HA	1.91	0.52
22:DB:1032:A:H62	22:DB:1151:U:H3	1.57	0.52
22:DB:1140:A:C2	22:DB:2549:G:C4'	2.85	0.52
22:DB:1205:G:H2'	22:DB:1206:G:C8	2.45	0.52
22:DB:1368:G:H2'	22:DB:1369:G:C8	2.44	0.52
22:DB:1416:A:C5'	22:DB:1485:U:C1'	2.87	0.52
22:DB:159:A:N3	22:DB:159:A:H2'	2.24	0.52
22:DB:2040:A:O2'	48:D2:3:LYS:HG3	2.00	0.52
22:DB:2487:G:H2'	22:DB:2488:G:H8	1.75	0.52
22:DB:3094:A:OP1	29:DI:20:VAL:CA	2.58	0.52
22:DB:3115:G:O6	22:DB:3118:U:H3'	2.10	0.52
22:DB:336:A:H2'	22:DB:337:G:O4'	2.10	0.52
22:DB:491:A:OP2	22:DB:492:G:H5'	2.09	0.52
22:DB:541:C:H5''	22:DB:542:A:C4	2.43	0.52
22:DB:762:A:O2'	22:DB:1633:C:H1'	2.10	0.52
22:DB:816:U:H2'	22:DB:817:A:H8	1.74	0.52
22:DB:887:G:H2'	22:DB:888:G:H8	1.74	0.52
22:DB:930:A:OP1	22:DB:930:A:H4'	2.10	0.52
24:DD:183:ARG:HB3	24:DD:270:ILE:HG22	1.92	0.52
25:DE:76:ARG:HG2	25:DE:77:ILE:H	1.74	0.52
30:DJ:71:THR:HG21	30:DJ:113:PRO:HB2	1.92	0.52
31:DK:74:MET:HE3	31:DK:140:GLN:NE2	2.24	0.52
33:DM:100:ARG:HE	33:DM:101:ARG:HH12	1.56	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:DB:318:G:O5'	40:DT:12:LYS:NZ	2.38	0.52
43:DW:69:VAL:HG12	43:DW:70:GLN:H	1.74	0.52
1:EA:403:C:O2'	4:ED:122:ARG:CG	2.57	0.52
4:ED:60:GLU:O	4:ED:64:LEU:HD23	2.10	0.52
7:EG:92:SER:O	7:EG:96:GLN:HG3	2.10	0.52
9:EI:28:VAL:HG13	9:EI:63:ILE:HG22	1.91	0.52
1:EA:1368:G:C5'	10:EJ:62:HIS:CE1	2.91	0.52
11:EK:21:ILE:O	11:EK:85:ARG:HB2	2.10	0.52
13:EM:23:TYR:CD2	13:EM:67:GLU:HG2	2.43	0.52
15:EO:16:ALA:HB1	15:EO:21:ASP:CB	2.37	0.52
19:ES:33:THR:HB	19:ES:51:VAL:HA	1.90	0.52
50:F4:41:GLN:C	50:F4:42:LEU:HD22	2.30	0.52
22:FB:1041:G:H21	52:F6:6:SER:H	1.57	0.52
22:FB:762:A:O2'	22:FB:1633:C:H1'	2.10	0.52
22:FB:1974:U:H3'	22:FB:1975:G:H5'	1.91	0.52
22:FB:2204:A:H4'	22:FB:2205:C:O4'	2.09	0.52
22:FB:2426:G:H1	22:FB:2430:A:N6	2.07	0.52
22:FB:2825:A:C5	22:FB:2844:G:H1'	2.45	0.52
22:FB:491:A:OP2	22:FB:492:G:H5'	2.09	0.52
22:FB:541:C:H5''	22:FB:542:A:C4	2.43	0.52
22:FB:910:U:C5	22:FB:911:A:H8	2.28	0.52
22:FB:930:A:H4'	22:FB:930:A:OP1	2.10	0.52
24:FD:117:VAL:HG22	24:FD:127:LEU:HD13	1.91	0.52
24:FD:246:PRO:HB3	24:FD:252:LYS:HG2	1.91	0.52
22:FB:2753:C:O2'	25:FE:163:GLU:HB3	2.10	0.52
22:FB:1268:U:C6	26:FF:66:ASN:HB3	2.45	0.52
27:FG:128:TYR:HD2	27:FG:167:ARG:HH11	1.57	0.52
30:FJ:71:THR:HG21	30:FJ:113:PRO:HB2	1.92	0.52
22:FB:29:U:C4'	38:FR:8:ILE:HG21	2.39	0.52
38:FR:47:TYR:CG	39:FS:74:TYR:CG	2.86	0.52
41:FU:75:ARG:HE	41:FU:75:ARG:HA	1.74	0.52
22:FB:869:C:OP1	44:FX:57:HIS:ND1	2.43	0.52
1:GA:1105:A:H5''	3:GC:172:ARG:NH1	2.10	0.52
1:GA:1128:C:H4'	1:GA:1146:A:H61	1.74	0.52
1:GA:1469:G:H2'	1:GA:1470:G:C8	2.44	0.52
1:GA:1520:G:H2'	1:GA:1521:G:C8	2.45	0.52
1:GA:175:C:C4'	20:GT:25:ARG:CB	2.86	0.52
1:GA:373:A:H3'	1:GA:374:A:C8	2.45	0.52
1:GA:61:G:H2'	1:GA:62:U:O4'	2.10	0.52
7:GG:137:LYS:HA	7:GG:140:ASP:OD2	2.09	0.52
9:GI:29:ASN:HD21	9:GI:64:THR:CG2	2.22	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:GM:50:GLU:O	13:GM:54:VAL:HG23	2.10	0.52
14:GN:53:LEU:HD23	14:GN:53:LEU:N	2.25	0.52
12:GL:8:ASN:HD22	17:GQ:34:LYS:HE3	1.73	0.52
1:GA:267:C:C5'	17:GQ:67:LYS:HE3	2.39	0.52
18:GR:35:ARG:NH2	18:GR:36:ASN:HD21	2.08	0.52
11:GK:116:HIS:HD2	18:GR:81:PHE:CE2	2.23	0.52
19:GS:33:THR:HB	19:GS:51:VAL:HA	1.91	0.52
50:H4:20:ALA:HA	50:H4:23:LYS:HE3	1.91	0.52
22:HB:3167:U:O4	53:H7:98:ARG:CD	2.54	0.52
23:HA:78:A:N6	23:HA:104:A:H61	2.08	0.52
22:HB:109:A:O2'	45:HY:59:GLU:HB2	2.10	0.52
22:HB:1470:G:O4'	35:HO:60:LEU:CD1	2.49	0.52
22:HB:46:C:C4	22:HB:155:G:O6	2.62	0.52
22:HB:1960:A:H2'	22:HB:1961:A:C8	2.45	0.52
22:HB:753:U:H1'	22:HB:1964:A:H1'	1.90	0.52
22:HB:2426:G:H1	22:HB:2430:A:N6	2.07	0.52
22:HB:1950:C:H4'	22:HB:2571:G:H5''	1.92	0.52
22:HB:2590:U:H3'	22:HB:2591:C:H6	1.74	0.52
22:HB:2764:U:C5'	25:HE:36:ARG:HH22	2.23	0.52
22:HB:46:C:N3	22:HB:155:G:C6	2.77	0.52
22:HB:489:A:C5'	42:HV:5:SER:C	2.78	0.52
22:HB:561:U:H4'	22:HB:1233:A:C6	2.45	0.52
22:HB:577:U:H2'	22:HB:579:G:N7	2.25	0.52
22:HB:579:G:OP1	22:HB:983:G:H4'	2.10	0.52
22:HB:591:G:H5''	38:HR:11:ARG:HH21	1.58	0.52
22:HB:609:U:C4'	26:HF:26:VAL:HG11	2.37	0.52
22:HB:642:A:H61	22:HB:2394:G:N2	2.08	0.52
22:HB:645:G:H2'	22:HB:646:C:C6	2.44	0.52
22:HB:713:G:H2'	22:HB:714:G:C8	2.44	0.52
22:HB:748:A:H61	22:HB:774:A:H1'	1.75	0.52
22:HB:793:G:H1'	22:HB:798:G:H22	1.73	0.52
26:HF:72:ARG:NE	26:HF:77:PHE:HB3	2.24	0.52
32:HL:25:LEU:HD22	32:HL:26:ASN:H	1.74	0.52
32:HL:83:ARG:HB3	32:HL:89:ILE:HG13	1.91	0.52
34:HN:55:MET:HG3	34:HN:114:GLN:O	2.10	0.52
35:HO:100:VAL:HG12	35:HO:109:THR:HG22	1.91	0.52
22:HB:575:U:C2	39:HS:79:GLN:OE1	2.57	0.52
22:HB:470:U:C2'	41:HU:69:ILE:HD11	2.40	0.52
42:HV:30:LYS:HD3	42:HV:30:LYS:O	2.09	0.52
22:HB:489:A:H5'	42:HV:5:SER:O	2.10	0.52
43:HW:17:SER:HA	43:HW:36:ARG:NH1	2.22	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:EA:1136:U:H1'	1:IA:1136:U:N3	2.25	0.52
1:IA:1469:G:H2'	1:IA:1470:G:C8	2.44	0.52
1:IA:278:G:H3'	17:IQ:95:TYR:CE2	2.45	0.52
1:IA:301:G:H2'	1:IA:302:G:C8	2.45	0.52
1:IA:373:A:H3'	1:IA:374:A:C8	2.45	0.52
1:IA:500:G:H2'	1:IA:501:C:C6	2.45	0.52
1:IA:815:A:C2'	1:IA:1526:G:N1	2.66	0.52
2:IB:115:LEU:O	2:IB:119:GLU:HB2	2.10	0.52
2:IB:178:ARG:NH2	2:IB:198:ASP:HA	2.25	0.52
5:IE:104:ALA:HA	5:IE:107:ARG:NH2	2.25	0.52
6:IF:51:PRO:HA	6:IF:56:PRO:HA	1.91	0.52
6:IF:68:PRO:O	6:IF:72:VAL:HG23	2.09	0.52
1:IA:827:U:C5'	8:IH:15:ASN:HB3	2.39	0.52
1:IA:1130:A:O4'	9:II:18:PHE:HE1	1.79	0.52
13:IM:92:HIS:CE1	13:IM:98:VAL:HG11	2.45	0.52
14:IN:25:VAL:HG13	14:IN:26:ARG:N	2.22	0.52
15:IO:82:ILE:C	15:IO:84:LYS:H	2.14	0.52
40:JT:36:ARG:HD2	48:J2:16:ARG:NH1	2.25	0.52
33:JM:72:TYR:CE2	51:J5:64:ARG:HG2	2.45	0.52
22:JB:1411:C:C5	22:JB:1412:C:N4	2.78	0.52
22:JB:1583:A:H1'	24:JD:84:TYR:OH	2.09	0.52
22:JB:2362:G:H1	49:J3:27:ASN:HA	1.75	0.52
22:JB:2462:C:H2'	22:JB:2463:G:O4'	2.09	0.52
22:JB:3873:G:H2'	22:JB:3874:C:N1	2.25	0.52
22:JB:634:G:N7	33:JM:98:LEU:CG	2.71	0.52
22:JB:603:C:C2	22:JB:677:G:C2	2.97	0.52
22:JB:6:A:H2'	22:JB:7:G:H8	1.73	0.52
22:JB:869:C:H5'	44:JX:57:HIS:CG	2.38	0.52
22:JB:887:G:H2'	22:JB:888:G:H8	1.74	0.52
24:JD:70:ARG:HD3	24:JD:70:ARG:O	2.10	0.52
26:JF:72:ARG:NE	26:JF:77:PHE:HB3	2.24	0.52
30:JJ:71:THR:HG21	30:JJ:113:PRO:HB2	1.91	0.52
34:JN:32:ASP:CB	43:JW:115:ILE:HG22	2.40	0.52
23:JA:30:C:OP2	36:JP:34:SER:HB2	2.09	0.52
22:JB:2004:U:H5	38:JR:25:TRP:HD1	1.56	0.52
38:JR:3:ARG:HG3	38:JR:4:ALA:N	2.25	0.52
38:JR:61:TRP:O	38:JR:62:ILE:HG23	2.10	0.52
1:AA:1349:A:C5'	9:AI:120:ARG:C	2.74	0.52
1:AA:500:G:H2'	1:AA:501:C:C6	2.45	0.52
1:AA:520:A:OP1	12:AL:52:LEU:HA	2.10	0.52
1:AA:877:C:C5'	8:AH:89:PRO:HG2	2.38	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AB:115:LEU:O	2:AB:119:GLU:HB2	2.10	0.52
3:AC:157:ILE:HD11	3:AC:164:ARG:HE	1.75	0.52
1:AA:16:A:P	5:AE:24:ARG:HH12	2.33	0.52
1:AA:704:A:H61	11:AK:42:TRP:HH2	1.56	0.52
14:AN:53:LEU:N	14:AN:53:LEU:HD23	2.25	0.52
15:AO:16:ALA:HA	15:AO:26:GLU:HB2	1.90	0.52
1:AA:668:G:O5'	15:AO:48:LYS:HB2	2.08	0.52
1:AA:279:A:N7	17:AQ:95:TYR:CD2	2.78	0.52
22:BB:118:U:O2'	22:BB:119:G:H5''	2.10	0.52
22:BB:1586:A:C3'	22:BB:1587:A:P	2.97	0.52
22:BB:2048:C:H5''	22:BB:2231:G:H4'	1.92	0.52
22:BB:2249:U:H2'	22:BB:2250:G:H5'	1.92	0.52
22:BB:2308:A:H2'	22:BB:2309:G:H8	1.74	0.52
22:BB:2328:G:OP1	51:B5:41:ILE:CD1	2.57	0.52
22:BB:2336:G:OP1	44:BX:19:LYS:NZ	2.28	0.52
22:BB:2338:C:H5'	51:B5:50:LEU:HD23	1.92	0.52
22:BB:2358:C:P	36:BP:19:THR:HG23	2.49	0.52
22:BB:2474:G:O2'	34:BN:83:ARG:O	2.28	0.52
22:BB:2570:C:H2'	22:BB:2571:G:C8	2.45	0.52
22:BB:2767:C:O2	22:BB:2785:A:H2	1.93	0.52
22:BB:1:G:H2'	22:BB:2:G:O4'	2.09	0.52
22:BB:3123:G:H21	53:B7:33:ILE:HD12	1.75	0.52
22:BB:3123:G:N2	53:B7:33:ILE:CD1	2.73	0.52
22:BB:569:C:H5''	31:BK:137:LYS:HZ1	1.73	0.52
22:BB:631:G:H4'	22:BB:632:A:H2	1.74	0.52
22:BB:887:G:N2	43:BW:165:GLU:CG	2.47	0.52
24:BD:10:THR:O	24:BD:12:SER:N	2.43	0.52
22:BB:2714:A:H1'	25:BE:205:SER:HB3	0.67	0.52
22:BB:38:G:H1'	26:BF:42:THR:CB	2.40	0.52
32:BL:113:PRO:HD2	37:BQ:75:GLU:O	1.68	0.52
22:BB:2827:G:H5'	35:BO:60:LEU:CD2	2.40	0.52
1:AA:1433:A:O4'	37:BQ:116:ARG:CZ	2.57	0.52
37:BQ:39:VAL:HG12	37:BQ:41:GLU:H	1.75	0.52
38:BR:3:ARG:HG3	38:BR:4:ALA:N	2.24	0.52
43:BW:123:VAL:O	43:BW:159:THR:HG23	2.09	0.52
22:BB:2237:C:P	44:BX:4:LYS:NZ	2.78	0.52
46:BZ:45:LYS:HA	46:BZ:48:LYS:HZ3	1.75	0.52
1:CA:1111:A:H2'	1:CA:1112:C:C5	2.44	0.52
1:CA:1528:U:H4'	1:CA:1529:G:H21	1.75	0.52
1:CA:545:C:C5'	4:CD:72:GLU:OE2	2.57	0.52
1:CA:689:C:OP1	11:CK:55:LYS:NZ	2.40	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CB:176:GLU:HG3	2:CB:179:LYS:HZ1	1.74	0.52
4:CD:85:LYS:HD3	4:CD:92:VAL:HG21	1.91	0.52
5:CE:17:ALA:HA	5:CE:26:PHE:HB3	1.91	0.52
1:CA:932:C:OP1	7:CG:3:ARG:C	2.48	0.52
5:CE:152:ARG:NH2	8:CH:122:ARG:HD3	2.25	0.52
8:CH:112:LEU:HD22	8:CH:134:ILE:H	1.74	0.52
9:CI:10:ARG:HB3	9:CI:72:GLY:O	2.09	0.52
15:CO:36:ILE:HD11	15:CO:63:ARG:CZ	2.39	0.52
1:CA:581:G:H2'	17:CQ:105:ALA:HB3	1.91	0.52
17:CQ:64:PRO:HB3	17:CQ:70:ARG:NH2	2.25	0.52
1:CA:1227:A:OP1	19:CS:80:TYR:HE2	1.92	0.52
53:D7:34:LEU:HD13	53:D7:165:VAL:HB	1.92	0.52
23:DA:58:G:H4'	23:DA:59:A:H5'	1.92	0.52
23:DA:96:C:H5'	43:DW:15:ASP:OD1	2.09	0.52
22:DB:1398:G:N3	22:DB:1416:A:C4	2.78	0.52
22:DB:1902:A:N3	22:DB:1902:A:H2'	2.24	0.52
22:DB:1:G:H2'	22:DB:2:G:O4'	2.09	0.52
22:DB:2040:A:H4'	48:D2:6:VAL:CG1	2.38	0.52
22:DB:2204:A:H4'	22:DB:2205:C:O5'	2.09	0.52
22:DB:2276:C:O2'	22:DB:2301:A:H1'	2.10	0.52
22:DB:2825:A:C5	22:DB:2844:G:H1'	2.45	0.52
22:DB:3873:G:H2'	22:DB:3874:C:N1	2.25	0.52
22:DB:755:C:H2'	22:DB:756:C:O4'	2.09	0.52
25:DE:118:LYS:NZ	25:DE:118:LYS:HA	2.24	0.52
41:DU:56:MET:HG2	41:DU:57:ASN:ND2	2.24	0.52
22:DB:2249:U:H5'	44:DX:18:PRO:CB	2.40	0.52
1:EA:1075:C:C5'	2:EB:103:THR:HG22	2.40	0.52
1:EA:373:A:H3'	1:EA:374:A:C8	2.45	0.52
1:EA:407:G:C4'	4:ED:116:GLN:CB	2.66	0.52
1:EA:621:A:H5''	4:ED:139:ARG:HH21	1.63	0.52
1:EA:879:C:H2'	1:EA:880:C:C6	2.44	0.52
2:EB:74:LYS:HB2	2:EB:165:VAL:HG11	1.91	0.52
4:ED:100:ARG:O	4:ED:104:VAL:HG23	2.10	0.52
1:EA:407:G:C1'	4:ED:116:GLN:CG	2.87	0.52
5:EE:136:MET:HA	5:EE:139:LEU:HD12	1.92	0.52
10:EJ:12:ASP:OD1	10:EJ:14:LYS:HB2	2.10	0.52
1:EA:523:A:C5	12:EL:90:VAL:HG22	2.44	0.52
14:EN:53:LEU:HD23	14:EN:53:LEU:N	2.25	0.52
53:F7:69:SER:HB3	53:F7:115:GLU:OE2	2.10	0.52
53:F7:32:ILE:CG2	53:F7:167:VAL:H	2.23	0.52
23:FA:85:G:C5'	46:FZ:47:VAL:HG13	2.39	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:FB:1032:A:H62	22:FB:1151:U:H3	1.57	0.52
22:FB:1141:U:H1'	22:FB:1142:G:N7	2.24	0.52
22:FB:53:G:H21	22:FB:124:A:H2	1.58	0.52
22:FB:1368:G:H2'	22:FB:1369:G:C8	2.45	0.52
22:FB:1377:G:H2'	22:FB:1379:A:OP2	2.09	0.52
22:FB:1886:G:OP1	24:FD:241:GLY:HA2	2.10	0.52
22:FB:2198:U:H2'	22:FB:2199:C:H4'	1.90	0.52
22:FB:2451:G:H3'	22:FB:2454:C:H42	1.74	0.52
22:FB:1139:A:N6	22:FB:2469:G:C5'	2.73	0.52
22:FB:2487:G:H2'	22:FB:2488:G:H8	1.75	0.52
22:FB:10:A:C4	22:FB:2608:A:C5	2.98	0.52
22:FB:3154:G:H2'	22:FB:3155:G:H8	1.74	0.52
22:FB:336:A:H2'	22:FB:337:G:O4'	2.10	0.52
22:FB:4:C:C2	22:FB:2874:A:N1	2.78	0.52
22:FB:600:G:P	26:FF:92:ASP:OD1	2.67	0.52
22:FB:776:G:H5'	24:FD:211:ARG:NH2	2.25	0.52
22:FB:816:U:H2'	22:FB:817:A:H8	1.74	0.52
25:FE:63:MET:HB2	25:FE:64:GLN:NE2	2.25	0.52
30:FJ:111:LYS:HE3	30:FJ:127:VAL:H	1.75	0.52
36:FP:63:ASN:ND2	36:FP:64:LYS:H	2.08	0.52
32:FL:112:GLY:HA2	37:FQ:75:GLU:CB	2.40	0.52
45:FY:43:VAL:O	45:FY:47:ARG:HG2	2.10	0.52
1:GA:1028:C:H2'	1:GA:1029:U:C4'	2.38	0.52
1:GA:134:A:H2'	1:GA:135:C:O4'	2.09	0.52
1:GA:876:G:H2'	1:GA:877:C:O4'	2.10	0.52
3:GC:12:LEU:CA	3:GC:16:ARG:HB3	2.40	0.52
7:GG:68:ASN:HB3	7:GG:135:VAL:HG22	1.91	0.52
10:GJ:63:PHE:HA	14:GN:58:LYS:HG2	1.92	0.52
10:GJ:85:LEU:HD23	10:GJ:88:LEU:HD12	1.92	0.52
10:GJ:7:LYS:HG2	10:GJ:9:ARG:NH1	2.25	0.52
11:GK:123:LYS:N	11:GK:123:LYS:HD3	2.23	0.52
11:GK:21:ILE:O	11:GK:85:ARG:HB2	2.10	0.52
11:GK:91:ARG:O	11:GK:95:ILE:HG13	2.09	0.52
10:GJ:65:LEU:CA	14:GN:56:VAL:CB	2.87	0.52
15:GO:70:LEU:O	15:GO:78:TYR:HB2	2.09	0.52
51:H5:9:MET:O	51:H5:14:ILE:HD11	2.09	0.52
22:HB:2340:C:C5	51:H5:26:LYS:NZ	2.77	0.52
22:HB:1040:A:C1'	22:HB:2465:G:O4'	2.58	0.52
22:HB:1044:U:OP1	52:H6:16:VAL:CG1	2.57	0.52
22:HB:1151:U:H4'	22:HB:1152:C:H5''	1.92	0.52
22:HB:1314:A:H2'	22:HB:1315:A:H3'	1.92	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:HB:1377:G:H2'	22:HB:1379:A:OP2	2.09	0.52
22:HB:1995:G:C5'	40:HT:117:ILE:C	2.76	0.52
22:HB:2063:A:H4'	47:H1:33:VAL:CA	2.23	0.52
22:HB:542:A:OP2	38:HR:25:TRP:HB3	2.10	0.52
22:HB:760:U:O3'	40:HT:111:ARG:C	2.48	0.52
22:HB:6:A:H2'	22:HB:7:G:H8	1.73	0.52
22:HB:882:C:H2'	22:HB:883:A:O4'	2.09	0.52
22:HB:930:A:OP1	22:HB:930:A:H4'	2.10	0.52
22:HB:1817:U:C5'	24:HD:233:HIS:CD2	2.93	0.52
24:HD:245:VAL:HG11	24:HD:249:PRO:HD3	1.92	0.52
22:HB:1142:G:N7	31:HK:105:GLY:HA2	2.25	0.52
31:HK:29:VAL:N	31:HK:30:LYS:HZ1	2.08	0.52
31:HK:42:VAL:HG22	31:HK:166:LEU:HD23	1.92	0.52
32:HL:8:LEU:HD22	32:HL:93:ARG:O	2.10	0.52
33:HM:35:LYS:N	33:HM:35:LYS:HD3	2.24	0.52
22:HB:496:C:C4	40:HT:82:ASN:OD1	2.63	0.52
34:HN:66:TYR:CD1	43:HW:115:ILE:HB	1.88	0.52
22:HB:2364:C:O2'	44:HX:69:PHE:CE2	2.50	0.52
1:EA:1265:G:O4'	1:IA:1272:G:O2'	2.27	0.52
1:IA:927:G:C1'	1:IA:1532:U:H1'	2.40	0.52
1:IA:593:G:H2'	1:IA:594:G:O4'	2.10	0.52
1:IA:697:U:H1'	1:IA:785:G:O2'	2.10	0.52
4:ID:97:LEU:HA	4:ID:100:ARG:HD3	1.92	0.52
4:ID:60:GLU:O	4:ID:64:LEU:HD23	2.10	0.52
9:II:75:ASP:C	9:II:77:ILE:H	2.13	0.52
10:IJ:10:GLY:HA3	10:IJ:16:LEU:CD2	2.40	0.52
11:IK:21:ILE:O	11:IK:85:ARG:HB2	2.10	0.52
17:IQ:26:GLN:CG	17:IQ:37:LYS:HA	2.40	0.52
19:IS:36:ARG:HH21	19:IS:53:ASN:HA	1.74	0.52
33:JM:62:LYS:CD	51:J5:30:ARG:HD2	2.38	0.52
22:JB:1288:A:N6	22:JB:1309:G:H5'	2.19	0.52
22:JB:1377:G:H2'	22:JB:1379:A:OP2	2.09	0.52
22:JB:1470:G:N3	35:JO:60:LEU:CD2	2.73	0.52
22:JB:1939:U:O2'	22:JB:1967:U:O2'	2.19	0.52
22:JB:2284:U:H3	22:JB:2290:A:N6	2.07	0.52
22:JB:2542:U:H5''	32:JL:40:GLY:N	2.25	0.52
22:JB:2543:A:OP2	32:JL:40:GLY:N	2.43	0.52
22:JB:2525:U:C1'	22:JB:2544:A:N1	2.73	0.52
22:JB:3187:U:P	29:JI:11:LEU:CD2	2.86	0.52
22:JB:224:G:H4'	22:JB:399:G:C5	2.44	0.52
22:JB:491:A:OP2	22:JB:492:G:H5'	2.09	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:JB:50:G:C6	22:JB:117:A:H2	2.24	0.52
22:JB:930:A:OP1	22:JB:930:A:H4'	2.10	0.52
24:JD:24:LEU:HA	24:JD:201:HIS:HE1	1.74	0.52
25:JE:118:LYS:NZ	25:JE:118:LYS:HA	2.24	0.52
22:JB:2558:C:O3'	25:JE:132:LYS:HD3	2.07	0.52
25:JE:4:ILE:HA	25:JE:198:LEU:HD12	1.91	0.52
31:JK:126:VAL:HG22	31:JK:127:ILE:N	2.16	0.52
33:JM:129:ALA:HB1	33:JM:132:ALA:O	2.10	0.52
34:JN:125:LYS:O	34:JN:126:LEU:HD23	2.10	0.52
34:JN:44:LYS:N	34:JN:47:GLN:HB2	2.24	0.52
45:JY:51:ALA:C	45:JY:53:LEU:H	2.11	0.52
1:AA:1128:C:H4'	1:AA:1146:A:H61	1.75	0.52
1:AA:1319:A:C5'	19:AS:70:LYS:HZ1	2.21	0.52
1:AA:301:G:H2'	1:AA:302:G:C8	2.45	0.52
1:AA:586:C:H4'	1:AA:878:G:H4'	1.92	0.52
2:AB:176:GLU:HG3	2:AB:179:LYS:HZ1	1.74	0.52
2:AB:74:LYS:HB2	2:AB:165:VAL:HG11	1.92	0.52
7:AG:49:ILE:HA	7:AG:53:LYS:HZ3	1.75	0.52
10:AJ:12:ASP:OD1	10:AJ:14:LYS:HB2	2.10	0.52
14:AN:9:LYS:HG2	14:AN:14:PRO:HG3	1.92	0.52
23:BA:33:C:H2'	23:BA:34:C:C6	2.45	0.52
22:BB:1007:A:H5'	38:BR:94:VAL:HG21	1.87	0.52
22:BB:1135:C:C4'	52:B6:36:GLN:CB	2.88	0.52
22:BB:1377:G:H2'	22:BB:1379:A:OP2	2.09	0.52
22:BB:2282:G:H2'	22:BB:2283:G:C8	2.46	0.52
22:BB:2303:C:O2'	22:BB:2316:G:H5''	2.10	0.52
22:BB:2487:G:H2'	22:BB:2488:G:H8	1.75	0.52
22:BB:2504:G:O4'	22:BB:2721:A:N3	2.41	0.52
22:BB:2825:A:C5	22:BB:2844:G:H1'	2.45	0.52
22:BB:755:C:H2'	22:BB:756:C:O4'	2.09	0.52
25:BE:119:ARG:HG2	25:BE:155:ARG:CB	2.38	0.52
27:BG:175:LEU:H	27:BG:176:PRO:CD	2.23	0.52
28:BH:9:ILE:HG13	28:BH:10:ALA:N	2.18	0.52
29:BI:17:VAL:HG13	29:BI:17:VAL:O	2.10	0.52
22:BB:1071:U:H5	30:BJ:79:ARG:NH1	2.07	0.52
31:BK:42:VAL:HG22	31:BK:166:LEU:HD23	1.92	0.52
32:BL:76:ARG:HB3	32:BL:90:ARG:NH1	2.24	0.52
33:BM:59:ARG:O	33:BM:60:LEU:CB	2.51	0.52
34:BN:68:ARG:NH2	43:BW:117:VAL:CA	2.39	0.52
39:BS:32:LYS:CD	39:BS:63:HIS:H	2.23	0.52
40:BT:55:ASP:H	40:BT:58:ARG:HB3	1.75	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:BB:2344:G:C5'	44:BX:42:GLY:HA2	2.40	0.52
44:BX:36:ILE:HG23	44:BX:69:PHE:HB2	1.92	0.52
44:BX:74:LYS:HD2	44:BX:75:GLY:H	1.75	0.52
1:CA:1128:C:H4'	1:CA:1146:A:H61	1.74	0.52
1:CA:1320:C:C4'	19:CS:73:GLU:HB3	2.40	0.52
1:CA:520:A:N7	12:CL:51:ALA:HB3	2.05	0.52
1:CA:1103:C:H1'	2:CB:108:ILE:HG23	1.90	0.52
5:CE:81:GLU:OE1	5:CE:90:VAL:HA	2.09	0.52
6:CF:10:LEU:O	6:CF:12:PRO:HD3	2.11	0.52
1:CA:640:A:HO2'	8:CH:116:LYS:HA	1.75	0.52
8:CH:28:ALA:HB2	8:CH:58:TYR:O	2.09	0.52
9:CI:28:VAL:HG13	9:CI:63:ILE:HG22	1.91	0.52
1:CA:913:A:N6	12:CL:23:LYS:HZ1	2.08	0.52
12:CL:64:TYR:O	12:CL:66:VAL:HG22	2.10	0.52
14:CN:34:TYR:HB3	14:CN:37:PHE:HD1	1.75	0.52
23:DA:33:C:H2'	23:DA:34:C:C6	2.45	0.52
23:DA:92:G:H22	34:DN:40:PRO:HD3	1.75	0.52
22:DB:1141:U:H1'	22:DB:1142:G:N7	2.24	0.52
22:DB:118:U:O2'	22:DB:119:G:H5''	2.10	0.52
22:DB:1469:U:C4	35:DO:60:LEU:HD13	2.39	0.52
22:DB:1719:G:H2'	22:DB:1720:G:C8	2.45	0.52
22:DB:1935:A:N3	22:DB:2539:C:H1'	2.25	0.52
22:DB:1796:A:H1'	24:DD:52:ARG:H	1.74	0.52
30:DJ:111:LYS:HE3	30:DJ:127:VAL:H	1.75	0.52
31:DK:42:VAL:HG22	31:DK:166:LEU:HD23	1.92	0.52
32:DL:76:ARG:CB	32:DL:90:ARG:HH12	2.22	0.52
33:DM:129:ALA:HB1	33:DM:132:ALA:O	2.10	0.52
33:DM:35:LYS:HB2	33:DM:35:LYS:NZ	2.26	0.52
34:DN:55:MET:HE2	34:DN:114:GLN:HE21	1.74	0.52
39:DS:32:LYS:HZ2	39:DS:96:LEU:HB2	1.75	0.52
40:DT:127:ILE:HD11	40:DT:129:ALA:HB3	1.91	0.52
41:DU:17:TYR:CE1	41:DU:21:GLU:HG2	2.45	0.52
41:DU:16:ALA:HA	41:DU:20:MET:HB2	1.92	0.52
41:DU:75:ARG:HE	41:DU:75:ARG:HA	1.74	0.52
22:DB:348:U:C5'	42:DV:13:LYS:HD3	2.40	0.52
42:DV:68:GLY:O	42:DV:69:GLN:HB2	2.09	0.52
23:DA:108:G:OP1	43:DW:89:GLY:HA3	2.09	0.52
44:DX:74:LYS:HD2	44:DX:75:GLY:H	1.75	0.52
22:DB:865:A:H5'	46:DZ:42:GLY:H	1.75	0.52
1:EA:1320:C:N4	19:ES:36:ARG:HG3	2.08	0.52
1:EA:706:A:H4'	11:EK:29:ILE:HG21	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:EA:586:C:H4'	1:EA:878:G:H4'	1.92	0.52
1:EA:1158:C:O2'	2:EB:133:LYS:CD	2.58	0.52
1:EA:407:G:C2'	4:ED:116:GLN:CD	2.77	0.52
1:EA:436:C:C5'	4:ED:156:GLU:H	2.23	0.52
4:ED:85:LYS:HD3	4:ED:92:VAL:HG21	1.91	0.52
6:EF:10:LEU:O	6:EF:12:PRO:HD3	2.10	0.52
6:EF:4:TYR:HA	6:EF:92:LYS:HA	1.92	0.52
1:EA:1298:C:N4	7:EG:114:ARG:HA	2.25	0.52
7:EG:145:ALA:CA	7:EG:148:ASN:HB2	2.40	0.52
8:EH:31:PHE:HB3	8:EH:32:LYS:HE2	1.92	0.52
13:EM:92:HIS:CE1	13:EM:98:VAL:HG11	2.45	0.52
50:F4:20:ALA:HA	50:F4:23:LYS:HE3	1.92	0.52
22:FB:1174:G:H5'	39:FS:91:THR:OG1	2.10	0.52
22:FB:1300:A:C5	35:FO:103:ARG:HD3	2.45	0.52
22:FB:1:G:H2'	22:FB:2:G:O4'	2.09	0.52
22:FB:228:A:OP1	33:FM:55:ARG:HD3	2.10	0.52
22:FB:2493:U:O2'	22:FB:2494:C:H5'	2.10	0.52
22:FB:2710:C:O3'	25:FE:169:ASN:HB3	2.10	0.52
22:FB:4:C:C4	22:FB:2874:A:N6	2.78	0.52
22:FB:579:G:OP1	22:FB:983:G:H4'	2.10	0.52
22:FB:63:A:C2	41:FU:62:ARG:HG3	2.45	0.52
22:FB:1810:U:OP2	24:FD:155:LEU:C	2.48	0.52
24:FD:24:LEU:HA	24:FD:201:HIS:HE1	1.74	0.52
30:FJ:119:SER:N	30:FJ:123:ALA:HB2	2.25	0.52
22:FB:1142:G:C1'	31:FK:111:LYS:NZ	2.73	0.52
34:FN:44:LYS:HB3	34:FN:44:LYS:NZ	2.25	0.52
22:FB:1290:A:C4'	35:FO:24:GLN:HG2	2.39	0.52
23:FA:117:G:C1'	36:FP:41:GLN:CG	2.56	0.52
37:FQ:66:PHE:HB2	37:FQ:85:SER:HB3	1.91	0.52
39:FS:66:GLY:HA2	39:FS:93:ILE:HG12	1.91	0.52
43:FW:124:ALA:HB2	43:FW:160:LEU:H	1.75	0.52
22:FB:2309:G:C1'	44:FX:36:ILE:HD11	2.36	0.52
44:FX:45:PHE:H	44:FX:76:ALA:H	1.58	0.52
27:DG:179:LYS:CB	1:GA:1021:G:H4'	2.40	0.52
1:GA:192:U:H5''	20:GT:57:ARG:HD2	1.92	0.52
1:GA:296:U:C2'	1:GA:297:G:H5'	2.39	0.52
1:GA:301:G:H2'	1:GA:302:G:C8	2.45	0.52
1:GA:331:G:H5''	1:GA:332:G:H8	1.73	0.52
1:GA:718:G:N7	18:GR:81:PHE:HE2	1.95	0.52
2:GB:91:PRO:HB2	2:GB:152:PHE:HA	1.91	0.52
4:GD:128:VAL:HG12	4:GD:129:ASN:H	1.74	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:GG:17:VAL:HG21	9:GI:41:VAL:CG1	2.25	0.52
7:GG:92:SER:O	7:GG:96:GLN:HG3	2.10	0.52
1:GA:640:A:O2'	8:GH:116:LYS:CE	2.55	0.52
11:GK:79:SER:HA	11:GK:104:GLN:CB	2.40	0.52
11:GK:34:ASP:HB2	11:GK:35:PRO:HD2	1.92	0.52
12:GL:19:ARG:O	12:GL:21:LYS:CD	2.54	0.52
13:GM:80:ARG:HD3	13:GM:80:ARG:H	1.74	0.52
14:GN:25:VAL:HG13	14:GN:26:ARG:N	2.22	0.52
19:GS:51:VAL:HG12	19:GS:52:TYR:N	2.23	0.52
23:HA:64:C:H2'	23:HA:65:A:C8	2.45	0.52
22:HB:1453:A:OP2	22:HB:1566:G:O6	2.28	0.52
22:HB:14:A:H2	22:HB:2605:C:H5'	1.75	0.52
22:HB:1750:A:H5''	22:HB:2695:C:O2'	2.10	0.52
22:HB:2284:U:H3	22:HB:2290:A:N6	2.06	0.52
22:HB:2337:A:H2'	51:H5:52:LYS:CE	2.40	0.52
22:HB:2372:A:O5'	33:HM:60:LEU:O	2.28	0.52
22:HB:892:A:N6	22:HB:911:A:H2	2.08	0.52
22:HB:984:A:OP2	39:HS:80:TYR:CE2	2.63	0.52
25:HE:133:LYS:NZ	25:HE:133:LYS:HB2	2.25	0.52
28:HH:68:THR:C	28:HH:70:THR:H	2.13	0.52
33:HM:107:LYS:HB2	33:HM:126:SER:HB2	1.91	0.52
33:HM:129:ALA:HB1	33:HM:132:ALA:O	2.10	0.52
22:HB:2814:G:P	35:HO:46:PRO:HG3	2.50	0.52
22:HB:2357:A:C2'	36:HP:19:THR:HG21	2.40	0.52
36:HP:63:ASN:ND2	36:HP:64:LYS:H	2.08	0.52
41:HU:17:TYR:CE1	41:HU:21:GLU:HG2	2.45	0.52
41:HU:9:ALA:CA	45:HY:26:MET:SD	2.83	0.52
45:HY:43:VAL:O	45:HY:47:ARG:HG2	2.10	0.52
1:IA:1128:C:H4'	1:IA:1146:A:H61	1.74	0.52
1:IA:369:C:H2'	1:IA:370:C:C6	2.45	0.52
1:IA:921:U:H2'	1:IA:922:G:O4'	2.10	0.52
1:IA:992:U:H1'	1:IA:993:G:C2	2.45	0.52
5:IE:136:MET:HA	5:IE:139:LEU:HD12	1.92	0.52
7:IG:68:ASN:ND2	7:IG:127:ALA:HB1	2.25	0.52
9:II:10:ARG:HB3	9:II:72:GLY:O	2.10	0.52
11:IK:34:ASP:HB2	11:IK:35:PRO:HD2	1.92	0.52
1:IA:238:G:O5'	17:IQ:38:ARG:CZ	2.42	0.52
1:IA:1221:G:H5'	19:IS:36:ARG:HH11	1.75	0.52
50:J4:41:GLN:C	50:J4:42:LEU:HD22	2.30	0.52
53:J7:63:ARG:HG2	53:J7:82:LYS:HZ3	1.75	0.52
22:JB:1040:A:C8	22:JB:2465:G:C1'	2.93	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:JB:1077:U:H5'	22:JB:1078:A:OP2	2.10	0.52
22:JB:1314:A:H2'	22:JB:1315:A:H3'	1.92	0.52
22:JB:1960:A:H2'	22:JB:1961:A:C8	2.45	0.52
22:JB:14:A:H2	22:JB:2605:C:H5'	1.75	0.52
22:JB:2637:C:N4	28:JH:180:GLY:C	2.63	0.52
22:JB:2708:U:OP1	32:JL:82:LYS:CD	2.55	0.52
22:JB:3121:G:C8	53:J7:130:PRO:HB2	2.45	0.52
22:JB:3869:G:H2'	22:JB:3871:A:OP2	2.09	0.52
22:JB:76:C:H5''	45:JY:56:VAL:HG21	1.91	0.52
22:JB:1508:G:H5'	24:JD:100:GLY:CA	2.39	0.52
24:JD:175:VAL:HG12	24:JD:176:ARG:O	2.10	0.52
22:JB:2614:A:C2'	25:JE:79:ARG:HE	2.22	0.52
26:JF:97:ARG:HD2	26:JF:100:ARG:HH22	1.75	0.52
27:JG:103:LEU:C	27:JG:105:ASN:H	2.13	0.52
22:JB:2282:G:H21	27:JG:129:ASN:HB3	1.75	0.52
31:JK:122:HIS:O	31:JK:124:GLU:HG2	2.10	0.52
32:JL:110:VAL:CG1	32:JL:131:PRO:HD3	2.39	0.52
38:JR:106:PHE:HA	38:JR:109:LEU:HB3	1.91	0.52
40:JT:55:ASP:H	40:JT:58:ARG:HB3	1.75	0.52
43:JW:43:PHE:CE1	43:JW:119:ASN:HA	2.45	0.52
44:JX:43:THR:HG21	44:JX:46:LYS:HG2	1.92	0.52
1:AA:1320:C:H2'	1:AA:1321:C:O4'	2.10	0.51
1:AA:1349:A:N6	1:AA:1373:G:H1'	2.23	0.51
2:AB:178:ARG:NH2	2:AB:198:ASP:HA	2.25	0.51
3:AC:181:ASN:HD21	3:AC:204:LEU:HD22	1.75	0.51
1:AA:426:G:C1'	4:AD:42:GLN:HB2	2.34	0.51
5:AE:105:VAL:HB	5:AE:106:PRO:HD3	1.91	0.51
1:AA:932:C:OP1	7:AG:3:ARG:O	2.28	0.51
8:AH:86:ILE:HB	8:AH:133:LEU:HD22	1.91	0.51
9:AI:25:LYS:HE2	9:AI:34:ASN:HD22	1.75	0.51
14:AN:34:TYR:HB3	14:AN:37:PHE:HD1	1.75	0.51
1:AA:742:G:OP1	15:AO:58:MET:HE3	2.10	0.51
1:AA:265:G:N2	17:AQ:70:ARG:NH2	2.41	0.51
18:AR:35:ARG:NH2	18:AR:36:ASN:HD21	2.09	0.51
19:AS:33:THR:HB	19:AS:51:VAL:HA	1.91	0.51
22:BB:2862:G:C4'	48:B2:31:THR:HA	2.40	0.51
53:B7:69:SER:HB3	53:B7:115:GLU:OE2	2.10	0.51
22:BB:1142:G:H4'	31:BK:110:LEU:O	2.10	0.51
22:BB:1003:C:N4	22:BB:1173:G:H1	2.08	0.51
22:BB:1239:A:OP2	39:BS:73:LYS:NZ	2.33	0.51
22:BB:1285:A:H1'	22:BB:1634:A:N3	2.26	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:BB:1490:U:O2	22:BB:1534:A:C2'	2.58	0.51
22:BB:1461:C:HO2'	22:BB:1561:A:H4'	1.67	0.51
22:BB:1615:C:H4'	41:BU:33:ALA:CB	2.39	0.51
22:BB:1719:G:H2'	22:BB:1720:G:C8	2.45	0.51
22:BB:1795:C:H2'	22:BB:1796:A:C8	2.42	0.51
22:BB:1803:G:H1'	24:BD:48:ARG:NH2	2.25	0.51
22:BB:1974:U:H3'	22:BB:1975:G:H5'	1.91	0.51
22:BB:216:U:C1'	22:BB:632:A:H8	2.23	0.51
22:BB:2198:U:H2'	22:BB:2199:C:H4'	1.90	0.51
22:BB:2204:A:H4'	22:BB:2205:C:O4'	2.10	0.51
22:BB:2462:C:H2'	22:BB:2463:G:O4'	2.09	0.51
22:BB:2601:C:OP1	25:BE:159:HIS:HB3	2.10	0.51
22:BB:2789:U:H2'	48:B2:42:SER:CA	2.28	0.51
22:BB:3873:G:H2'	22:BB:3874:C:N1	2.25	0.51
22:BB:491:A:OP2	22:BB:492:G:H5'	2.09	0.51
22:BB:913:A:H2'	22:BB:914:C:C5	2.45	0.51
25:BE:52:ALA:O	37:BQ:5:ILE:HB	2.10	0.51
22:BB:2766:U:C2'	25:BE:61:LYS:O	2.58	0.51
25:BE:63:MET:HB2	25:BE:64:GLN:NE2	2.25	0.51
22:BB:2614:A:C5'	25:BE:77:ILE:HB	2.39	0.51
22:BB:625:A:C6	26:BF:176:ASN:OD1	2.59	0.51
1:AA:339:C:OP2	32:BL:109:ARG:HD2	2.10	0.51
33:BM:129:ALA:HB1	33:BM:132:ALA:O	2.10	0.51
34:BN:42:TRP:HA	34:BN:94:TRP:CH2	2.45	0.51
37:BQ:66:PHE:HB2	37:BQ:85:SER:HB3	1.91	0.51
22:BB:1631:C:N4	40:BT:108:PRO:O	2.43	0.51
1:CA:1230:C:N3	13:CM:125:ARG:HB2	2.25	0.51
1:CA:1320:C:H2'	1:CA:1321:C:O4'	2.10	0.51
1:CA:523:A:H61	12:CL:91:LYS:CA	2.12	0.51
1:CA:586:C:H4'	1:CA:878:G:H4'	1.92	0.51
2:CB:91:PRO:HB2	2:CB:152:PHE:HA	1.91	0.51
3:CC:119:ARG:O	3:CC:123:GLN:HG3	2.10	0.51
3:CC:157:ILE:HD11	3:CC:164:ARG:HE	1.75	0.51
1:CA:1206:G:H5'	3:CC:194:GLY:CA	2.39	0.51
4:CD:196:LEU:HD22	4:CD:198:VAL:O	2.10	0.51
5:CE:79:GLU:HG3	5:CE:92:LYS:HA	1.91	0.51
7:CG:135:VAL:HA	7:CG:138:LYS:HB3	1.92	0.51
10:CJ:7:LYS:HG2	10:CJ:9:ARG:NH1	2.25	0.51
20:CT:19:SER:HA	20:CT:22:ARG:HB2	1.92	0.51
53:D7:130:PRO:HA	53:D7:160:LYS:HE3	1.92	0.51
53:D7:32:ILE:CG2	53:D7:167:VAL:H	2.23	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
53:D7:69:SER:HB3	53:D7:115:GLU:OE2	2.10	0.51
22:DB:1145:C:C6	22:DB:1147:G:OP1	2.64	0.51
22:DB:1235:C:C4	39:DS:71:ILE:HG21	2.45	0.51
22:DB:1234:C:H2'	22:DB:1235:C:H6	1.74	0.51
22:DB:123:A:H1'	50:D4:13:ALA:CB	2.41	0.51
22:DB:1795:C:H2'	22:DB:1796:A:C8	2.43	0.51
22:DB:2048:C:H5''	22:DB:2231:G:H4'	1.92	0.51
22:DB:2249:U:H2'	22:DB:2250:G:H5'	1.93	0.51
22:DB:2282:G:H2'	22:DB:2283:G:C8	2.46	0.51
22:DB:2463:G:C4'	34:DN:121:LEU:HD12	2.40	0.51
22:DB:2493:U:O2'	22:DB:2494:C:H5'	2.10	0.51
22:DB:2719:U:O2	22:DB:2746:G:O6	2.27	0.51
22:DB:817:A:OP1	33:DM:45:LYS:CE	2.51	0.51
24:DD:170:SER:O	24:DD:171:ASP:HB2	2.09	0.51
24:DD:63:ARG:NH2	24:DD:88:ARG:HD3	2.26	0.51
27:DG:128:TYR:HD2	27:DG:167:ARG:HH11	1.57	0.51
22:DB:2290:A:O3'	27:DG:70:ALA:CB	2.58	0.51
31:DK:110:LEU:CG	31:DK:111:LYS:H	2.23	0.51
33:DM:45:LYS:HB2	33:DM:45:LYS:NZ	2.25	0.51
34:DN:125:LYS:O	34:DN:126:LEU:HD23	2.10	0.51
39:DS:66:GLY:HA2	39:DS:93:ILE:HG12	1.91	0.51
1:EA:1111:A:H2'	1:EA:1112:C:C5	2.44	0.51
1:EA:1128:C:H4'	1:EA:1146:A:H61	1.74	0.51
1:EA:1312:G:C8	19:ES:4:SER:HB3	2.45	0.51
1:EA:1320:C:H2'	1:EA:1321:C:O4'	2.10	0.51
1:EA:599:C:OP1	8:EH:99:GLU:N	2.35	0.51
3:EC:186:PHE:HZ	3:EC:188:LEU:HD23	1.74	0.51
9:EI:10:ARG:HG2	9:EI:75:ASP:OD2	2.10	0.51
11:EK:79:SER:HA	11:EK:104:GLN:CB	2.40	0.51
13:EM:19:LEU:HD13	13:EM:30:ALA:C	2.30	0.51
14:EN:34:TYR:HB3	14:EN:37:PHE:HD1	1.75	0.51
1:EA:130:A:H61	17:EQ:64:PRO:CG	2.20	0.51
49:F3:24:THR:O	51:F5:35:GLY:HA3	0.70	0.51
22:FB:123:A:H5'	50:F4:23:LYS:NZ	2.24	0.51
53:F7:11:ALA:HA	53:F7:205:VAL:HG21	1.91	0.51
22:FB:1003:C:O2'	39:FS:88:GLN:HB2	2.10	0.51
22:FB:118:U:O2'	22:FB:119:G:H5''	2.11	0.51
22:FB:1795:C:H2'	22:FB:1796:A:C8	2.43	0.51
22:FB:1805:G:H21	24:FD:52:ARG:HD3	1.76	0.51
22:FB:2048:C:H5''	22:FB:2231:G:H4'	1.92	0.51
22:FB:2249:U:H2'	22:FB:2250:G:H5'	1.93	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:FB:2282:G:H2'	22:FB:2283:G:C8	2.46	0.51
22:FB:2287:G:H5'	22:FB:2288:A:OP1	2.10	0.51
22:FB:2510:A:OP1	28:FH:175:LYS:HB2	2.10	0.51
22:FB:2570:C:H2'	22:FB:2571:G:C8	2.45	0.51
22:FB:3171:A:H4'	22:FB:3172:U:C5'	2.40	0.51
22:FB:3175:C:O2'	53:F7:206:LYS:CD	2.56	0.51
22:FB:337:G:N2	42:FV:10:HIS:CA	2.57	0.51
22:FB:507:A:OP1	40:FT:20:LEU:CD2	2.57	0.51
22:FB:511:A:H2'	22:FB:512:A:H5'	1.92	0.51
22:FB:619:A:N3	22:FB:620:G:N7	2.58	0.51
31:FK:116:ARG:NH1	31:FK:123:PRO:HG3	2.24	0.51
31:FK:139:ARG:NH2	31:FK:142:ARG:HB3	2.24	0.51
32:FL:83:ARG:HB3	32:FL:89:ILE:HG13	1.91	0.51
35:FO:100:VAL:HG12	35:FO:109:THR:HG22	1.91	0.51
22:FB:591:G:C3'	38:FR:11:ARG:HH12	2.22	0.51
40:FT:55:ASP:H	40:FT:58:ARG:HB3	1.74	0.51
41:FU:53:ILE:HG13	41:FU:54:SER:N	2.25	0.51
42:FV:36:VAL:HG12	42:FV:37:LEU:H	1.74	0.51
1:CA:1272:G:O2'	1:GA:1265:G:H4'	2.10	0.51
1:GA:815:A:O2'	1:GA:1526:G:C4	2.60	0.51
1:GA:37:U:C5'	12:GL:124:LYS:CD	2.73	0.51
1:GA:500:G:H2'	1:GA:501:C:C6	2.45	0.51
1:GA:592:G:H2'	1:GA:593:G:C8	2.44	0.51
2:GB:180:LEU:O	2:GB:182:ILE:HG13	2.10	0.51
2:GB:25:ASN:HB2	2:GB:191:ASP:HA	1.93	0.51
9:GI:25:LYS:HE2	9:GI:34:ASN:HD22	1.75	0.51
10:GJ:12:ASP:OD1	10:GJ:14:LYS:HB2	2.10	0.51
14:GN:34:TYR:HB3	14:GN:37:PHE:HD1	1.75	0.51
10:GJ:49:VAL:C	14:GN:45:ARG:HD2	2.29	0.51
17:GQ:54:GLY:H	17:GQ:85:VAL:CG2	2.23	0.51
20:GT:19:SER:HA	20:GT:22:ARG:HB2	1.92	0.51
22:HB:419:G:C8	53:H7:1:MET:HE1	2.42	0.51
53:H7:206:LYS:HB2	53:H7:212:ALA:HA	1.92	0.51
22:HB:1285:A:H1'	22:HB:1634:A:N3	2.25	0.51
22:HB:1288:A:N6	22:HB:1309:G:H5'	2.19	0.51
22:HB:1726:C:C2	22:HB:2835:A:C2	2.98	0.51
22:HB:3877:A:HO3'	22:HB:1861:G:P	2.27	0.51
22:HB:1971:C:H2'	22:HB:1972:G:C8	2.44	0.51
22:HB:1992:G:H5''	40:HT:62:ARG:NH2	2.24	0.51
22:HB:2204:A:H4'	22:HB:2205:C:O4'	2.09	0.51
22:HB:224:G:H4'	22:HB:399:G:C5	2.44	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:HB:2647:G:H2'	22:HB:2648:G:H8	1.76	0.51
22:HB:3123:G:H5'	53:H7:158:LYS:NZ	2.25	0.51
22:HB:50:G:H1'	22:HB:116:A:N6	2.25	0.51
22:HB:707:U:H5''	22:HB:1585:A:H61	1.75	0.51
22:HB:7:G:H5''	31:HK:79:PHE:HZ	1.75	0.51
24:HD:170:SER:O	24:HD:171:ASP:HB2	2.09	0.51
22:HB:1582:A:C8	24:HD:211:ARG:HG3	2.44	0.51
30:HJ:111:LYS:HE3	30:HJ:127:VAL:H	1.75	0.51
31:HK:90:LEU:HD22	31:HK:95:LEU:HD12	1.91	0.51
37:HQ:39:VAL:HG12	37:HQ:41:GLU:H	1.75	0.51
31:HK:67:ARG:HG3	38:HR:63:GLN:HE22	1.75	0.51
40:HT:127:ILE:HD11	40:HT:129:ALA:HB3	1.91	0.51
43:HW:123:VAL:O	43:HW:159:THR:HG23	2.09	0.51
44:HX:43:THR:HG21	44:HX:46:LYS:HG2	1.92	0.51
45:HY:44:ARG:HA	45:HY:47:ARG:CB	2.38	0.51
45:HY:55:THR:O	45:HY:56:VAL:HG22	2.11	0.51
46:HZ:3:ILE:CB	46:HZ:33:GLU:HA	2.37	0.51
1:IA:10:A:H1'	1:IA:507:C:O3'	2.09	0.51
1:IA:1316:G:O6	19:IS:5:LEU:C	2.49	0.51
1:IA:134:A:H2'	1:IA:135:C:O4'	2.10	0.51
1:IA:1374:A:N3	7:IG:29:LYS:CE	2.73	0.51
1:IA:237:C:H4'	17:IQ:27:PHE:CE1	2.41	0.51
1:IA:876:G:H2'	1:IA:877:C:O4'	2.10	0.51
4:ID:196:LEU:HD22	4:ID:198:VAL:O	2.10	0.51
17:IQ:54:GLY:H	17:IQ:85:VAL:CG2	2.23	0.51
51:J5:9:MET:O	51:J5:14:ILE:HD11	2.09	0.51
22:JB:1151:U:H4'	22:JB:1152:C:H5''	1.92	0.51
22:JB:1256:C:C2	33:JM:15:ASP:HA	2.45	0.51
22:JB:2288:A:H3'	22:JB:2289:A:C8	2.45	0.51
22:JB:2288:A:H3'	22:JB:2289:A:H8	1.75	0.51
22:JB:2526:U:C5	22:JB:2545:A:C5	2.98	0.51
22:JB:2590:U:H3'	22:JB:2591:C:H6	1.74	0.51
22:JB:2598:C:O2'	25:JE:154:LYS:NZ	2.37	0.51
22:JB:2852:G:H5'	37:JQ:8:ASN:HD22	1.75	0.51
22:JB:1:G:H2'	22:JB:2:G:O4'	2.09	0.51
22:JB:592:G:C3'	38:JR:5:LYS:CE	2.88	0.51
22:JB:719:A:N7	22:JB:738:G:C2	2.77	0.51
22:JB:846:A:H2	22:JB:2337:A:C6	2.26	0.51
22:JB:882:C:H2'	22:JB:883:A:O4'	2.09	0.51
22:JB:965:G:H5''	34:JN:18:MET:HG3	1.92	0.51
24:JD:176:ARG:NH1	24:JD:176:ARG:HB3	2.25	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:JE:7:THR:HB	25:JE:194:GLY:H	1.74	0.51
28:JH:96:ALA:HB1	28:JH:103:LEU:HD11	1.91	0.51
34:JN:44:LYS:HB3	34:JN:44:LYS:NZ	2.25	0.51
1:AA:1528:U:C4'	1:AA:1529:G:H21	2.23	0.51
1:AA:1528:U:H5'	1:AA:1529:G:N2	2.26	0.51
1:AA:836:G:P	18:AR:61:LYS:HE3	2.50	0.51
5:AE:104:ALA:HA	5:AE:107:ARG:NH2	2.25	0.51
1:AA:922:G:N2	5:AE:19:MET:HE1	2.25	0.51
6:AF:26:ILE:O	6:AF:30:LEU:HG	2.11	0.51
7:AG:135:VAL:HA	7:AG:138:LYS:HB3	1.92	0.51
12:AL:11:VAL:HG13	17:AQ:29:HIS:CD2	2.40	0.51
12:AL:41:ARG:O	12:AL:54:LYS:HA	2.10	0.51
16:AP:71:ARG:NE	16:AP:74:LEU:HB2	2.25	0.51
1:AA:178:C:P	20:AT:65:LYS:NZ	2.81	0.51
23:BA:95:U:OP1	43:BW:14:LEU:CG	2.58	0.51
22:BB:1288:A:H1'	35:BO:13:ASN:OD1	2.10	0.51
22:BB:1479:G:H21	22:BB:1543:G:N2	2.09	0.51
22:BB:2284:U:H3'	22:BB:2286:G:H8	1.75	0.51
22:BB:2486:C:H2'	22:BB:2487:G:O4'	2.11	0.51
22:BB:1750:A:H2	22:BB:2676:G:C4	2.27	0.51
22:BB:1750:A:C2	22:BB:2676:G:N9	2.76	0.51
22:BB:541:C:H5''	22:BB:542:A:C4	2.44	0.51
22:BB:569:C:C5'	31:BK:137:LYS:HE2	2.40	0.51
22:BB:682:G:C6	26:BF:49:ALA:HB2	2.44	0.51
22:BB:887:G:H2'	22:BB:888:G:H8	1.74	0.51
22:BB:910:U:C2'	22:BB:911:A:C8	2.94	0.51
22:BB:676:G:N3	22:BB:950:G:C4'	2.72	0.51
22:BB:579:G:OP1	22:BB:983:G:H4'	2.10	0.51
22:BB:1834:G:C1'	24:BD:244:ARG:CG	2.53	0.51
25:BE:4:ILE:HA	25:BE:198:LEU:HD12	1.91	0.51
27:BG:32:GLU:OE2	27:BG:33:LYS:HG3	2.10	0.51
27:BG:93:GLY:O	27:BG:96:MET:HB3	2.10	0.51
28:BH:5:GLY:HA2	28:BH:66:GLY:HA2	1.91	0.51
30:BJ:125:ASN:HD22	30:BJ:126:THR:N	2.06	0.51
31:BK:162:LYS:N	31:BK:162:LYS:HD3	2.25	0.51
22:BB:6:A:H1'	31:BK:163:PRO:CG	2.41	0.51
32:BL:83:ARG:HB3	32:BL:89:ILE:HG13	1.91	0.51
32:BL:7:ARG:O	32:BL:8:LEU:HD23	2.11	0.51
33:BM:45:LYS:HB2	33:BM:45:LYS:NZ	2.25	0.51
35:BO:45:ARG:N	35:BO:46:PRO:CD	2.72	0.51
22:BB:1336:G:H4'	40:BT:105:ARG:HD3	1.91	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:BU:17:TYR:CE1	41:BU:21:GLU:HG2	2.45	0.51
43:BW:43:PHE:HB2	43:BW:69:VAL:HG21	1.91	0.51
45:BY:55:THR:O	45:BY:56:VAL:HG22	2.10	0.51
1:CA:35:G:H21	12:CL:118:SER:CB	2.23	0.51
1:CA:373:A:H3'	1:CA:374:A:C8	2.45	0.51
1:CA:569:C:H1'	1:CA:574:A:H2'	1.93	0.51
1:CA:815:A:C5	1:CA:1529:G:N9	2.76	0.51
1:CA:921:U:H2'	1:CA:922:G:O4'	2.10	0.51
2:CB:187:LEU:HD11	2:CB:204:ASN:N	2.26	0.51
2:CB:204:ASN:ND2	2:CB:205:ASP:H	2.08	0.51
14:CN:9:LYS:HG2	14:CN:14:PRO:HG3	1.92	0.51
1:CA:1216:G:P	14:CN:3:ARG:NH1	2.83	0.51
14:CN:53:LEU:N	14:CN:53:LEU:HD23	2.25	0.51
10:CJ:63:PHE:C	14:CN:59:ALA:HB2	2.30	0.51
22:DB:2265:A:C4	49:D3:31:THR:HG21	2.45	0.51
50:D4:41:GLN:C	50:D4:42:LEU:HD22	2.30	0.51
53:D7:5:LYS:HZ2	53:D7:184:ILE:HG13	1.74	0.51
22:DB:1172:U:H1'	39:DS:8:GLY:CA	2.40	0.51
22:DB:1354:A:H3'	22:DB:1410:U:N3	2.24	0.51
22:DB:1535:C:H41	22:DB:1536:G:H21	1.54	0.51
22:DB:1831:G:O4'	22:DB:1910:A:C4'	2.57	0.51
22:DB:1960:A:H2'	22:DB:1961:A:C8	2.45	0.51
22:DB:1974:U:H3'	22:DB:1975:G:H5'	1.91	0.51
22:DB:1978:U:C3'	22:DB:1979:C:H5''	2.39	0.51
22:DB:2204:A:H4'	22:DB:2205:C:O4'	2.10	0.51
22:DB:2486:C:H2'	22:DB:2487:G:O4'	2.11	0.51
22:DB:2570:C:H2'	22:DB:2571:G:C8	2.45	0.51
22:DB:2591:C:H1'	48:D2:2:ALA:HB3	1.92	0.51
22:DB:2615:U:OP2	25:DE:78:LEU:HG	2.10	0.51
22:DB:2635:U:H2'	22:DB:2636:A:C8	2.45	0.51
22:DB:2659:C:C2	25:DE:187:ALA:CB	2.93	0.51
22:DB:338:G:O4'	42:DV:9:HIS:CD2	2.63	0.51
22:DB:423:G:O2'	22:DB:2386:G:H5'	2.10	0.51
22:DB:18:U:H1'	22:DB:564:U:OP1	2.10	0.51
22:DB:999:A:H4'	22:DB:1166:A:C2	2.46	0.51
27:DG:179:LYS:HB2	1:GA:1021:G:H4'	1.92	0.51
22:DB:2292:C:C3'	27:DG:88:LYS:HD3	2.38	0.51
27:DG:93:GLY:O	27:DG:96:MET:HB3	2.10	0.51
31:DK:139:ARG:NH2	31:DK:142:ARG:HB3	2.24	0.51
32:DL:25:LEU:HD22	32:DL:26:ASN:H	1.74	0.51
22:DB:680:U:OP1	33:DM:48:PHE:CD1	2.60	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:DQ:66:PHE:HB2	37:DQ:85:SER:HB3	1.91	0.51
38:DR:3:ARG:HG3	38:DR:4:ALA:N	2.24	0.51
39:DS:32:LYS:CD	39:DS:63:HIS:H	2.22	0.51
22:DB:319:G:OP2	40:DT:12:LYS:HE3	2.10	0.51
43:DW:67:LYS:HA	43:DW:128:ARG:NH2	2.24	0.51
44:DX:45:PHE:H	44:DX:76:ALA:H	1.59	0.51
46:DZ:14:GLY:HA2	46:DZ:17:VAL:CG2	2.40	0.51
1:EA:1349:A:N6	1:EA:1373:G:H1'	2.23	0.51
1:EA:369:C:H2'	1:EA:370:C:C6	2.45	0.51
1:EA:759:A:H61	17:EQ:98:LEU:HD22	1.75	0.51
3:EC:181:ASN:HD21	3:EC:204:LEU:HD22	1.74	0.51
1:EA:922:G:O2'	5:EE:19:MET:HE2	2.11	0.51
1:EA:878:G:H5'	8:EH:88:LYS:HB3	1.88	0.51
1:EA:1123:A:H1'	10:EJ:39:PRO:HD2	1.92	0.51
16:EP:81:ARG:HA	16:EP:81:ARG:HE	1.75	0.51
17:EQ:54:GLY:H	17:EQ:85:VAL:CG2	2.23	0.51
52:F6:13:ASN:CG	52:F6:28:SER:HA	2.31	0.51
22:FB:1261:G:C6	26:FF:44:SER:OG	2.59	0.51
22:FB:1535:C:H41	22:FB:1536:G:H21	1.54	0.51
22:FB:1583:A:N6	24:FD:89:SER:CA	2.64	0.51
22:FB:159:A:N3	22:FB:159:A:H2'	2.25	0.51
22:FB:1674:C:P	25:FE:134:TRP:CB	2.80	0.51
22:FB:1719:G:H2'	22:FB:1720:G:C8	2.45	0.51
22:FB:1960:A:H2'	22:FB:1961:A:C8	2.45	0.51
22:FB:2407:G:OP1	22:FB:2408:G:OP1	2.27	0.51
22:FB:2462:C:H2'	22:FB:2463:G:O4'	2.09	0.51
22:FB:2500:C:O2'	22:FB:2543:A:C4	2.59	0.51
22:FB:2635:U:H2'	22:FB:2636:A:C8	2.45	0.51
22:FB:2742:G:N2	28:FH:150:LYS:HE2	2.25	0.51
22:FB:413:G:N7	47:F1:63:PHE:CG	2.74	0.51
22:FB:477:A:OP1	50:F4:12:ARG:CZ	2.59	0.51
22:FB:755:C:H2'	22:FB:756:C:O4'	2.09	0.51
22:FB:857:U:C2	22:FB:946:U:C2	2.96	0.51
22:FB:756:C:H5''	25:FE:130:GLY:N	2.25	0.51
26:FF:72:ARG:NE	26:FF:77:PHE:HB3	2.24	0.51
27:FG:131:GLY:O	27:FG:132:ILE:O	2.28	0.51
33:FM:110:ALA:H	33:FM:129:ALA:HB2	1.74	0.51
33:FM:35:LYS:NZ	33:FM:35:LYS:HB2	2.25	0.51
33:FM:38:LYS:NZ	33:FM:43:ALA:HB1	2.24	0.51
36:FP:94:TYR:HD1	36:FP:95:LYS:HG2	1.74	0.51
39:FS:32:LYS:HZ2	39:FS:96:LEU:HB2	1.76	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:FS:32:LYS:CD	39:FS:63:HIS:H	2.22	0.51
43:FW:69:VAL:HG12	43:FW:70:GLN:H	1.74	0.51
44:FX:36:ILE:HG23	44:FX:69:PHE:HB2	1.92	0.51
20:AT:100:ILE:O	1:GA:180:U:C2	2.63	0.51
1:GA:721:G:OP2	18:GR:52:PRO:CB	2.53	0.51
1:GA:921:U:H2'	1:GA:922:G:O4'	2.10	0.51
1:GA:992:U:H1'	1:GA:993:G:C2	2.45	0.51
2:GB:115:LEU:O	2:GB:119:GLU:HB2	2.10	0.51
3:GC:71:ALA:HB2	3:GC:115:LEU:HD11	1.92	0.51
4:GD:196:LEU:HD22	4:GD:198:VAL:O	2.10	0.51
4:GD:60:GLU:O	4:GD:64:LEU:HD23	2.10	0.51
5:GE:105:VAL:HB	5:GE:106:PRO:HD3	1.90	0.51
6:GF:26:ILE:O	6:GF:30:LEU:HG	2.11	0.51
6:GF:4:TYR:HA	6:GF:92:LYS:HA	1.92	0.51
7:GG:95:ARG:O	7:GG:99:LEU:HG	2.09	0.51
9:GI:10:ARG:HG2	9:GI:75:ASP:OD2	2.09	0.51
12:GL:41:ARG:O	12:GL:54:LYS:HA	2.10	0.51
16:GP:60:LEU:HD23	16:GP:65:GLN:NE2	2.20	0.51
1:GA:234:C:O2	17:GQ:4:LYS:HE2	2.09	0.51
19:GS:33:THR:HB	19:GS:51:VAL:HG22	1.92	0.51
50:H4:41:GLN:C	50:H4:42:LEU:HD22	2.30	0.51
51:H5:41:ILE:HD13	51:H5:42:ARG:HE	1.75	0.51
53:H7:130:PRO:HA	53:H7:160:LYS:HE3	1.92	0.51
53:H7:53:PRO:HA	53:H7:154:SER:HB3	1.91	0.51
22:HB:1205:G:H2'	22:HB:1206:G:C8	2.45	0.51
22:HB:1234:C:H2'	22:HB:1235:C:H6	1.74	0.51
22:HB:1441:A:C1'	22:HB:1587:A:H62	2.23	0.51
22:HB:217:U:H5'	22:HB:633:G:HO2'	1.73	0.51
22:HB:1139:A:N6	22:HB:2469:G:C5'	2.73	0.51
22:HB:2487:G:O3'	22:HB:2534:U:OP1	2.28	0.51
22:HB:2523:G:C5'	22:HB:2624:G:N7	2.63	0.51
22:HB:3869:G:H2'	22:HB:3871:A:OP2	2.09	0.51
22:HB:593:C:OP1	38:HR:5:LYS:N	2.42	0.51
22:HB:869:C:H2'	22:HB:870:C:C6	2.46	0.51
22:HB:90:G:H3'	22:HB:91:A:C5'	2.40	0.51
22:HB:1954:A:C5	24:HD:240:THR:N	2.74	0.51
25:HE:63:MET:HB2	25:HE:64:GLN:NE2	2.25	0.51
27:HG:93:GLY:O	27:HG:96:MET:HB3	2.10	0.51
31:HK:122:HIS:O	31:HK:124:GLU:HG2	2.10	0.51
34:HN:44:LYS:NZ	34:HN:44:LYS:HB3	2.25	0.51
22:HB:2814:G:H5'	35:HO:46:PRO:HD3	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:HP:5:THR:O	36:HP:9:ARG:HB3	2.10	0.51
38:HR:3:ARG:HG3	38:HR:4:ALA:N	2.24	0.51
41:HU:53:ILE:HG13	41:HU:54:SER:N	2.25	0.51
43:HW:47:SER:C	43:HW:49:THR:H	2.12	0.51
46:HZ:14:GLY:HA2	46:HZ:17:VAL:CG2	2.40	0.51
1:IA:1151:A:H5'	10:IJ:42:THR:N	2.08	0.51
1:IA:1223:C:OP1	19:IS:78:ARG:CZ	2.59	0.51
1:IA:1296:C:O3'	13:IM:13:LYS:NZ	2.34	0.51
1:IA:592:G:H2'	1:IA:593:G:C8	2.44	0.51
4:ID:15:GLU:HG3	4:ID:63:LYS:HG3	1.92	0.51
5:IE:105:VAL:HB	5:IE:106:PRO:HD3	1.91	0.51
8:IH:39:LEU:HB3	8:IH:45:ILE:CG1	2.39	0.51
1:IA:599:C:O2'	8:IH:97:VAL:HG23	2.10	0.51
1:IA:779:C:C1'	11:IK:120:ARG:HD3	2.36	0.51
12:IL:57:LYS:HA	12:IL:67:THR:HA	1.91	0.51
13:IM:50:GLU:O	13:IM:54:VAL:HG23	2.10	0.51
10:IJ:63:PHE:O	14:IN:59:ALA:HB2	2.10	0.51
16:IP:81:ARG:HE	16:IP:81:ARG:HA	1.75	0.51
1:IA:129(A):G:C4'	17:IQ:63:ARG:HD3	2.38	0.51
18:IR:35:ARG:NH2	18:IR:36:ASN:HD21	2.08	0.51
51:J5:13:ARG:HH11	51:J5:23:MET:C	2.14	0.51
22:JB:2734:U:N1	52:J6:15:LYS:HD3	2.26	0.51
22:JB:419:G:OP1	53:J7:191:GLU:O	2.28	0.51
22:JB:118:U:O2'	22:JB:119:G:H5''	2.10	0.51
22:JB:1205:G:H2'	22:JB:1206:G:C8	2.45	0.51
22:JB:1225:G:H1	40:JT:12:LYS:HE3	1.75	0.51
22:JB:1285:A:H1'	22:JB:1634:A:N3	2.25	0.51
22:JB:1971:C:H2'	22:JB:1972:G:C8	2.44	0.51
22:JB:1996:A:C5'	40:JT:117:ILE:HG22	2.40	0.51
22:JB:2204:A:H4'	22:JB:2205:C:O4'	2.09	0.51
22:JB:221:A:OP2	51:J5:7:HIS:CG	2.64	0.51
22:JB:2282:G:H2'	22:JB:2283:G:C8	2.46	0.51
22:JB:230:C:H41	51:J5:4:MET:HE1	1.59	0.51
22:JB:2550:C:O2	22:JB:2553:G:H1'	2.11	0.51
22:JB:529:U:OP1	40:JT:39:ARG:HB2	2.07	0.51
22:JB:707:U:H5''	22:JB:1585:A:H61	1.75	0.51
22:JB:793:G:H1'	22:JB:798:G:H22	1.74	0.51
22:JB:923:A:O4'	22:JB:2243:C:O2'	2.27	0.51
24:JD:63:ARG:NH2	24:JD:88:ARG:HD3	2.26	0.51
25:JE:76:ARG:HG2	25:JE:77:ILE:H	1.74	0.51
22:JB:2041:A:O3'	26:JF:64:THR:C	2.49	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:JH:6:LYS:HZ2	28:JH:7:GLN:H	1.58	0.51
29:JI:17:VAL:HG22	29:JI:17:VAL:O	2.10	0.51
31:JK:110:LEU:CG	31:JK:111:LYS:H	2.23	0.51
31:JK:120:SER:HA	31:JK:123:PRO:HG2	1.92	0.51
23:JA:92:G:N2	34:JN:22:ALA:CA	2.64	0.51
34:JN:26:ASP:HB3	34:JN:100:PRO:HB3	1.92	0.51
34:JN:98:VAL:CG1	34:JN:99:LYS:H	2.06	0.51
22:JB:2814:G:OP1	35:JO:8:ARG:NH1	2.43	0.51
41:JU:80:VAL:HG12	41:JU:81:ARG:H	1.75	0.51
22:JB:338:G:O2'	42:JV:7:GLY:CA	2.58	0.51
44:JX:32:LYS:HA	44:JX:66:LYS:NZ	2.25	0.51
1:AA:181:G:OP2	20:GT:102:GLY:CA	2.57	0.51
1:AA:6:G:C8	5:AE:119:LEU:HD13	2.46	0.51
2:AB:119:GLU:HG3	2:AB:153:ARG:HH22	1.74	0.51
1:AA:1381:U:N1	7:AG:78:ARG:HA	2.25	0.51
8:AH:52:ASP:HA	8:AH:57:PRO:HB3	1.93	0.51
13:AM:50:GLU:O	13:AM:54:VAL:HG23	2.10	0.51
1:AA:262:A:C5'	20:AT:74:LYS:HZ2	2.19	0.51
52:B6:13:ASN:CG	52:B6:28:SER:HA	2.31	0.51
53:B7:53:PRO:HA	53:B7:154:SER:HB3	1.92	0.51
22:BB:1016:C:H2'	22:BB:1017:C:C6	2.44	0.51
22:BB:1234:C:H2'	22:BB:1235:C:H6	1.74	0.51
22:BB:1397:A:H2	22:BB:1418:C:N4	1.90	0.51
22:BB:1583:A:N6	24:BD:89:SER:HA	2.25	0.51
22:BB:159:A:N3	22:BB:159:A:H2'	2.25	0.51
22:BB:13:A:H2'	22:BB:15:G:O6	2.11	0.51
22:BB:1818:G:H2'	22:BB:1819:U:C6	2.45	0.51
22:BB:1978:U:C3'	22:BB:1979:C:H5''	2.40	0.51
22:BB:2287:G:H5'	22:BB:2288:A:OP1	2.11	0.51
22:BB:2493:U:O2'	22:BB:2494:C:H5'	2.11	0.51
22:BB:2570:C:H2'	22:BB:2571:G:H8	1.74	0.51
22:BB:2503:G:N3	22:BB:2720:A:C2	2.79	0.51
22:BB:429:C:O2	22:BB:2386:G:N2	2.43	0.51
22:BB:906:U:H2'	22:BB:907:U:C6	2.46	0.51
22:BB:968:C:P	34:BN:92:GLU:OE2	2.69	0.51
24:BD:119:ALA:HA	24:BD:129:ASN:H	1.74	0.51
24:BD:70:ARG:HD3	24:BD:70:ARG:O	2.10	0.51
22:BB:1070:G:C6	30:BJ:126:THR:HG22	2.45	0.51
22:BB:2463:G:H4'	34:BN:47:GLN:CA	2.38	0.51
41:BU:75:ARG:HE	41:BU:75:ARG:HA	1.74	0.51
1:CA:134:A:H2'	1:CA:135:C:O4'	2.09	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:1528:U:H5'	1:CA:1529:G:N2	2.26	0.51
1:CA:301:G:H2'	1:CA:302:G:C8	2.45	0.51
1:CA:7:G:H8	5:CE:119:LEU:HD13	1.75	0.51
9:CI:75:ASP:C	9:CI:77:ILE:H	2.13	0.51
1:CA:1317:C:P	14:CN:18:VAL:CG1	2.85	0.51
15:CO:82:ILE:C	15:CO:84:LYS:H	2.14	0.51
18:CR:35:ARG:NH2	18:CR:36:ASN:HD21	2.08	0.51
22:DB:2040:A:C4'	48:D2:6:VAL:HG22	2.36	0.51
22:DB:14:A:H2	22:DB:2605:C:H5'	1.74	0.51
22:DB:13:A:H2'	22:DB:15:G:O6	2.11	0.51
22:DB:1818:G:H2'	22:DB:1819:U:C6	2.45	0.51
22:DB:2462:C:H2'	22:DB:2463:G:O4'	2.09	0.51
22:DB:2646:C:N1	28:DH:109:TYR:CD1	2.79	0.51
22:DB:631:G:H4'	22:DB:632:A:H2	1.74	0.51
22:DB:906:U:H2'	22:DB:907:U:C6	2.45	0.51
22:DB:579:G:OP1	22:DB:983:G:H4'	2.10	0.51
22:DB:2612:G:O4'	25:DE:59:VAL:HG21	2.10	0.51
28:DH:144:VAL:O	28:DH:147:ASN:HB2	2.10	0.51
28:DH:55:PRO:HD2	28:DH:61:HIS:NE2	2.24	0.51
31:DK:122:HIS:O	31:DK:124:GLU:HG2	2.10	0.51
22:DB:1203:A:C4'	33:DM:35:LYS:HA	2.41	0.51
22:DB:1288:A:H2	35:DO:15:SER:O	1.93	0.51
41:DU:53:ILE:HG13	41:DU:54:SER:N	2.25	0.51
43:DW:124:ALA:HB2	43:DW:160:LEU:H	1.75	0.51
43:DW:67:LYS:HD3	43:DW:82:ASP:HB3	1.93	0.51
1:EA:134:A:H2'	1:EA:135:C:O4'	2.10	0.51
1:EA:1467:G:H2'	1:EA:1468:A:H8	1.74	0.51
1:EA:944:G:N2	1:EA:1339:A:H5''	2.25	0.51
2:EB:178:ARG:NH2	2:EB:198:ASP:HA	2.25	0.51
1:EA:598:U:N3	8:EH:115:SER:OG	2.32	0.51
11:EK:34:ASP:HB2	11:EK:35:PRO:HD2	1.92	0.51
11:EK:91:ARG:O	11:EK:95:ILE:HG13	2.09	0.51
3:EC:6:HIS:HB2	14:EN:49:HIS:HD2	1.68	0.51
1:EA:238:G:P	17:EQ:38:ARG:HH21	2.34	0.51
1:EA:188:C:N4	20:ET:105:SER:N	2.58	0.51
20:ET:19:SER:HA	20:ET:22:ARG:HB2	1.92	0.51
53:F7:130:PRO:HA	53:F7:160:LYS:HE3	1.92	0.51
53:F7:64:VAL:CG2	53:F7:152:LYS:HG2	2.41	0.51
22:FB:2258:G:C2	22:FB:2306:A:N3	2.78	0.51
22:FB:2570:C:H2'	22:FB:2571:G:H8	1.74	0.51
22:FB:2633:A:C5'	22:FB:2634:G:H4'	2.41	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:FB:3873:G:H2'	22:FB:3874:C:N1	2.25	0.51
25:FE:76:ARG:HG2	25:FE:77:ILE:H	1.74	0.51
22:FB:1268:U:C5	26:FF:66:ASN:HB3	2.45	0.51
28:FH:103:LEU:HD23	28:FH:105:MET:SD	2.51	0.51
38:FR:91:ASN:OD1	39:FS:10:LYS:CE	2.58	0.51
22:FB:63:A:O2'	41:FU:71:GLN:NE2	2.44	0.51
41:FU:80:VAL:HG12	41:FU:81:ARG:H	1.76	0.51
42:FV:99:VAL:HG12	42:FV:100:ASP:H	1.75	0.51
43:FW:123:VAL:O	43:FW:159:THR:HG23	2.09	0.51
1:GA:1320:C:H2'	1:GA:1321:C:O4'	2.10	0.51
1:GA:1393:U:P	1:GA:1530:G:P	3.08	0.51
1:GA:1517:G:O4'	22:HB:1902:A:O3'	2.29	0.51
1:GA:1528:U:C4'	1:GA:1529:G:H21	2.23	0.51
1:GA:559:A:H2	5:GE:126:ARG:CD	2.11	0.51
3:GC:11:ARG:HB3	3:GC:15:THR:O	2.10	0.51
1:GA:1107:C:OP1	3:GC:173:VAL:C	2.49	0.51
4:GD:15:GLU:HG3	4:GD:63:LYS:HG3	1.92	0.51
9:GI:27:THR:HG23	9:GI:32:ASP:N	2.26	0.51
9:GI:75:ASP:C	9:GI:77:ILE:H	2.13	0.51
10:GJ:51:ARG:HA	14:GN:45:ARG:NH1	2.06	0.51
14:GN:12:ARG:HD3	14:GN:13:THR:H	1.76	0.51
14:GN:15:LYS:HD3	14:GN:16:PHE:N	2.20	0.51
1:GA:254:G:C1'	17:GQ:17:LYS:O	2.56	0.51
22:HB:3122:U:C3'	53:H7:158:LYS:NZ	2.73	0.51
22:HB:1:G:H2'	22:HB:2:G:O4'	2.09	0.51
22:HB:2310:G:O3'	44:HX:70:ILE:O	2.28	0.51
22:HB:1041:G:O2'	22:HB:2445:C:H5'	2.10	0.51
22:HB:2471:U:HO3'	22:HB:2472:U:P	2.28	0.51
22:HB:2621:G:H2'	22:HB:2622:G:C8	2.45	0.51
22:HB:3171:A:OP1	53:H7:105:ARG:HD2	2.10	0.51
22:HB:602:C:O2'	51:H5:3:LYS:CB	2.50	0.51
22:HB:990:A:H3'	22:HB:991:A:C5'	2.40	0.51
22:HB:2550:C:O2'	25:HE:144:ARG:N	2.44	0.51
25:HE:187:ALA:O	25:HE:188:ILE:HG22	2.09	0.51
25:HE:7:THR:HB	25:HE:194:GLY:H	1.74	0.51
27:HG:103:LEU:C	27:HG:105:ASN:H	2.14	0.51
28:HH:144:VAL:O	28:HH:147:ASN:HB2	2.10	0.51
22:HB:1078:A:H2	30:HJ:23:VAL:CG1	2.10	0.51
32:HL:76:ARG:HB3	32:HL:90:ARG:NH1	2.25	0.51
34:HN:60:ARG:HB3	34:HN:62:GLY:O	2.11	0.51
38:HR:24:PHE:HB3	38:HR:28:ARG:HE	1.76	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:HB:71:A:H5'	45:HY:54:ASN:HB3	1.88	0.51
1:IA:1316:G:H1	19:IS:5:LEU:CA	2.22	0.51
1:IA:1320:C:H2'	1:IA:1321:C:O4'	2.10	0.51
1:IA:13:U:C4'	1:IA:914:A:OP2	2.58	0.51
1:IA:815:A:O2'	1:IA:1526:G:C4	2.64	0.51
1:IA:510:A:HO2'	4:ID:43:HIS:CD2	2.28	0.51
1:IA:768:A:C1'	1:IA:1523:G:H22	2.22	0.51
2:IB:189:ASP:CB	2:IB:204:ASN:HA	2.38	0.51
2:IB:74:LYS:HB2	2:IB:165:VAL:HG11	1.91	0.51
7:IG:145:ALA:CA	7:IG:148:ASN:HB2	2.40	0.51
9:II:28:VAL:HG13	9:II:63:ILE:HG22	1.92	0.51
17:IQ:64:PRO:HB3	17:IQ:70:ARG:NH2	2.25	0.51
19:IS:33:THR:HB	19:IS:51:VAL:HG22	1.92	0.51
22:JB:2397:A:OP1	51:J5:41:ILE:CG1	2.56	0.51
51:J5:41:ILE:HD13	51:J5:42:ARG:HE	1.75	0.51
23:JA:33:C:H2'	23:JA:34:C:C6	2.46	0.51
22:JB:1088:A:OP1	30:JJ:92:ASN:HB2	2.11	0.51
22:JB:1174:G:HO2'	22:JB:1175:A:H5'	1.75	0.51
22:JB:1234:C:H2'	22:JB:1235:C:H6	1.75	0.51
22:JB:2200:G:C2	24:JD:149:PRO:HB3	2.44	0.51
22:JB:2264:C:C6	49:J3:28:ARG:CB	2.87	0.51
22:JB:1040:A:C4	22:JB:2465:G:O4'	2.64	0.51
22:JB:2477:C:H2'	22:JB:2478:C:C5	2.46	0.51
22:JB:2647:G:H2'	22:JB:2648:G:H8	1.76	0.51
22:JB:336:A:H2'	22:JB:337:G:O4'	2.09	0.51
22:JB:645:G:H2'	22:JB:646:C:C6	2.45	0.51
22:JB:697:G:H1	22:JB:807:A:H2	1.59	0.51
22:JB:90:G:H3'	22:JB:91:A:C5'	2.40	0.51
22:JB:93:A:C2	45:JY:41:HIS:CE1	2.98	0.51
22:JB:946:U:H2'	22:JB:947:C:C5	2.45	0.51
30:JJ:57:ILE:HG23	30:JJ:57:ILE:O	2.11	0.51
31:JK:61:ARG:HA	31:JK:65:LYS:HB2	1.91	0.51
32:JL:7:ARG:O	32:JL:8:LEU:HD23	2.11	0.51
34:JN:60:ARG:NE	43:JW:111:GLY:H	2.08	0.51
35:JO:13:ASN:HB2	35:JO:16:ALA:HB2	1.92	0.51
43:JW:84:TYR:CG	43:JW:92:VAL:CG2	2.94	0.51
41:JU:9:ALA:HB2	45:JY:26:MET:CE	2.40	0.51
1:AA:1157:A:H61	1:AA:1178:G:H1'	1.75	0.51
1:AA:1319:A:H5'	19:AS:70:LYS:HZ3	1.69	0.51
1:AA:373:A:H3'	1:AA:374:A:C8	2.45	0.51
1:AA:546:G:OP2	4:AD:71:SER:CB	2.56	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AC:119:ARG:O	3:AC:123:GLN:HG3	2.10	0.51
4:AD:60:GLU:O	4:AD:64:LEU:HD23	2.10	0.51
1:AA:1128:C:H4'	9:AI:18:PHE:HZ	1.73	0.51
10:AJ:47:PHE:CE1	14:AN:56:VAL:HG12	2.21	0.51
13:AM:88:ARG:HG2	13:AM:91:ARG:CB	2.39	0.51
1:AA:668:G:C3'	15:AO:48:LYS:NZ	2.71	0.51
1:AA:624:C:C4'	16:AP:10:GLY:C	2.60	0.51
50:B4:41:GLN:C	50:B4:42:LEU:HD22	2.30	0.51
23:BA:64:C:H2'	23:BA:65:A:C8	2.45	0.51
22:BB:122:G:OP1	22:BB:1389:C:C2'	2.58	0.51
22:BB:127:C:H4'	22:BB:1360:G:C2	2.46	0.51
22:BB:1354:A:H3'	22:BB:1410:U:N3	2.24	0.51
22:BB:1544:A:H2'	22:BB:1545:G:H4'	1.93	0.51
22:BB:1960:A:H2'	22:BB:1961:A:C8	2.45	0.51
22:BB:2523:G:N3	22:BB:2625:U:C4'	2.70	0.51
22:BB:14:A:H2	22:BB:2605:C:H5'	1.75	0.51
22:BB:2633:A:C5'	22:BB:2634:G:H4'	2.41	0.51
22:BB:2768:C:O2	22:BB:2866:A:H2	1.94	0.51
22:BB:3196:G:H1	22:BB:2204:A:H62	1.58	0.51
22:BB:415:A:HO2'	22:BB:420:C:H5'	1.75	0.51
22:BB:504:G:O2'	40:BT:26:ALA:HA	2.10	0.51
22:BB:215:G:O2'	22:BB:618:A:C1'	2.58	0.51
22:BB:619:A:N3	22:BB:620:G:N7	2.59	0.51
22:BB:640:C:H2'	22:BB:641:G:O4'	2.10	0.51
22:BB:916:U:O2	43:BW:165:GLU:C	2.49	0.51
24:BD:63:ARG:NH2	24:BD:88:ARG:HD3	2.26	0.51
33:BM:107:LYS:HB2	33:BM:126:SER:HB2	1.92	0.51
33:BM:35:LYS:NZ	33:BM:35:LYS:HB2	2.26	0.51
22:BB:1040:A:H5''	34:BN:125:LYS:HZ3	1.72	0.51
23:BA:78:A:C5'	43:BW:31:SER:CB	2.79	0.51
1:CA:1468:A:H3'	1:CA:1469:G:C8	2.43	0.51
1:CA:944:G:N2	1:CA:1339:A:H5''	2.25	0.51
4:CD:97:LEU:HA	4:CD:100:ARG:HD3	1.92	0.51
7:CG:145:ALA:CA	7:CG:148:ASN:HB2	2.40	0.51
11:CK:105:VAL:HG12	11:CK:106:LYS:H	1.76	0.51
11:CK:34:ASP:HB2	11:CK:35:PRO:HD2	1.92	0.51
1:CA:1230:C:N3	13:CM:125:ARG:CD	2.62	0.51
14:CN:27:CYS:HB2	14:CN:43:CYS:SG	2.51	0.51
16:CP:4:ILE:HA	16:CP:20:VAL:O	2.11	0.51
19:CS:6:LYS:HB3	19:CS:7:LYS:HZ3	1.75	0.51
1:CA:323:U:HO2'	20:CT:15:ARG:HD3	1.70	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
51:D5:41:ILE:HD13	51:D5:42:ARG:HE	1.75	0.51
53:D7:64:VAL:CG2	53:D7:152:LYS:HG2	2.41	0.51
22:DB:1016:C:H2'	22:DB:1017:C:C6	2.44	0.51
22:DB:1166:A:C4	22:DB:1168:G:N7	2.78	0.51
22:DB:1671:A:C2	25:DE:113:THR:O	2.62	0.51
22:DB:19:C:H5'	22:DB:563:U:OP1	2.10	0.51
22:DB:2287:G:H5'	22:DB:2288:A:OP1	2.11	0.51
22:DB:2303:C:O2'	22:DB:2316:G:H5''	2.11	0.51
22:DB:8:A:N6	22:DB:2608:A:OP2	2.43	0.51
22:DB:619:A:N3	22:DB:620:G:N7	2.59	0.51
22:DB:869:C:H2'	22:DB:870:C:C6	2.46	0.51
22:DB:913:A:H2'	22:DB:914:C:C5	2.45	0.51
22:DB:1673:C:H4'	25:DE:136:ARG:HG2	1.73	0.51
25:DE:119:ARG:HG2	25:DE:155:ARG:CB	2.38	0.51
27:DG:32:GLU:OE2	27:DG:33:LYS:HG3	2.10	0.51
28:DH:5:GLY:HA2	28:DH:66:GLY:HA2	1.91	0.51
34:DN:131:LYS:HE2	43:DW:43:PHE:CD2	2.45	0.51
1:EA:1374:A:O4'	7:EG:31:MET:HE2	2.10	0.51
1:EA:447:G:H1'	1:EA:487:A:H61	1.74	0.51
1:EA:546:G:O6	4:ED:4:TYR:HA	2.10	0.51
1:EA:61:G:H2'	1:EA:62:U:O4'	2.10	0.51
1:EA:690:G:P	11:EK:27:ASN:HB3	2.51	0.51
4:ED:97:LEU:HA	4:ED:100:ARG:HD3	1.93	0.51
7:EG:68:ASN:ND2	7:EG:127:ALA:HB1	2.25	0.51
1:EA:1343:G:H1'	9:EI:121:ARG:HH21	1.74	0.51
10:EJ:85:LEU:HD23	10:EJ:88:LEU:HD12	1.92	0.51
1:EA:130:A:P	17:EQ:63:ARG:HE	2.33	0.51
6:EF:49:ALA:HB2	18:ER:79:LEU:HD23	1.92	0.51
19:ES:33:THR:HB	19:ES:51:VAL:HG22	1.92	0.51
22:FB:1354:A:H3'	22:FB:1410:U:N3	2.24	0.51
22:FB:14:A:H2	22:FB:2605:C:H5'	1.75	0.51
22:FB:2303:C:O2'	22:FB:2316:G:H5''	2.11	0.51
22:FB:2714:A:N6	22:FB:2749:A:H2	2.05	0.51
22:FB:63:A:O2'	41:FU:71:GLN:CD	2.49	0.51
22:FB:643:A:C2	22:FB:2382:C:C4'	2.92	0.51
22:FB:717:G:C6	22:FB:739:G:O6	2.63	0.51
22:FB:913:A:H2'	22:FB:914:C:C5	2.45	0.51
22:FB:999:A:OP2	46:FZ:8:SER:N	2.41	0.51
24:FD:245:VAL:HG11	24:FD:249:PRO:HD3	1.92	0.51
24:FD:63:ARG:NH2	24:FD:88:ARG:HD3	2.26	0.51
28:FH:144:VAL:O	28:FH:147:ASN:HB2	2.10	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:FK:122:HIS:O	31:FK:124:GLU:HG2	2.10	0.51
22:FB:1670:G:O6	35:FO:10:LEU:O	2.28	0.51
36:FP:5:THR:C	36:FP:7:ILE:H	2.14	0.51
38:FR:106:PHE:HA	38:FR:109:LEU:HB3	1.91	0.51
44:FX:32:LYS:HG3	44:FX:33:ALA:H	1.76	0.51
1:GA:1250:A:P	9:GI:68:GLY:N	2.83	0.51
1:GA:29:G:C4'	1:GA:295:C:H4'	2.33	0.51
1:GA:369:C:H2'	1:GA:370:C:C6	2.45	0.51
1:GA:956:U:C4'	19:GS:80:TYR:HE1	2.24	0.51
12:GL:47:LYS:HG3	12:GL:48:PRO:CD	2.37	0.51
12:GL:64:TYR:O	12:GL:66:VAL:HG22	2.10	0.51
14:GN:9:LYS:HG2	14:GN:14:PRO:HG3	1.92	0.51
22:HB:1070:G:C1'	30:HJ:126:THR:CG2	2.88	0.51
22:HB:118:U:O2'	22:HB:119:G:H5''	2.10	0.51
22:HB:55:A:O2'	22:HB:125:A:C4	2.62	0.51
22:HB:1693:A:C2	25:HE:129:HIS:ND1	2.78	0.51
22:HB:2034:A:H61	22:HB:2593:A:H1'	1.74	0.51
22:HB:2303:C:O2'	22:HB:2316:G:H5''	2.10	0.51
22:HB:2321:C:O2'	22:HB:2353:G:H5''	2.11	0.51
22:HB:2477:C:H2'	22:HB:2478:C:C5	2.46	0.51
22:HB:2608:A:N6	22:HB:2869:U:C2	2.78	0.51
22:HB:336:A:H2'	22:HB:337:G:O4'	2.09	0.51
22:HB:553:C:H5'	22:HB:554:U:OP2	2.10	0.51
22:HB:677:G:C3'	22:HB:678:G:H8	2.23	0.51
22:HB:887:G:H2'	22:HB:888:G:H8	1.74	0.51
24:HD:175:VAL:HG12	24:HD:176:ARG:O	2.11	0.51
24:HD:55:GLY:HA2	24:HD:218:LYS:N	2.26	0.51
27:HG:13:ARG:H	27:HG:14:PRO:CD	2.24	0.51
28:HH:148:VAL:HB	28:HH:152:ARG:NE	2.25	0.51
30:HJ:119:SER:N	30:HJ:123:ALA:HB2	2.25	0.51
30:HJ:23:VAL:HB	30:HJ:27:LEU:HD12	1.93	0.51
33:HM:110:ALA:H	33:HM:129:ALA:HB2	1.74	0.51
34:HN:42:TRP:HA	34:HN:94:TRP:CH2	2.45	0.51
34:HN:28:VAL:HG12	43:HW:117:VAL:O	2.07	0.51
43:HW:19:ILE:HG13	43:HW:20:ALA:N	2.25	0.51
22:HB:75:C:O2'	45:HY:56:VAL:CG1	2.58	0.51
1:IA:1468:A:H3'	1:IA:1469:G:C8	2.43	0.51
1:IA:17:U:H5'	5:IE:16:THR:HB	1.93	0.51
1:IA:684:A:O4'	11:IK:38:ASN:CG	2.49	0.51
2:IB:210:SER:O	2:IB:214:ILE:HG12	2.11	0.51
1:IA:642:A:H4'	8:IH:118:VAL:HG23	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:IA:590:C:C5'	8:IH:30:ARG:HG3	2.34	0.51
9:II:10:ARG:HG2	9:II:75:ASP:OD2	2.09	0.51
1:IA:690:G:P	11:IK:27:ASN:HB3	2.50	0.51
15:IO:57:LEU:HA	15:IO:60:VAL:HG23	1.92	0.51
1:IA:187:G:H4'	20:IT:104:LEU:CA	2.38	0.51
1:IA:1408:A:C5'	22:JB:1900:U:O4	2.56	0.51
22:JB:837:U:O2	22:JB:2337:A:N7	2.44	0.51
22:JB:2486:C:C4'	22:JB:2552:C:N4	2.72	0.51
22:JB:2621:G:H2'	22:JB:2622:G:C8	2.45	0.51
22:JB:3187:U:OP1	29:JI:11:LEU:HD11	2.11	0.51
22:JB:53:G:H5'	50:J4:36:ALA:HB1	1.92	0.51
22:JB:61:U:O4	22:JB:91:A:N6	2.43	0.51
22:JB:869:C:H2'	22:JB:870:C:C6	2.46	0.51
22:JB:923:A:H4'	22:JB:2243:C:H4'	1.91	0.51
22:JB:1583:A:C8	24:JD:84:TYR:HD1	2.24	0.51
25:JE:93:VAL:HG13	25:JE:98:GLU:OE1	2.11	0.51
22:JB:2283:G:C2'	27:JG:153:ASP:OD1	2.58	0.51
27:JG:32:GLU:OE2	27:JG:33:LYS:HG3	2.10	0.51
31:JK:135:LEU:C	31:JK:137:LYS:H	2.13	0.51
32:JL:25:LEU:HD22	32:JL:26:ASN:H	1.74	0.51
36:JP:5:THR:C	36:JP:7:ILE:H	2.14	0.51
39:JS:36:LYS:HA	39:JS:36:LYS:HZ3	1.75	0.51
38:JR:47:TYR:CE1	39:JS:74:TYR:HB3	2.42	0.51
22:JB:529:U:P	40:JT:39:ARG:CG	2.92	0.51
22:JB:1351:G:OP1	41:JU:13:SER:HB2	2.11	0.51
44:JX:29:GLU:H	44:JX:62:LEU:HB3	1.74	0.51
44:JX:36:ILE:HG23	44:JX:69:PHE:HB2	1.92	0.51
1:AA:115:G:H4'	1:AA:116:A:O5'	2.10	0.51
1:AA:339:C:H3'	32:BL:109:ARG:NE	2.25	0.51
1:AA:921:U:H2'	1:AA:922:G:O4'	2.10	0.51
4:AD:83:SER:HA	4:AD:89:THR:CG2	2.37	0.51
7:AG:139:GLU:HA	7:AG:142:GLU:CD	2.31	0.51
7:AG:145:ALA:CA	7:AG:148:ASN:HB2	2.39	0.51
9:AI:10:ARG:HB3	9:AI:72:GLY:O	2.10	0.51
11:AK:34:ASP:HB2	11:AK:35:PRO:HD2	1.92	0.51
6:AF:49:ALA:HB2	18:AR:79:LEU:N	2.26	0.51
53:B7:54:LEU:HD12	53:B7:153:ARG:O	2.11	0.51
23:BA:112:A:H2'	23:BA:113:G:O4'	2.11	0.51
23:BA:47:A:N6	27:BG:90:THR:HG21	2.26	0.51
22:BB:1038:U:H3	22:BB:1137:A:H5'	1.75	0.51
22:BB:1109:A:O2'	30:BJ:7:ILE:CG1	2.58	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:BB:1007:A:C6	22:BB:1171:A:C2	2.98	0.51
22:BB:705:C:H1'	22:BB:1367:A:O4'	2.10	0.51
22:BB:1866:G:H2'	22:BB:1867:A:C8	2.45	0.51
22:BB:2028:C:H2'	22:BB:2029:G:H8	1.74	0.51
22:BB:2365:U:O4'	44:BX:37:LEU:CD1	2.48	0.51
22:BB:2372:A:H1'	33:BM:60:LEU:N	2.24	0.51
22:BB:644:A:N3	22:BB:2382:C:H4'	2.25	0.51
22:BB:2399:C:H41	51:B5:31:HIS:CE1	2.28	0.51
22:BB:2490:U:C4'	25:BE:124:GLY:CA	2.78	0.51
22:BB:2635:U:H2'	22:BB:2636:A:C8	2.45	0.51
22:BB:1681:A:C4	22:BB:2706:U:C2	2.99	0.51
22:BB:1470:G:HO2'	22:BB:2828:C:P	2.34	0.51
22:BB:3171:A:H4'	22:BB:3172:U:C5'	2.41	0.51
22:BB:697:G:H1	22:BB:807:A:H2	1.59	0.51
22:BB:68:C:C2'	22:BB:72:A:H1'	2.37	0.51
22:BB:719:A:N6	22:BB:739:G:C1'	2.73	0.51
25:BE:76:ARG:HG2	25:BE:77:ILE:H	1.74	0.51
27:BG:128:TYR:HD2	27:BG:167:ARG:HH11	1.58	0.51
28:BH:144:VAL:O	28:BH:147:ASN:HB2	2.10	0.51
28:BH:96:ALA:HB1	28:BH:103:LEU:HD11	1.91	0.51
22:BB:1073:G:N2	30:BJ:133:SER:CB	2.73	0.51
34:BN:125:LYS:O	34:BN:126:LEU:HD23	2.10	0.51
34:BN:26:ASP:HB3	34:BN:100:PRO:HB3	1.92	0.51
34:BN:60:ARG:HB3	34:BN:62:GLY:O	2.11	0.51
22:BB:2814:G:C3'	35:BO:50:GLN:HA	2.29	0.51
38:BR:41:ASN:C	38:BR:43:ALA:H	2.13	0.51
34:BN:99:LYS:NZ	43:BW:73:LYS:NZ	2.59	0.51
1:CA:1298:C:C4	7:CG:114:ARG:CB	2.93	0.51
2:CB:25:ASN:HB2	2:CB:191:ASP:HA	1.93	0.51
4:CD:107:ARG:HH11	4:CD:107:ARG:CA	2.18	0.51
6:CF:26:ILE:O	6:CF:30:LEU:HG	2.10	0.51
9:CI:27:THR:HG23	9:CI:32:ASP:N	2.26	0.51
15:CO:16:ALA:HB1	15:CO:21:ASP:CB	2.37	0.51
15:CO:57:LEU:HA	15:CO:60:VAL:HG23	1.91	0.51
52:D6:13:ASN:CG	52:D6:28:SER:HA	2.31	0.51
22:DB:1038:U:H3	22:DB:1137:A:H5'	1.75	0.51
22:DB:1354:A:OP2	41:DU:56:MET:CE	2.58	0.51
22:DB:1544:A:H2'	22:DB:1545:G:H4'	1.93	0.51
22:DB:1667:A:H2'	22:DB:1668:G:C8	2.44	0.51
22:DB:2028:C:H2'	22:DB:2029:G:H8	1.74	0.51
22:DB:2427:A:OP1	22:DB:2477:C:H3'	2.11	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:DB:2633:A:C5'	22:DB:2634:G:H4'	2.41	0.51
22:DB:2728:A:O2'	28:DH:67:LEU:CB	2.33	0.51
22:DB:2752:C:O3'	25:DE:164:ARG:CB	2.59	0.51
22:DB:2756:A:H2'	22:DB:2762:G:C8	2.46	0.51
22:DB:418:C:H5''	53:D7:1:MET:HE3	1.92	0.51
22:DB:507:A:H2'	22:DB:508:G:C8	2.45	0.51
22:DB:969:U:H5	34:DN:21:ASP:CG	2.14	0.51
24:DD:176:ARG:HB3	24:DD:176:ARG:NH1	2.25	0.51
24:DD:175:VAL:HG12	24:DD:176:ARG:O	2.10	0.51
22:DB:742:G:N7	24:DD:18:THR:HB	2.15	0.51
24:DD:243:GLY:C	24:DD:245:VAL:H	2.14	0.51
22:DB:1805:G:H4'	24:DD:43:ARG:C	2.30	0.51
25:DE:4:ILE:HA	25:DE:198:LEU:HD12	1.92	0.51
31:DK:162:LYS:HD3	31:DK:162:LYS:N	2.25	0.51
32:DL:8:LEU:HD22	32:DL:93:ARG:O	2.10	0.51
32:DL:7:ARG:O	32:DL:8:LEU:HD23	2.11	0.51
33:DM:107:LYS:HB2	33:DM:126:SER:HB2	1.92	0.51
22:DB:596:C:C5'	33:DM:28:LYS:NZ	2.62	0.51
22:DB:2395:C:P	33:DM:63:ARG:N	2.83	0.51
36:DP:5:THR:C	36:DP:7:ILE:H	2.14	0.51
36:DP:5:THR:O	36:DP:9:ARG:HB3	2.10	0.51
38:DR:111:ASP:HA	38:DR:114:ARG:HB2	1.91	0.51
38:DR:61:TRP:O	38:DR:62:ILE:HG23	2.10	0.51
44:DX:36:ILE:HG23	44:DX:69:PHE:HB2	1.92	0.51
45:DY:55:THR:O	45:DY:56:VAL:HG22	2.11	0.51
1:EA:1236:A:C4'	1:EA:1304:G:H4'	2.39	0.51
1:EA:1528:U:H4'	1:EA:1529:G:H21	1.75	0.51
1:EA:782:A:H2'	1:EA:783:C:O4'	2.11	0.51
1:EA:800:G:HO2'	1:EA:801:U:H6	1.58	0.51
3:EC:11:ARG:HB3	3:EC:15:THR:O	2.10	0.51
1:EA:18:C:P	5:EE:14:ARG:NH1	2.75	0.51
12:EL:41:ARG:O	12:EL:54:LYS:HA	2.10	0.51
1:EA:521:G:H5'	12:EL:72:GLY:N	2.26	0.51
13:EM:80:ARG:HD3	13:EM:80:ARG:H	1.74	0.51
13:EM:89:GLY:C	13:EM:92:HIS:CD2	2.84	0.51
3:EC:18:TRP:CE2	14:EN:53:LEU:HG	2.39	0.51
16:EP:4:ILE:HA	16:EP:20:VAL:O	2.11	0.51
22:FB:1629:G:O4'	50:F4:3:ARG:NE	2.16	0.51
53:F7:52:VAL:HG21	53:F7:190:ILE:HD11	1.93	0.51
22:FB:1005:U:P	38:FR:50:ARG:O	2.69	0.51
22:FB:1016:C:H2'	22:FB:1017:C:C6	2.44	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:FB:1140:A:N3	22:FB:2549:G:O2'	2.40	0.51
22:FB:1234:C:H2'	22:FB:1235:C:H6	1.75	0.51
22:FB:1509:A:N1	22:FB:2190:A:C4	2.76	0.51
22:FB:1818:G:H2'	22:FB:1819:U:C6	2.45	0.51
22:FB:1978:U:C3'	22:FB:1979:C:H5''	2.40	0.51
22:FB:2427:A:OP1	22:FB:2477:C:H3'	2.11	0.51
22:FB:2486:C:H2'	22:FB:2487:G:O4'	2.11	0.51
22:FB:2756:A:H2'	22:FB:2762:G:C8	2.46	0.51
22:FB:2796:A:OP2	25:FE:191:ALA:HB2	1.96	0.51
22:FB:553:C:H5'	22:FB:554:U:OP2	2.10	0.51
22:FB:631:G:H4'	22:FB:632:A:H2	1.75	0.51
22:FB:644:A:HO2'	22:FB:2383:C:P	2.24	0.51
24:FD:170:SER:O	24:FD:171:ASP:HB2	2.09	0.51
22:FB:455:A:N7	26:FF:39:ARG:HG2	2.26	0.51
22:FB:2043:A:P	26:FF:62:LYS:HA	2.50	0.51
22:FB:1999:U:OP1	26:FF:65:GLY:CA	2.57	0.51
27:FG:93:GLY:O	27:FG:96:MET:HB3	2.10	0.51
28:FH:129:THR:HB	28:FH:130:ARG:NH1	2.26	0.51
30:FJ:23:VAL:HB	30:FJ:27:LEU:HD12	1.93	0.51
31:FK:110:LEU:CG	31:FK:111:LYS:H	2.23	0.51
33:FM:129:ALA:HB1	33:FM:132:ALA:O	2.10	0.51
33:FM:45:LYS:HB2	33:FM:45:LYS:NZ	2.26	0.51
35:FO:13:ASN:HB2	35:FO:16:ALA:HB2	1.92	0.51
37:FQ:38:LYS:CD	37:FQ:50:PHE:HB2	2.41	0.51
38:FR:41:ASN:C	38:FR:43:ALA:H	2.13	0.51
1:GA:1148:U:H4'	9:GI:14:VAL:CG2	2.41	0.51
1:GA:1393:U:OP2	1:GA:1530:G:OP2	2.28	0.51
1:GA:1528:U:H5'	1:GA:1529:G:N2	2.25	0.51
1:GA:280:C:O3'	17:GQ:38:ARG:HG3	2.09	0.51
1:GA:586:C:H2'	1:GA:587:G:H8	1.75	0.51
1:GA:1107:C:C4'	3:GC:150:LYS:NZ	2.74	0.51
3:GC:157:ILE:HD11	3:GC:164:ARG:HE	1.75	0.51
7:GG:37:ASN:O	7:GG:41:ARG:HG3	2.09	0.51
22:HB:1381:G:P	50:H4:25:LYS:HB2	2.50	0.51
22:HB:1339:U:H2'	22:HB:1340:C:O4'	2.10	0.51
22:HB:1468:A:N6	35:HO:76:VAL:HG23	2.14	0.51
22:HB:159:A:H2'	22:HB:159:A:N3	2.24	0.51
22:HB:1686:A:O3'	22:HB:2528:G:H5'	2.09	0.51
22:HB:1866:G:H2'	22:HB:1867:A:C8	2.45	0.51
22:HB:2029:G:O2'	48:H2:19:ARG:CZ	2.59	0.51
22:HB:2063:A:H4'	47:H1:33:VAL:CG2	2.40	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:HB:2282:G:H2'	22:HB:2283:G:C8	2.46	0.51
22:HB:2462:C:O3'	34:HN:46:ASN:O	2.28	0.51
22:HB:1140:A:N6	22:HB:2470:U:C5	2.77	0.51
22:HB:2486:C:H2'	22:HB:2487:G:O4'	2.11	0.51
22:HB:2633:A:C5'	22:HB:2634:G:H4'	2.41	0.51
22:HB:3154:G:H2'	22:HB:3155:G:H8	1.74	0.51
22:HB:236:C:C2	22:HB:632:A:H1'	2.42	0.51
22:HB:647:G:OP2	33:HM:127:ALA:CB	2.58	0.51
22:HB:716:U:C3'	22:HB:717:G:P	2.98	0.51
22:HB:761:G:H2'	40:HT:110:ALA:C	2.31	0.51
22:HB:697:G:H1	22:HB:807:A:H2	1.59	0.51
24:HD:165:VAL:HG22	24:HD:175:VAL:HG22	1.91	0.51
25:HE:105:THR:HG21	25:HE:164:ARG:HB3	1.90	0.51
25:HE:92:ASN:OD1	25:HE:182:ILE:HG12	2.11	0.51
23:HA:59:A:C1'	27:HG:23:SER:HB2	2.40	0.51
29:HI:17:VAL:O	29:HI:17:VAL:HG22	2.10	0.51
31:HK:120:SER:HA	31:HK:123:PRO:HG2	1.92	0.51
34:HN:26:ASP:HB3	34:HN:100:PRO:HB3	1.92	0.51
34:HN:12:LYS:HB3	34:HN:12:LYS:HZ2	1.75	0.51
22:HB:2463:G:H1'	34:HN:47:GLN:OE1	2.08	0.51
35:HO:47:PHE:HE1	35:HO:70:ILE:HD11	1.75	0.51
22:HB:2355:A:C2	36:HP:114:PHE:CZ	2.98	0.51
38:HR:111:ASP:HA	38:HR:114:ARG:HB2	1.91	0.51
39:HS:3:ALA:HB3	39:HS:14:VAL:O	2.11	0.51
22:HB:505:G:C5'	40:HT:24:GLY:O	2.59	0.51
22:HB:916:U:H5'	43:HW:163:ASP:HB2	1.93	0.51
22:HB:2311:U:P	44:HX:51:VAL:HG23	2.50	0.51
1:IA:1520:G:H2'	1:IA:1521:G:C8	2.45	0.51
1:IA:37:U:H4'	1:IA:500:G:O3'	2.11	0.51
1:IA:673:G:H4'	6:IF:87:ARG:NH2	2.20	0.51
1:IA:782:A:H2'	1:IA:783:C:O4'	2.10	0.51
2:IB:180:LEU:O	2:IB:182:ILE:HG13	2.10	0.51
7:IG:135:VAL:HA	7:IG:138:LYS:HB3	1.92	0.51
1:IA:1374:A:O5'	7:IG:31:MET:HE1	2.09	0.51
7:IG:92:SER:O	7:IG:96:GLN:HG3	2.10	0.51
1:IA:641:U:C4'	8:IH:117:GLY:N	2.58	0.51
1:IA:641:U:H4'	8:IH:117:GLY:N	1.79	0.51
8:IH:112:LEU:HD22	8:IH:134:ILE:H	1.74	0.51
9:II:27:THR:HG23	9:II:32:ASP:N	2.26	0.51
12:IL:41:ARG:O	12:IL:54:LYS:HA	2.10	0.51
12:IL:64:TYR:O	12:IL:66:VAL:HG22	2.10	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:IN:9:LYS:HG2	14:IN:14:PRO:HG3	1.92	0.51
53:J7:64:VAL:CG2	53:J7:152:LYS:HG2	2.41	0.51
22:JB:1140:A:H2	22:JB:2548:G:O2'	1.90	0.51
22:JB:1261:G:H2'	38:JR:3:ARG:HA	1.93	0.51
22:JB:1339:U:H2'	22:JB:1340:C:O4'	2.10	0.51
22:JB:159:A:H2'	22:JB:159:A:N3	2.24	0.51
22:JB:1707:A:C2	22:JB:1758:C:H5''	2.46	0.51
22:JB:1818:G:OP2	24:JD:223:GLY:HA2	2.06	0.51
22:JB:2207:G:C2	47:J1:42:PHE:CZ	2.99	0.51
22:JB:2262:C:C5'	49:J3:9:ILE:HG13	2.41	0.51
22:JB:2486:C:H2'	22:JB:2487:G:O4'	2.11	0.51
22:JB:2034:A:H61	22:JB:2593:A:H1'	1.74	0.51
22:JB:2634:G:H2'	22:JB:2634:G:N3	2.26	0.51
22:JB:2692:A:O2'	35:JO:14:SER:N	2.44	0.51
22:JB:423:G:C2	22:JB:2386:G:C4	2.99	0.51
22:JB:469:G:N7	50:J4:34:ARG:CD	2.73	0.51
22:JB:479:G:H5'	22:JB:810:U:OP1	2.09	0.51
24:JD:119:ALA:CB	24:JD:129:ASN:HB2	2.41	0.51
24:JD:183:ARG:HB3	24:JD:270:ILE:HG22	1.92	0.51
22:JB:2283:G:C4'	27:JG:130:LEU:CD2	2.80	0.51
28:JH:103:LEU:HD23	28:JH:105:MET:SD	2.51	0.51
28:JH:5:GLY:HA2	28:JH:66:GLY:HA2	1.91	0.51
22:JB:593:C:H5''	38:JR:3:ARG:NH2	2.24	0.51
38:JR:87:ASN:CB	39:JS:52:GLY:CA	2.80	0.51
42:JV:68:GLY:O	42:JV:69:GLN:HB2	2.10	0.51
22:JB:2240:C:O3'	44:JX:16:SER:HB3	2.11	0.51
45:JY:43:VAL:O	45:JY:47:ARG:HG2	2.10	0.51
1:AA:434:U:H2'	1:AA:435:C:C6	2.46	0.51
1:AA:447:G:H1'	1:AA:487:A:H61	1.74	0.51
1:AA:800:G:HO2'	1:AA:801:U:H6	1.58	0.51
1:AA:961:U:H5	1:AA:1222:G:H22	1.58	0.51
3:AC:11:ARG:HB3	3:AC:15:THR:O	2.10	0.51
1:AA:1190:G:P	3:AC:5:ILE:HG13	2.50	0.51
4:AD:196:LEU:HD22	4:AD:198:VAL:O	2.10	0.51
1:AA:546:G:N1	4:AD:2:GLY:HA2	2.24	0.51
12:AL:64:TYR:O	12:AL:66:VAL:HG22	2.10	0.51
51:B5:13:ARG:HH11	51:B5:23:MET:C	2.13	0.51
51:B5:41:ILE:HD13	51:B5:42:ARG:HE	1.75	0.51
22:BB:1143:A:P	31:BK:111:LYS:HD2	2.43	0.51
22:BB:122:G:P	22:BB:1389:C:O3'	2.68	0.51
22:BB:1428:G:H4'	22:BB:1429:A:H4'	1.91	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:BB:1581:C:H5	24:BD:28:ARG:HH12	1.01	0.51
22:BB:1667:A:H2'	22:BB:1668:G:C8	2.44	0.51
22:BB:1954:A:C6	24:BD:240:THR:N	2.78	0.51
22:BB:540:G:N9	22:BB:2018:G:H4'	2.25	0.51
22:BB:226:C:P	47:B1:28:ARG:HH12	2.30	0.51
22:BB:2438:A:N6	22:BB:2472:U:O4	2.43	0.51
22:BB:2756:A:H2'	22:BB:2762:G:C8	2.46	0.51
22:BB:2861:A:C1'	48:B2:34:PRO:HA	2.40	0.51
22:BB:2861:A:O2'	48:B2:32:GLU:C	2.49	0.51
22:BB:490:A:O2'	42:BV:3:ARG:CZ	2.55	0.51
22:BB:553:C:H5'	22:BB:554:U:OP2	2.10	0.51
22:BB:869:C:H2'	22:BB:870:C:C6	2.46	0.51
22:BB:999:A:O2'	22:BB:1168:G:H5'	2.11	0.51
24:BD:165:VAL:HG22	24:BD:175:VAL:HG22	1.92	0.51
28:BH:124:ALA:O	28:BH:125:VAL:HB	2.10	0.51
31:BK:77:GLY:CA	31:BK:147:ARG:HH22	2.20	0.51
22:BB:6:A:C4'	31:BK:162:LYS:NZ	2.74	0.51
32:BL:47:VAL:HG13	32:BL:121:ARG:HG3	1.92	0.51
35:BO:25:ALA:HA	35:BO:34:ILE:HD12	1.92	0.51
37:BQ:101:ARG:HB2	37:BQ:104:LEU:HD11	1.92	0.51
22:BB:574:C:C6	39:BS:79:GLN:NE2	2.79	0.51
43:BW:67:LYS:HD3	43:BW:82:ASP:HB3	1.93	0.51
45:BY:43:VAL:O	45:BY:47:ARG:HG2	2.10	0.51
46:BZ:14:GLY:HA2	46:BZ:17:VAL:CG2	2.40	0.51
46:BZ:3:ILE:CB	46:BZ:33:GLU:HA	2.38	0.51
46:BZ:4:LYS:O	46:BZ:5:LEU:HD12	2.11	0.51
1:CA:1309:G:OP1	13:CM:98:VAL:N	2.43	0.51
1:CA:1349:A:N6	1:CA:1373:G:H1'	2.23	0.51
1:CA:1528:U:C4'	1:CA:1529:G:H21	2.23	0.51
1:CA:386:C:H2'	1:CA:387:U:O4'	2.11	0.51
1:CA:447:G:H1'	1:CA:487:A:H61	1.74	0.51
1:CA:545:C:P	4:CD:72:GLU:HB2	2.50	0.51
1:CA:731:G:H5'	1:CA:766:A:H4'	1.93	0.51
1:CA:697:U:H1'	1:CA:785:G:O2'	2.10	0.51
1:CA:800:G:HO2'	1:CA:801:U:H6	1.58	0.51
3:CC:71:ALA:HB2	3:CC:115:LEU:HD11	1.93	0.51
8:CH:65:TYR:O	8:CH:79:VAL:HG23	2.11	0.51
9:CI:50:LEU:HD22	9:CI:56:LEU:N	2.25	0.51
12:CL:75:HIS:HB2	12:CL:108:ALA:CB	2.41	0.51
12:CL:57:LYS:HA	12:CL:67:THR:HA	1.91	0.51
13:CM:87:TYR:CA	13:CM:91:ARG:HG2	2.33	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:CN:12:ARG:HD3	14:CN:13:THR:H	1.76	0.51
1:CA:275:G:O2'	17:CQ:18:THR:HB	2.09	0.51
19:CS:47:HIS:O	19:CS:49:ILE:HG13	2.11	0.51
1:CA:332:G:P	20:CT:8:ARG:C	2.88	0.51
51:D5:13:ARG:HH11	51:D5:23:MET:C	2.14	0.51
22:DB:218:A:P	51:D5:63:PRO:HG2	2.51	0.51
23:DA:64:C:H2'	23:DA:65:A:C8	2.45	0.51
22:DB:1049:C:N3	22:DB:1129:A:C2	2.79	0.51
22:DB:705:C:H1'	22:DB:1367:A:O4'	2.10	0.51
22:DB:2357:A:H4'	36:DP:26:ARG:NE	2.25	0.51
22:DB:2551:A:N6	25:DE:145:LYS:H	1.99	0.51
22:DB:2621:G:H2'	22:DB:2622:G:C8	2.45	0.51
22:DB:2662:C:N4	22:DB:2707:G:HO2'	2.09	0.51
22:DB:506:G:OP2	40:DT:21:ARG:HB2	2.10	0.51
22:DB:625:A:N3	26:DF:176:ASN:CG	2.64	0.51
22:DB:922:A:C2	22:DB:2243:C:H2'	2.45	0.51
22:DB:677:G:C4'	22:DB:951:G:C5'	2.85	0.51
24:DD:245:VAL:HG11	24:DD:249:PRO:HD3	1.92	0.51
24:DD:70:ARG:HD3	24:DD:70:ARG:O	2.10	0.51
25:DE:92:ASN:OD1	25:DE:182:ILE:HG12	2.11	0.51
27:DG:131:GLY:O	27:DG:132:ILE:O	2.28	0.51
29:DI:9:SER:O	29:DI:10:ARG:HG3	2.09	0.51
30:DJ:57:ILE:O	30:DJ:57:ILE:HG23	2.11	0.51
22:DB:529:U:P	40:DT:39:ARG:HG2	2.50	0.51
1:EA:1057:G:OP1	3:EC:155:GLY:HA3	2.10	0.51
1:EA:1092:A:C5'	7:EG:4:ARG:NE	2.72	0.51
1:EA:1245:A:H2'	1:EA:1246:C:C6	2.46	0.51
1:EA:237:C:H4'	17:EQ:27:PHE:HZ	1.71	0.51
1:EA:265:G:H21	17:EQ:67:LYS:CE	2.04	0.51
1:EA:386:C:H2'	1:EA:387:U:O4'	2.11	0.51
1:EA:434:U:H2'	1:EA:435:C:C6	2.46	0.51
1:EA:921:U:H2'	1:EA:922:G:O4'	2.10	0.51
2:EB:204:ASN:ND2	2:EB:205:ASP:H	2.08	0.51
1:EA:642:A:H61	8:EH:131:GLY:CA	2.23	0.51
8:EH:52:ASP:HA	8:EH:57:PRO:HB3	1.93	0.51
12:EL:100:ILE:HG22	12:EL:101:VAL:N	2.26	0.51
13:EM:44:ARG:HG3	13:EM:46:LYS:HD3	1.92	0.51
15:EO:82:ILE:C	15:EO:84:LYS:H	2.14	0.51
1:EA:130:A:C6	17:EQ:64:PRO:CD	2.70	0.51
18:ER:35:ARG:NH2	18:ER:36:ASN:HD21	2.08	0.51
23:FA:57:U:H4'	27:FG:26:MET:HE3	1.91	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:FB:13:A:H2'	22:FB:15:G:O6	2.11	0.51
22:FB:1468:A:H61	35:FO:58:GLY:CA	2.20	0.51
22:FB:1504:G:N3	24:FD:99:ASP:HA	2.25	0.51
22:FB:1779:C:H2'	22:FB:1780:A:O4'	2.10	0.51
22:FB:2411:A:C5	47:F1:28:ARG:O	2.62	0.51
22:FB:2599:U:H5''	25:FE:155:ARG:HH11	1.76	0.51
22:FB:742:G:C4	24:FD:208:LYS:HE2	2.45	0.51
22:FB:887:G:H2'	22:FB:888:G:H8	1.74	0.51
22:FB:906:U:H2'	22:FB:907:U:C6	2.45	0.51
25:FE:4:ILE:HA	25:FE:198:LEU:HD12	1.91	0.51
25:FE:93:VAL:HG13	25:FE:98:GLU:OE1	2.10	0.51
34:FN:55:MET:HG3	34:FN:114:GLN:O	2.10	0.51
37:FQ:11:GLU:HA	37:FQ:14:ARG:O	2.11	0.51
37:FQ:71:ILE:HG22	37:FQ:72:SER:O	2.11	0.51
46:FZ:14:GLY:HA2	46:FZ:17:VAL:CG2	2.40	0.51
1:GA:1178:G:H2'	1:GA:1180:A:OP2	2.11	0.51
1:GA:1320:C:O2'	19:GS:73:GLU:HB3	2.09	0.51
1:GA:1327:C:C2'	1:GA:1328:C:H5'	2.40	0.51
1:GA:1500:A:O3'	1:GA:1508:G:H5''	2.09	0.51
1:GA:37:U:H4'	1:GA:500:G:O3'	2.11	0.51
1:GA:835:U:OP1	18:GR:61:LYS:HG3	2.09	0.51
2:GB:86:GLU:C	2:GB:88:ALA:H	2.14	0.51
3:GC:186:PHE:HZ	3:GC:188:LEU:HD23	1.74	0.51
4:GD:83:SER:HA	4:GD:89:THR:CG2	2.37	0.51
8:GH:65:TYR:O	8:GH:79:VAL:HG23	2.11	0.51
12:GL:100:ILE:HG22	12:GL:101:VAL:N	2.26	0.51
1:GA:236:G:C1'	17:GQ:25:ARG:HD2	2.40	0.51
22:HB:1256:C:O3'	33:HM:17:LYS:NZ	2.43	0.51
22:HB:1483:G:N3	22:HB:1484:G:N2	2.59	0.51
22:HB:218:A:O3'	22:HB:219:G:H4'	2.11	0.51
22:HB:1141:U:OP2	22:HB:2494:C:O2	2.29	0.51
22:HB:2634:G:H2'	22:HB:2634:G:N3	2.26	0.51
22:HB:3197:U:H2'	22:HB:2203:G:O6	2.10	0.51
22:HB:70:A:N6	41:HU:30:SER:HB2	2.25	0.51
22:HB:797:A:OP1	22:HB:2567:G:H5''	2.11	0.51
22:HB:95:G:H4'	45:HY:45:GLN:HG3	1.92	0.51
24:HD:10:THR:O	24:HD:12:SER:N	2.42	0.51
24:HD:72:LYS:HZ3	24:HD:75:VAL:CG2	2.21	0.51
25:HE:55:ALA:HA	25:HE:58:LYS:HB2	1.93	0.51
26:HF:163:ASN:HB2	26:HF:166:TRP:HB2	1.92	0.51
22:HB:625:A:H1'	26:HF:38:ARG:HE	1.74	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:HG:131:GLY:O	27:HG:132:ILE:O	2.28	0.51
27:HG:150:ARG:H	27:HG:150:ARG:HD2	1.76	0.51
23:HA:59:A:O4'	27:HG:23:SER:HB2	2.08	0.51
28:HH:124:ALA:O	28:HH:125:VAL:HB	2.10	0.51
29:HI:2:GLN:HG3	29:HI:42:ASN:ND2	2.26	0.51
33:HM:35:LYS:HB2	33:HM:35:LYS:NZ	2.25	0.51
36:HP:97:HIS:NE2	36:HP:99:ARG:HB2	2.26	0.51
25:HE:52:ALA:O	37:HQ:5:ILE:HB	2.09	0.51
38:HR:101:ARG:NH2	38:HR:102:GLU:HB2	2.25	0.51
22:HB:1236:G:O6	39:HS:71:ILE:HG12	2.11	0.51
44:HX:32:LYS:HG3	44:HX:33:ALA:H	1.76	0.51
1:IA:924:C:O2'	1:IA:1502:A:N7	2.42	0.51
1:IA:1500:A:O3'	1:IA:1508:G:H5''	2.09	0.51
1:IA:922:G:N3	5:IE:19:MET:HE3	2.25	0.51
10:IJ:12:ASP:OD1	10:IJ:14:LYS:HB2	2.10	0.51
10:IJ:7:LYS:HG2	10:IJ:9:ARG:NH1	2.25	0.51
13:IM:19:LEU:HD13	13:IM:30:ALA:C	2.30	0.51
16:IP:4:ILE:HA	16:IP:20:VAL:O	2.11	0.51
22:JB:16:G:H5'	48:J2:17:ASP:HB2	0.90	0.51
52:J6:13:ASN:CG	52:J6:28:SER:HA	2.31	0.51
23:JA:64:C:H2'	23:JA:65:A:C8	2.45	0.51
22:JB:1197:U:H2'	22:JB:1198:C:C4'	2.33	0.51
22:JB:1674:C:H2'	22:JB:1675:C:C6	2.45	0.51
22:JB:1791:C:H1'	22:JB:1793:A:H5'	1.93	0.51
22:JB:1866:G:H2'	22:JB:1867:A:C8	2.45	0.51
22:JB:1141:U:H2'	22:JB:2009:U:OP1	2.11	0.51
22:JB:2321:C:O2'	22:JB:2353:G:H5''	2.11	0.51
22:JB:2464:G:HO2'	34:JN:123:GLY:C	2.13	0.51
22:JB:1686:A:O3'	22:JB:2528:G:H5'	2.09	0.51
22:JB:2551:A:P	25:JE:144:ARG:CG	2.99	0.51
22:JB:2570:C:C6	24:JD:237:GLU:CB	2.78	0.51
22:JB:2633:A:C5'	22:JB:2634:G:H4'	2.41	0.51
22:JB:2812:A:OP1	37:JQ:4:HIS:NE2	2.37	0.51
22:JB:3176:A:O2'	53:J7:166:GLN:CG	2.59	0.51
22:JB:553:C:H5'	22:JB:554:U:OP2	2.11	0.51
22:JB:648:A:OP2	33:JM:131:LYS:CE	2.59	0.51
22:JB:821:A:C2	26:JF:68:ARG:NH1	2.78	0.51
22:JB:884:C:H5''	34:JN:70:PHE:CE2	2.44	0.51
22:JB:990:A:H3'	22:JB:991:A:C5'	2.41	0.51
24:JD:165:VAL:HG22	24:JD:175:VAL:HG22	1.92	0.51
22:JB:2571:G:O6	24:JD:237:GLU:OE2	0.53	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:JD:246:PRO:HB3	24:JD:252:LYS:HG2	1.91	0.51
26:JF:163:ASN:HB2	26:JF:166:TRP:HB2	1.92	0.51
35:JO:47:PHE:HE1	35:JO:70:ILE:HD11	1.76	0.51
22:JB:2819:G:O2'	37:JQ:62:SER:CA	2.59	0.51
38:JR:111:ASP:HA	38:JR:114:ARG:HB2	1.91	0.51
22:JB:2315:A:C5	44:JX:70:ILE:HD13	2.41	0.51
1:AA:1236:A:C4'	1:AA:1304:G:H4'	2.40	0.51
1:AA:273:A:HO2'	17:AQ:14:LYS:C	2.12	0.51
1:AA:561:U:OP2	1:AA:562:C:H5''	2.10	0.51
1:AA:711:G:O3'	24:BD:184:ARG:CZ	2.51	0.51
1:AA:720:C:H4'	18:AR:52:PRO:HA	1.93	0.51
1:AA:864:A:O2'	1:AA:1078:U:C2	2.64	0.51
1:AA:876:G:H2'	1:AA:877:C:O4'	2.10	0.51
2:AB:187:LEU:HD11	2:AB:204:ASN:N	2.25	0.51
2:AB:86:GLU:C	2:AB:88:ALA:H	2.14	0.51
3:AC:22:TRP:CB	3:AC:59:ARG:HB2	2.41	0.51
1:AA:877:C:H5''	8:AH:89:PRO:CG	2.39	0.51
12:AL:84:LEU:HB3	12:AL:101:VAL:O	2.11	0.51
14:AN:12:ARG:HD3	14:AN:13:THR:H	1.76	0.51
20:AT:19:SER:HA	20:AT:22:ARG:HB2	1.92	0.51
22:BB:1141:U:OP2	22:BB:2494:C:H1'	2.10	0.51
22:BB:1271:C:H2'	22:BB:1272:G:C8	2.46	0.51
22:BB:131:C:H2'	22:BB:132:U:C6	2.46	0.51
22:BB:1453:A:OP2	22:BB:1455:C:N4	2.43	0.51
22:BB:2366:U:C5'	44:BX:38:VAL:HB	2.41	0.51
22:BB:2427:A:OP1	22:BB:2477:C:H3'	2.11	0.51
22:BB:2621:G:H2'	22:BB:2622:G:C8	2.45	0.51
22:BB:391:C:H2'	22:BB:392:G:H8	1.75	0.51
22:BB:507:A:H2'	22:BB:508:G:C8	2.46	0.51
25:BE:93:VAL:HG13	25:BE:98:GLU:OE1	2.11	0.51
28:BH:68:THR:C	28:BH:70:THR:H	2.13	0.51
22:BB:1142:G:C4'	31:BK:110:LEU:O	2.59	0.51
31:BK:139:ARG:NH2	31:BK:142:ARG:HB3	2.24	0.51
32:BL:113:PRO:HG2	37:BQ:76:GLY:HA3	1.93	0.51
32:BL:47:VAL:HG23	32:BL:76:ARG:HD3	1.92	0.51
33:BM:100:ARG:HE	33:BM:101:ARG:HH12	1.56	0.51
22:BB:684:C:H41	33:BM:40:ARG:HG2	1.76	0.51
36:BP:5:THR:C	36:BP:7:ILE:H	2.14	0.51
36:BP:5:THR:O	36:BP:9:ARG:HB3	2.10	0.51
1:AA:1433:A:C4'	37:BQ:116:ARG:CZ	2.88	0.51
22:BB:497:C:O2	40:BT:77:ALA:CB	2.59	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:BB:348:U:H4'	42:BV:13:LYS:CD	2.41	0.51
1:CA:1157:A:H61	1:CA:1178:G:H1'	1.75	0.51
1:CA:39:G:H1'	1:CA:498:U:O2	2.11	0.51
1:CA:61:G:H2'	1:CA:62:U:O4'	2.10	0.51
1:CA:782:A:H2'	1:CA:783:C:O4'	2.11	0.51
3:CC:11:ARG:HB3	3:CC:15:THR:O	2.10	0.51
3:CC:188:LEU:HD13	3:CC:189:ALA:N	2.26	0.51
3:CC:22:TRP:CB	3:CC:59:ARG:HB2	2.41	0.51
4:CD:208:SER:OG	5:CE:101:ILE:HG23	2.10	0.51
50:D4:10:ARG:HA	50:D4:10:ARG:NH2	2.26	0.51
22:DB:1005:U:C5	38:DR:51:ARG:NH1	2.79	0.51
22:DB:1142:G:H8	31:DK:107:GLN:HA	1.76	0.51
22:DB:1271:C:H2'	22:DB:1272:G:C8	2.46	0.51
22:DB:1288:A:C2	35:DO:15:SER:O	2.64	0.51
22:DB:1779:C:H2'	22:DB:1780:A:O4'	2.10	0.51
22:DB:1866:G:H2'	22:DB:1867:A:C8	2.45	0.51
22:DB:425:A:N7	22:DB:2391:A:C2	2.79	0.51
22:DB:8:A:H2	22:DB:2608:A:H62	1.58	0.51
22:DB:2706:U:H1'	32:DL:79:HIS:CD2	2.46	0.51
22:DB:886:A:H4'	34:DN:66:TYR:CZ	2.46	0.51
22:DB:917:U:H4'	43:DW:122:ILE:CA	2.38	0.51
22:DB:2550:C:HO2'	25:DE:143:GLN:NE2	2.05	0.51
22:DB:2600:A:O2'	25:DE:159:HIS:CA	2.59	0.51
25:DE:1:MET:H1	25:DE:200:SER:HB2	1.76	0.51
27:DG:103:LEU:C	27:DG:105:ASN:H	2.14	0.51
28:DH:103:LEU:HD23	28:DH:105:MET:SD	2.51	0.51
28:DH:6:LYS:HZ2	28:DH:7:GLN:H	1.58	0.51
22:DB:7:G:O4'	31:DK:161:GLN:CD	1.74	0.51
32:DL:113:PRO:HD3	37:DQ:75:GLU:CA	2.41	0.51
33:DM:110:ALA:HB3	33:DM:132:ALA:HB3	1.93	0.51
35:DO:47:PHE:HE1	35:DO:70:ILE:HD11	1.75	0.51
36:DP:108:ARG:HA	36:DP:111:GLY:O	2.11	0.51
22:DB:2357:A:C5'	36:DP:26:ARG:HH21	2.15	0.51
37:DQ:101:ARG:HB2	37:DQ:104:LEU:HD11	1.92	0.51
22:DB:935:C:O4'	44:DX:26:PHE:CD2	2.63	0.51
1:EA:1060:C:O5'	3:EC:2:GLY:N	2.42	0.51
1:EA:1528:U:C4'	1:EA:1529:G:H21	2.23	0.51
1:EA:927:G:H1'	1:EA:1532:U:C1'	2.40	0.51
1:EA:300:A:OP1	17:EQ:31:LEU:HD11	2.11	0.51
1:EA:301:G:H2'	1:EA:302:G:C8	2.45	0.51
1:EA:449:C:O2'	16:EP:42:ARG:HB3	2.09	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:EA:37:U:H4'	1:EA:500:G:O3'	2.11	0.51
1:EA:876:G:H2'	1:EA:877:C:O4'	2.10	0.51
1:EA:970:C:H4'	1:EA:972:C:C6	2.46	0.51
2:EB:180:LEU:O	2:EB:182:ILE:HG13	2.11	0.51
3:EC:113:ALA:N	3:EC:114:PRO:CD	2.74	0.51
7:EG:3:ARG:HH11	7:EG:3:ARG:HG2	1.76	0.51
12:EL:84:LEU:HB3	12:EL:101:VAL:O	2.11	0.51
17:EQ:28:PRO:HB3	17:EQ:35:VAL:HG22	1.93	0.51
17:EQ:64:PRO:HB3	17:EQ:70:ARG:NH2	2.25	0.51
18:ER:63:GLN:OE1	18:ER:66:LEU:HD23	2.11	0.51
22:FB:16:G:H4'	48:F2:14:SER:O	2.11	0.51
23:FA:33:C:H2'	23:FA:34:C:C6	2.46	0.51
23:FA:64:C:H2'	23:FA:65:A:C8	2.45	0.51
22:FB:1235:C:OP1	39:FS:68:LYS:HB3	2.05	0.51
22:FB:1271:C:H2'	22:FB:1272:G:C8	2.46	0.51
22:FB:1667:A:H2'	22:FB:1668:G:C8	2.44	0.51
22:FB:1780:A:H4'	24:FD:222:ARG:NH2	2.26	0.51
22:FB:1791:C:H1'	22:FB:1793:A:H5'	1.93	0.51
22:FB:2477:C:H2'	22:FB:2478:C:C5	2.46	0.51
22:FB:2489:C:O2	25:FE:125:GLY:HA2	2.10	0.51
22:FB:2661:G:N3	25:FE:11:MET:C	2.64	0.51
22:FB:2719:U:O2	22:FB:2746:G:C6	2.63	0.51
22:FB:640:C:H2'	22:FB:641:G:O4'	2.10	0.51
22:FB:869:C:H2'	22:FB:870:C:C6	2.46	0.51
25:FE:119:ARG:HG2	25:FE:155:ARG:CB	2.38	0.51
25:FE:92:ASN:OD1	25:FE:182:ILE:HG12	2.11	0.51
29:FI:17:VAL:O	29:FI:17:VAL:HG22	2.10	0.51
32:FL:7:ARG:O	32:FL:8:LEU:HD23	2.11	0.51
33:FM:103:ASN:O	33:FM:105:PRO:HD3	2.11	0.51
36:FP:108:ARG:HA	36:FP:111:GLY:O	2.11	0.51
39:FS:3:ALA:HB3	39:FS:14:VAL:O	2.11	0.51
41:FU:16:ALA:HA	41:FU:20:MET:HB2	1.92	0.51
42:FV:68:GLY:O	42:FV:69:GLN:HB2	2.10	0.51
1:GA:1148:U:H2'	1:GA:1149:C:C6	2.46	0.51
1:GA:1495:U:C1'	22:HB:1902:A:H61	2.23	0.51
1:GA:17:U:C2'	1:GA:1079:G:HO2'	2.22	0.51
1:GA:815:A:C2'	1:GA:1526:G:N3	2.72	0.51
6:GF:10:LEU:O	6:GF:12:PRO:HD3	2.11	0.51
7:GG:3:ARG:HH11	7:GG:3:ARG:HG2	1.76	0.51
12:GL:35:GLY:H	12:GL:85:ILE:HD11	1.76	0.51
17:GQ:64:PRO:HB3	17:GQ:70:ARG:NH2	2.25	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:GR:63:GLN:OE1	18:GR:66:LEU:HD23	2.11	0.51
1:GA:108:G:C8	20:GT:16:HIS:HB2	2.46	0.51
50:H4:10:ARG:HA	50:H4:10:ARG:NH2	2.26	0.51
23:HA:112:A:H2'	23:HA:113:G:O4'	2.11	0.51
22:HB:1674:C:H2'	22:HB:1675:C:C6	2.45	0.51
22:HB:1791:C:H1'	22:HB:1793:A:H5'	1.93	0.51
1:GA:1483:A:C2	22:HB:1943:A:C1'	2.92	0.51
22:HB:1995:G:H5''	40:HT:117:ILE:C	2.29	0.51
22:HB:1141:U:H2'	22:HB:2009:U:OP1	2.11	0.51
22:HB:1385:C:H1'	22:HB:2193:C:N4	2.25	0.51
22:HB:2249:U:H2'	22:HB:2250:G:H5'	1.92	0.51
22:HB:2341:G:H2'	22:HB:2342:U:C6	2.46	0.51
22:HB:2654:A:H2'	22:HB:2655:C:O4'	2.10	0.51
22:HB:2848:A:N9	35:HO:6:ALA:HB1	2.25	0.51
22:HB:424:G:OP2	22:HB:2386:G:OP1	2.29	0.51
22:HB:602:C:H1'	51:H5:2:PRO:HD2	1.92	0.51
22:HB:681:A:H5''	33:HM:48:PHE:CD1	2.43	0.51
22:HB:69:G:OP1	22:HB:110:U:N3	2.43	0.51
32:HL:47:VAL:HG13	32:HL:121:ARG:HG3	1.92	0.51
22:HB:684:C:H6	33:HM:45:LYS:HB3	1.74	0.51
22:HB:2373:C:P	33:HM:62:LYS:CE	2.91	0.51
32:HL:113:PRO:HD2	37:HQ:75:GLU:C	2.31	0.51
40:HT:50:VAL:N	40:HT:53:ALA:HB3	2.18	0.51
43:HW:69:VAL:HG12	43:HW:70:GLN:H	1.74	0.51
44:HX:74:LYS:HD2	44:HX:75:GLY:H	1.75	0.51
46:HZ:45:LYS:HG3	46:HZ:48:LYS:HD2	1.92	0.51
1:IA:1114:C:O4'	14:IN:60:SER:CB	2.57	0.51
1:IA:1227:A:C5'	13:IM:111:LYS:HE2	2.40	0.51
1:IA:1349:A:H4'	9:II:121:ARG:HH22	1.76	0.51
1:IA:1392:G:H4'	1:IA:1530:G:C3'	2.40	0.51
1:IA:586:C:H2'	1:IA:587:G:H8	1.76	0.51
1:IA:608:A:C2	16:IP:31:LYS:HG3	2.46	0.51
1:IA:684:A:C1'	11:IK:39:PRO:HG2	2.39	0.51
3:IC:119:ARG:O	3:IC:123:GLN:HG3	2.10	0.51
3:IC:181:ASN:HD21	3:IC:204:LEU:HD22	1.74	0.51
6:IF:29:ALA:HA	6:IF:33:TYR:CD1	2.46	0.51
6:IF:67:MET:SD	6:IF:72:VAL:HG22	2.51	0.51
11:IK:79:SER:HA	11:IK:104:GLN:CB	2.40	0.51
1:IA:33:A:C2	12:IL:32:PHE:CZ	2.99	0.51
14:IN:34:TYR:HB3	14:IN:37:PHE:HD1	1.75	0.51
22:JB:465:C:N3	50:J4:39:ARG:HD3	2.18	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:JB:122:G:P	22:JB:1388:C:HO2'	2.33	0.51
22:JB:1667:A:H2'	22:JB:1668:G:C8	2.44	0.51
22:JB:1719:G:H2'	22:JB:1720:G:C8	2.45	0.51
22:JB:218:A:O3'	22:JB:219:G:H4'	2.11	0.51
22:JB:2303:C:O2'	22:JB:2316:G:H5''	2.10	0.51
22:JB:2701:A:N6	22:JB:2848:A:H61	2.05	0.51
22:JB:3171:A:H4'	22:JB:3172:U:C5'	2.41	0.51
22:JB:637:G:N2	33:JM:74:VAL:HA	2.25	0.51
22:JB:778:G:P	24:JD:214:TRP:CZ2	3.03	0.51
25:JE:55:ALA:HA	25:JE:58:LYS:HB2	1.92	0.51
22:JB:2786:G:C5'	25:JE:61:LYS:HD2	2.38	0.51
26:JF:147:LYS:HB2	26:JF:183:HIS:HA	1.92	0.51
27:JG:13:ARG:H	27:JG:14:PRO:CD	2.24	0.51
28:JH:124:ALA:O	28:JH:125:VAL:HB	2.11	0.51
22:JB:2510:A:O2'	28:JH:157:TYR:HE2	1.92	0.51
29:JI:2:GLN:HG3	29:JI:42:ASN:ND2	2.26	0.51
31:JK:74:MET:HE3	31:JK:75:ILE:H	1.75	0.51
33:JM:143:PRO:HG2	33:JM:144:GLU:H	1.74	0.51
22:JB:954:U:C5	33:JM:39:SER:CB	2.94	0.51
22:JB:684:C:H41	33:JM:45:LYS:HD2	1.75	0.51
34:JN:55:MET:HG3	34:JN:114:GLN:O	2.10	0.51
34:JN:60:ARG:HB3	34:JN:62:GLY:O	2.10	0.51
37:JQ:38:LYS:CD	37:JQ:50:PHE:HB2	2.41	0.51
37:JQ:66:PHE:HB2	37:JQ:85:SER:HB3	1.91	0.51
38:JR:87:ASN:HB2	39:JS:50:ASP:HB2	1.93	0.51
1:AA:1137:C:O2'	1:AA:1138:G:H5''	2.10	0.51
1:AA:944:G:N2	1:AA:1339:A:H5''	2.26	0.51
1:AA:1373:G:H5'	7:AG:36:LYS:H	1.75	0.51
1:AA:1395:C:H5'	1:AA:1401:G:N2	2.21	0.51
1:AA:1500:A:H5''	1:AA:1508:G:OP1	2.11	0.51
1:AA:386:C:H2'	1:AA:387:U:O4'	2.11	0.51
1:AA:782:A:H2'	1:AA:783:C:O4'	2.11	0.51
4:AD:15:GLU:HG3	4:AD:63:LYS:HG3	1.92	0.51
4:AD:14:ARG:HG2	4:AD:66:ARG:HH12	1.76	0.51
1:AA:564:C:HO2'	8:AH:91:ARG:HE	1.38	0.51
11:AK:105:VAL:HG12	11:AK:106:LYS:H	1.76	0.51
12:AL:57:LYS:HA	12:AL:67:THR:HA	1.91	0.51
12:AL:35:GLY:H	12:AL:85:ILE:HD11	1.76	0.51
14:AN:27:CYS:HB2	14:AN:43:CYS:SG	2.51	0.51
16:AP:81:ARG:HA	16:AP:81:ARG:HE	1.75	0.51
17:AQ:54:GLY:H	17:AQ:85:VAL:CG2	2.23	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:AS:47:HIS:O	19:AS:49:ILE:HG13	2.11	0.51
22:BB:176:A:C8	47:B1:30:GLU:HB2	2.46	0.51
22:BB:166:G:H8	47:B1:36:TRP:CZ2	2.28	0.51
22:BB:157:G:H5'	50:B4:36:ALA:HB3	1.90	0.51
23:BA:32:C:O2	27:BG:26:MET:SD	2.69	0.51
22:BB:1142:G:C5	31:BK:106:TYR:N	2.74	0.51
22:BB:1437:A:C5	22:BB:1438:G:N7	2.76	0.51
22:BB:1746:A:N6	22:BB:2673:G:O2'	2.43	0.51
22:BB:1779:C:H2'	22:BB:1780:A:O4'	2.10	0.51
22:BB:1856:U:H5''	22:BB:2389:G:O2'	2.10	0.51
22:BB:2015:G:H4'	22:BB:2016:A:OP1	2.11	0.51
22:BB:2477:C:H2'	22:BB:2478:C:C5	2.46	0.51
22:BB:2525:U:O2	22:BB:2544:A:C2	2.64	0.51
22:BB:2504:G:O4'	22:BB:2721:A:H2	1.87	0.51
22:BB:29:U:O2	22:BB:1228:G:H4'	2.11	0.51
22:BB:539:A:O2'	22:BB:540:G:H5'	2.11	0.51
22:BB:644:A:OP1	33:BM:70:THR:CG2	2.58	0.51
22:BB:677:G:O2'	22:BB:951:G:OP1	2.26	0.51
24:BD:175:VAL:HG12	24:BD:176:ARG:O	2.10	0.51
22:BB:2714:A:C1'	25:BE:205:SER:C	2.79	0.51
27:BG:103:LEU:C	27:BG:105:ASN:H	2.14	0.51
27:BG:131:GLY:O	27:BG:132:ILE:O	2.28	0.51
32:BL:110:VAL:CG1	32:BL:131:PRO:HD3	2.39	0.51
33:BM:110:ALA:HB3	33:BM:132:ALA:HB3	1.93	0.51
22:BB:2463:G:O2'	34:BN:121:LEU:HA	2.11	0.51
37:BQ:55:ILE:N	37:BQ:55:ILE:HD13	2.15	0.51
34:BN:65:ILE:CB	43:BW:115:ILE:HD12	2.41	0.51
43:BW:47:SER:C	43:BW:49:THR:H	2.12	0.51
44:BX:45:PHE:H	44:BX:76:ALA:H	1.59	0.51
1:CA:1245:A:H2'	1:CA:1246:C:C6	2.46	0.51
1:CA:1395:C:H5'	1:CA:1401:G:N2	2.21	0.51
1:CA:1500:A:H5''	1:CA:1508:G:OP1	2.11	0.51
1:CA:794:A:OP1	1:CA:1521:G:O2'	2.29	0.51
1:CA:965:A:N3	1:CA:965:A:H2'	2.26	0.51
2:CB:147:LYS:H	2:CB:147:LYS:HD2	1.76	0.51
10:CJ:10:GLY:HA3	10:CJ:16:LEU:CD2	2.40	0.51
1:CA:136:C:C2'	16:CP:63:GLY:HA3	2.41	0.51
22:DB:464:G:C2	50:D4:39:ARG:NH2	2.68	0.51
23:DA:112:A:H2'	23:DA:113:G:O4'	2.11	0.51
22:DB:930:A:H8	23:DA:83:C:H5'	1.65	0.51
22:DB:1006:C:H42	31:DK:30:LYS:HZ2	1.57	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:DB:1290:A:O2'	35:DO:24:GLN:HG2	2.10	0.51
22:DB:131:C:H2'	22:DB:132:U:C6	2.46	0.51
22:DB:1796:A:OP1	24:DD:250:TRP:HZ3	1.92	0.51
22:DB:2312:A:O2'	22:DB:2313:G:H3'	2.11	0.51
22:DB:2477:C:H2'	22:DB:2478:C:C5	2.46	0.51
22:DB:2570:C:H2'	22:DB:2571:G:H8	1.75	0.51
22:DB:2768:C:O4'	22:DB:2785:A:N3	2.43	0.51
22:DB:360:A:H2'	22:DB:361:G:O4'	2.10	0.51
22:DB:504:G:C4'	40:DT:27:VAL:O	2.59	0.51
22:DB:553:C:H5'	22:DB:554:U:OP2	2.11	0.51
22:DB:585:U:H2'	22:DB:586:G:C8	2.46	0.51
22:DB:697:G:H1	22:DB:807:A:H2	1.59	0.51
22:DB:865:A:H1'	46:DZ:39:ALA:N	2.18	0.51
24:DD:251:GLY:HA3	24:DD:255:LYS:HE3	1.93	0.51
28:DH:124:ALA:O	28:DH:125:VAL:HB	2.11	0.51
22:DB:2725:C:O3'	28:DH:141:VAL:CG2	2.59	0.51
29:DI:17:VAL:HG13	29:DI:17:VAL:O	2.10	0.51
22:DB:1072:U:C2	30:DJ:10:LEU:O	2.53	0.51
32:DL:48:GLY:O	32:DL:121:ARG:HD2	2.11	0.51
35:DO:112:LEU:HD13	35:DO:113:ILE:N	2.22	0.51
41:DU:80:VAL:HG12	41:DU:81:ARG:H	1.75	0.51
22:DB:934:G:C1'	44:DX:23:VAL:HG11	2.40	0.51
46:DZ:4:LYS:O	46:DZ:5:LEU:HD12	2.11	0.51
1:EA:115:G:H4'	1:EA:116:A:O5'	2.11	0.51
1:EA:1344:C:O2'	1:EA:1345:U:H5'	2.11	0.51
1:EA:1528:U:H5'	1:EA:1529:G:N2	2.26	0.51
1:EA:450:G:OP1	16:EP:43:LYS:HB2	2.06	0.51
1:EA:965:A:N3	1:EA:965:A:H2'	2.26	0.51
3:EC:188:LEU:HD13	3:EC:189:ALA:N	2.26	0.51
3:EC:22:TRP:CB	3:EC:59:ARG:HB2	2.41	0.51
4:ED:14:ARG:HG2	4:ED:66:ARG:HH12	1.76	0.51
6:EF:67:MET:SD	6:EF:72:VAL:HG22	2.51	0.51
9:EI:27:THR:HG23	9:EI:32:ASP:N	2.25	0.51
12:EL:35:GLY:H	12:EL:85:ILE:HD11	1.76	0.51
19:ES:47:HIS:O	19:ES:49:ILE:HG13	2.11	0.51
22:FB:123:A:C4'	50:F4:23:LYS:HZ1	2.22	0.51
53:F7:54:LEU:HD12	53:F7:153:ARG:O	2.11	0.51
23:FA:117:G:H4'	36:FP:52:ALA:C	2.31	0.51
22:FB:1117:G:H2'	22:FB:1118:G:O4'	2.11	0.51
22:FB:68:C:H5'	22:FB:111:G:N2	2.24	0.51
22:FB:987:G:O4'	22:FB:1167:A:N6	2.44	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:FB:1173:G:O2'	39:FS:91:THR:HB	2.11	0.51
22:FB:131:C:H2'	22:FB:132:U:C6	2.46	0.51
22:FB:1428:G:H4'	22:FB:1429:A:H4'	1.92	0.51
22:FB:1544:A:H2'	22:FB:1545:G:H4'	1.93	0.51
22:FB:2028:C:H2'	22:FB:2029:G:H8	1.74	0.51
22:FB:2056:C:O3'	24:FD:229:VAL:CA	2.58	0.51
22:FB:218:A:O3'	22:FB:219:G:H4'	2.11	0.51
22:FB:2238:G:H2'	22:FB:2239:C:C6	2.44	0.51
22:FB:2284:U:H3'	22:FB:2286:G:H8	1.76	0.51
22:FB:2294:U:H5'	27:FG:33:LYS:HZ1	1.73	0.51
22:FB:643:A:C2	22:FB:2382:C:O4'	2.64	0.51
22:FB:2540:A:H1'	32:FL:23:ARG:CG	2.33	0.51
22:FB:2621:G:H2'	22:FB:2622:G:C8	2.45	0.51
22:FB:2661:G:N3	22:FB:2661:G:H2'	2.25	0.51
22:FB:29:U:O2	22:FB:1228:G:H4'	2.11	0.51
22:FB:742:G:C2	24:FD:18:THR:CG2	2.94	0.51
22:FB:93:A:H2'	45:FY:37:LEU:CD2	2.40	0.51
24:FD:10:THR:O	24:FD:12:SER:N	2.43	0.51
24:FD:165:VAL:HG22	24:FD:175:VAL:HG22	1.92	0.51
22:FB:1783:G:H5'	24:FD:205:VAL:HG23	1.92	0.51
28:FH:9:ILE:HG13	28:FH:10:ALA:N	2.18	0.51
30:FJ:111:LYS:HZ1	30:FJ:115:LEU:HG	1.75	0.51
31:FK:120:SER:HA	31:FK:123:PRO:HG2	1.92	0.51
22:FB:631:G:O3'	33:FM:101:ARG:NH2	2.44	0.51
43:FW:19:ILE:HG13	43:FW:20:ALA:N	2.26	0.51
45:FY:55:THR:O	45:FY:56:VAL:C	2.50	0.51
1:GA:115:G:H4'	1:GA:116:A:O5'	2.11	0.51
1:GA:970:C:H4'	1:GA:972:C:C6	2.46	0.51
11:GK:105:VAL:HG12	11:GK:106:LYS:H	1.76	0.51
12:GL:30:ALA:C	12:GL:32:PHE:H	2.14	0.51
13:GM:93:ARG:NH1	22:HB:900:U:C5'	2.64	0.51
16:GP:34:GLU:CG	16:GP:36:ILE:HG12	2.41	0.51
23:HA:33:C:H2'	23:HA:34:C:C6	2.46	0.51
22:HB:1582:A:P	24:HD:24:LEU:HD13	2.49	0.51
22:HB:1652:G:H21	22:HB:1752:U:C1'	2.22	0.51
22:HB:1667:A:H2'	22:HB:1668:G:C8	2.44	0.51
22:HB:1995:G:H5'	40:HT:118:LYS:CA	2.41	0.51
22:HB:2006:G:H2'	22:HB:2007:G:C8	2.46	0.51
22:HB:2577:A:OP1	24:HD:236:GLY:HA2	2.11	0.51
22:HB:2756:A:H2'	22:HB:2762:G:C8	2.46	0.51
22:HB:1726:C:O2'	22:HB:2833:C:C2	2.64	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:HB:479:G:H5'	22:HB:810:U:OP1	2.10	0.51
22:HB:483:A:H2'	22:HB:484:G:H5'	1.93	0.51
22:HB:507:A:H2'	22:HB:508:G:C8	2.46	0.51
22:HB:575:U:O4	39:HS:80:TYR:N	2.43	0.51
22:HB:619:A:N3	22:HB:620:G:N7	2.59	0.51
22:HB:1584:G:H5''	24:HD:59:LYS:HE3	1.89	0.51
24:HD:63:ARG:NH2	24:HD:88:ARG:HD3	2.26	0.51
27:HG:128:TYR:HD2	27:HG:167:ARG:HH11	1.57	0.51
23:HA:59:A:N9	27:HG:24:SER:OG	2.43	0.51
22:HB:1148:G:O2'	31:HK:134:MET:CG	2.58	0.51
32:HL:48:GLY:O	32:HL:121:ARG:HD2	2.11	0.51
35:HO:25:ALA:HA	35:HO:34:ILE:HD12	1.92	0.51
32:HL:90:ARG:C	37:HQ:79:ARG:HH11	2.12	0.51
22:HB:543:G:O2'	38:HR:42:ALA:CB	2.57	0.51
38:HR:61:TRP:O	38:HR:62:ILE:HG23	2.10	0.51
43:HW:124:ALA:HB2	43:HW:160:LEU:H	1.75	0.51
1:IA:1116:C:C2'	1:IA:1117:G:H5''	2.41	0.51
1:IA:1178:G:H2'	1:IA:1180:A:OP2	2.11	0.51
1:IA:1226:C:H1'	19:IS:80:TYR:CD2	2.45	0.51
1:IA:1528:U:C4'	1:IA:1529:G:H21	2.23	0.51
1:IA:958:A:C5	19:IS:56:GLN:CG	2.94	0.51
6:IF:24:GLU:HA	6:IF:27:GLN:HG2	1.93	0.51
8:IH:96:GLY:N	8:IH:99:GLU:HB2	2.24	0.51
10:IJ:34:VAL:HG12	10:IJ:35:SER:N	2.26	0.51
1:IA:376:G:H5''	16:IP:5:ARG:HB2	1.93	0.51
6:IF:97:PHE:CE2	18:IR:62:GLU:OE2	2.63	0.51
19:IS:33:THR:HB	19:IS:51:VAL:HA	1.91	0.51
22:JB:2264:C:H6	49:J3:28:ARG:HB2	1.70	0.51
53:J7:69:SER:HB3	53:J7:115:GLU:OE2	2.10	0.51
22:JB:1486:A:N6	22:JB:1536:G:C2	2.79	0.51
22:JB:1762:C:H5'	22:JB:1921:A:C8	2.46	0.51
22:JB:2311:U:C4'	22:JB:2315:A:H62	2.20	0.51
22:JB:2493:U:O2'	22:JB:2494:C:H5'	2.10	0.51
22:JB:2558:C:H5'	25:JE:132:LYS:CG	2.18	0.51
22:JB:2701:A:C5	22:JB:2848:A:N6	2.78	0.51
22:JB:2727:G:O2'	22:JB:2728:A:H5''	2.11	0.51
22:JB:3154:G:H2'	22:JB:3155:G:H8	1.74	0.51
22:JB:511:A:H3'	22:JB:512:A:P	2.51	0.51
22:JB:544:U:H4'	38:JR:20:ARG:NH2	2.25	0.51
22:JB:619:A:N3	22:JB:620:G:N7	2.59	0.51
22:JB:692:C:H2'	22:JB:693:A:H8	1.76	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:JB:74:G:O2'	45:JY:55:THR:HG23	2.10	0.51
22:JB:2200:G:H22	24:JD:149:PRO:HB3	1.76	0.51
24:JD:243:GLY:C	24:JD:245:VAL:H	2.14	0.51
24:JD:55:GLY:HA2	24:JD:218:LYS:N	2.26	0.51
27:JG:131:GLY:O	27:JG:132:ILE:O	2.28	0.51
27:JG:93:GLY:O	27:JG:96:MET:HB3	2.10	0.51
28:JH:129:THR:HB	28:JH:130:ARG:NH1	2.26	0.51
32:JL:48:GLY:O	32:JL:121:ARG:HD2	2.11	0.51
33:JM:45:LYS:HB2	33:JM:45:LYS:NZ	2.26	0.51
22:JB:884:C:OP1	34:JN:70:PHE:CZ	2.64	0.51
22:JB:1201:G:O2'	39:JS:80:TYR:CE1	2.63	0.51
43:JW:19:ILE:HG13	43:JW:20:ALA:N	2.25	0.51
43:JW:67:LYS:HD3	43:JW:82:ASP:HB3	1.93	0.51
44:JX:74:LYS:HD2	44:JX:75:GLY:H	1.75	0.51
46:JZ:45:LYS:HG3	46:JZ:48:LYS:HD2	1.92	0.51
1:AA:17:U:O4'	1:AA:1079:G:O2'	2.28	0.51
1:AA:1245:A:H2'	1:AA:1246:C:C6	2.46	0.51
1:AA:1327:C:C2'	1:AA:1328:C:H5'	2.41	0.51
1:AA:1344:C:O2'	1:AA:1345:U:H5'	2.11	0.51
1:AA:1527:C:H2'	1:AA:1528:U:C6	2.46	0.51
1:AA:17:U:C5'	5:AE:16:THR:HG21	2.40	0.51
1:AA:346:G:O5'	37:BQ:51:GLU:HG3	2.11	0.51
1:AA:697:U:H1'	1:AA:785:G:O2'	2.10	0.51
1:AA:970:C:H4'	1:AA:972:C:C6	2.46	0.51
2:AB:91:PRO:HB2	2:AB:152:PHE:HA	1.91	0.51
3:AC:188:LEU:HD13	3:AC:189:ALA:N	2.26	0.51
4:AD:97:LEU:HA	4:AD:100:ARG:HD3	1.93	0.51
6:AF:10:LEU:O	6:AF:12:PRO:HD3	2.11	0.51
7:AG:68:ASN:ND2	7:AG:127:ALA:HB1	2.25	0.51
8:AH:31:PHE:HB3	8:AH:32:LYS:HE2	1.91	0.51
9:AI:27:THR:HG23	9:AI:32:ASP:N	2.26	0.51
10:AJ:10:GLY:HA3	10:AJ:16:LEU:CD2	2.40	0.51
10:AJ:34:VAL:HG12	10:AJ:35:SER:N	2.26	0.51
1:AA:969:A:P	10:AJ:56:HIS:ND1	2.83	0.51
11:AK:21:ILE:O	11:AK:85:ARG:HB2	2.10	0.51
10:AJ:47:PHE:CE2	14:AN:37:PHE:CE2	2.95	0.51
16:AP:4:ILE:HA	16:AP:20:VAL:O	2.11	0.51
22:BB:1378:A:P	47:B1:40:HIS:CE1	3.01	0.51
50:B4:10:ARG:NH2	50:B4:10:ARG:HA	2.26	0.51
23:BA:44:C:C4	27:BG:90:THR:OG1	2.63	0.51
22:BB:1238:A:C5'	39:BS:73:LYS:C	2.79	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:BB:1535:C:H41	22:BB:1536:G:H21	1.54	0.51
22:BB:1841:G:H2'	22:BB:1842:G:C8	2.44	0.51
22:BB:2006:G:H2'	22:BB:2007:G:C8	2.46	0.51
22:BB:218:A:O3'	22:BB:219:G:H4'	2.11	0.51
22:BB:2312:A:O2'	22:BB:2313:G:H3'	2.11	0.51
22:BB:2661:G:N3	22:BB:2661:G:H2'	2.25	0.51
22:BB:360:A:H2'	22:BB:361:G:O4'	2.10	0.51
22:BB:511:A:C6	40:BT:12:LYS:CD	2.88	0.51
22:BB:583:C:H5'	22:BB:585:U:OP2	2.11	0.51
22:BB:66:U:N3	22:BB:73:A:N7	2.55	0.51
24:BD:55:GLY:HA2	24:BD:218:LYS:N	2.25	0.51
22:BB:1673:C:OP1	25:BE:117:MET:HE1	2.11	0.51
25:BE:92:ASN:OD1	25:BE:182:ILE:HG12	2.11	0.51
22:BB:597:U:O2'	26:BF:84:PHE:CZ	2.39	0.51
27:BG:13:ARG:H	27:BG:14:PRO:CD	2.24	0.51
32:BL:114:VAL:HG13	32:BL:131:PRO:HD2	1.92	0.51
32:BL:91:PHE:CE2	37:BQ:79:ARG:CG	2.92	0.51
35:BO:47:PHE:HE1	35:BO:70:ILE:HD11	1.76	0.51
22:BB:2814:G:N3	35:BO:92:GLY:N	2.58	0.51
38:BR:101:ARG:NH2	38:BR:102:GLU:HB2	2.25	0.51
38:BR:61:TRP:O	38:BR:62:ILE:HG23	2.10	0.51
22:BB:2335:U:C5'	44:BX:19:LYS:HD2	2.26	0.51
44:BX:32:LYS:HA	44:BX:66:LYS:NZ	2.25	0.51
1:CA:115:G:H4'	1:CA:116:A:O5'	2.11	0.51
1:CA:1299:A:C8	1:CA:1301:U:H1'	2.46	0.51
1:CA:1236:A:C4'	1:CA:1304:G:H4'	2.40	0.51
1:CA:1310:G:C8	19:CS:2:PRO:HD3	2.46	0.51
1:CA:16:A:C2	1:CA:1080:A:H1'	2.46	0.51
1:CA:434:U:H2'	1:CA:435:C:C6	2.46	0.51
1:CA:37:U:H4'	1:CA:500:G:O3'	2.10	0.51
1:CA:583:A:H1'	17:CQ:91:ARG:HE	1.57	0.51
1:CA:642:A:N1	8:CH:132:GLU:CB	2.68	0.51
1:CA:876:G:H2'	1:CA:877:C:O4'	2.10	0.51
2:CB:178:ARG:NH2	2:CB:198:ASP:HA	2.25	0.51
1:CA:1256:A:H62	3:CC:26:LYS:HZ2	1.57	0.51
7:CG:139:GLU:HA	7:CG:142:GLU:CD	2.31	0.51
1:CA:1350:A:N3	7:CG:33:ASP:O	2.44	0.51
8:CH:52:ASP:HA	8:CH:57:PRO:HB3	1.93	0.51
9:CI:25:LYS:HE2	9:CI:34:ASN:HD22	1.75	0.51
10:CJ:34:VAL:HG12	10:CJ:35:SER:N	2.26	0.51
1:CA:520:A:H5'	12:CL:52:LEU:HB2	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:949:A:P	13:CM:102:ARG:NE	2.81	0.51
1:CA:1228:C:H4'	13:CM:117:VAL:O	2.10	0.51
10:CJ:63:PHE:N	14:CN:59:ALA:H	2.08	0.51
16:CP:34:GLU:CG	16:CP:36:ILE:HG12	2.41	0.51
22:DB:696:U:C4'	50:D4:16:HIS:ND1	2.71	0.51
53:D7:13:LYS:HZ1	53:D7:177:GLU:HA	1.76	0.51
22:DB:1018:C:H2'	22:DB:1019:U:H5	1.75	0.51
22:DB:1583:A:H61	24:DD:89:SER:HB3	1.70	0.51
22:DB:1791:C:H1'	22:DB:1793:A:H5'	1.93	0.51
22:DB:1816:G:P	24:DD:54:ILE:CD1	2.95	0.51
22:DB:2292:C:H4'	27:DG:87:ILE:CD1	2.40	0.51
22:DB:2685:A:O2'	35:DO:64:ARG:NH2	2.44	0.51
22:DB:29:U:O2	22:DB:1228:G:H4'	2.11	0.51
22:DB:3171:A:H4'	22:DB:3172:U:C5'	2.41	0.51
22:DB:640:C:H2'	22:DB:641:G:O4'	2.10	0.51
22:DB:987:G:H2'	22:DB:988:G:C8	2.46	0.51
24:DD:117:VAL:HG22	24:DD:127:LEU:HD13	1.91	0.51
28:DH:129:THR:HB	28:DH:130:ARG:NH1	2.26	0.51
22:DB:2445:C:O2	34:DN:120:ARG:HD2	2.11	0.51
34:DN:36:ILE:HG13	43:DW:74:ARG:C	2.31	0.51
35:DO:13:ASN:HB2	35:DO:16:ALA:HB2	1.92	0.51
1:EA:1299:A:C8	1:EA:1301:U:H1'	2.46	0.51
1:EA:1311:G:H8	19:ES:2:PRO:N	2.04	0.51
1:EA:1527:C:H2'	1:EA:1528:U:C6	2.46	0.51
1:EA:392:G:OP2	16:EP:12:LYS:CA	2.59	0.51
1:EA:39:G:H1'	1:EA:498:U:O2	2.11	0.51
1:EA:588:G:N9	8:EH:2:LEU:HD11	2.26	0.51
2:EB:115:LEU:O	2:EB:119:GLU:HB2	2.10	0.51
1:EA:1057:G:P	3:EC:155:GLY:HA3	2.51	0.51
12:EL:75:HIS:HB2	12:EL:108:ALA:CB	2.41	0.51
13:EM:50:GLU:O	13:EM:54:VAL:HG23	2.10	0.51
22:FB:2039:G:H21	48:F2:3:LYS:H	0.67	0.51
53:F7:206:LYS:HB2	53:F7:212:ALA:HA	1.91	0.51
22:FB:1038:U:H3	22:FB:1137:A:H5'	1.75	0.51
22:FB:1250:A:N3	22:FB:1250:A:H2'	2.26	0.51
22:FB:1274:C:P	40:FT:118:LYS:CE	2.84	0.51
22:FB:1866:G:H2'	22:FB:1867:A:C8	2.45	0.51
22:FB:2044:G:H4'	22:FB:2045:A:C6	2.46	0.51
22:FB:2258:G:H1'	22:FB:2306:A:O2'	2.11	0.51
22:FB:2312:A:O2'	22:FB:2313:G:H3'	2.11	0.51
22:FB:2470:U:O2	22:FB:2549:G:OP1	2.28	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:FB:2701:A:N7	22:FB:2848:A:C5	2.79	0.51
22:FB:538:A:H3'	31:FK:139:ARG:CZ	2.40	0.51
22:FB:661:C:H5'	51:F5:17:THR:CG2	2.31	0.51
24:FD:176:ARG:NH1	24:FD:176:ARG:HB3	2.25	0.51
25:FE:51:TYR:OH	37:FQ:3:THR:HA	2.11	0.51
27:FG:13:ARG:H	27:FG:14:PRO:CD	2.24	0.51
27:FG:163:ASP:HA	27:FG:166:ALA:HB3	1.93	0.51
27:FG:32:GLU:OE2	27:FG:33:LYS:HG3	2.10	0.51
30:FJ:57:ILE:O	30:FJ:57:ILE:HG23	2.11	0.51
31:FK:42:VAL:HG22	31:FK:166:LEU:HD23	1.92	0.51
22:FB:567:G:C2'	31:FK:73:ASN:H	2.06	0.51
34:FN:60:ARG:HB3	34:FN:62:GLY:O	2.11	0.51
22:FB:1666:G:N2	35:FO:106:ASP:OD1	2.43	0.51
22:FB:2688:G:OP1	35:FO:18:VAL:CG2	2.59	0.51
22:FB:1291:G:C5'	35:FO:35:GLN:H	2.11	0.51
35:FO:47:PHE:HE1	35:FO:70:ILE:HD11	1.76	0.51
37:FQ:39:VAL:HG12	37:FQ:41:GLU:H	1.75	0.51
1:GA:1500:A:H5''	1:GA:1508:G:OP1	2.11	0.51
1:GA:386:C:H2'	1:GA:387:U:O4'	2.11	0.51
1:GA:39:G:H1'	1:GA:498:U:O2	2.11	0.51
1:GA:782:A:H2'	1:GA:783:C:O4'	2.11	0.51
3:GC:29:TYR:OH	10:GJ:11:PHE:HE1	1.84	0.51
1:GA:1297:C:C1'	7:GG:114:ARG:NH1	2.59	0.51
1:GA:1199:U:C4'	10:GJ:54:PHE:HD2	2.13	0.51
22:HB:1374:G:HO2'	47:H1:53:GLU:HG3	1.73	0.51
53:H7:69:SER:HB3	53:H7:115:GLU:OE2	2.10	0.51
22:HB:3123:G:O2'	53:H7:168:PHE:CE1	2.64	0.51
22:HB:1042:G:OP1	52:H6:8:LYS:HE2	2.04	0.51
22:HB:1263:G:H4'	22:HB:1264:C:OP1	2.11	0.51
22:HB:1416:A:C5'	22:HB:1485:U:H1'	2.40	0.51
22:HB:1719:G:H2'	22:HB:1720:G:C8	2.46	0.51
22:HB:2029:G:H1'	48:H2:22:HIS:CG	2.45	0.51
22:HB:2312:A:O2'	22:HB:2313:G:H3'	2.11	0.51
22:HB:2493:U:O2'	22:HB:2494:C:H5'	2.10	0.51
22:HB:2558:C:C4'	25:HE:132:LYS:CB	2.85	0.51
22:HB:2873:G:H2'	22:HB:2874:A:C8	2.46	0.51
22:HB:2:G:N1	22:HB:2876:C:C4	2.79	0.51
22:HB:515:A:P	40:HT:15:LYS:HZ1	2.34	0.51
22:HB:585:U:H2'	22:HB:586:G:C8	2.46	0.51
22:HB:644:A:C2	22:HB:2382:C:H4'	2.46	0.51
22:HB:95:G:H8	45:HY:41:HIS:HB3	1.74	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:HD:262:LYS:O	24:HD:263:ARG:HB3	2.11	0.51
25:HE:24:THR:HG22	25:HE:25:VAL:N	2.26	0.51
25:HE:93:VAL:HG13	25:HE:98:GLU:OE1	2.11	0.51
26:HF:48:ARG:O	26:HF:83:ALA:HA	2.11	0.51
22:HB:1090:C:C1'	30:HJ:132:ARG:CZ	2.77	0.51
22:HB:1141:U:H5'	31:HK:107:GLN:H	1.75	0.51
32:HL:119:ARG:CZ	37:HQ:43:ASN:CA	2.83	0.51
32:HL:92:ASP:OD2	37:HQ:79:ARG:NH2	2.44	0.51
33:HM:103:ASN:O	33:HM:105:PRO:HD3	2.11	0.51
33:HM:45:LYS:NZ	33:HM:45:LYS:HB2	2.25	0.51
34:HN:106:GLU:O	43:HW:113:VAL:CG2	2.51	0.51
22:HB:2814:G:H5'	35:HO:45:ARG:HB3	1.93	0.51
22:HB:1468:A:C2	35:HO:80:MET:HG2	2.46	0.51
22:HB:1235:C:N4	39:HS:71:ILE:HD13	2.26	0.51
1:IA:1148:U:H2'	1:IA:1149:C:C6	2.46	0.51
1:IA:892:A:H1'	1:IA:1415:G:H4'	1.92	0.51
1:IA:1528:U:H5'	1:IA:1529:G:N2	2.26	0.51
1:IA:691:G:OP2	11:IK:26:ASN:CG	2.49	0.51
1:IA:970:C:H4'	1:IA:972:C:C6	2.46	0.51
3:IC:35:GLU:O	3:IC:39:ILE:HG13	2.09	0.51
1:IA:1368:G:H3'	9:II:112:LYS:HD3	1.91	0.51
18:IR:63:GLN:OE1	18:IR:66:LEU:HD23	2.11	0.51
19:IS:47:HIS:O	19:IS:49:ILE:HG13	2.11	0.51
47:J1:49:PHE:H	47:J1:69:ARG:CG	2.23	0.51
22:JB:3164:C:OP1	53:J7:102:LYS:HG2	2.10	0.51
22:JB:3172:U:OP1	53:J7:131:ARG:CD	2.59	0.51
22:JB:1261:G:O5'	38:JR:2:PRO:CB	2.56	0.51
22:JB:1265:G:N2	38:JR:32:TYR:CD1	2.79	0.51
22:JB:2249:U:H2'	22:JB:2250:G:H5'	1.93	0.51
22:JB:2312:A:O2'	22:JB:2313:G:H3'	2.11	0.51
22:JB:797:A:OP1	22:JB:2567:G:H5''	2.11	0.51
22:JB:10:A:N6	22:JB:2607:C:H5''	2.26	0.51
22:JB:2654:A:H2'	22:JB:2655:C:O4'	2.10	0.51
22:JB:2873:G:H2'	22:JB:2874:A:C8	2.46	0.51
22:JB:3116:G:P	22:JB:3166:G:H21	2.34	0.51
22:JB:394:U:O2'	22:JB:395:G:H5'	2.11	0.51
22:JB:507:A:H2'	22:JB:508:G:C8	2.46	0.51
22:JB:592:G:N3	26:JF:78:VAL:HB	2.25	0.51
22:JB:827:C:C5	33:JM:32:ARG:CD	2.91	0.51
22:JB:1810:U:O4	24:JD:154:GLN:N	2.40	0.51
22:JB:2489:C:H2'	25:JE:125:GLY:HA2	1.89	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:JB:1204:G:C4'	33:JM:37:GLN:HE22	2.16	0.51
34:JN:61:ARG:NE	43:JW:109:GLN:O	2.44	0.51
35:JO:12:ARG:HD3	35:JO:13:ASN:H	1.76	0.51
22:JB:529:U:C3'	40:JT:39:ARG:HH21	2.21	0.51
22:JB:528:G:C1'	40:JT:96:TYR:HD2	2.23	0.51
22:JB:95:G:H1'	45:JY:45:GLN:CG	2.41	0.51
1:AA:39:G:H1'	1:AA:498:U:O2	2.11	0.51
1:AA:37:U:H4'	1:AA:500:G:O3'	2.11	0.51
2:AB:23:ARG:HD3	2:AB:24:TRP:N	2.26	0.51
2:AB:25:ASN:HB2	2:AB:191:ASP:HA	1.93	0.51
10:AJ:51:ARG:HA	14:AN:45:ARG:CD	2.35	0.51
22:BB:1004:A:C5	22:BB:1173:G:N1	2.79	0.51
22:BB:1250:A:N3	22:BB:1250:A:H2'	2.26	0.51
22:BB:1339:U:H2'	22:BB:1340:C:O4'	2.10	0.51
22:BB:1791:C:H1'	22:BB:1793:A:H5'	1.93	0.51
22:BB:1992:G:H5''	40:BT:62:ARG:CZ	2.40	0.51
22:BB:2557:G:O2'	25:BE:133:LYS:CD	2.58	0.51
22:BB:2727:G:N1	22:BB:2735:C:H5''	2.26	0.51
22:BB:2727:G:O2'	22:BB:2728:A:H5''	2.11	0.51
22:BB:2813:G:O2'	35:BO:45:ARG:HB3	2.10	0.51
22:BB:2862:G:O4'	48:B2:31:THR:CA	2.37	0.51
22:BB:544:U:H5'	38:BR:46:GLU:CG	2.41	0.51
22:BB:585:U:H2'	22:BB:586:G:C8	2.46	0.51
22:BB:216:U:H1'	22:BB:632:A:H8	1.76	0.51
22:BB:661:C:H2'	22:BB:662:G:C8	2.45	0.51
22:BB:987:G:H2'	22:BB:988:G:C8	2.46	0.51
22:BB:1582:A:H1'	24:BD:211:ARG:O	2.11	0.51
22:BB:2614:A:H4'	25:BE:77:ILE:HG21	1.91	0.51
28:BH:103:LEU:HD23	28:BH:105:MET:SD	2.51	0.51
31:BK:29:VAL:N	31:BK:30:LYS:HZ1	2.09	0.51
22:BB:7:G:C4'	31:BK:79:PHE:CZ	2.94	0.51
34:BN:55:MET:HG3	34:BN:114:GLN:O	2.10	0.51
34:BN:30:PHE:O	34:BN:131:LYS:HD3	2.11	0.51
35:BO:40:LYS:NZ	35:BO:44:LEU:HD13	2.26	0.51
36:BP:108:ARG:HA	36:BP:111:GLY:O	2.11	0.51
37:BQ:38:LYS:CD	37:BQ:50:PHE:HB2	2.41	0.51
22:BB:2333:A:H1'	44:BX:31:VAL:C	2.31	0.51
1:CA:1178:G:H2'	1:CA:1180:A:OP2	2.10	0.51
1:CA:1327:C:C2'	1:CA:1328:C:H5'	2.41	0.51
1:CA:1344:C:C3'	9:CI:120:ARG:CD	2.89	0.51
1:CA:970:C:H4'	1:CA:972:C:C6	2.47	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CB:86:GLU:C	2:CB:88:ALA:H	2.15	0.51
5:CE:104:ALA:HA	5:CE:107:ARG:NH2	2.25	0.51
1:CA:1240:U:H5	7:CG:116:ALA:H	1.57	0.51
7:CG:68:ASN:ND2	7:CG:127:ALA:HB1	2.25	0.51
7:CG:49:ILE:HA	7:CG:53:LYS:HZ3	1.76	0.51
1:CA:827:U:O4'	8:CH:19:VAL:HG21	2.11	0.51
11:CK:21:ILE:O	11:CK:85:ARG:HB2	2.10	0.51
12:CL:35:GLY:H	12:CL:85:ILE:HD11	1.76	0.51
1:CA:520:A:H3'	12:CL:53:ARG:HE	1.76	0.51
1:CA:975:A:C8	14:CN:34:TYR:HE1	2.29	0.51
16:CP:60:LEU:HD23	16:CP:65:GLN:NE2	2.21	0.51
22:DB:123:A:OP2	50:D4:14:LYS:HG3	2.05	0.51
22:DB:561:U:O5'	22:DB:1233:A:C2	2.64	0.51
22:DB:1818:G:N2	22:DB:1883:A:C2	2.74	0.51
22:DB:1841:G:H2'	22:DB:1842:G:C8	2.44	0.51
22:DB:1142:G:C6	22:DB:2008:C:H4'	2.46	0.51
22:DB:2181:A:C1'	29:DI:24:TYR:HD2	1.89	0.51
22:DB:218:A:O3'	22:DB:219:G:H4'	2.11	0.51
22:DB:2661:G:H2'	22:DB:2661:G:N3	2.26	0.51
22:DB:2727:G:N1	22:DB:2735:C:H5''	2.26	0.51
22:DB:106:G:N3	22:DB:357:A:C2	2.79	0.51
22:DB:512:A:H5''	40:DT:15:LYS:HB3	1.88	0.51
22:DB:583:C:H5'	22:DB:585:U:OP2	2.11	0.51
22:DB:7:G:H5'	31:DK:161:GLN:HA	1.92	0.51
25:DE:93:VAL:HG13	25:DE:98:GLU:OE1	2.11	0.51
29:DI:2:GLN:HG3	29:DI:42:ASN:ND2	2.26	0.51
30:DJ:111:LYS:HB3	30:DJ:111:LYS:HZ3	1.76	0.51
31:DK:159:SER:HA	31:DK:162:LYS:HD2	1.93	0.51
22:DB:2706:U:C1'	32:DL:79:HIS:HE2	2.24	0.51
23:DA:9:G:H5'	36:DP:32:TYR:CE1	2.45	0.51
37:DQ:55:ILE:N	37:DQ:55:ILE:HD13	2.15	0.51
37:DQ:53:VAL:HB	37:DQ:69:ARG:NH2	2.26	0.51
38:DR:95:LEU:HD13	39:DS:4:ILE:HG21	1.92	0.51
42:DV:99:VAL:HG12	42:DV:100:ASP:H	1.76	0.51
43:DW:19:ILE:HG13	43:DW:20:ALA:N	2.26	0.51
1:EA:1251:A:C2	1:EA:1252:A:H1'	2.46	0.51
1:EA:1298:C:N4	7:EG:114:ARG:CB	2.74	0.51
1:EA:1347:G:HO2'	1:EA:1348:U:H6	1.59	0.51
1:EA:1386:G:H2'	1:EA:1387:G:H8	1.75	0.51
1:EA:1500:A:H5''	1:EA:1508:G:OP1	2.11	0.51
3:EC:12:LEU:CA	3:EC:16:ARG:HB3	2.40	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:EA:1206:G:C2'	3:EC:193:TYR:CB	2.87	0.51
4:ED:196:LEU:HD22	4:ED:198:VAL:O	2.10	0.51
5:EE:79:GLU:HG3	5:EE:92:LYS:HA	1.92	0.51
7:EG:135:VAL:HA	7:EG:138:LYS:HB3	1.92	0.51
9:EI:50:LEU:HD22	9:EI:56:LEU:N	2.25	0.51
1:EA:1227:A:P	13:EM:111:LYS:NZ	2.54	0.51
14:EN:9:LYS:HG2	14:EN:14:PRO:HG3	1.92	0.51
1:EA:280:C:C1'	17:EQ:95:TYR:OH	2.58	0.51
22:FB:2411:A:N3	47:F1:28:ARG:O	2.44	0.51
22:FB:2063:A:C4'	47:F1:33:VAL:HG22	2.36	0.51
50:F4:10:ARG:HA	50:F4:10:ARG:NH2	2.26	0.51
22:FB:2733:A:C4	52:F6:15:LYS:HE2	2.46	0.51
22:FB:3876:A:H1'	53:F7:45:ASP:OD1	2.11	0.51
23:FA:58:G:H4'	23:FA:59:A:H5'	1.92	0.51
22:FB:1151:U:H4'	22:FB:1152:C:H5''	1.92	0.51
22:FB:1163:C:C1'	38:FR:78:THR:OG1	2.58	0.51
22:FB:1263:G:H4'	22:FB:1264:C:OP1	2.11	0.51
22:FB:705:C:H1'	22:FB:1367:A:O4'	2.11	0.51
22:FB:1488:G:C5	22:FB:1533:G:O6	2.64	0.51
22:FB:2003:A:H4'	38:FR:25:TRP:CZ2	2.46	0.51
22:FB:2006:G:H2'	22:FB:2007:G:C8	2.46	0.51
22:FB:2049:C:H2'	22:FB:2050:G:H5'	1.93	0.51
22:FB:2727:G:O2'	22:FB:2728:A:H5''	2.11	0.51
22:FB:3125:G:OP1	53:F7:26:PHE:CZ	2.64	0.51
22:FB:312:G:H5'	42:FV:89:GLY:CA	2.24	0.51
22:FB:360:A:H2'	22:FB:361:G:O4'	2.10	0.51
22:FB:415:A:HO2'	22:FB:420:C:H5'	1.76	0.51
22:FB:507:A:H2'	22:FB:508:G:C8	2.46	0.51
22:FB:585:U:H2'	22:FB:586:G:C8	2.46	0.51
22:FB:661:C:H2'	22:FB:662:G:C8	2.45	0.51
22:FB:697:G:H1	22:FB:807:A:H2	1.59	0.51
22:FB:946:U:HO3'	22:FB:947:C:P	2.33	0.51
24:FD:243:GLY:C	24:FD:245:VAL:H	2.14	0.51
24:FD:251:GLY:HA3	24:FD:255:LYS:HE3	1.93	0.51
27:FG:179:LYS:HB2	1:IA:1021:G:H5'	1.92	0.51
22:FB:227:G:O3'	33:FM:55:ARG:HD3	2.11	0.51
22:FB:1290:A:C1'	35:FO:24:GLN:CB	2.89	0.51
22:FB:1004:A:OP1	38:FR:48:ARG:HA	2.11	0.51
39:FS:6:GLN:HG2	39:FS:7:THR:HG23	1.93	0.51
46:FZ:45:LYS:HG3	46:FZ:48:LYS:HD2	1.92	0.51
1:GA:185:A:O2'	20:GT:78:ALA:CB	2.47	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:GA:967:C:H2'	1:GA:968:A:C5	2.46	0.51
2:GB:189:ASP:CB	2:GB:204:ASN:HA	2.39	0.51
3:GC:22:TRP:CB	3:GC:59:ARG:HB2	2.41	0.51
4:GD:97:LEU:HA	4:GD:100:ARG:HD3	1.93	0.51
6:GF:29:ALA:HA	6:GF:33:TYR:CD1	2.46	0.51
9:GI:50:LEU:HD22	9:GI:56:LEU:N	2.25	0.51
15:GO:82:ILE:C	15:GO:84:LYS:H	2.14	0.51
16:GP:19:ILE:HD11	16:GP:37:GLY:HA3	1.93	0.51
1:GA:255:G:C2	17:GQ:16:GLN:NE2	2.77	0.51
22:HB:2861:A:N1	48:H2:40:LYS:HG2	2.26	0.51
52:H6:31:LYS:HG3	52:H6:32:HIS:CD2	2.46	0.51
22:HB:1861:G:H22	53:H7:45:ASP:CG	2.14	0.51
53:H7:64:VAL:CG2	53:H7:152:LYS:HG2	2.41	0.51
23:HA:69:G:H4'	43:HW:160:LEU:HD11	1.92	0.51
22:HB:1038:U:H3	22:HB:1137:A:H5'	1.75	0.51
22:HB:1117:G:H2'	22:HB:1118:G:O4'	2.11	0.51
22:HB:1291:G:H2'	22:HB:1292:A:C8	2.44	0.51
22:HB:705:C:H1'	22:HB:1367:A:O4'	2.10	0.51
22:HB:1142:G:C6	22:HB:2008:C:H4'	2.46	0.51
22:HB:2287:G:H5'	22:HB:2288:A:OP1	2.10	0.51
22:HB:2533:U:H2'	22:HB:2534:U:H5	1.75	0.51
22:HB:2662:C:H2'	32:HL:82:LYS:NZ	2.26	0.51
22:HB:2727:G:O2'	22:HB:2728:A:H5''	2.11	0.51
22:HB:394:U:O2'	22:HB:395:G:H5'	2.11	0.51
22:HB:498:C:C1'	40:HT:77:ALA:HB2	2.39	0.51
22:HB:504:G:H4'	40:HT:25:PHE:HB3	1.92	0.51
22:HB:741:G:H1'	24:HD:17:THR:CB	2.33	0.51
22:HB:857:U:O4	22:HB:943:U:C4	2.64	0.51
22:HB:987:G:H2'	22:HB:988:G:H8	1.75	0.51
27:HG:175:LEU:H	27:HG:176:PRO:CD	2.23	0.51
31:HK:162:LYS:N	31:HK:162:LYS:HD3	2.25	0.51
32:HL:7:ARG:O	32:HL:8:LEU:HD23	2.10	0.51
34:HN:100:PRO:HG2	34:HN:102:ARG:HH12	1.75	0.51
22:HB:1041:G:OP1	34:HN:119:PHE:HZ	1.93	0.51
22:HB:2462:C:C1'	34:HN:50:ALA:HB2	2.39	0.51
36:HP:5:THR:C	36:HP:7:ILE:H	2.14	0.51
37:HQ:66:PHE:HB2	37:HQ:85:SER:HB3	1.91	0.51
44:HX:45:PHE:H	44:HX:76:ALA:H	1.59	0.51
1:IA:1057:G:O2'	3:IC:197:GLY:N	2.44	0.51
1:IA:1137:C:O2'	1:IA:1138:G:H5''	2.10	0.51
1:IA:1327:C:C2'	1:IA:1328:C:H5'	2.41	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:IA:1386:G:H2'	1:IA:1387:G:H8	1.75	0.51
1:IA:569:C:H1'	1:IA:574:A:H2'	1.92	0.51
1:IA:707:C:H5''	11:IK:85:ARG:HH12	0.69	0.51
1:IA:877:C:H4'	8:IH:88:LYS:HG3	1.83	0.51
2:IB:187:LEU:HD11	2:IB:204:ASN:N	2.26	0.51
3:IC:188:LEU:HD13	3:IC:189:ALA:N	2.26	0.51
3:IC:22:TRP:CB	3:IC:59:ARG:HB2	2.41	0.51
3:IC:64:VAL:HG12	3:IC:65:ALA:N	2.26	0.51
3:IC:71:ALA:HB2	3:IC:115:LEU:HD11	1.92	0.51
5:IE:79:GLU:HG3	5:IE:92:LYS:HA	1.92	0.51
6:IF:26:ILE:O	6:IF:30:LEU:HG	2.10	0.51
1:IA:1350:A:C2	7:IG:33:ASP:O	2.63	0.51
8:IH:52:ASP:HA	8:IH:57:PRO:HB3	1.93	0.51
13:IM:2:ALA:HB3	13:IM:10:PRO:HD2	1.93	0.51
1:IA:719:C:N4	18:IR:74:ARG:HH12	2.09	0.51
1:IA:258:G:H5'	20:IT:87:LYS:NZ	2.26	0.51
49:J3:49:VAL:HG12	49:J3:51:ARG:HG3	1.93	0.51
50:J4:10:ARG:HA	50:J4:10:ARG:NH2	2.26	0.51
22:JB:2722:C:OP2	52:J6:35:ARG:CG	2.59	0.51
53:J7:34:LEU:HD13	53:J7:165:VAL:HB	1.92	0.51
53:J7:54:LEU:HD12	53:J7:153:ARG:O	2.11	0.51
22:JB:3167:U:C6	53:J7:98:ARG:CA	2.71	0.51
22:JB:1142:G:C6	22:JB:2008:C:H4'	2.46	0.51
22:JB:1238:A:C5'	39:JS:73:LYS:CG	2.78	0.51
22:JB:1263:G:H4'	22:JB:1264:C:OP1	2.11	0.51
22:JB:1291:G:H2'	22:JB:1292:A:C8	2.44	0.51
22:JB:1818:G:H2'	22:JB:1819:U:C6	2.45	0.51
22:JB:2611:A:O5'	22:JB:2786:G:N2	2.44	0.51
22:JB:3148:G:H3'	22:JB:3148:G:N3	2.26	0.51
22:JB:946:U:O2'	22:JB:947:C:O4'	2.26	0.51
22:JB:987:G:H2'	22:JB:988:G:H8	1.75	0.51
24:JD:251:GLY:HA3	24:JD:255:LYS:HE3	1.93	0.51
26:JF:48:ARG:O	26:JF:83:ALA:HA	2.11	0.51
27:JG:175:LEU:H	27:JG:176:PRO:CD	2.23	0.51
29:JI:17:VAL:O	29:JI:17:VAL:HG13	2.10	0.51
32:JL:76:ARG:HB3	32:JL:90:ARG:NH1	2.25	0.51
33:JM:103:ASN:O	33:JM:105:PRO:HD3	2.11	0.51
34:JN:114:GLN:HA	34:JN:114:GLN:HE21	1.76	0.51
37:JQ:11:GLU:HA	37:JQ:14:ARG:O	2.11	0.51
38:JR:24:PHE:HB3	38:JR:28:ARG:HE	1.75	0.51
39:JS:3:ALA:HB3	39:JS:14:VAL:O	2.11	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:JW:43:PHE:HB2	43:JW:69:VAL:HG21	1.90	0.51
46:JZ:14:GLY:HA2	46:JZ:17:VAL:CG2	2.40	0.51
22:JB:1166:A:H62	46:JZ:7:ARG:NH1	0.92	0.51
1:AA:1067:A:H4'	1:AA:1387:G:C4'	2.41	0.50
1:AA:108:G:O2'	20:AT:12:ALA:HB3	1.95	0.50
1:AA:134:A:H2'	1:AA:135:C:O4'	2.10	0.50
1:AA:1386:G:H2'	1:AA:1387:G:H8	1.75	0.50
1:AA:681:C:H2'	1:AA:682:G:H8	1.76	0.50
4:AD:107:ARG:HH22	4:AD:114:ARG:NH2	2.06	0.50
6:AF:81:ILE:O	24:BD:137:PRO:CA	2.59	0.50
10:AJ:7:LYS:HG2	10:AJ:9:ARG:NH1	2.25	0.50
1:AA:1224:G:HO2'	13:AM:102:ARG:CB	2.24	0.50
16:AP:34:GLU:CG	16:AP:36:ILE:HG12	2.41	0.50
51:B5:8:LYS:O	51:B5:11:LYS:HB2	2.11	0.50
22:BB:1007:A:H5''	38:BR:93:LYS:CG	2.30	0.50
22:BB:1141:U:C3'	31:BK:107:GLN:HE21	2.18	0.50
22:BB:1151:U:H4'	22:BB:1152:C:H5''	1.92	0.50
22:BB:1263:G:H4'	22:BB:1264:C:OP1	2.11	0.50
22:BB:2044:G:H4'	22:BB:2045:A:C6	2.46	0.50
22:BB:425:A:C5	22:BB:2391:A:N3	2.79	0.50
22:BB:2525:U:O2	22:BB:2544:A:H2	1.93	0.50
22:BB:2807:U:H5	22:BB:2859:U:H5''	1.77	0.50
22:BB:541:C:H5'	22:BB:542:A:H5''	1.93	0.50
15:AO:89:GLY:N	22:BB:729:A:P	2.84	0.50
22:BB:720:A:N1	22:BB:738:G:H1'	2.21	0.50
22:BB:83:A:H4'	22:BB:84:G:O4'	2.11	0.50
22:BB:846:A:H62	22:BB:955:G:H1	1.59	0.50
22:BB:990:A:H3'	22:BB:991:A:C5'	2.40	0.50
22:BB:990:A:H3'	22:BB:991:A:H5''	1.92	0.50
24:BD:243:GLY:C	24:BD:245:VAL:H	2.14	0.50
24:BD:251:GLY:HA3	24:BD:255:LYS:HE3	1.93	0.50
26:BF:147:LYS:HB2	26:BF:183:HIS:HA	1.92	0.50
22:BB:2725:C:H1'	28:BH:140:LEU:HA	1.93	0.50
30:BJ:9:LYS:O	30:BJ:10:LEU:HD22	2.11	0.50
31:BK:159:SER:HA	31:BK:162:LYS:HD2	1.93	0.50
32:BL:48:GLY:O	32:BL:121:ARG:HD2	2.11	0.50
33:BM:103:ASN:O	33:BM:105:PRO:HD3	2.11	0.50
22:BB:1668:G:OP2	35:BO:11:ASN:CG	2.49	0.50
39:BS:14:VAL:HG13	39:BS:17:GLY:N	2.26	0.50
46:BZ:45:LYS:HG3	46:BZ:48:LYS:HD2	1.92	0.50
1:CA:1102:A:C2	2:CB:108:ILE:CD1	2.76	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:1308:U:OP1	13:CM:97:PRO:CB	2.45	0.50
1:CA:1344:C:O2'	1:CA:1345:U:H5'	2.12	0.50
1:CA:1456:A:O3'	20:CT:28:ALA:HB2	2.11	0.50
1:CA:276:G:O4'	17:CQ:18:THR:HG23	2.11	0.50
1:CA:519:C:P	12:CL:50:SER:CB	3.00	0.50
1:CA:593:G:H2'	1:CA:594:G:O4'	2.10	0.50
1:CA:735:C:OP1	18:CR:68:LYS:CD	2.59	0.50
1:CA:768:A:O2'	1:CA:1523:G:N2	2.44	0.50
2:CB:180:LEU:O	2:CB:182:ILE:HG13	2.10	0.50
3:CC:28:GLN:CG	3:CC:32:LEU:HD13	2.42	0.50
1:CA:543:C:OP1	4:CD:10:ARG:NE	2.44	0.50
1:CA:439:A:OP1	4:CD:123:HIS:HB3	2.11	0.50
1:CA:559:A:OP1	5:CE:122:GLU:O	2.28	0.50
1:CA:1374:A:P	7:CG:36:LYS:HZ1	2.34	0.50
10:CJ:85:LEU:HD23	10:CJ:88:LEU:HD12	1.92	0.50
13:CM:29:ARG:HH12	13:CM:66:LEU:HD22	1.77	0.50
16:CP:19:ILE:HD11	16:CP:37:GLY:HA3	1.93	0.50
1:CA:378:G:OP1	16:CP:25:ARG:HA	2.11	0.50
1:CA:274:A:H1'	17:CQ:15:MET:HG2	1.93	0.50
18:CR:63:GLN:OE1	18:CR:66:LEU:HD23	2.11	0.50
22:DB:409:G:H5'	47:D1:39:VAL:HG21	1.93	0.50
22:DB:2350:G:C3'	49:D3:46:LYS:HD3	2.41	0.50
53:D7:53:PRO:HA	53:D7:154:SER:HB3	1.92	0.50
53:D7:54:LEU:HD12	53:D7:153:ARG:O	2.11	0.50
22:DB:1073:G:H5'	30:DJ:11:GLN:HE21	1.76	0.50
22:DB:1151:U:H4'	22:DB:1152:C:H5''	1.92	0.50
22:DB:1173:G:O3'	39:DS:23:GLU:HB3	2.11	0.50
22:DB:1339:U:H2'	22:DB:1340:C:O4'	2.10	0.50
22:DB:2006:G:H2'	22:DB:2007:G:C8	2.46	0.50
22:DB:1141:U:H2'	22:DB:2009:U:OP1	2.11	0.50
22:DB:2015:G:H4'	22:DB:2016:A:OP1	2.11	0.50
22:DB:2044:G:H4'	22:DB:2045:A:C6	2.46	0.50
22:DB:922:A:N3	22:DB:2244:C:C4'	2.74	0.50
22:DB:2632:U:C2	28:DH:110:SER:CB	2.94	0.50
22:DB:2683:C:H2'	22:DB:2684:A:H8	1.73	0.50
22:DB:2856:U:C5'	35:DO:93:GLY:O	2.58	0.50
22:DB:541:C:H5'	22:DB:542:A:H5''	1.93	0.50
22:DB:71:A:H4'	45:DY:44:ARG:HD2	1.93	0.50
1:CA:899:C:O2	24:DD:14:ARG:NH1	2.44	0.50
33:DM:103:ASN:O	33:DM:105:PRO:HD3	2.11	0.50
33:DM:109:LEU:HD12	33:DM:128:ALA:HB1	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:DQ:38:LYS:CD	37:DQ:50:PHE:HB2	2.41	0.50
22:DB:1163:C:OP1	38:DR:81:ASN:HB2	2.10	0.50
38:DR:94:VAL:HG21	39:DS:10:LYS:CB	2.36	0.50
40:DT:27:VAL:HG23	40:DT:125:THR:H	1.76	0.50
43:DW:47:SER:C	43:DW:49:THR:H	2.12	0.50
34:DN:38:MET:CG	43:DW:74:ARG:HD3	2.40	0.50
44:DX:32:LYS:HG3	44:DX:33:ALA:H	1.77	0.50
46:DZ:3:ILE:CB	46:DZ:33:GLU:HA	2.38	0.50
46:DZ:45:LYS:HG3	46:DZ:48:LYS:HD2	1.92	0.50
1:EA:1056:U:C5'	3:EC:163:ALA:HB2	2.27	0.50
1:EA:1157:A:H61	1:EA:1178:G:H1'	1.74	0.50
1:EA:1374:A:P	7:EG:31:MET:CE	2.98	0.50
1:EA:407:G:H1'	4:ED:116:GLN:CG	2.40	0.50
1:EA:449:C:H4'	16:EP:42:ARG:O	2.11	0.50
1:EA:593:G:H2'	1:EA:594:G:O4'	2.10	0.50
1:EA:731:G:H5'	1:EA:766:A:H4'	1.93	0.50
1:EA:961:U:H5	1:EA:1222:G:H22	1.59	0.50
2:EB:25:ASN:HB2	2:EB:191:ASP:HA	1.92	0.50
3:EC:157:ILE:HD11	3:EC:164:ARG:HE	1.75	0.50
1:EA:1105:A:H3'	3:EC:172:ARG:HH22	1.76	0.50
3:EC:56:ASP:O	3:EC:66:VAL:HG13	2.11	0.50
4:ED:162:LEU:HB3	4:ED:166:LYS:CG	2.42	0.50
8:EH:33:GLU:O	8:EH:36:LEU:HB2	2.11	0.50
1:EA:967:C:H6	9:EI:128:ARG:HG3	1.74	0.50
1:EA:973:G:O2'	10:EJ:54:PHE:HZ	1.94	0.50
12:EL:30:ALA:C	12:EL:32:PHE:H	2.15	0.50
12:EL:64:TYR:O	12:EL:66:VAL:HG22	2.10	0.50
1:EA:667:G:O4'	15:EO:51:HIS:HB2	2.11	0.50
16:EP:34:GLU:CG	16:EP:36:ILE:HG12	2.41	0.50
17:EQ:26:GLN:CG	17:EQ:37:LYS:HA	2.40	0.50
49:F3:24:THR:CG2	51:F5:35:GLY:CA	2.81	0.50
22:FB:1018:C:H2'	22:FB:1019:U:H5	1.75	0.50
22:FB:1145:C:O2'	22:FB:1146:G:P	2.68	0.50
22:FB:1339:U:H2'	22:FB:1340:C:O4'	2.10	0.50
22:FB:1142:G:C6	22:FB:2008:C:H4'	2.46	0.50
22:FB:2015:G:H4'	22:FB:2016:A:OP1	2.11	0.50
22:FB:836:G:N2	22:FB:2337:A:H8	2.08	0.50
22:FB:2738:A:C2'	28:FH:64:LEU:HD11	2.42	0.50
22:FB:470:U:OP1	50:F4:40:HIS:NE2	2.44	0.50
22:FB:541:C:H5'	22:FB:542:A:H5''	1.93	0.50
22:FB:583:C:H5'	22:FB:585:U:OP2	2.12	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:FB:692:C:H2'	22:FB:693:A:H8	1.76	0.50
22:FB:83:A:H4'	22:FB:84:G:O4'	2.11	0.50
22:FB:987:G:H2'	22:FB:988:G:C8	2.46	0.50
22:FB:990:A:H3'	22:FB:991:A:C5'	2.40	0.50
22:FB:1810:U:C6	24:FD:154:GLN:NE2	2.79	0.50
24:FD:175:VAL:HG12	24:FD:176:ARG:O	2.11	0.50
22:FB:2661:G:N7	25:FE:10:GLY:O	2.44	0.50
25:FE:1:MET:H1	25:FE:200:SER:HB2	1.76	0.50
27:FG:78:LYS:HG3	27:FG:80:ARG:NH1	2.21	0.50
28:FH:124:ALA:O	28:FH:125:VAL:HB	2.10	0.50
31:FK:149:LYS:HZ2	31:FK:149:LYS:HA	1.77	0.50
31:FK:41:TRP:CE2	31:FK:79:PHE:HB2	2.46	0.50
32:FL:47:VAL:HG23	32:FL:76:ARG:HD3	1.92	0.50
33:FM:68:VAL:O	33:FM:70:THR:HG22	2.11	0.50
38:FR:24:PHE:HB3	38:FR:28:ARG:HE	1.75	0.50
22:FB:1265:G:O4'	38:FR:32:TYR:CE1	2.62	0.50
38:FR:44:THR:N	39:FS:75:LYS:HB2	2.26	0.50
46:FZ:4:LYS:O	46:FZ:5:LEU:HD12	2.11	0.50
1:GA:1116:C:C2'	1:GA:1117:G:H5''	2.42	0.50
1:GA:1374:A:O4'	7:GG:28:ASN:O	2.28	0.50
1:GA:1386:G:H2'	1:GA:1387:G:H8	1.75	0.50
1:GA:1393:U:H3'	1:GA:1394:A:P	2.52	0.50
1:GA:335:C:H1'	1:GA:1434:A:C2	2.45	0.50
1:GA:439:A:C5'	4:GD:122:ARG:NH2	2.71	0.50
1:GA:549:C:H2'	1:GA:550:G:C8	2.47	0.50
7:GG:139:GLU:HA	7:GG:142:GLU:CD	2.31	0.50
7:GG:145:ALA:CA	7:GG:148:ASN:HB2	2.40	0.50
1:GA:778:G:O2'	11:GK:120:ARG:O	2.28	0.50
16:GP:81:ARG:HE	16:GP:81:ARG:HA	1.75	0.50
17:GQ:26:GLN:CG	17:GQ:37:LYS:HA	2.40	0.50
19:GS:47:HIS:O	19:GS:49:ILE:HG13	2.11	0.50
22:HB:2402:U:C4	49:H3:3:LYS:HG2	2.42	0.50
22:HB:419:G:H3'	53:H7:197:GLU:OE2	2.11	0.50
22:HB:561:U:H4'	22:HB:1233:A:H61	1.75	0.50
22:HB:1463:A:H2'	22:HB:1464:A:C8	2.46	0.50
22:HB:147:G:N3	22:HB:147:G:C2'	2.71	0.50
22:HB:1681:A:C6	22:HB:2706:U:C5	2.98	0.50
22:HB:1809:G:H4'	24:HD:157:ARG:HH12	1.76	0.50
22:HB:2653:A:O3'	32:HL:43:ARG:CZ	2.59	0.50
22:HB:1750:A:H5''	22:HB:2695:C:H4'	1.93	0.50
22:HB:575:U:O4	39:HS:79:GLN:CD	2.50	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:HB:93:A:H2'	22:HB:94:C:O4'	2.11	0.50
24:HD:119:ALA:HA	24:HD:129:ASN:H	1.74	0.50
24:HD:183:ARG:HB3	24:HD:270:ILE:HG22	1.92	0.50
30:HJ:9:LYS:O	30:HJ:10:LEU:HD22	2.11	0.50
31:HK:93:LYS:HD2	31:HK:93:LYS:H	1.76	0.50
32:HL:91:PHE:CG	37:HQ:79:ARG:HG3	2.45	0.50
35:HO:40:LYS:NZ	35:HO:44:LEU:HD13	2.27	0.50
37:HQ:11:GLU:HA	37:HQ:14:ARG:O	2.11	0.50
37:HQ:53:VAL:HB	37:HQ:69:ARG:NH2	2.26	0.50
39:HS:6:GLN:HG2	39:HS:7:THR:HG23	1.92	0.50
40:HT:73:ASN:HA	40:HT:76:LYS:HD3	1.93	0.50
41:HU:42:ILE:HB	41:HU:50:VAL:HG21	1.92	0.50
43:HW:95:SER:N	43:HW:130:ILE:HD13	2.24	0.50
45:HY:55:THR:O	45:HY:56:VAL:C	2.50	0.50
1:IA:1057:G:C1'	3:IC:196:LEU:HA	2.41	0.50
1:IA:1228:C:C5	13:IM:104:ARG:HG2	2.46	0.50
1:IA:39:G:H1'	1:IA:498:U:O2	2.11	0.50
1:IA:716:A:O2'	11:IK:117:ASN:HB3	2.11	0.50
1:IA:967:C:H2'	1:IA:968:A:C5	2.46	0.50
3:IC:113:ALA:N	3:IC:114:PRO:CD	2.74	0.50
4:ID:162:LEU:HB3	4:ID:166:LYS:CG	2.41	0.50
6:IF:10:LEU:O	6:IF:12:PRO:HD3	2.11	0.50
1:IA:1117:G:H4'	9:II:104:ARG:HH22	1.72	0.50
1:IA:129(A):G:P	17:IQ:63:ARG:HG3	2.51	0.50
20:IT:15:ARG:HG2	20:IT:18:GLN:OE1	2.11	0.50
20:IT:19:SER:HA	20:IT:22:ARG:HB2	1.92	0.50
50:J4:20:ALA:HA	50:J4:23:LYS:HE3	1.91	0.50
22:JB:219:G:C5	51:J5:3:LYS:C	2.35	0.50
53:J7:130:PRO:HA	53:J7:160:LYS:HE3	1.92	0.50
22:JB:1023:U:O4	31:JK:53:ARG:HG3	2.09	0.50
22:JB:1265:G:H5'	38:JR:10:ARG:O	2.12	0.50
22:JB:705:C:H1'	22:JB:1367:A:O4'	2.10	0.50
22:JB:1463:A:H2'	22:JB:1464:A:C8	2.46	0.50
22:JB:1581:C:C5	24:JD:28:ARG:NH1	2.78	0.50
22:JB:1809:G:H5''	24:JD:156:ALA:HB3	1.91	0.50
22:JB:2006:G:H2'	22:JB:2007:G:C8	2.47	0.50
22:JB:2325:A:H1'	22:JB:2362:G:C8	2.46	0.50
22:JB:2542:U:H5''	32:JL:40:GLY:HA3	1.88	0.50
22:JB:2570:C:H2'	22:JB:2571:G:C8	2.45	0.50
22:JB:2635:U:H2'	22:JB:2636:A:C8	2.45	0.50
22:JB:529:U:C4'	40:JT:39:ARG:HH21	2.22	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:JB:18:U:O2	22:JB:563:U:H5'	2.11	0.50
22:JB:573:C:H4'	38:JR:40:LEU:CG	2.33	0.50
22:JB:585:U:H2'	22:JB:586:G:C8	2.46	0.50
25:JE:92:ASN:OD1	25:JE:182:ILE:HG12	2.11	0.50
27:JG:150:ARG:H	27:JG:150:ARG:HD2	1.76	0.50
28:JH:144:VAL:O	28:JH:147:ASN:HB2	2.10	0.50
31:JK:42:VAL:HG22	31:JK:166:LEU:HD23	1.92	0.50
32:JL:47:VAL:HG13	32:JL:121:ARG:HG3	1.92	0.50
33:JM:73:GLU:OE2	33:JM:105:PRO:HB2	2.11	0.50
22:JB:846:A:C5'	33:JM:52:GLY:C	2.78	0.50
22:JB:2679:G:H22	35:JO:68:GLN:HG2	1.75	0.50
36:JP:97:HIS:NE2	36:JP:99:ARG:HB2	2.26	0.50
37:JQ:11:GLU:HG3	37:JQ:12:LEU:HD12	1.94	0.50
37:JQ:53:VAL:HB	37:JQ:69:ARG:NH2	2.26	0.50
22:JB:2344:G:O4'	44:JX:66:LYS:CD	2.59	0.50
22:JB:59:G:H5'	45:JY:44:ARG:HH11	1.76	0.50
22:JB:74:G:H2'	45:JY:55:THR:HG21	0.61	0.50
46:JZ:4:LYS:O	46:JZ:5:LEU:HD12	2.11	0.50
1:AA:1251:A:C2	1:AA:1252:A:H1'	2.47	0.50
1:AA:1299:A:C8	1:AA:1301:U:H1'	2.46	0.50
1:AA:1447:A:N3	1:AA:1447:A:H2'	2.26	0.50
1:AA:318:G:H2'	1:AA:319:G:H8	1.76	0.50
1:AA:61:G:H2'	1:AA:62:U:O4'	2.10	0.50
1:AA:876:G:C2'	8:AH:4:ASP:CB	2.89	0.50
1:AA:965:A:H2'	1:AA:965:A:N3	2.26	0.50
3:AC:71:ALA:HB2	3:AC:115:LEU:HD11	1.93	0.50
4:AD:162:LEU:HB3	4:AD:166:LYS:CG	2.41	0.50
4:AD:50:ARG:NH1	5:AE:10:MET:SD	2.85	0.50
1:AA:922:G:C2	5:AE:19:MET:HE3	2.46	0.50
1:AA:922:G:N2	5:AE:19:MET:HE3	2.25	0.50
8:AH:33:GLU:O	8:AH:36:LEU:HB2	2.11	0.50
13:AM:99:ARG:NH2	19:AS:2:PRO:HB3	2.25	0.50
10:AJ:64:GLU:CD	14:AN:57:ARG:C	2.70	0.50
1:AA:624:C:C5'	16:AP:10:GLY:C	2.80	0.50
16:AP:19:ILE:HD11	16:AP:37:GLY:HA3	1.93	0.50
1:AA:277:C:OP1	17:AQ:41:LYS:HB3	2.11	0.50
18:AR:63:GLN:OE1	18:AR:66:LEU:HD23	2.11	0.50
53:B7:130:PRO:HA	53:B7:160:LYS:HE3	1.92	0.50
22:BB:1176:U:H1'	22:BB:1198:C:O2'	2.11	0.50
22:BB:2049:C:H2'	22:BB:2050:G:H5'	1.93	0.50
22:BB:2311:U:C4'	22:BB:2315:A:H62	2.20	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:BB:2411:A:C2	47:B1:22:MET:HE1	2.46	0.50
22:BB:2465:G:O5'	34:BN:123:GLY:CA	2.58	0.50
22:BB:2645:C:N4	28:BH:109:TYR:CB	2.66	0.50
22:BB:1855:G:H1	22:BB:3877:A:H61	1.58	0.50
22:BB:987:G:H2'	22:BB:988:G:H8	1.75	0.50
24:BD:183:ARG:HB3	24:BD:270:ILE:HG22	1.92	0.50
28:BH:129:THR:HB	28:BH:130:ARG:NH1	2.26	0.50
28:BH:123:PHE:HA	28:BH:133:VAL:HG13	1.94	0.50
30:BJ:71:THR:HG21	30:BJ:113:PRO:HB2	1.92	0.50
33:BM:100:ARG:HE	33:BM:101:ARG:NH1	2.10	0.50
35:BO:28:LEU:HA	35:BO:32:GLY:N	2.27	0.50
37:BQ:58:ASN:HD21	37:BQ:104:LEU:HA	1.77	0.50
22:BB:760:U:H5'	40:BT:111:ARG:HB2	1.93	0.50
43:BW:124:ALA:HB2	43:BW:160:LEU:H	1.75	0.50
22:BB:886:A:C1'	43:BW:167:THR:CG2	2.89	0.50
34:BN:99:LYS:CG	43:BW:73:LYS:NZ	2.74	0.50
1:CA:1077:G:H22	5:CE:45:PHE:HZ	1.56	0.50
1:CA:1137:C:O2'	1:CA:1138:G:H5''	2.11	0.50
1:CA:1148:U:H2'	1:CA:1149:C:C6	2.46	0.50
1:CA:1386:G:H2'	1:CA:1387:G:H8	1.75	0.50
1:CA:815:A:C2	1:CA:1529:G:C4	2.93	0.50
4:CD:101:LEU:O	4:CD:105:VAL:HG23	2.11	0.50
4:CD:15:GLU:HG3	4:CD:63:LYS:HG3	1.92	0.50
4:CD:83:SER:HA	4:CD:89:THR:CG2	2.37	0.50
9:CI:11:LYS:HA	9:CI:104:ARG:NH2	2.25	0.50
11:CK:123:LYS:HG2	11:CK:124:LYS:N	2.27	0.50
11:CK:67:ASP:HA	11:CK:70:LYS:HE3	1.93	0.50
12:CL:90:VAL:CG1	12:CL:92:ASP:H	2.25	0.50
14:CN:29:ARG:O	14:CN:33:VAL:HG13	2.12	0.50
15:CO:62:GLN:HA	15:CO:65:ARG:HB2	1.94	0.50
18:CR:26:LEU:HB3	18:CR:28:GLU:OE2	2.11	0.50
6:CF:49:ALA:CB	18:CR:79:LEU:C	2.78	0.50
23:DA:77:G:C1'	43:DW:29:ASN:OD1	2.59	0.50
22:DB:1166:A:C5	22:DB:1168:G:C5	2.99	0.50
22:DB:1250:A:H2'	22:DB:1250:A:N3	2.26	0.50
22:DB:1367:A:H2'	22:DB:1368:G:O4'	2.11	0.50
22:DB:1354:A:H3'	22:DB:1410:U:H3	1.76	0.50
22:DB:1428:G:H4'	22:DB:1429:A:H4'	1.92	0.50
22:DB:2049:C:H2'	22:DB:2050:G:H5'	1.93	0.50
22:DB:1139:A:N6	22:DB:2469:G:C5'	2.75	0.50
22:DB:2727:G:O2'	22:DB:2728:A:H5''	2.11	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:DB:627:A:H5''	26:DF:100:ARG:CZ	2.41	0.50
22:DB:661:C:H2'	22:DB:662:G:C8	2.46	0.50
22:DB:987:G:H2'	22:DB:988:G:H8	1.75	0.50
24:DD:63:ARG:HH22	24:DD:157:ARG:HH11	1.59	0.50
24:DD:262:LYS:O	24:DD:263:ARG:HB3	2.11	0.50
22:DB:1672:A:O2'	25:DE:114:GLN:HB3	2.11	0.50
22:DB:2035:G:C6	25:DE:150:VAL:CG2	2.94	0.50
22:DB:2753:C:C4'	25:DE:164:ARG:N	2.22	0.50
30:DJ:9:LYS:O	30:DJ:10:LEU:HD22	2.11	0.50
30:DJ:23:VAL:HB	30:DJ:27:LEU:HD12	1.92	0.50
31:DK:41:TRP:CE2	31:DK:79:PHE:HB2	2.46	0.50
32:DL:47:VAL:HG13	32:DL:121:ARG:HG3	1.92	0.50
33:DM:100:ARG:HE	33:DM:101:ARG:NH1	2.10	0.50
22:DB:675:C:OP1	33:DM:26:THR:HG21	2.11	0.50
34:DN:60:ARG:HB3	34:DN:62:GLY:O	2.11	0.50
22:DB:1468:A:C6	35:DO:63:ARG:NH2	2.78	0.50
39:DS:3:ALA:HB3	39:DS:14:VAL:O	2.11	0.50
22:DB:935:C:O4'	44:DX:26:PHE:CE2	2.64	0.50
1:EA:1178:G:H2'	1:EA:1180:A:OP2	2.11	0.50
1:EA:531:U:C2	1:EA:1208:C:H4'	2.44	0.50
1:EA:1273:G:N3	1:IA:1264:C:C3'	2.69	0.50
1:EA:1327:C:C2'	1:EA:1328:C:H5'	2.40	0.50
1:EA:518:C:C1'	12:EL:51:ALA:CB	2.88	0.50
1:EA:710:G:H2'	1:EA:711:G:O4'	2.11	0.50
1:EA:697:U:H1'	1:EA:785:G:O2'	2.10	0.50
2:EB:210:SER:O	2:EB:214:ILE:HG12	2.11	0.50
1:EA:403:C:O2'	4:ED:122:ARG:HG3	2.12	0.50
1:EA:1194:U:H5'	5:EE:22:GLY:CA	2.41	0.50
8:EH:33:GLU:HB2	8:EH:59:LEU:HD11	1.94	0.50
1:EA:1180:A:C5'	9:EI:103:THR:HG22	2.41	0.50
11:EK:12:ARG:CZ	11:EK:34:ASP:HB3	2.42	0.50
13:EM:12:ASN:HA	13:EM:46:LYS:NZ	2.27	0.50
22:FB:1003:C:C2	22:FB:1174:G:N2	2.80	0.50
22:FB:123:A:H5''	50:F4:14:LYS:HZ2	1.76	0.50
22:FB:2451:G:N2	22:FB:2508:G:C6	2.79	0.50
22:FB:2490:U:C5'	25:FE:122:PHE:CZ	2.91	0.50
22:FB:1949:A:C2	22:FB:2571:G:C2'	2.94	0.50
22:FB:2634:G:H2'	22:FB:2634:G:N3	2.26	0.50
22:FB:3148:G:N3	22:FB:3148:G:H3'	2.27	0.50
22:FB:340:G:O6	42:FV:28:LYS:CA	2.45	0.50
22:FB:575:U:O4	39:FS:80:TYR:C	2.49	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:FB:597:U:OP1	33:FM:28:LYS:HA	2.11	0.50
22:FB:846:A:H62	22:FB:955:G:H1	1.58	0.50
22:FB:891:A:O3'	22:FB:893:G:P	2.70	0.50
24:FD:63:ARG:HH22	24:FD:157:ARG:HH11	1.59	0.50
24:FD:146:GLU:OE1	24:FD:189:CYS:HB3	2.12	0.50
22:FB:2554:C:H1'	25:FE:142:GLY:O	2.10	0.50
27:FG:150:ARG:HD2	27:FG:150:ARG:H	1.76	0.50
23:FA:57:U:C4'	27:FG:26:MET:CE	2.89	0.50
28:FH:148:VAL:HB	28:FH:152:ARG:NE	2.25	0.50
29:FI:17:VAL:O	29:FI:17:VAL:HG13	2.10	0.50
30:FJ:41:PHE:O	30:FJ:42:ASN:HB2	2.12	0.50
32:FL:48:GLY:O	32:FL:121:ARG:HD2	2.11	0.50
34:FN:114:GLN:HE21	34:FN:114:GLN:HA	1.76	0.50
38:FR:21:ALA:HB1	38:FR:29:SER:HA	1.93	0.50
39:FS:14:VAL:HG13	39:FS:17:GLY:N	2.26	0.50
22:FB:1615:C:OP1	41:FU:35:LYS:CE	2.59	0.50
43:FW:65:LEU:CD2	43:FW:93:GLU:O	2.53	0.50
1:GA:1137:C:O2'	1:GA:1138:G:H5''	2.10	0.50
1:GA:961:U:H5	1:GA:1222:G:H22	1.58	0.50
1:GA:284:G:H2'	1:GA:285:G:C8	2.46	0.50
1:GA:434:U:H2'	1:GA:435:C:C6	2.46	0.50
1:GA:719:C:H3'	1:GA:720:C:C6	2.46	0.50
2:GB:23:ARG:HD3	2:GB:24:TRP:N	2.26	0.50
4:GD:101:LEU:O	4:GD:105:VAL:HG23	2.11	0.50
5:GE:81:GLU:CD	5:GE:91:LEU:H	2.15	0.50
6:GF:67:MET:SD	6:GF:72:VAL:HG22	2.51	0.50
1:GA:1374:A:H1'	7:GG:28:ASN:O	2.09	0.50
10:GJ:47:PHE:HE2	14:GN:37:PHE:CE2	2.28	0.50
1:GA:675:A:N1	11:GK:118:GLY:HA3	2.26	0.50
11:GK:123:LYS:HG2	11:GK:124:LYS:N	2.27	0.50
17:GQ:11:VAL:HA	17:GQ:85:VAL:HG13	1.94	0.50
22:HB:124:A:N6	50:H4:45:SER:CB	2.42	0.50
22:HB:3121:G:C3'	53:H7:160:LYS:HZ1	2.19	0.50
22:HB:1314:A:H2'	22:HB:1316:G:OP2	2.11	0.50
22:HB:1420:A:H2'	22:HB:1421:U:H5	1.77	0.50
22:HB:1544:A:H2'	22:HB:1545:G:H4'	1.93	0.50
22:HB:1566:G:H2'	22:HB:1567:A:H8	1.75	0.50
22:HB:1998:A:N3	48:H2:6:VAL:CG1	2.60	0.50
22:HB:2240:C:OP2	44:HX:14:ARG:CD	2.59	0.50
22:HB:2284:U:H3'	22:HB:2286:G:H8	1.75	0.50
22:HB:2523:G:N3	22:HB:2625:U:H4'	2.26	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:HB:2685:A:O2'	35:HO:64:ARG:HD2	2.10	0.50
22:HB:2791:C:H2'	22:HB:2792:C:H6	1.76	0.50
22:HB:3171:A:H4'	22:HB:3172:U:C5'	2.41	0.50
22:HB:44:G:H5''	22:HB:45:C:OP1	2.11	0.50
22:HB:990:A:H3'	22:HB:991:A:H5''	1.92	0.50
26:HF:147:LYS:HB2	26:HF:183:HIS:HA	1.92	0.50
26:HF:149:LEU:HD13	26:HF:186:LEU:HA	1.93	0.50
28:HH:103:LEU:HD23	28:HH:105:MET:SD	2.51	0.50
22:HB:1041:G:C5'	34:HN:119:PHE:CE2	2.73	0.50
35:HO:12:ARG:HD3	35:HO:13:ASN:H	1.76	0.50
37:HQ:58:ASN:HD21	37:HQ:104:LEU:HA	1.76	0.50
25:HE:52:ALA:CB	37:HQ:5:ILE:HD11	2.41	0.50
40:HT:55:ASP:H	40:HT:58:ARG:HB3	1.75	0.50
42:HV:99:VAL:HG12	42:HV:100:ASP:H	1.75	0.50
34:HN:64:LYS:HG3	43:HW:173:PRO:OXT	2.11	0.50
22:HB:2343:C:H2'	44:HX:66:LYS:HD2	1.91	0.50
22:HB:109:A:O2'	45:HY:58:ALA:O	2.29	0.50
1:IA:115:G:H4'	1:IA:116:A:O5'	2.11	0.50
1:IA:29:G:C4'	1:IA:295:C:H4'	2.33	0.50
1:IA:318:G:H2'	1:IA:319:G:H8	1.76	0.50
1:IA:845:A:O3'	18:IR:23:LYS:NZ	2.35	0.50
1:IA:995:C:O2	14:IN:4:LYS:HB2	2.10	0.50
1:IA:1102:A:H2	2:IB:108:ILE:HD11	1.76	0.50
2:IB:204:ASN:ND2	2:IB:205:ASP:H	2.08	0.50
3:IC:11:ARG:HB3	3:IC:15:THR:O	2.10	0.50
4:ID:14:ARG:HG2	4:ID:66:ARG:HH12	1.76	0.50
5:IE:11:ILE:HG22	5:IE:12:LEU:HD12	1.93	0.50
7:IG:139:GLU:HA	7:IG:142:GLU:CD	2.31	0.50
1:IA:642:A:P	8:IH:117:GLY:HA2	2.51	0.50
10:IJ:85:LEU:HD23	10:IJ:88:LEU:HD12	1.92	0.50
11:IK:105:VAL:HG12	11:IK:106:LYS:H	1.76	0.50
11:IK:12:ARG:CZ	11:IK:34:ASP:HB3	2.41	0.50
12:IL:5:PRO:HA	12:IL:10:LEU:CA	2.41	0.50
16:IP:34:GLU:CG	16:IP:36:ILE:HG12	2.41	0.50
1:IA:635:G:HO2'	17:IQ:4:LYS:HD2	1.76	0.50
22:JB:2721:A:H5''	52:J6:36:GLN:C	2.31	0.50
22:JB:1038:U:H3	22:JB:1137:A:H5'	1.75	0.50
22:JB:1039:A:H2	22:JB:2466:G:O4'	1.94	0.50
22:JB:1090:C:O2'	30:JJ:132:ARG:NH2	2.45	0.50
22:JB:1260:A:O3'	38:JR:2:PRO:CB	2.59	0.50
22:JB:1544:A:H2'	22:JB:1545:G:H4'	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:JB:1654:A:O3'	22:JB:2689:C:H1'	2.10	0.50
22:JB:2287:G:H5'	22:JB:2288:A:OP1	2.11	0.50
22:JB:2490:U:C5'	25:JE:124:GLY:C	2.79	0.50
22:JB:1949:A:C2	22:JB:2571:G:C2'	2.94	0.50
22:JB:10:A:N6	22:JB:2608:A:O4'	2.44	0.50
22:JB:2756:A:H2'	22:JB:2762:G:C8	2.46	0.50
22:JB:2791:C:H2'	22:JB:2792:C:H6	1.76	0.50
22:JB:44:G:H5''	22:JB:45:C:OP1	2.11	0.50
22:JB:583:C:H5'	22:JB:585:U:OP2	2.12	0.50
22:JB:793:G:H3'	24:JD:53:PHE:CZ	2.46	0.50
22:JB:891:A:OP1	22:JB:892:A:OP1	2.27	0.50
24:JD:63:ARG:HH22	24:JD:157:ARG:HH11	1.59	0.50
25:JE:119:ARG:HG2	25:JE:155:ARG:CB	2.38	0.50
25:JE:24:THR:HG22	25:JE:25:VAL:N	2.26	0.50
27:JG:128:TYR:HD2	27:JG:167:ARG:HH11	1.58	0.50
33:JM:109:LEU:HD12	33:JM:128:ALA:HB1	1.93	0.50
34:JN:107:VAL:HG12	43:JW:113:VAL:CG1	2.25	0.50
22:JB:2669:C:C4	35:JO:17:ARG:HB2	2.45	0.50
37:JQ:71:ILE:HG22	37:JQ:72:SER:O	2.11	0.50
38:JR:88:ILE:O	39:JS:51:ALA:CB	2.59	0.50
39:JS:66:GLY:HA2	39:JS:93:ILE:HG12	1.91	0.50
22:JB:95:G:H1'	45:JY:45:GLN:NE2	2.26	0.50
1:AA:17:U:HO2'	1:AA:1079:G:H1'	1.66	0.50
1:AA:1320:C:C1'	19:AS:73:GLU:HB3	2.42	0.50
1:AA:1320:C:H1'	19:AS:73:GLU:HA	1.88	0.50
1:AA:1350:A:N6	9:AI:118:LYS:CE	2.73	0.50
1:AA:1392:G:C4'	1:AA:1531:A:C4'	2.90	0.50
1:AA:1405:G:H21	1:AA:1517:G:N2	2.09	0.50
1:AA:815:A:C4	1:AA:1529:G:C5	2.99	0.50
1:AA:593:G:H2'	1:AA:594:G:O4'	2.10	0.50
1:AA:710:G:H2'	1:AA:711:G:O4'	2.11	0.50
1:AA:731:G:H5'	1:AA:766:A:H4'	1.93	0.50
1:AA:989:C:O2'	1:AA:990:C:H5'	2.12	0.50
2:AB:147:LYS:H	2:AB:147:LYS:HD2	1.77	0.50
3:AC:12:LEU:CA	3:AC:16:ARG:HB3	2.40	0.50
3:AC:28:GLN:CG	3:AC:32:LEU:HD13	2.42	0.50
3:AC:60:ALA:N	10:AJ:92:THR:HG23	2.26	0.50
5:AE:11:ILE:HG22	5:AE:12:LEU:HD12	1.93	0.50
2:AB:200:ILE:HD11	8:AH:74:PRO:HG2	1.93	0.50
8:AH:97:VAL:HG13	8:AH:98:LYS:N	2.26	0.50
3:AC:23:TYR:HD2	10:AJ:94:VAL:HA	1.70	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:AL:100:ILE:HG22	12:AL:101:VAL:N	2.26	0.50
1:AA:35:G:N2	12:AL:118:SER:CB	2.60	0.50
12:AL:30:ALA:C	12:AL:32:PHE:H	2.14	0.50
1:AA:668:G:N3	15:AO:45:VAL:HG11	2.25	0.50
15:AO:82:ILE:C	15:AO:84:LYS:H	2.13	0.50
16:AP:60:LEU:HD23	16:AP:65:GLN:NE2	2.20	0.50
22:BB:1067:G:N2	22:BB:1114:A:H61	2.10	0.50
22:BB:1141:U:H2'	22:BB:2009:U:OP1	2.11	0.50
22:BB:168:A:H61	22:BB:180:C:H2'	1.75	0.50
22:BB:2492:G:H2'	22:BB:2493:U:C2	2.47	0.50
22:BB:2522:G:O2'	22:BB:2624:G:C5	2.60	0.50
22:BB:2634:G:H2'	22:BB:2634:G:N3	2.26	0.50
22:BB:2791:C:H2'	22:BB:2792:C:H6	1.76	0.50
22:BB:543:G:N3	22:BB:570:G:N2	2.56	0.50
22:BB:863:C:H2'	22:BB:864:C:O4'	2.12	0.50
22:BB:90:G:H3'	22:BB:91:A:C5'	2.40	0.50
22:BB:93:A:H2'	22:BB:94:C:O4'	2.12	0.50
24:BD:63:ARG:HH22	24:BD:157:ARG:HH11	1.60	0.50
24:BD:262:LYS:O	24:BD:263:ARG:HB3	2.11	0.50
22:BB:2615:U:OP1	25:BE:79:ARG:N	2.44	0.50
29:BI:17:VAL:O	29:BI:17:VAL:HG22	2.10	0.50
34:BN:54:VAL:HG23	34:BN:55:MET:SD	2.51	0.50
37:BQ:46:ARG:HG3	37:BQ:47:SER:H	1.76	0.50
38:BR:111:ASP:HA	38:BR:114:ARG:HB2	1.91	0.50
22:BB:506:G:C4'	40:BT:82:ASN:C	2.67	0.50
41:BU:23:GLY:O	41:BU:82:LEU:HD13	2.12	0.50
43:BW:68:ALA:HA	43:BW:95:SER:CB	2.41	0.50
34:BN:99:LYS:CB	43:BW:74:ARG:CG	2.71	0.50
23:BA:106:U:C4'	43:BW:88:TYR:CB	2.84	0.50
1:CA:1187:G:C4	14:CN:61:TRP:C	2.85	0.50
1:CA:1251:A:C2	1:CA:1252:A:H1'	2.47	0.50
1:CA:1405:G:H21	1:CA:1517:G:N2	2.09	0.50
1:CA:1447:A:H2'	1:CA:1447:A:N3	2.27	0.50
1:CA:1527:C:H2'	1:CA:1528:U:C6	2.46	0.50
1:CA:549:C:H2'	1:CA:550:G:C8	2.47	0.50
1:CA:559:A:H2	5:CE:124:GLY:C	2.13	0.50
1:CA:585:G:H1'	1:CA:879:C:H5'	1.93	0.50
1:CA:710:G:H2'	1:CA:711:G:O4'	2.11	0.50
1:CA:989:C:O2'	1:CA:990:C:H5'	2.12	0.50
3:CC:12:LEU:CA	3:CC:16:ARG:HB3	2.40	0.50
4:CD:162:LEU:HB3	4:CD:166:LYS:CG	2.41	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:CD:28:SER:N	4:CD:29:PRO:HD3	2.27	0.50
9:CI:11:LYS:H	9:CI:104:ARG:NE	2.10	0.50
12:CL:30:ALA:C	12:CL:32:PHE:H	2.15	0.50
13:CM:81:LEU:HA	13:CM:84:ILE:HG12	1.94	0.50
1:CA:1359:C:P	14:CN:22:THR:HG1	2.33	0.50
17:CQ:26:GLN:CG	17:CQ:37:LYS:HA	2.40	0.50
17:CQ:43:LEU:HB3	17:CQ:69:LYS:HZ3	1.76	0.50
1:CA:1221:G:C2'	19:CS:77:THR:HG21	2.41	0.50
1:CA:1221:G:C4'	19:CS:77:THR:OG1	2.58	0.50
1:CA:349:A:C2'	20:CT:8:ARG:NE	2.70	0.50
48:D2:45:ILE:HD11	48:D2:52:TYR:CD2	2.45	0.50
53:D7:52:VAL:HG21	53:D7:190:ILE:HD11	1.93	0.50
22:DB:1117:G:H2'	22:DB:1118:G:O4'	2.11	0.50
22:DB:1263:G:H4'	22:DB:1264:C:OP1	2.11	0.50
22:DB:1861:G:OP2	22:DB:1862:C:OP2	2.29	0.50
22:DB:1912:G:H2'	22:DB:1912:G:N3	2.27	0.50
22:DB:218:A:H5''	51:D5:63:PRO:HB2	1.92	0.50
22:DB:391:C:H2'	22:DB:392:G:H8	1.76	0.50
22:DB:394:U:O2'	22:DB:395:G:H5'	2.11	0.50
22:DB:83:A:H4'	22:DB:84:G:O4'	2.11	0.50
22:DB:90:G:H3'	22:DB:91:A:C5'	2.40	0.50
22:DB:917:U:O2'	43:DW:121:GLN:N	2.43	0.50
24:DD:146:GLU:OE1	24:DD:189:CYS:HB3	2.11	0.50
22:DB:2614:A:H5''	25:DE:77:ILE:N	2.20	0.50
26:DF:48:ARG:O	26:DF:83:ALA:HA	2.12	0.50
31:DK:139:ARG:HH22	31:DK:142:ARG:NH1	2.06	0.50
34:DN:55:MET:HG3	34:DN:114:GLN:O	2.10	0.50
37:DQ:80:VAL:HG23	37:DQ:111:ARG:NH2	2.26	0.50
38:DR:101:ARG:NH2	38:DR:102:GLU:HB2	2.25	0.50
22:DB:318:G:H4'	40:DT:12:LYS:NZ	2.24	0.50
43:DW:20:ALA:HB3	43:DW:80:HIS:HB2	1.94	0.50
44:DX:32:LYS:HA	44:DX:66:LYS:NZ	2.25	0.50
41:DU:4:TYR:HD1	45:DY:23:LYS:O	1.94	0.50
1:EA:1225:A:H5'	13:EM:102:ARG:CA	2.42	0.50
1:EA:1281:U:HO2'	1:EA:1282:C:P	2.34	0.50
1:EA:1067:A:H4'	1:EA:1387:G:C4'	2.41	0.50
1:EA:538:G:P	12:EL:113:ARG:NH1	2.81	0.50
1:EA:586:C:H2'	1:EA:587:G:H8	1.75	0.50
1:EA:865:A:OP1	1:EA:1078:U:C5	2.54	0.50
1:EA:989:C:O2'	1:EA:990:C:H5'	2.12	0.50
6:EF:50:TYR:HE1	18:ER:79:LEU:O	1.94	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:EG:139:GLU:HA	7:EG:142:GLU:CD	2.31	0.50
13:EM:91:ARG:HB2	13:EM:98:VAL:HG13	1.93	0.50
1:EA:668:G:C1'	15:EO:46:HIS:CG	2.78	0.50
51:F5:13:ARG:HH11	51:F5:23:MET:C	2.13	0.50
53:F7:85:ILE:HG13	53:F7:90:LEU:HD13	1.93	0.50
22:FB:124:A:H62	50:F4:18:PHE:HA	1.77	0.50
22:FB:824:U:H4'	22:FB:1264:C:N1	2.27	0.50
22:FB:1841:G:H2'	22:FB:1842:G:C8	2.44	0.50
22:FB:1935:A:OP1	32:FL:56:LYS:HA	2.11	0.50
22:FB:2324:G:H4'	49:F3:40:TYR:CD1	2.43	0.50
22:FB:2398:U:H2'	22:FB:2399:C:H6	1.76	0.50
22:FB:2727:G:N1	22:FB:2735:C:H5''	2.27	0.50
22:FB:332:C:H5''	26:FF:130:THR:HG21	1.87	0.50
22:FB:391:C:H2'	22:FB:392:G:H8	1.76	0.50
22:FB:394:U:O2'	22:FB:395:G:H5'	2.11	0.50
22:FB:874:A:O2'	23:FA:81:C:C4'	2.57	0.50
22:FB:880:C:H2'	22:FB:881:U:H5'	1.94	0.50
22:FB:93:A:H2'	22:FB:94:C:O4'	2.12	0.50
22:FB:94:C:C4'	45:FY:36:GLN:CG	2.69	0.50
22:FB:990:A:H3'	22:FB:991:A:H5''	1.92	0.50
24:FD:262:LYS:O	24:FD:263:ARG:HB3	2.11	0.50
22:FB:1803:G:H21	24:FD:47:GLY:HA3	1.77	0.50
25:FE:55:ALA:HA	25:FE:58:LYS:HB2	1.93	0.50
26:FF:177:VAL:HG13	26:FF:180:ILE:HD11	1.93	0.50
22:FB:599:A:O3'	26:FF:92:ASP:OD1	2.29	0.50
22:FB:566:U:C3'	31:FK:74:MET:HA	2.15	0.50
32:FL:47:VAL:HG13	32:FL:121:ARG:HG3	1.92	0.50
39:FS:66:GLY:HA2	39:FS:93:ILE:HA	1.93	0.50
41:FU:17:TYR:CE1	41:FU:21:GLU:HG2	2.45	0.50
1:GA:1184:G:H2'	1:GA:1185:G:C8	2.47	0.50
1:GA:1245:A:H2'	1:GA:1246:C:C6	2.46	0.50
1:GA:273:A:C2'	17:GQ:15:MET:CG	2.80	0.50
1:GA:676:A:H1'	11:GK:118:GLY:C	2.31	0.50
1:GA:1109:C:OP2	3:GC:176:HIS:CG	2.65	0.50
4:GD:14:ARG:HG2	4:GD:66:ARG:HH12	1.76	0.50
12:GL:5:PRO:HA	12:GL:10:LEU:CA	2.41	0.50
49:H3:49:VAL:HG12	49:H3:51:ARG:HG3	1.94	0.50
22:HB:1309:G:H2'	22:HB:1310:C:C6	2.46	0.50
22:HB:1805:G:H21	24:HD:51:SER:CA	2.25	0.50
22:HB:1816:G:H4'	24:HD:247:VAL:CB	2.40	0.50
22:HB:2325:A:H1'	22:HB:2362:G:C8	2.47	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:HB:2372:A:O2'	33:HM:63:ARG:NH1	2.44	0.50
22:HB:2487:G:H2'	22:HB:2488:G:H8	1.75	0.50
22:HB:2635:U:H2'	22:HB:2636:A:C8	2.45	0.50
22:HB:2760:G:C5'	31:HK:146:THR:HA	2.40	0.50
22:HB:3148:G:H3'	22:HB:3148:G:N3	2.27	0.50
22:HB:55:A:O2'	22:HB:125:A:C6	2.64	0.50
22:HB:583:C:H5'	22:HB:585:U:OP2	2.12	0.50
22:HB:238:G:O3'	22:HB:620:G:C5'	2.59	0.50
22:HB:57:G:N1	22:HB:72:A:C2	2.80	0.50
22:HB:862:A:N3	46:HZ:21:GLN:NE2	2.59	0.50
22:HB:863:C:H2'	22:HB:864:C:O4'	2.12	0.50
24:HD:119:ALA:CB	24:HD:129:ASN:HB2	2.41	0.50
24:HD:63:ARG:HH22	24:HD:157:ARG:HH11	1.60	0.50
28:HH:97:LYS:HG2	28:HH:125:VAL:HG11	1.94	0.50
22:HB:2446:C:C2	34:HN:120:ARG:HD2	2.47	0.50
37:HQ:46:ARG:HG3	37:HQ:47:SER:H	1.76	0.50
22:HB:1265:G:H5'	38:HR:14:HIS:HE1	1.76	0.50
22:HB:505:G:H5'	40:HT:24:GLY:O	2.12	0.50
41:HU:92:ALA:HB2	45:HY:24:GLU:CG	2.40	0.50
22:HB:339:U:H5'	42:HV:9:HIS:HB3	1.94	0.50
43:HW:3:LEU:HG	43:HW:56:VAL:HG22	1.94	0.50
44:HX:36:ILE:HG23	44:HX:69:PHE:HB2	1.92	0.50
1:IA:1067:A:H4'	1:IA:1387:G:C4'	2.41	0.50
1:IA:1078:U:OP2	5:IE:84:PHE:CZ	2.65	0.50
1:IA:1348:U:OP2	9:II:118:LYS:NZ	2.37	0.50
1:IA:284:G:H2'	1:IA:285:G:C8	2.46	0.50
1:IA:452:A:HO2'	16:IP:72:ARG:CG	2.09	0.50
1:IA:549:C:H2'	1:IA:550:G:C8	2.47	0.50
1:IA:687:A:C5'	11:IK:42:TRP:CZ2	2.95	0.50
1:IA:944:G:N2	1:IA:1339:A:H5''	2.25	0.50
8:IH:65:TYR:O	8:IH:79:VAL:HG23	2.11	0.50
9:II:25:LYS:HE2	9:II:34:ASN:HD22	1.75	0.50
9:II:18:PHE:N	9:II:62:TYR:HB3	2.27	0.50
1:IA:1151:A:OP1	10:IJ:44:VAL:CG2	2.58	0.50
14:IN:27:CYS:HB2	14:IN:43:CYS:SG	2.51	0.50
10:IJ:51:ARG:O	14:IN:45:ARG:CZ	2.59	0.50
22:JB:3168:G:O6	53:J7:101:LYS:HG2	2.10	0.50
22:JB:3103:A:H4'	53:J7:37:LYS:CD	2.40	0.50
22:JB:1172:U:H4'	39:JS:22:VAL:HG11	0.59	0.50
22:JB:117:A:H5'	22:JB:118:U:O5'	2.12	0.50
22:JB:1197:U:C4	22:JB:1198:C:N3	2.79	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:JB:123:A:O2'	50:J4:14:LYS:HB2	2.11	0.50
22:JB:1314:A:H2'	22:JB:1316:G:OP2	2.11	0.50
22:JB:134:G:H1'	22:JB:138:G:N2	2.26	0.50
22:JB:147:G:N3	22:JB:147:G:C2'	2.71	0.50
22:JB:1762:C:H4'	22:JB:1921:A:N6	2.23	0.50
22:JB:1812:U:O2	24:JD:202:LYS:HB3	2.11	0.50
22:JB:2529:G:N1	22:JB:2538:C:C4	2.79	0.50
22:JB:468:A:C5'	41:JU:69:ILE:HD12	2.31	0.50
22:JB:863:C:H2'	22:JB:864:C:O4'	2.12	0.50
22:JB:93:A:H2'	22:JB:94:C:O4'	2.12	0.50
22:JB:1954:A:N6	24:JD:241:GLY:N	2.55	0.50
22:JB:671:A:N3	26:JF:96:PRO:HG3	2.26	0.50
30:JJ:52:ILE:H	30:JJ:53:ILE:HD12	1.77	0.50
31:JK:119:LEU:HD13	31:JK:119:LEU:O	2.12	0.50
31:JK:93:LYS:H	31:JK:93:LYS:HD2	1.77	0.50
34:JN:55:MET:HE2	34:JN:114:GLN:HE21	1.76	0.50
35:JO:40:LYS:NZ	35:JO:44:LEU:HD13	2.27	0.50
22:JB:541:C:C2'	38:JR:25:TRP:CE3	2.95	0.50
22:JB:527:C:H5''	40:JT:36:ARG:NH1	2.26	0.50
22:JB:492:G:P	42:JV:55:THR:C	2.87	0.50
42:JV:99:VAL:HG12	42:JV:100:ASP:H	1.75	0.50
43:JW:3:LEU:HG	43:JW:56:VAL:HG22	1.94	0.50
44:JX:49:GLN:HA	44:JX:55:ARG:CZ	2.41	0.50
1:AA:1148:U:H2'	1:AA:1149:C:C6	2.46	0.50
1:AA:1184:G:H2'	1:AA:1185:G:C8	2.47	0.50
1:AA:1225:A:OP2	13:AM:104:ARG:HB2	2.12	0.50
1:AA:1320:C:N4	19:AS:36:ARG:HG2	2.25	0.50
1:AA:549:C:H2'	1:AA:550:G:C8	2.47	0.50
3:AC:132:ARG:NH2	4:AD:47:ARG:HH12	2.09	0.50
4:AD:146:ILE:HB	4:AD:181:MET:O	2.11	0.50
5:AE:81:GLU:CD	5:AE:91:LEU:H	2.14	0.50
1:AA:942:G:N2	9:AI:124:GLN:HB2	2.24	0.50
11:AK:12:ARG:CZ	11:AK:34:ASP:HB3	2.41	0.50
1:AA:1225:A:H5'	13:AM:104:ARG:N	2.26	0.50
13:AM:77:ASN:HA	13:AM:80:ARG:CZ	2.41	0.50
49:B3:49:VAL:HG12	49:B3:51:ARG:HG3	1.94	0.50
22:BB:1008:G:H5'	38:BR:92:ARG:HB2	1.89	0.50
22:BB:1018:C:H2'	22:BB:1019:U:H5	1.75	0.50
22:BB:1092:U:O3'	30:BJ:117:ALA:HB2	2.11	0.50
22:BB:1148:G:C5'	31:BK:132:PHE:O	2.57	0.50
22:BB:117:A:H5'	22:BB:118:U:O5'	2.12	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:BB:1354:A:H3'	22:BB:1410:U:H3	1.77	0.50
22:BB:1367:A:H2'	22:BB:1368:G:O4'	2.11	0.50
22:BB:1437:A:H62	22:BB:1439:G:H22	1.52	0.50
22:BB:2612:G:H5'	22:BB:2786:G:HO2'	1.77	0.50
22:BB:3116:G:P	22:BB:3166:G:H21	2.34	0.50
22:BB:3148:G:H3'	22:BB:3148:G:N3	2.27	0.50
22:BB:568:G:C8	22:BB:569:C:C2	2.99	0.50
22:BB:658:G:H5''	22:BB:2331:A:H5'	1.93	0.50
22:BB:675:C:C5'	33:BM:26:THR:HA	2.41	0.50
25:BE:55:ALA:HA	25:BE:58:LYS:HB2	1.93	0.50
25:BE:91:VAL:HG23	25:BE:180:ASN:HB3	1.94	0.50
31:BK:65:LYS:HB3	31:BK:65:LYS:NZ	2.27	0.50
33:BM:109:LEU:HD12	33:BM:128:ALA:HB1	1.93	0.50
23:BA:52:G:P	36:BP:63:ASN:ND2	2.81	0.50
37:BQ:11:GLU:HA	37:BQ:14:ARG:O	2.11	0.50
38:BR:54:LYS:HE2	38:BR:93:LYS:HZ3	1.75	0.50
40:BT:55:ASP:HA	40:BT:58:ARG:HB3	1.93	0.50
43:BW:20:ALA:HB3	43:BW:80:HIS:HB2	1.94	0.50
44:BX:32:LYS:HG3	44:BX:33:ALA:H	1.76	0.50
46:BZ:16:GLN:HG2	46:BZ:46:THR:HG21	1.94	0.50
1:CA:1067:A:H4'	1:CA:1387:G:C4'	2.41	0.50
1:CA:1184:G:H2'	1:CA:1185:G:C8	2.47	0.50
1:CA:318:G:H2'	1:CA:319:G:H8	1.76	0.50
1:CA:378:G:OP1	16:CP:25:ARG:CA	2.60	0.50
1:CA:429:U:C3'	4:CD:8:VAL:CG2	2.89	0.50
1:CA:434:U:N3	1:CA:435:C:N4	2.60	0.50
1:CA:681:C:H2'	1:CA:682:G:H8	1.76	0.50
1:CA:961:U:H5	1:CA:1222:G:H22	1.59	0.50
2:CB:132:LYS:O	2:CB:136:VAL:HB	2.12	0.50
5:CE:151:LEU:HD13	8:CH:79:VAL:HG13	1.93	0.50
1:CA:15:G:C2	5:CE:17:ALA:O	2.55	0.50
1:CA:922:G:H5'	5:CE:20:GLN:HE21	1.73	0.50
5:CE:81:GLU:CD	5:CE:91:LEU:H	2.15	0.50
1:CA:599:C:H4'	8:CH:130:GLY:O	2.11	0.50
12:CL:84:LEU:HB3	12:CL:101:VAL:O	2.11	0.50
14:CN:18:VAL:HG23	14:CN:19:ARG:H	1.77	0.50
16:CP:71:ARG:HH21	16:CP:74:LEU:HB3	1.77	0.50
17:CQ:28:PRO:HB3	17:CQ:35:VAL:HG22	1.93	0.50
23:DA:105:G:H22	43:DW:24:TYR:HE2	1.37	0.50
23:DA:10:U:O2'	36:DP:28:ARG:CZ	2.58	0.50
23:DA:92:G:H1'	34:DN:21:ASP:HB2	1.92	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:DB:1005:U:C6	38:DR:51:ARG:NH1	2.70	0.50
22:DB:1033:G:C8	31:DK:94:LYS:HD2	2.43	0.50
22:DB:1067:G:N2	22:DB:1114:A:H61	2.10	0.50
22:DB:824:U:H4'	22:DB:1264:C:N1	2.27	0.50
22:DB:1293:A:OP1	35:DO:33:ARG:NH1	2.43	0.50
22:DB:134:G:H1'	22:DB:138:G:N2	2.26	0.50
22:DB:2590:U:H3'	22:DB:2591:C:C6	2.46	0.50
22:DB:2634:G:N3	22:DB:2634:G:H2'	2.26	0.50
22:DB:2765:C:C4'	25:DE:65:GLY:O	2.58	0.50
22:DB:338:G:H5'	42:DV:9:HIS:HD2	1.75	0.50
22:DB:487:G:H1'	22:DB:489:A:H62	1.77	0.50
22:DB:692:C:H2'	22:DB:693:A:H8	1.77	0.50
22:DB:846:A:H62	22:DB:955:G:H1	1.59	0.50
22:DB:863:C:H2'	22:DB:864:C:O4'	2.12	0.50
22:DB:990:A:H3'	22:DB:991:A:C5'	2.40	0.50
22:DB:625:A:C4'	26:DF:38:ARG:CD	2.80	0.50
27:DG:13:ARG:H	27:DG:14:PRO:CD	2.24	0.50
30:DJ:41:PHE:O	30:DJ:42:ASN:HB2	2.12	0.50
22:DB:1040:A:C3'	34:DN:125:LYS:CE	2.85	0.50
34:DN:26:ASP:HB3	34:DN:100:PRO:HB3	1.92	0.50
34:DN:54:VAL:HG23	34:DN:55:MET:SD	2.51	0.50
25:DE:51:TYR:HH	37:DQ:3:THR:HA	1.65	0.50
37:DQ:39:VAL:HG12	37:DQ:41:GLU:H	1.75	0.50
37:DQ:58:ASN:HD21	37:DQ:104:LEU:HA	1.76	0.50
40:DT:55:ASP:HA	40:DT:58:ARG:HB3	1.94	0.50
42:DV:33:THR:O	42:DV:35:LYS:HG3	2.12	0.50
22:DB:917:U:C1'	43:DW:166:LEU:CD2	2.79	0.50
44:DX:49:GLN:HA	44:DX:55:ARG:CZ	2.41	0.50
1:EA:1148:U:H2'	1:EA:1149:C:C6	2.46	0.50
1:EA:1234:C:C1'	1:EA:1364:U:H1'	2.41	0.50
1:EA:392:G:OP2	16:EP:12:LYS:HG3	2.04	0.50
1:EA:434:U:N3	1:EA:435:C:N4	2.60	0.50
1:EA:681:C:H2'	1:EA:682:G:H8	1.77	0.50
2:EB:86:GLU:C	2:EB:88:ALA:H	2.15	0.50
3:EC:10:PHE:CE1	14:EN:58:LYS:CE	2.94	0.50
4:ED:126:ILE:HG23	4:ED:148:VAL:HA	1.94	0.50
11:EK:105:VAL:HG12	11:EK:106:LYS:H	1.76	0.50
16:EP:71:ARG:NE	16:EP:74:LEU:HB2	2.25	0.50
20:ET:84:LEU:HA	20:ET:87:LYS:HD2	1.93	0.50
22:FB:2370:G:O6	49:F3:2:ALA:HA	2.07	0.50
22:FB:1629:G:C4'	50:F4:3:ARG:CD	2.87	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:FB:640:C:P	51:F5:17:THR:O	2.70	0.50
53:F7:200:LEU:HD22	53:F7:201:ARG:N	2.22	0.50
23:FA:77:G:C4	43:FW:24:TYR:OH	2.63	0.50
22:FB:1001:A:H5'	46:FZ:27:LYS:HZ1	1.68	0.50
22:FB:84:G:H1'	22:FB:101:A:C2	2.46	0.50
22:FB:134:G:H1'	22:FB:138:G:N2	2.26	0.50
22:FB:1828:C:HO2'	22:FB:1912:G:P	2.31	0.50
22:FB:1949:A:N3	22:FB:2571:G:O2'	2.44	0.50
22:FB:2590:U:H3'	22:FB:2591:C:C6	2.46	0.50
22:FB:348:U:H5''	42:FV:13:LYS:CD	2.41	0.50
22:FB:457:C:H5'	38:FR:3:ARG:HG2	1.85	0.50
22:FB:632:A:P	33:FM:101:ARG:HH22	2.33	0.50
22:FB:66:U:C4	22:FB:87:G:N1	2.78	0.50
22:FB:863:C:H2'	22:FB:864:C:O4'	2.12	0.50
22:FB:987:G:H2'	22:FB:988:G:H8	1.75	0.50
22:FB:999:A:OP1	46:FZ:7:ARG:HA	2.06	0.50
24:FD:213:ARG:HE	24:FD:219:PRO:CA	2.24	0.50
24:FD:55:GLY:HA2	24:FD:218:LYS:N	2.26	0.50
22:FB:2661:G:C4	25:FE:11:MET:C	2.85	0.50
22:FB:2293:G:H4'	27:FG:33:LYS:HE2	1.94	0.50
29:FI:2:GLN:HG3	29:FI:42:ASN:ND2	2.26	0.50
30:FJ:111:LYS:HB3	30:FJ:111:LYS:HZ3	1.76	0.50
22:FB:567:G:H5''	31:FK:140:GLN:CD	2.32	0.50
33:FM:110:ALA:HB3	33:FM:132:ALA:HB3	1.93	0.50
33:FM:107:LYS:HB2	33:FM:126:SER:HB2	1.92	0.50
33:FM:63:ARG:HH21	51:F5:9:MET:CE	2.01	0.50
34:FN:30:PHE:O	34:FN:131:LYS:HD3	2.12	0.50
34:FN:42:TRP:HA	34:FN:94:TRP:CH2	2.45	0.50
37:FQ:53:VAL:HB	37:FQ:69:ARG:NH2	2.26	0.50
25:FE:17:ASN:OD1	37:FQ:89:ASN:HB2	2.11	0.50
38:FR:20:ARG:HH11	38:FR:22:LYS:HD3	1.77	0.50
22:FB:498:C:H1'	40:FT:77:ALA:CB	2.41	0.50
42:FV:33:THR:O	42:FV:35:LYS:HG3	2.12	0.50
44:FX:49:GLN:HA	44:FX:55:ARG:CZ	2.42	0.50
22:FB:2364:C:O4'	44:FX:69:PHE:HZ	1.95	0.50
45:FY:55:THR:O	45:FY:56:VAL:HG22	2.11	0.50
46:FZ:13:PRO:HB2	46:FZ:15:ASN:OD1	2.12	0.50
22:FB:1001:A:C4'	46:FZ:27:LYS:HZ2	2.16	0.50
1:GA:1468:A:H3'	1:GA:1469:G:C8	2.43	0.50
1:GA:586:C:H4'	1:GA:878:G:H4'	1.92	0.50
1:GA:786:G:H2'	1:GA:787:A:O4'	2.11	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:GD:126:ILE:HG23	4:GD:148:VAL:HA	1.93	0.50
5:GE:11:ILE:HG22	5:GE:12:LEU:HD12	1.93	0.50
5:GE:127:ASN:CG	5:GE:130:ASN:HB2	2.32	0.50
1:GA:922:G:C1'	5:GE:20:GLN:CA	2.90	0.50
6:GF:24:GLU:HA	6:GF:27:GLN:HG2	1.93	0.50
9:GI:18:PHE:N	9:GI:62:TYR:HB3	2.27	0.50
13:GM:2:ALA:HB3	13:GM:10:PRO:HD2	1.93	0.50
1:GA:1229:A:OP1	13:GM:116:THR:CG2	2.60	0.50
33:HM:67:ASN:ND2	51:H5:11:LYS:HZ1	2.07	0.50
52:H6:13:ASN:CG	52:H6:28:SER:HA	2.31	0.50
53:H7:200:LEU:HD22	53:H7:201:ARG:N	2.22	0.50
22:HB:1335:A:O2'	40:HT:103:LEU:CD1	2.27	0.50
22:HB:1654:A:O3'	22:HB:2689:C:H1'	2.10	0.50
22:HB:2015:G:H4'	22:HB:2016:A:OP1	2.11	0.50
22:HB:2335:U:H5''	44:HX:19:LYS:CE	2.41	0.50
22:HB:2498:U:H5'	22:HB:2546:G:N2	2.26	0.50
22:HB:2570:C:H2'	22:HB:2571:G:C8	2.45	0.50
22:HB:2590:U:H3'	22:HB:2591:C:C6	2.46	0.50
22:HB:2721:A:H61	22:HB:2742:G:N2	2.09	0.50
22:HB:2727:G:N1	22:HB:2735:C:H5''	2.26	0.50
22:HB:432:C:H2'	22:HB:433:G:C8	2.46	0.50
22:HB:6:A:H4'	31:HK:162:LYS:NZ	2.26	0.50
22:HB:906:U:H2'	22:HB:907:U:C6	2.46	0.50
28:HH:129:THR:HB	28:HH:130:ARG:NH1	2.26	0.50
32:HL:47:VAL:HG23	32:HL:76:ARG:HD3	1.92	0.50
33:HM:73:GLU:OE2	33:HM:105:PRO:HB2	2.11	0.50
22:HB:227:G:O2'	33:HM:55:ARG:NE	2.45	0.50
33:HM:68:VAL:O	33:HM:70:THR:HG22	2.11	0.50
35:HO:13:ASN:HB2	35:HO:16:ALA:HB2	1.93	0.50
22:HB:1994:U:P	40:HT:120:ARG:HB3	2.51	0.50
40:HT:27:VAL:HG23	40:HT:125:THR:H	1.76	0.50
22:HB:494:A:N3	42:HV:56:LYS:HE2	2.26	0.50
22:HB:71:A:C2	45:HY:55:THR:HA	2.47	0.50
1:IA:1184:G:H2'	1:IA:1185:G:C8	2.47	0.50
1:IA:1349:A:C5'	9:II:121:ARG:HH22	2.21	0.50
1:IA:1500:A:H5''	1:IA:1508:G:OP1	2.11	0.50
1:IA:1391:U:O2'	1:IA:1531:A:C3'	2.59	0.50
1:IA:186:C:O4'	20:IT:81:LYS:NZ	2.43	0.50
1:IA:386:C:H2'	1:IA:387:U:O4'	2.11	0.50
1:IA:434:U:H2'	1:IA:435:C:C6	2.46	0.50
1:IA:719:C:H3'	1:IA:720:C:C6	2.46	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:IA:731:G:H5'	1:IA:766:A:H4'	1.93	0.50
1:IA:786:G:H2'	1:IA:787:A:O4'	2.11	0.50
2:IB:147:LYS:H	2:IB:147:LYS:HD2	1.77	0.50
3:IC:12:LEU:CA	3:IC:16:ARG:HB3	2.40	0.50
1:IA:1106:G:C5'	3:IC:170:GLN:HA	2.41	0.50
4:ID:148:VAL:HG12	4:ID:152:SER:HB2	1.94	0.50
8:IH:114:THR:HB	8:IH:129:VAL:HB	1.94	0.50
1:IA:966:G:H5'	9:II:127:LYS:HE2	1.92	0.50
14:IN:12:ARG:HD3	14:IN:13:THR:H	1.76	0.50
15:IO:62:GLN:HA	15:IO:65:ARG:HB2	1.93	0.50
17:IQ:28:PRO:HB3	17:IQ:35:VAL:HG22	1.93	0.50
22:JB:219:G:C2'	51:J5:4:MET:O	2.60	0.50
52:J6:31:LYS:HG3	52:J6:32:HIS:CD2	2.46	0.50
22:JB:3122:U:O3'	53:J7:133:LYS:CG	2.59	0.50
53:J7:53:PRO:HA	53:J7:154:SER:HB3	1.92	0.50
22:JB:1088:A:H5'	30:JJ:92:ASN:CB	2.40	0.50
22:JB:1067:G:N2	22:JB:1114:A:H61	2.10	0.50
22:JB:1382:G:H2'	22:JB:1383:C:O4'	2.12	0.50
22:JB:1420:A:H2'	22:JB:1421:U:H5	1.77	0.50
22:JB:1673:C:P	25:JE:136:ARG:NH1	2.84	0.50
22:JB:168:A:H61	22:JB:180:C:H2'	1.76	0.50
22:JB:1841:G:H2'	22:JB:1842:G:C8	2.44	0.50
22:JB:2049:C:H2'	22:JB:2050:G:H5'	1.93	0.50
22:JB:2074:U:H5''	29:JI:24:TYR:OH	2.12	0.50
22:JB:2398:U:H2'	22:JB:2399:C:H6	1.76	0.50
22:JB:2590:U:H3'	22:JB:2591:C:C6	2.46	0.50
22:JB:2721:A:H61	22:JB:2742:G:N2	2.09	0.50
22:JB:2810:A:C8	37:JQ:6:LYS:HE2	2.47	0.50
22:JB:2847:G:N2	35:JO:9:LYS:N	2.57	0.50
22:JB:475:U:H6	50:J4:4:THR:O	1.93	0.50
22:JB:483:A:H2'	22:JB:484:G:H5'	1.93	0.50
22:JB:534:U:H1'	22:JB:564:U:H4'	1.93	0.50
22:JB:990:A:H3'	22:JB:991:A:H5''	1.92	0.50
26:JF:177:VAL:HG13	26:JF:180:ILE:HD11	1.93	0.50
27:JG:45:GLU:HG3	27:JG:46:ASP:N	2.27	0.50
31:JK:162:LYS:N	31:JK:162:LYS:HD3	2.26	0.50
31:JK:41:TRP:CE2	31:JK:79:PHE:HB2	2.46	0.50
33:JM:110:ALA:HB3	33:JM:132:ALA:HB3	1.93	0.50
34:JN:36:ILE:HG12	43:JW:74:ARG:NH2	2.03	0.50
37:JQ:58:ASN:HD21	37:JQ:104:LEU:HA	1.77	0.50
37:JQ:110:LEU:HA	37:JQ:113:LYS:HE2	1.94	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:JQ:55:ILE:HD13	37:JQ:55:ILE:N	2.15	0.50
22:JB:528:G:C2	40:JT:96:TYR:CD2	2.95	0.50
41:JU:46:PHE:HD1	45:JY:23:LYS:HZ3	1.55	0.50
46:JZ:13:PRO:HB2	46:JZ:15:ASN:OD1	2.11	0.50
1:AA:1080:A:O3'	5:AE:18:ARG:CB	2.55	0.50
1:AA:1178:G:H2'	1:AA:1180:A:OP2	2.11	0.50
1:AA:1234:C:C1'	1:AA:1364:U:H1'	2.42	0.50
1:AA:193:C:H5'	20:AT:60:GLU:OE1	2.12	0.50
1:AA:246:A:N1	1:AA:278:G:H1'	2.27	0.50
1:AA:34:C:H2'	1:AA:35:G:H8	1.76	0.50
1:AA:845:A:O3'	18:AR:23:LYS:NZ	2.41	0.50
2:AB:180:LEU:O	2:AB:182:ILE:HG13	2.10	0.50
3:AC:140:ARG:O	3:AC:143:GLU:HB3	2.12	0.50
3:AC:56:ASP:O	3:AC:66:VAL:HG13	2.11	0.50
4:AD:99:SER:HB3	4:AD:140:VAL:HG11	1.94	0.50
4:AD:28:SER:N	4:AD:29:PRO:HD3	2.27	0.50
5:AE:76:ILE:O	5:AE:93:PRO:HB3	2.12	0.50
6:AF:67:MET:SD	6:AF:72:VAL:HG22	2.51	0.50
9:AI:118:LYS:HB3	9:AI:118:LYS:HZ3	1.76	0.50
1:AA:529:G:H2'	12:AL:48:PRO:HB2	1.94	0.50
14:AN:29:ARG:O	14:AN:33:VAL:HG13	2.12	0.50
1:AA:975:A:N1	14:AN:34:TYR:OH	2.34	0.50
17:AQ:26:GLN:CG	17:AQ:37:LYS:HA	2.41	0.50
17:AQ:11:VAL:HA	17:AQ:85:VAL:HG13	1.94	0.50
18:AR:26:LEU:HB3	18:AR:28:GLU:OE2	2.11	0.50
52:B6:31:LYS:HG3	52:B6:32:HIS:CD2	2.46	0.50
53:B7:206:LYS:HB2	53:B7:212:ALA:HA	1.92	0.50
53:B7:64:VAL:CG2	53:B7:152:LYS:HG2	2.41	0.50
23:BA:88:C:H3'	23:BA:89:G:H8	1.77	0.50
22:BB:1673:C:H5''	25:BE:136:ARG:HB3	1.89	0.50
22:BB:1884:A:H1'	24:BD:244:ARG:HH11	1.65	0.50
22:BB:1915:A:H2'	22:BB:1915:A:N3	2.27	0.50
22:BB:2321:C:O2	22:BB:2353:G:H4'	2.12	0.50
22:BB:2372:A:N3	33:BM:59:ARG:CG	2.75	0.50
22:BB:2683:C:H2'	22:BB:2684:A:H8	1.73	0.50
22:BB:2518:C:H1'	22:BB:2721:A:H4'	1.94	0.50
22:BB:432:C:H2'	22:BB:433:G:C8	2.46	0.50
22:BB:692:C:H2'	22:BB:693:A:H8	1.77	0.50
22:BB:66:U:C5	22:BB:87:G:C2	2.99	0.50
22:BB:1789:U:H5'	24:BD:257:LEU:HD13	0.54	0.50
25:BE:24:THR:HG22	25:BE:25:VAL:N	2.26	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:BF:26:VAL:C	26:BF:27:LEU:HD22	2.32	0.50
26:BF:48:ARG:O	26:BF:83:ALA:HA	2.11	0.50
27:BG:45:GLU:HG3	27:BG:46:ASP:N	2.27	0.50
29:BI:2:GLN:HG3	29:BI:42:ASN:ND2	2.26	0.50
30:BJ:52:ILE:H	30:BJ:53:ILE:HD12	1.77	0.50
31:BK:33:ILE:HG13	31:BK:35:LYS:H	1.77	0.50
31:BK:93:LYS:H	31:BK:93:LYS:HD2	1.77	0.50
33:BM:140:VAL:HG13	33:BM:141:VAL:N	2.17	0.50
34:BN:100:PRO:HG2	34:BN:102:ARG:HH12	1.75	0.50
25:BE:19:ARG:HD2	37:BQ:86:PRO:CG	2.40	0.50
22:BB:1235:C:N3	39:BS:71:ILE:HD13	2.25	0.50
22:BB:1202:U:H4'	39:BS:80:TYR:CE1	2.47	0.50
41:BU:80:VAL:HG12	41:BU:81:ARG:H	1.76	0.50
22:BB:2331:A:N1	44:BX:30:VAL:HG21	2.27	0.50
1:CA:1073:U:H1'	2:CB:107:THR:CB	2.41	0.50
1:CA:1102:A:H2	2:CB:108:ILE:CD1	2.10	0.50
1:CA:335:C:O2	1:CA:1434:A:C2	2.63	0.50
1:CA:719:C:H3'	1:CA:720:C:C6	2.46	0.50
1:CA:953:G:N1	13:CM:120:LYS:CB	2.63	0.50
1:CA:980:C:H4'	14:CN:19:ARG:NH2	2.21	0.50
3:CC:56:ASP:O	3:CC:66:VAL:HG13	2.11	0.50
1:CA:429:U:OP1	4:CD:9:CYS:O	2.30	0.50
6:CF:24:GLU:HA	6:CF:27:GLN:HG2	1.93	0.50
10:CJ:12:ASP:OD1	10:CJ:14:LYS:HB2	2.10	0.50
14:CN:46:GLU:HA	14:CN:49:HIS:CE1	2.47	0.50
16:CP:81:ARG:HA	16:CP:81:ARG:HE	1.75	0.50
22:DB:697:G:H5'	50:D4:11:LYS:HB3	1.94	0.50
53:D7:85:ILE:HG13	53:D7:90:LEU:HD13	1.93	0.50
22:DB:1007:A:O2'	38:DR:92:ARG:CA	2.59	0.50
22:DB:1746:A:H2'	22:DB:1747:G:H5'	1.93	0.50
22:DB:1915:A:H2'	22:DB:1915:A:N3	2.27	0.50
22:DB:2265:A:H5''	22:DB:2266:A:O4'	2.12	0.50
22:DB:2285:U:O4'	27:DG:40:LEU:CD2	2.60	0.50
22:DB:2522:G:H4'	22:DB:2624:G:C5	2.47	0.50
22:DB:2767:C:C1'	25:DE:61:LYS:HG2	2.41	0.50
22:DB:2807:U:H5	22:DB:2859:U:H5''	1.77	0.50
22:DB:3148:G:H3'	22:DB:3148:G:N3	2.27	0.50
22:DB:659:G:H21	51:D5:46:LYS:HE3	1.64	0.50
22:DB:93:A:H2'	22:DB:94:C:O4'	2.12	0.50
22:DB:598:U:H4'	26:DF:89:ARG:NH2	2.26	0.50
27:DG:45:GLU:HG3	27:DG:46:ASP:N	2.27	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:DH:68:THR:C	28:DH:70:THR:H	2.13	0.50
31:DK:120:SER:HA	31:DK:123:PRO:HG2	1.92	0.50
22:DB:525:A:C4'	38:DR:31:GLN:NE2	2.57	0.50
39:DS:6:GLN:HG2	39:DS:7:THR:HG23	1.92	0.50
42:DV:48:VAL:HG13	42:DV:50:GLY:N	2.22	0.50
1:EA:1184:G:H2'	1:EA:1185:G:C8	2.47	0.50
1:EA:546:G:OP1	4:ED:73:ARG:HB3	2.11	0.50
1:EA:549:C:H2'	1:EA:550:G:C8	2.47	0.50
1:EA:815:A:H2	1:EA:1528:U:O4'	1.95	0.50
1:EA:868:C:H2'	1:EA:869:G:O4'	2.12	0.50
2:EB:176:GLU:HG3	2:EB:179:LYS:HZ1	1.76	0.50
2:EB:187:LEU:HD11	2:EB:204:ASN:N	2.26	0.50
3:EC:71:ALA:HB2	3:EC:115:LEU:HD11	1.93	0.50
4:ED:101:LEU:O	4:ED:105:VAL:HG23	2.11	0.50
4:ED:146:ILE:HB	4:ED:181:MET:O	2.11	0.50
5:EE:127:ASN:CG	5:EE:130:ASN:HB2	2.32	0.50
1:EA:641:U:H1'	8:EH:115:SER:C	2.25	0.50
1:EA:653:A:N6	8:EH:32:LYS:HZ1	2.03	0.50
8:EH:65:TYR:O	8:EH:79:VAL:HG23	2.11	0.50
1:EA:598:U:C1'	8:EH:95:VAL:CG2	2.87	0.50
9:EI:11:LYS:H	9:EI:104:ARG:NE	2.09	0.50
13:EM:29:ARG:HH12	13:EM:66:LEU:HD22	1.77	0.50
1:EA:667:G:H1'	15:EO:51:HIS:HB2	1.94	0.50
16:EP:71:ARG:HH21	16:EP:74:LEU:HB3	1.77	0.50
1:EA:633:G:C5'	17:EQ:28:PRO:HG3	2.16	0.50
17:EQ:11:VAL:HA	17:EQ:85:VAL:HG13	1.94	0.50
18:ER:44:LEU:HG	18:ER:45:SER:H	1.77	0.50
18:ER:31:LEU:O	18:ER:69:THR:HG21	2.12	0.50
49:F3:35:LEU:HD21	49:F3:37:LEU:HD13	1.93	0.50
23:FA:112:A:H2'	23:FA:113:G:O4'	2.11	0.50
22:FB:1067:G:N2	22:FB:1114:A:H61	2.10	0.50
22:FB:117:A:H5'	22:FB:118:U:O5'	2.12	0.50
22:FB:1288:A:C2	35:FO:15:SER:C	2.83	0.50
22:FB:1314:A:H2'	22:FB:1315:A:H3'	1.92	0.50
22:FB:1367:A:H2'	22:FB:1368:G:O4'	2.11	0.50
22:FB:1397:A:C2	22:FB:1418:C:C5	2.99	0.50
22:FB:1488:G:N7	22:FB:1533:G:O6	2.45	0.50
22:FB:168:A:H61	22:FB:180:C:H2'	1.76	0.50
22:FB:1771:A:P	22:FB:1772:C:H3'	2.52	0.50
22:FB:1141:U:H2'	22:FB:2009:U:OP1	2.11	0.50
22:FB:2714:A:H61	22:FB:2750:G:H1'	1.64	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:FB:90:G:H3'	22:FB:91:A:C5'	2.40	0.50
30:FJ:9:LYS:O	30:FJ:10:LEU:HD22	2.11	0.50
31:FK:159:SER:HA	31:FK:162:LYS:HD2	1.93	0.50
31:FK:33:ILE:HG13	31:FK:35:LYS:H	1.77	0.50
33:FM:73:GLU:OE2	33:FM:105:PRO:HB2	2.11	0.50
34:FN:54:VAL:HG23	34:FN:55:MET:SD	2.51	0.50
35:FO:40:LYS:NZ	35:FO:44:LEU:HD13	2.26	0.50
36:FP:97:HIS:NE2	36:FP:99:ARG:HB2	2.26	0.50
37:FQ:58:ASN:HD21	37:FQ:104:LEU:HA	1.77	0.50
37:FQ:63:ARG:HA	37:FQ:63:ARG:NE	2.27	0.50
43:FW:20:ALA:HB3	43:FW:80:HIS:HB2	1.94	0.50
44:FX:32:LYS:HA	44:FX:66:LYS:NZ	2.25	0.50
22:FB:93:A:H3'	45:FY:37:LEU:CD2	2.16	0.50
22:FB:864:C:H5''	46:FZ:42:GLY:HA3	1.93	0.50
1:GA:1231:G:N3	13:GM:126:LYS:HE2	2.26	0.50
1:GA:1299:A:C8	1:GA:1301:U:H1'	2.46	0.50
1:GA:1347:G:H22	1:GA:1374:A:P	2.35	0.50
1:GA:17:U:H4'	5:GE:14:ARG:HE	1.71	0.50
1:GA:324:G:C4'	20:GT:15:ARG:CZ	2.79	0.50
1:GA:731:G:H5'	1:GA:766:A:H4'	1.93	0.50
1:GA:922:G:H1'	5:GE:20:GLN:CA	2.41	0.50
1:GA:965:A:H2'	1:GA:965:A:N3	2.26	0.50
2:GB:147:LYS:HD2	2:GB:147:LYS:H	1.77	0.50
1:GA:1103:C:H5'	2:GB:98:LEU:HD13	1.94	0.50
3:GC:56:ASP:O	3:GC:66:VAL:HG13	2.11	0.50
4:GD:107:ARG:HH22	4:GD:114:ARG:NH2	2.05	0.50
4:GD:99:SER:HB3	4:GD:140:VAL:HG11	1.94	0.50
4:GD:162:LEU:HB3	4:GD:166:LYS:CG	2.41	0.50
4:GD:28:SER:N	4:GD:29:PRO:HD3	2.27	0.50
1:GA:429:U:C3'	4:GD:8:VAL:HB	2.30	0.50
1:GA:1373:G:H4'	7:GG:35:LYS:N	2.26	0.50
8:GH:33:GLU:O	8:GH:36:LEU:HB2	2.11	0.50
1:GA:825:G:N3	8:GH:8:ASP:OD2	2.43	0.50
12:GL:90:VAL:CG1	12:GL:92:ASP:H	2.25	0.50
13:GM:91:ARG:HB2	13:GM:98:VAL:HG13	1.93	0.50
14:GN:8:GLU:HA	14:GN:11:LYS:HD3	1.94	0.50
17:GQ:9:VAL:H	17:GQ:21:VAL:HG12	1.77	0.50
17:GQ:28:PRO:HB3	17:GQ:35:VAL:HG22	1.93	0.50
18:GR:26:LEU:HB3	18:GR:28:GLU:OE2	2.11	0.50
1:AA:179:A:C8	20:GT:99:LEU:O	2.65	0.50
22:HB:1375:C:H5'	47:H1:53:GLU:OE2	2.11	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:HB:117:A:H5'	22:HB:118:U:O5'	2.12	0.50
22:HB:1338:G:H21	40:HT:106:LEU:CD2	2.22	0.50
22:HB:134:G:H1'	22:HB:138:G:N2	2.26	0.50
22:HB:168:A:H61	22:HB:180:C:H2'	1.76	0.50
22:HB:1789:U:H5''	24:HD:258:LYS:H	1.77	0.50
22:HB:1818:G:H2'	22:HB:1819:U:C6	2.45	0.50
22:HB:2049:C:H2'	22:HB:2050:G:H5'	1.93	0.50
22:HB:2399:C:H5'	49:H3:24:THR:HB	1.93	0.50
22:HB:29:U:O2	22:HB:1228:G:H4'	2.11	0.50
22:HB:391:C:H2'	22:HB:392:G:H8	1.75	0.50
22:HB:541:C:H5'	22:HB:542:A:H5''	1.93	0.50
22:HB:566:U:H4'	31:HK:74:MET:SD	2.52	0.50
22:HB:677:G:H3'	22:HB:678:G:H8	1.77	0.50
22:HB:692:C:H2'	22:HB:693:A:H8	1.77	0.50
22:HB:703:A:H3'	22:HB:704:G:H8	1.76	0.50
22:HB:824:U:H4'	22:HB:1264:C:N1	2.27	0.50
22:HB:84:G:N2	22:HB:96:C:H2'	2.15	0.50
24:HD:251:GLY:HA3	24:HD:255:LYS:HE3	1.93	0.50
28:HH:6:LYS:HZ2	28:HH:7:GLN:H	1.59	0.50
30:HJ:57:ILE:O	30:HJ:57:ILE:HG23	2.11	0.50
34:HN:54:VAL:HG23	34:HN:55:MET:SD	2.51	0.50
22:HB:2685:A:H1'	35:HO:64:ARG:HD2	1.93	0.50
37:HQ:38:LYS:CD	37:HQ:50:PHE:HB2	2.41	0.50
41:HU:80:VAL:HG12	41:HU:81:ARG:H	1.76	0.50
1:IA:1245:A:H2'	1:IA:1246:C:C6	2.46	0.50
1:IA:1299:A:C8	1:IA:1301:U:H1'	2.46	0.50
1:IA:1347:G:H22	1:IA:1374:A:P	2.35	0.50
1:IA:137:C:H1'	1:IA:227:G:N2	2.27	0.50
1:IA:299:G:H2'	1:IA:300:A:C8	2.47	0.50
1:IA:719:C:H42	18:IR:74:ARG:NH1	2.10	0.50
1:IA:1104:G:C2'	2:IB:111:ARG:HD2	2.41	0.50
2:IB:132:LYS:O	2:IB:136:VAL:HB	2.12	0.50
2:IB:25:ASN:HB2	2:IB:191:ASP:HA	1.92	0.50
8:IH:31:PHE:HB3	8:IH:32:LYS:HE2	1.91	0.50
8:IH:33:GLU:O	8:IH:36:LEU:HB2	2.12	0.50
3:IC:23:TYR:CB	10:IJ:92:THR:CG2	2.55	0.50
12:IL:30:ALA:C	12:IL:32:PHE:H	2.15	0.50
15:IO:69:TYR:HH	15:IO:77:ARG:NH2	2.10	0.50
49:J3:22:TYR:O	49:J3:23:THR:HB	2.11	0.50
52:J6:14:CYS:HB3	52:J6:25:VAL:HA	1.94	0.50
53:J7:85:ILE:HG13	53:J7:90:LEU:HD13	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:JA:14:C:C3'	44:JX:53:MET:CG	2.73	0.50
22:JB:1141:U:O4	25:JE:147:PRO:HB2	2.11	0.50
22:JB:1202:U:N1	39:JS:80:TYR:CZ	2.79	0.50
22:JB:1779:C:H2'	22:JB:1780:A:O4'	2.10	0.50
22:JB:1781:C:OP1	24:JD:219:PRO:C	2.50	0.50
22:JB:2341:G:H2'	22:JB:2342:U:C6	2.46	0.50
22:JB:2701:A:N9	22:JB:2848:A:N7	2.59	0.50
22:JB:3164:C:OP1	53:J7:102:LYS:CG	2.60	0.50
22:JB:455:A:C8	26:JF:39:ARG:HD3	2.47	0.50
22:JB:652:C:H2'	22:JB:653:G:H5'	1.94	0.50
22:JB:684:C:C5	33:JM:45:LYS:HD2	2.47	0.50
22:JB:824:U:H4'	22:JB:1264:C:N1	2.27	0.50
22:JB:906:U:H2'	22:JB:907:U:C6	2.46	0.50
22:JB:84:G:N2	22:JB:96:C:H2'	2.15	0.50
24:JD:213:ARG:HE	24:JD:219:PRO:CA	2.24	0.50
22:JB:1885:C:HO2'	24:JD:244:ARG:HE	1.56	0.50
24:JD:262:LYS:O	24:JD:263:ARG:HB3	2.11	0.50
24:JD:72:LYS:HZ3	24:JD:75:VAL:CG2	2.23	0.50
25:JE:199:ARG:CZ	25:JE:199:ARG:HA	2.42	0.50
26:JF:149:LEU:HD13	26:JF:186:LEU:HA	1.94	0.50
28:JH:50:LEU:HG	28:JH:69:ARG:HD2	1.93	0.50
30:JJ:9:LYS:O	30:JJ:10:LEU:HD22	2.11	0.50
31:JK:30:LYS:HB3	31:JK:30:LYS:HZ2	1.75	0.50
34:JN:100:PRO:HG2	34:JN:102:ARG:HH12	1.75	0.50
22:JB:2810:A:C4'	37:JQ:6:LYS:CG	2.73	0.50
41:JU:17:TYR:CE1	41:JU:21:GLU:HG2	2.45	0.50
22:JB:509:U:O3'	42:JV:54:ILE:HB	1.72	0.50
46:JZ:16:GLN:HG2	46:JZ:46:THR:HG21	1.94	0.50
1:AA:1256:A:N6	3:AC:26:LYS:HD3	2.26	0.50
1:AA:1349:A:OP1	9:AI:120:ARG:C	2.50	0.50
1:AA:1392:G:H4'	1:AA:1531:A:C5'	2.14	0.50
1:AA:434:U:N3	1:AA:435:C:N4	2.60	0.50
1:AA:786:G:H2'	1:AA:787:A:O4'	2.11	0.50
1:AA:868:C:H2'	1:AA:869:G:O4'	2.12	0.50
1:AA:9:G:H2'	1:AA:10:A:C8	2.46	0.50
4:AD:173:TRP:HE3	4:AD:193:ASP:HB3	1.77	0.50
1:AA:1148:U:H5'	9:AI:7:THR:HG21	1.94	0.50
10:AJ:65:LEU:CB	14:AN:56:VAL:CA	2.80	0.50
11:AK:67:ASP:HA	11:AK:70:LYS:HE3	1.93	0.50
13:AM:2:ALA:HB3	13:AM:10:PRO:HD2	1.94	0.50
14:AN:18:VAL:HG23	14:AN:19:ARG:H	1.77	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:AN:46:GLU:HA	14:AN:49:HIS:CE1	2.47	0.50
10:AJ:64:GLU:CA	14:AN:57:ARG:O	2.60	0.50
22:BB:1044:U:C4'	52:B6:16:VAL:CG2	2.87	0.50
22:BB:1161:U:H2'	22:BB:1162:A:H8	1.76	0.50
22:BB:1314:A:H2'	22:BB:1315:A:H3'	1.92	0.50
22:BB:1583:A:C1'	24:BD:84:TYR:CD1	2.92	0.50
22:BB:1668:G:O5'	35:BO:11:ASN:ND2	2.44	0.50
22:BB:1887:G:H21	22:BB:1912:G:C4'	2.25	0.50
22:BB:1912:G:N3	22:BB:1912:G:H2'	2.27	0.50
22:BB:1760:G:H1'	22:BB:1941:C:H5'	1.94	0.50
22:BB:2299:A:H5''	22:BB:2300:G:O5'	2.12	0.50
22:BB:2385:U:O2'	22:BB:2386:G:H5''	2.11	0.50
22:BB:2590:U:H3'	22:BB:2591:C:C6	2.46	0.50
22:BB:460:U:H2'	26:BF:78:VAL:HG22	1.91	0.50
22:BB:594:G:H1	22:BB:1266:G:P	2.35	0.50
22:BB:824:U:H4'	22:BB:1264:C:N1	2.27	0.50
22:BB:840:U:H3'	22:BB:2409:A:N6	2.24	0.50
22:BB:880:C:H2'	22:BB:881:U:H5'	1.94	0.50
24:BD:119:ALA:CB	24:BD:129:ASN:HB2	2.41	0.50
22:BB:742:G:C4'	24:BD:18:THR:HG21	2.42	0.50
22:BB:1807:A:O3'	24:BD:87:ASN:ND2	2.45	0.50
27:BG:40:LEU:HD13	27:BG:152:MET:HE2	1.93	0.50
27:BG:78:LYS:HG3	27:BG:80:ARG:NH1	2.20	0.50
30:BJ:39:LYS:NZ	30:BJ:39:LYS:HB3	2.27	0.50
30:BJ:57:ILE:O	30:BJ:57:ILE:HG23	2.11	0.50
31:BK:41:TRP:CE2	31:BK:79:PHE:HB2	2.46	0.50
22:BB:648:A:H2	33:BM:109:LEU:CD1	2.19	0.50
33:BM:73:GLU:OE2	33:BM:105:PRO:HB2	2.11	0.50
37:BQ:71:ILE:HG22	37:BQ:72:SER:O	2.11	0.50
32:BL:85:ASP:O	37:BQ:83:PHE:CD2	2.64	0.50
38:BR:45:TYR:HD1	38:BR:45:TYR:H	1.60	0.50
1:CA:1231:G:C8	13:CM:126:LYS:CG	2.95	0.50
1:CA:1234:C:C1'	1:CA:1364:U:H1'	2.42	0.50
1:CA:1373:G:N1	9:CI:109:VAL:HG22	2.26	0.50
1:CA:299:G:H2'	1:CA:300:A:C8	2.47	0.50
1:CA:358:U:H2'	1:CA:359:U:O4'	2.12	0.50
1:CA:694:A:H5'	11:CK:53:SER:CB	2.25	0.50
1:CA:868:C:H2'	1:CA:869:G:O4'	2.12	0.50
1:CA:953:G:N2	13:CM:120:LYS:HB3	2.26	0.50
4:CD:146:ILE:HB	4:CD:181:MET:O	2.11	0.50
4:CD:14:ARG:HG2	4:CD:66:ARG:HH12	1.76	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:CE:11:ILE:HG22	5:CE:12:LEU:HD12	1.93	0.50
6:CF:67:MET:SD	6:CF:72:VAL:HG22	2.51	0.50
1:CA:1374:A:HO2'	7:CG:28:ASN:C	2.11	0.50
8:CH:33:GLU:O	8:CH:36:LEU:HB2	2.11	0.50
8:CH:97:VAL:HG13	8:CH:98:LYS:N	2.27	0.50
9:CI:8:GLY:HA3	9:CI:76:ALA:O	2.11	0.50
11:CK:12:ARG:CZ	11:CK:34:ASP:HB3	2.41	0.50
1:CA:1230:C:C6	13:CM:125:ARG:NH1	2.40	0.50
13:CM:87:TYR:C	13:CM:90:LEU:CB	2.76	0.50
18:CR:31:LEU:O	18:CR:69:THR:HG21	2.12	0.50
1:CA:1013:G:P	19:CS:18:LYS:HD3	2.51	0.50
22:DB:84:G:H1'	22:DB:101:A:C2	2.47	0.50
22:DB:1161:U:H2'	22:DB:1162:A:H8	1.77	0.50
22:DB:1172:U:H4'	39:DS:8:GLY:H	1.77	0.50
22:DB:117:A:H5'	22:DB:118:U:O5'	2.12	0.50
22:DB:2040:A:N9	48:D2:3:LYS:C	2.64	0.50
22:DB:2398:U:H2'	22:DB:2399:C:H6	1.76	0.50
22:DB:340:G:H1'	22:DB:488:A:C5	2.46	0.50
22:DB:432:C:H2'	22:DB:433:G:C8	2.46	0.50
22:DB:44:G:H5''	22:DB:45:C:OP1	2.11	0.50
22:DB:607:C:O2'	33:DM:21:ARG:N	2.42	0.50
22:DB:703:A:H3'	22:DB:704:G:H8	1.77	0.50
22:DB:797:A:OP1	22:DB:2567:G:H5''	2.11	0.50
22:DB:880:C:H2'	22:DB:881:U:H5'	1.94	0.50
22:DB:1815:G:H5''	24:DD:54:ILE:CB	2.42	0.50
22:DB:2291:U:H5'	27:DG:85:VAL:O	1.97	0.50
28:DH:123:PHE:HA	28:DH:133:VAL:HG13	1.94	0.50
30:DJ:52:ILE:H	30:DJ:53:ILE:HD12	1.77	0.50
32:DL:20:MET:HB2	32:DL:56:LYS:HB2	1.94	0.50
34:DN:30:PHE:O	34:DN:131:LYS:HD3	2.12	0.50
35:DO:28:LEU:HA	35:DO:32:GLY:N	2.27	0.50
36:DP:97:HIS:NE2	36:DP:99:ARG:HB2	2.26	0.50
37:DQ:46:ARG:HG3	37:DQ:47:SER:H	1.76	0.50
39:DS:14:VAL:HG13	39:DS:17:GLY:N	2.26	0.50
22:DB:137:A:O2'	41:DU:36:THR:HG22	2.12	0.50
1:EA:1106:G:H2'	1:EA:1107:C:H6	1.77	0.50
1:EA:1137:C:O2'	1:EA:1138:G:H5''	2.11	0.50
1:EA:216:C:N4	1:EA:217:C:H41	2.10	0.50
1:EA:246:A:N1	1:EA:278:G:H1'	2.27	0.50
1:EA:34:C:H2'	1:EA:35:G:H8	1.76	0.50
1:EA:519:C:H5'	1:EA:520:A:OP2	2.11	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:EA:599:C:C4'	8:EH:100:ILE:CG1	2.88	0.50
1:EA:719:C:H3'	1:EA:720:C:C6	2.46	0.50
1:EA:429:U:H3'	4:ED:8:VAL:CG2	2.40	0.50
9:EI:25:LYS:HE2	9:EI:34:ASN:HD22	1.75	0.50
11:EK:123:LYS:HG2	11:EK:124:LYS:N	2.27	0.50
12:EL:5:PRO:HA	12:EL:10:LEU:CA	2.42	0.50
14:EN:18:VAL:HG23	14:EN:19:ARG:H	1.77	0.50
15:EO:57:LEU:HA	15:EO:60:VAL:HG23	1.91	0.50
1:EA:448:A:H2	16:EP:44:THR:HG21	1.76	0.50
22:FB:474:G:N2	50:F4:12:ARG:HH21	2.09	0.50
22:FB:3875:A:N7	53:F7:43:LYS:HG2	2.16	0.50
22:FB:1354:A:H3'	22:FB:1410:U:H3	1.77	0.50
22:FB:1906:U:H2'	22:FB:1907:C:C6	2.46	0.50
22:FB:1912:G:N3	22:FB:1912:G:H2'	2.27	0.50
22:FB:2037:A:C5	48:F2:5:PRO:HG2	2.43	0.50
22:FB:2265:A:H5''	22:FB:2266:A:O4'	2.12	0.50
22:FB:2647:G:C4'	28:FH:111:HIS:HD1	2.20	0.50
22:FB:2683:C:H2'	22:FB:2684:A:H8	1.74	0.50
22:FB:2716:G:N2	22:FB:2748:C:O2	2.43	0.50
22:FB:2791:C:H2'	22:FB:2792:C:H6	1.76	0.50
22:FB:2873:G:H2'	22:FB:2874:A:C8	2.46	0.50
22:FB:627:A:H2'	22:FB:628:A:N9	2.27	0.50
22:FB:638:A:H2'	22:FB:639:G:O4'	2.11	0.50
24:FD:119:ALA:CB	24:FD:129:ASN:HB2	2.41	0.50
26:FF:48:ARG:O	26:FF:83:ALA:HA	2.11	0.50
22:FB:2282:G:N2	27:FG:129:ASN:HB3	2.25	0.50
27:FG:45:GLU:HG3	27:FG:46:ASP:N	2.27	0.50
22:FB:2647:G:C1'	28:FH:111:HIS:HB2	2.41	0.50
28:FH:97:LYS:HG2	28:FH:125:VAL:HG11	1.94	0.50
31:FK:162:LYS:HD3	31:FK:162:LYS:N	2.26	0.50
31:FK:93:LYS:HD2	31:FK:93:LYS:H	1.77	0.50
35:FO:112:LEU:HD13	35:FO:113:ILE:N	2.22	0.50
35:FO:28:LEU:HA	35:FO:32:GLY:N	2.27	0.50
37:FQ:38:LYS:HB3	37:FQ:38:LYS:NZ	2.27	0.50
22:FB:348:U:H4'	42:FV:13:LYS:CB	2.38	0.50
22:FB:2240:C:C5'	44:FX:14:ARG:HG3	2.39	0.50
46:FZ:13:PRO:O	46:FZ:17:VAL:HG23	2.12	0.50
1:GA:137:C:H1'	1:GA:227:G:N2	2.27	0.50
1:GA:1423:G:H2'	1:GA:1424:C:C6	2.47	0.50
1:GA:1527:C:H2'	1:GA:1528:U:C6	2.46	0.50
1:GA:265:G:N9	17:GQ:64:PRO:O	2.39	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:GA:35:G:C1'	12:GL:118:SER:O	2.60	0.50
1:GA:519:C:H5'	1:GA:520:A:OP2	2.11	0.50
1:GA:569:C:H1'	1:GA:574:A:H2'	1.92	0.50
1:GA:666:G:N2	15:GO:49:ASP:CG	2.65	0.50
1:GA:944:G:N2	1:GA:1339:A:H5''	2.25	0.50
1:GA:9:G:H2'	1:GA:10:A:C8	2.46	0.50
1:GA:1191:A:P	3:GC:3:ASN:OD1	2.68	0.50
5:GE:78:HIS:HE1	5:GE:142:LEU:HD23	1.77	0.50
1:GA:108:G:C4	20:GT:15:ARG:HB3	2.47	0.50
49:H3:22:TYR:O	49:H3:23:THR:HB	2.12	0.50
53:H7:34:LEU:HD13	53:H7:165:VAL:HB	1.92	0.50
22:HB:1382:G:H2'	22:HB:1383:C:O4'	2.12	0.50
22:HB:1483:G:C2'	22:HB:1484:G:C1'	2.89	0.50
22:HB:1795:C:H2'	22:HB:1796:A:C8	2.43	0.50
22:HB:1976:U:C1'	25:HE:128:SER:OG	2.30	0.50
22:HB:1978:U:C3'	22:HB:1979:C:H5''	2.39	0.50
22:HB:2309:G:O3'	44:HX:71:ASN:ND2	2.39	0.50
22:HB:2340:C:H5''	51:H5:26:LYS:NZ	2.26	0.50
22:HB:2786:G:C4'	25:HE:61:LYS:HD2	2.39	0.50
22:HB:2807:U:H5	22:HB:2859:U:H5''	1.77	0.50
22:HB:420:C:OP1	53:H7:198:THR:HG21	2.11	0.50
22:HB:505:G:N3	40:HT:78:ASN:HA	2.27	0.50
22:HB:718:A:H61	22:HB:739:G:C1'	2.15	0.50
22:HB:863:C:O4'	46:HZ:18:LYS:CB	2.54	0.50
24:HD:146:GLU:OE1	24:HD:189:CYS:HB3	2.12	0.50
24:HD:243:GLY:C	24:HD:245:VAL:H	2.14	0.50
22:HB:1787:U:O2'	24:HD:254:THR:HA	2.11	0.50
22:HB:2763:U:O3'	25:HE:40:GLN:CG	2.59	0.50
27:HG:45:GLU:HG3	27:HG:46:ASP:N	2.27	0.50
30:HJ:100:ASN:HB3	30:HJ:103:GLN:HB3	1.94	0.50
30:HJ:52:ILE:H	30:HJ:53:ILE:HD12	1.76	0.50
22:HB:818:G:C4'	33:HM:41:SER:C	2.76	0.50
37:HQ:71:ILE:HG22	37:HQ:72:SER:O	2.10	0.50
46:HZ:13:PRO:HB2	46:HZ:15:ASN:OD1	2.12	0.50
1:IA:1118:C:H5''	9:II:9:ARG:CD	2.42	0.50
1:IA:1405:G:H21	1:IA:1517:G:N2	2.09	0.50
1:IA:373:A:H61	1:IA:482:A:H62	1.60	0.50
1:IA:629:G:O2'	1:IA:630:G:H4'	2.12	0.50
1:IA:961:U:H5	1:IA:1222:G:H22	1.59	0.50
1:IA:9:G:H2'	1:IA:10:A:C8	2.46	0.50
2:IB:176:GLU:HG3	2:IB:179:LYS:HZ1	1.76	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:ID:126:ILE:HG23	4:ID:148:VAL:HA	1.94	0.50
5:IE:127:ASN:CG	5:IE:130:ASN:HB2	2.32	0.50
11:IK:123:LYS:HG2	11:IK:124:LYS:N	2.27	0.50
22:JB:29:U:O2	22:JB:1228:G:H4'	2.11	0.50
22:JB:1795:C:H2'	22:JB:1796:A:C8	2.43	0.50
22:JB:2015:G:H4'	22:JB:2016:A:OP1	2.11	0.50
22:JB:2042:A:OP1	26:JF:64:THR:C	2.49	0.50
22:JB:219:G:H5''	51:J5:62:LEU:HD12	1.94	0.50
22:JB:2344:G:H4'	44:JX:66:LYS:CG	2.40	0.50
22:JB:238:G:H2'	22:JB:239:A:C8	2.47	0.50
22:JB:2487:G:H2'	22:JB:2488:G:H8	1.75	0.50
22:JB:2532:G:H2'	22:JB:2533:U:O4'	2.11	0.50
22:JB:2737:A:H8	52:J6:18:ARG:HD3	1.74	0.50
22:JB:391:C:H2'	22:JB:392:G:H8	1.75	0.50
22:JB:432:C:H2'	22:JB:433:G:C8	2.47	0.50
22:JB:489:A:OP1	42:JV:5:SER:HA	2.10	0.50
22:JB:661:C:H2'	22:JB:662:G:C8	2.45	0.50
22:JB:765:C:C5'	50:J4:1:MET:HB2	2.41	0.50
22:JB:922:A:N3	22:JB:2244:C:O4'	2.44	0.50
22:JB:986:A:H5'	39:JS:78:VAL:CB	2.41	0.50
24:JD:146:GLU:OE1	24:JD:189:CYS:HB3	2.11	0.50
22:JB:2372:A:H4'	33:JM:60:LEU:O	2.11	0.50
34:JN:54:VAL:HG23	34:JN:55:MET:SD	2.51	0.50
38:JR:101:ARG:NH2	38:JR:102:GLU:HB2	2.25	0.50
39:JS:6:GLN:HG2	39:JS:7:THR:HG23	1.92	0.50
43:JW:67:LYS:HB2	43:JW:84:TYR:H	1.77	0.50
22:JB:2238:G:O6	44:JX:12:ASN:OD1	2.30	0.50
22:JB:1197:U:P	46:JZ:26:ARG:HB2	2.49	0.50
1:AA:1014:A:H5'	19:AS:15:LEU:HB3	1.92	0.50
1:AA:1106:G:H2'	1:AA:1107:C:H6	1.77	0.50
1:AA:1350:A:H2'	1:AA:1351:U:C6	2.47	0.50
1:AA:299:G:H2'	1:AA:300:A:C8	2.47	0.50
9:AI:11:LYS:H	9:AI:104:ARG:NE	2.09	0.50
12:AL:5:PRO:HA	12:AL:10:LEU:CA	2.41	0.50
12:AL:75:HIS:HB3	12:AL:102:ARG:CZ	2.42	0.50
13:AM:12:ASN:HA	13:AM:46:LYS:NZ	2.26	0.50
16:AP:71:ARG:HH21	16:AP:74:LEU:HB3	1.77	0.50
1:AA:279:A:H8	17:AQ:95:TYR:CE2	2.30	0.50
18:AR:44:LEU:HG	18:AR:45:SER:H	1.77	0.50
48:B2:34:PRO:CG	48:B2:52:TYR:HA	2.41	0.50
22:BB:1135:C:O2'	52:B6:4:ARG:HA	2.09	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:BA:106:U:H1'	43:BW:88:TYR:HD1	1.42	0.50
22:BB:829:C:C5'	22:BB:1176:U:O2'	2.54	0.50
22:BB:1879:G:H2'	22:BB:1880:G:H8	1.77	0.50
22:BB:2490:U:H4'	25:BE:124:GLY:N	2.27	0.50
22:BB:394:U:O2'	22:BB:395:G:H5'	2.12	0.50
22:BB:627:A:H2'	22:BB:628:A:N9	2.27	0.50
22:BB:84:G:H1'	22:BB:101:A:C2	2.47	0.50
26:BF:102:LEU:O	26:BF:106:MET:HG2	2.12	0.50
22:BB:2422:C:C5'	26:BF:62:LYS:HG3	2.42	0.50
30:BJ:41:PHE:O	30:BJ:42:ASN:HB2	2.12	0.50
36:BP:97:HIS:NE2	36:BP:99:ARG:HB2	2.26	0.50
37:BQ:80:VAL:HG23	37:BQ:111:ARG:NH2	2.26	0.50
38:BR:20:ARG:HH11	38:BR:22:LYS:HD3	1.76	0.50
46:BZ:13:PRO:O	46:BZ:17:VAL:HG23	2.12	0.50
1:CA:1106:G:H2'	1:CA:1107:C:H6	1.77	0.50
1:CA:1140:C:O2'	1:CA:1141:C:H5'	2.12	0.50
1:CA:1200:C:H4'	1:CA:1201:A:H3'	1.94	0.50
1:CA:216:C:N4	1:CA:217:C:H41	2.10	0.50
1:CA:246:A:N1	1:CA:278:G:H1'	2.27	0.50
1:CA:284:G:H2'	1:CA:285:G:C8	2.46	0.50
1:CA:34:C:H2'	1:CA:35:G:H8	1.77	0.50
4:CD:126:ILE:HG23	4:CD:148:VAL:HA	1.94	0.50
4:CD:99:SER:HB3	4:CD:140:VAL:HG11	1.94	0.50
6:CF:39:LYS:HE2	6:CF:64:GLN:HE22	1.77	0.50
7:CG:3:ARG:HG2	7:CG:3:ARG:HH11	1.76	0.50
1:CA:644:G:C2'	8:CH:90:GLY:H	2.24	0.50
9:CI:53:VAL:HG23	9:CI:55:ALA:H	1.77	0.50
9:CI:70:LYS:O	9:CI:74:ILE:HG13	2.12	0.50
10:CJ:85:LEU:O	10:CJ:88:LEU:HG	2.12	0.50
1:CA:1360:A:OP2	14:CN:21:TYR:HA	2.11	0.50
3:CC:14:ILE:HD11	14:CN:57:ARG:HH11	1.77	0.50
17:CQ:11:VAL:HA	17:CQ:85:VAL:HG13	1.94	0.50
1:CA:253:U:C2	17:CQ:15:MET:SD	3.03	0.50
1:CA:273:A:C4	17:CQ:16:GLN:OE1	2.59	0.50
18:CR:44:LEU:HG	18:CR:45:SER:H	1.77	0.50
48:D2:41:LEU:HD22	48:D2:44:HIS:ND1	2.27	0.50
22:DB:1128:G:O2'	22:DB:1129:A:H5'	2.12	0.50
22:DB:168:A:H61	22:DB:180:C:H2'	1.76	0.50
22:DB:1771:A:P	22:DB:1772:C:H3'	2.52	0.50
22:DB:2299:A:H5''	22:DB:2300:G:O5'	2.12	0.50
22:DB:2612:G:N2	25:DE:62:PRO:HB3	2.27	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:DB:2745:A:N3	22:DB:2746:G:O4'	2.45	0.50
22:DB:2791:C:H2'	22:DB:2792:C:H6	1.76	0.50
22:DB:840:U:H3'	22:DB:2409:A:N6	2.24	0.50
24:DD:55:GLY:HA2	24:DD:218:LYS:N	2.26	0.50
26:DF:102:LEU:O	26:DF:106:MET:HG2	2.12	0.50
26:DF:177:VAL:HG13	26:DF:180:ILE:HD11	1.92	0.50
26:DF:26:VAL:C	26:DF:27:LEU:HD22	2.32	0.50
27:DG:150:ARG:H	27:DG:150:ARG:HD2	1.76	0.50
32:DL:47:VAL:HG23	32:DL:76:ARG:HD3	1.92	0.50
37:DQ:38:LYS:HB3	37:DQ:38:LYS:NZ	2.27	0.50
37:DQ:71:ILE:HG22	37:DQ:72:SER:O	2.11	0.50
38:DR:41:ASN:C	38:DR:43:ALA:H	2.13	0.50
40:DT:73:ASN:HA	40:DT:76:LYS:HD3	1.93	0.50
43:DW:67:LYS:HB2	43:DW:84:TYR:H	1.77	0.50
46:DZ:16:GLN:HG2	46:DZ:46:THR:HG21	1.94	0.50
22:DB:863:C:H5'	46:DZ:18:LYS:HG2	1.90	0.50
22:DB:865:A:C4	46:DZ:39:ALA:HB2	2.05	0.50
1:EA:1072:G:H21	2:EB:111:ARG:NE	1.91	0.50
1:EA:1116:C:C2'	1:EA:1117:G:H5''	2.41	0.50
1:EA:111:G:C5'	16:EP:27:LYS:HB3	2.42	0.50
1:EA:125:U:O3'	1:EA:605:U:C1'	2.53	0.50
1:EA:1264:C:H4'	1:IA:1273:G:N1	2.24	0.50
1:EA:1447:A:H2'	1:EA:1447:A:N3	2.27	0.50
1:EA:299:G:H2'	1:EA:300:A:C8	2.47	0.50
1:EA:521:G:C5'	12:EL:72:GLY:N	2.75	0.50
1:EA:632:A:N3	17:EQ:30:PRO:HB3	1.98	0.50
1:EA:1057:G:H5'	3:EC:196:LEU:HD22	1.93	0.50
1:EA:407:G:HO2'	4:ED:116:GLN:CD	2.05	0.50
1:EA:437:U:O2'	4:ED:119:GLN:OE1	2.30	0.50
4:ED:28:SER:N	4:ED:29:PRO:HD3	2.27	0.50
9:EI:29:ASN:HD21	9:EI:64:THR:CG2	2.22	0.50
10:EJ:9:ARG:N	10:EJ:94:VAL:HG13	2.22	0.50
15:EO:70:LEU:HD22	15:EO:70:LEU:N	2.27	0.50
1:EA:391:G:C4'	16:EP:8:ARG:HH21	2.20	0.50
19:ES:6:LYS:HB3	19:ES:7:LYS:HZ3	1.76	0.50
22:FB:1044:U:C5	52:F6:16:VAL:CG1	2.95	0.50
52:F6:31:LYS:HG3	52:F6:32:HIS:CD2	2.47	0.50
22:FB:1879:G:H2'	22:FB:1880:G:H8	1.77	0.50
22:FB:1915:A:N3	22:FB:1915:A:H2'	2.27	0.50
22:FB:2341:G:H2'	22:FB:2342:U:C6	2.46	0.50
22:FB:2629:U:H5'	32:FL:29:ILE:HA	1.94	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:FB:2807:U:H5	22:FB:2859:U:H5''	1.77	0.50
22:FB:3116:G:P	22:FB:3166:G:H21	2.34	0.50
22:FB:3176:A:HO2'	53:F7:33:ILE:HG22	1.74	0.50
22:FB:3177:C:O3'	53:F7:163:PRO:CG	2.59	0.50
22:FB:487:G:N2	22:FB:491:A:N6	2.54	0.50
22:FB:840:U:H3'	22:FB:2409:A:N6	2.24	0.50
22:FB:940:G:OP1	46:FZ:35:SER:HB2	2.12	0.50
24:FD:166:GLN:HB2	24:FD:174:ILE:HG22	1.94	0.50
22:FB:1673:C:C6	25:FE:136:ARG:HH22	1.56	0.50
25:FE:91:VAL:HG23	25:FE:180:ASN:HB3	1.93	0.50
26:FF:147:LYS:HB2	26:FF:183:HIS:HA	1.92	0.50
27:FG:103:LEU:C	27:FG:105:ASN:H	2.14	0.50
32:FL:114:VAL:HG22	32:FL:132:GLU:O	2.12	0.50
34:FN:125:LYS:O	34:FN:126:LEU:HD23	2.10	0.50
34:FN:26:ASP:HB3	34:FN:100:PRO:HB3	1.92	0.50
22:FB:1293:A:P	35:FO:33:ARG:NE	2.84	0.50
37:FQ:80:VAL:HG23	37:FQ:111:ARG:NH2	2.26	0.50
22:FB:546:A:C4'	38:FR:57:PHE:HZ	1.99	0.50
22:FB:503:G:H4'	40:FT:29:LYS:CD	2.41	0.50
22:FB:2238:G:C2'	44:FX:14:ARG:NH1	2.70	0.50
44:FX:41:ARG:HH22	44:FX:69:PHE:HD2	1.60	0.50
1:GA:1067:A:H4'	1:GA:1387:G:C4'	2.42	0.50
1:GA:128:G:H1'	17:GQ:4:LYS:HD3	1.92	0.50
1:GA:1320:C:H1'	19:GS:73:GLU:CB	2.33	0.50
1:GA:335:C:H5'	1:GA:1434:A:HO2'	1.77	0.50
1:GA:251:G:H2'	17:GQ:67:LYS:NZ	2.26	0.50
1:GA:299:G:H2'	1:GA:300:A:C8	2.47	0.50
1:GA:318:G:H2'	1:GA:319:G:H8	1.77	0.50
1:GA:34:C:H2'	1:GA:35:G:H8	1.76	0.50
1:GA:373:A:H61	1:GA:482:A:H62	1.60	0.50
1:GA:520:A:OP1	12:GL:52:LEU:CB	2.60	0.50
1:GA:629:G:O2'	1:GA:630:G:H4'	2.12	0.50
1:GA:694:A:H5'	11:GK:53:SER:CA	2.41	0.50
1:GA:865:A:H2	1:GA:918:A:H4'	1.77	0.50
2:GB:187:LEU:HD11	2:GB:204:ASN:N	2.26	0.50
2:GB:32:ILE:HG21	2:GB:40:HIS:HB3	1.93	0.50
3:GC:188:LEU:HD13	3:GC:189:ALA:N	2.26	0.50
4:GD:107:ARG:HH11	4:GD:107:ARG:CA	2.18	0.50
4:GD:146:ILE:HB	4:GD:181:MET:O	2.11	0.50
4:GD:173:TRP:HE3	4:GD:193:ASP:HB3	1.77	0.50
1:GA:7:G:C5	5:GE:119:LEU:HD22	2.46	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:GG:149:ARG:C	11:GK:59:TYR:CE2	2.54	0.50
1:GA:129:U:C6	17:GQ:3:LYS:HE2	2.41	0.50
22:HB:2039:G:N2	48:H2:5:PRO:HD3	2.27	0.50
22:HB:1067:G:N2	22:HB:1114:A:H61	2.10	0.50
22:HB:1128:G:O2'	22:HB:1129:A:H5'	2.12	0.50
22:HB:116:A:H2'	22:HB:118:U:C5	2.45	0.50
22:HB:1271:C:H2'	22:HB:1272:G:C8	2.46	0.50
22:HB:1367:A:H2'	22:HB:1368:G:O4'	2.11	0.50
22:HB:1565:G:H2'	22:HB:1566:G:H8	1.74	0.50
22:HB:1779:C:H2'	22:HB:1780:A:O4'	2.10	0.50
22:HB:1829:C:H4'	22:HB:1910:A:H2'	1.93	0.50
22:HB:1841:G:H2'	22:HB:1842:G:C8	2.44	0.50
22:HB:1784:C:O2'	22:HB:1883:A:N6	2.45	0.50
22:HB:1906:U:H2'	22:HB:1907:C:C6	2.47	0.50
22:HB:2399:C:OP2	51:H5:32:GLN:HG2	2.10	0.50
22:HB:238:G:H2'	22:HB:239:A:C8	2.47	0.50
22:HB:2532:G:H2'	22:HB:2533:U:O4'	2.11	0.50
22:HB:10:A:N3	22:HB:2608:A:C2	2.79	0.50
22:HB:2661:G:H2'	22:HB:2661:G:N3	2.26	0.50
22:HB:2669:C:C5	35:HO:14:SER:O	2.65	0.50
22:HB:452:G:H2'	22:HB:453:U:C6	2.47	0.50
22:HB:652:C:H2'	22:HB:653:G:H5'	1.94	0.50
22:HB:665:A:H2'	22:HB:665:A:N3	2.26	0.50
22:HB:67:G:N3	22:HB:73:A:H1'	2.26	0.50
22:HB:987:G:H2'	22:HB:988:G:C8	2.46	0.50
22:HB:2551:A:OP2	25:HE:144:ARG:HB3	2.11	0.50
26:HF:102:LEU:O	26:HF:106:MET:HG2	2.12	0.50
22:HB:2647:G:H5'	28:HH:111:HIS:CE1	2.45	0.50
34:HN:114:GLN:HE21	34:HN:114:GLN:HA	1.76	0.50
35:HO:28:LEU:HA	35:HO:32:GLY:N	2.27	0.50
36:HP:108:ARG:HA	36:HP:111:GLY:O	2.11	0.50
37:HQ:110:LEU:HA	37:HQ:113:LYS:HE2	1.93	0.50
37:HQ:11:GLU:HG3	37:HQ:12:LEU:HD12	1.94	0.50
37:HQ:12:LEU:HA	37:HQ:16:ILE:CB	2.42	0.50
38:HR:54:LYS:HE2	38:HR:93:LYS:HZ3	1.75	0.50
1:IA:1392:G:O4'	1:IA:1531:A:C5'	2.57	0.50
1:IA:1528:U:H5'	1:IA:1529:G:H21	1.77	0.50
1:IA:1391:U:O2'	1:IA:1531:A:H4'	2.11	0.50
1:IA:610:G:H2'	1:IA:610:G:N3	2.26	0.50
1:IA:586:C:H4'	1:IA:878:G:H4'	1.92	0.50
1:IA:932:C:C5'	7:IG:4:ARG:CG	2.81	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:IA:965:A:N3	1:IA:965:A:H2'	2.26	0.50
2:IB:86:GLU:C	2:IB:88:ALA:H	2.14	0.50
4:ID:99:SER:HB3	4:ID:140:VAL:HG11	1.94	0.50
1:IA:1193:G:O5'	5:IE:25:ARG:NH2	2.44	0.50
14:IN:53:LEU:N	14:IN:53:LEU:HD23	2.25	0.50
18:IR:26:LEU:HB3	18:IR:28:GLU:OE2	2.11	0.50
1:IA:1457:A:C4'	20:IT:24:LEU:O	2.35	0.50
22:JB:2064:U:H5''	47:J1:35:VAL:HG21	1.75	0.50
51:J5:8:LYS:O	51:J5:11:LYS:HB2	2.11	0.50
53:J7:105:ARG:HA	53:J7:131:ARG:HD3	1.94	0.50
53:J7:113:ASN:HA	53:J7:138:LEU:HD11	1.94	0.50
53:J7:52:VAL:HG21	53:J7:190:ILE:HD11	1.93	0.50
23:JA:14:C:N4	44:JX:50:GLY:O	2.45	0.50
22:JB:1018:C:H5'	31:JK:63:ARG:HG3	1.92	0.50
22:JB:1117:G:H2'	22:JB:1118:G:O4'	2.11	0.50
22:JB:116:A:H2'	22:JB:118:U:C5	2.45	0.50
22:JB:1377:G:OP1	47:J1:3:LYS:NZ	2.38	0.50
22:JB:1453:A:C3'	22:JB:1454:U:P	2.99	0.50
22:JB:1565:G:H2'	22:JB:1566:G:H8	1.75	0.50
22:JB:1631:C:N3	40:JT:108:PRO:HD2	2.26	0.50
22:JB:1978:U:C3'	22:JB:1979:C:H5''	2.40	0.50
22:JB:2505:G:H1'	52:J6:2:LYS:HE3	1.78	0.50
22:JB:2669:C:N4	35:JO:15:SER:HA	2.26	0.50
22:JB:541:C:H5'	22:JB:542:A:H5''	1.94	0.50
22:JB:76:C:C5'	45:JY:56:VAL:HG21	2.41	0.50
22:JB:2491:C:O2	25:JE:140:SER:CB	2.59	0.50
25:JE:91:VAL:HG23	25:JE:180:ASN:HB3	1.93	0.50
27:JG:163:ASP:HA	27:JG:166:ALA:HB3	1.93	0.50
33:JM:68:VAL:O	33:JM:70:THR:HG22	2.11	0.50
35:JO:25:ALA:HA	35:JO:34:ILE:HD12	1.92	0.50
36:JP:108:ARG:HA	36:JP:111:GLY:O	2.11	0.50
1:IA:1463:C:OP1	37:JQ:117:ILE:HG12	2.11	0.50
37:JQ:12:LEU:HA	37:JQ:16:ILE:CB	2.42	0.50
37:JQ:46:ARG:HG3	37:JQ:47:SER:H	1.76	0.50
41:JU:16:ALA:HA	41:JU:20:MET:HB2	1.92	0.50
42:JV:105:ARG:HB3	42:JV:113:THR:O	2.12	0.50
43:JW:72:ASP:HB2	43:JW:78:PRO:HA	1.94	0.50
44:JX:32:LYS:HG3	44:JX:33:ALA:H	1.76	0.50
46:JZ:3:ILE:CB	46:JZ:33:GLU:HA	2.37	0.50
1:AA:1320:C:C4'	19:AS:73:GLU:HB3	2.42	0.50
1:AA:1373:G:O2'	7:AG:31:MET:CE	2.59	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:362:G:H2'	1:AA:362:G:N3	2.27	0.50
1:AA:497:A:O2'	1:AA:498:U:P	2.70	0.50
1:AA:560:U:H5''	1:AA:562:C:O5'	2.11	0.50
1:AA:586:C:H2'	1:AA:587:G:H8	1.76	0.50
1:AA:740:U:O2	15:AO:42:HIS:NE2	2.43	0.50
1:AA:876:G:C6	8:AH:3:THR:OG1	2.61	0.50
3:AC:206:GLU:HG2	3:AC:207:VAL:HG23	1.94	0.50
1:AA:6:G:N7	5:AE:119:LEU:CD1	2.75	0.50
6:AF:29:ALA:HA	6:AF:33:TYR:CD1	2.46	0.50
8:AH:114:THR:HB	8:AH:129:VAL:HB	1.94	0.50
10:AJ:23:ILE:HG23	10:AJ:85:LEU:HD22	1.94	0.50
10:AJ:85:LEU:HD23	10:AJ:88:LEU:HD12	1.92	0.50
10:AJ:85:LEU:O	10:AJ:88:LEU:HG	2.12	0.50
11:AK:123:LYS:HG2	11:AK:124:LYS:N	2.27	0.50
12:AL:90:VAL:CG1	12:AL:92:ASP:H	2.25	0.50
13:AM:29:ARG:HH12	13:AM:66:LEU:HD22	1.77	0.50
15:AO:62:GLN:HA	15:AO:65:ARG:HB2	1.94	0.50
52:B6:14:CYS:HB3	52:B6:25:VAL:HA	1.93	0.50
53:B7:5:LYS:NZ	53:B7:184:ILE:HG13	2.27	0.50
22:BB:1420:A:H2'	22:BB:1421:U:H5	1.76	0.50
22:BB:1771:A:P	22:BB:1772:C:H3'	2.52	0.50
22:BB:1804:U:C1'	24:BD:46:ARG:CD	2.78	0.50
22:BB:540:G:N7	22:BB:2019:C:P	2.85	0.50
22:BB:2465:G:C5'	34:BN:123:GLY:HA2	2.32	0.50
22:BB:2825:A:N3	35:BO:61:HIS:CG	2.77	0.50
22:BB:3196:G:H22	22:BB:2181:A:N6	2.03	0.50
22:BB:44:G:H5''	22:BB:45:C:OP1	2.11	0.50
22:BB:483:A:H2'	22:BB:484:G:H5'	1.93	0.50
22:BB:575:U:O4	39:BS:79:GLN:CB	2.54	0.50
22:BB:700:C:H4'	50:B4:3:ARG:C	2.24	0.50
22:BB:864:C:H2'	22:BB:865:A:C8	2.47	0.50
22:BB:887:G:H1'	43:BW:167:THR:N	2.27	0.50
22:BB:996:C:H2'	22:BB:997:C:C5	2.47	0.50
22:BB:1806:G:C4'	24:BD:52:ARG:HH22	2.25	0.50
25:BE:1:MET:H1	25:BE:200:SER:HB2	1.77	0.50
22:BB:1143:A:O5'	31:BK:111:LYS:HD2	2.10	0.50
22:BB:967:G:C5'	34:BN:76:THR:O	2.50	0.50
37:BQ:110:LEU:HA	37:BQ:113:LYS:HE2	1.93	0.50
37:BQ:11:GLU:HG3	37:BQ:12:LEU:HD12	1.94	0.50
39:BS:6:GLN:HG2	39:BS:7:THR:HG23	1.92	0.50
42:BV:99:VAL:HG12	42:BV:100:ASP:H	1.76	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:BB:492:G:H5''	42:BV:3:ARG:HH11	1.19	0.50
34:BN:29:ALA:N	43:BW:119:ASN:OD1	2.45	0.50
1:CA:1015:A:H2'	1:CA:1016:A:C8	2.47	0.50
1:CA:1348:U:P	9:CI:110:GLU:N	2.74	0.50
1:CA:1350:A:H2'	1:CA:1351:U:C6	2.47	0.50
1:CA:1392:G:O4'	1:CA:1531:A:H4'	2.12	0.50
1:CA:408:A:C5'	4:CD:112:VAL:CG1	2.90	0.50
1:CA:497:A:O2'	1:CA:498:U:P	2.70	0.50
1:CA:586:C:H2'	1:CA:587:G:H8	1.76	0.50
1:CA:780:A:H4'	1:CA:1523:G:C5'	2.42	0.50
1:CA:98:U:H2'	1:CA:99:C:O4'	2.12	0.50
3:CC:140:ARG:O	3:CC:143:GLU:HB3	2.12	0.50
3:CC:206:GLU:HG2	3:CC:207:VAL:HG23	1.94	0.50
5:CE:127:ASN:CG	5:CE:130:ASN:HB2	2.32	0.50
1:CA:1344:C:C2'	9:CI:120:ARG:HD3	2.41	0.50
13:CM:85:GLY:C	13:CM:90:LEU:N	2.62	0.50
15:CO:70:LEU:HD22	15:CO:70:LEU:N	2.27	0.50
51:D5:8:LYS:O	51:D5:11:LYS:HB2	2.11	0.50
22:DB:594:G:H1	22:DB:1266:G:P	2.35	0.50
22:DB:1314:A:H2'	22:DB:1315:A:H3'	1.92	0.50
22:DB:2385:U:O2'	22:DB:2386:G:H5''	2.11	0.50
22:DB:627:A:H2'	22:DB:628:A:N9	2.27	0.50
22:DB:638:A:H2'	22:DB:639:G:O4'	2.11	0.50
22:DB:990:A:H3'	22:DB:991:A:H5''	1.92	0.50
24:DD:119:ALA:CB	24:DD:129:ASN:HB2	2.41	0.50
22:DB:2597:G:N2	25:DE:154:LYS:HE3	2.27	0.50
22:DB:2752:C:C1'	25:DE:166:THR:HG21	2.38	0.50
26:DF:147:LYS:HB2	26:DF:183:HIS:HA	1.92	0.50
27:DG:163:ASP:HA	27:DG:166:ALA:HB3	1.93	0.50
31:DK:65:LYS:NZ	31:DK:65:LYS:HB3	2.27	0.50
31:DK:93:LYS:HD2	31:DK:93:LYS:H	1.77	0.50
22:DB:676:G:P	33:DM:27:ASP:OD2	2.64	0.50
22:DB:2394:G:O4'	33:DM:64:GLY:HA2	2.11	0.50
33:DM:68:VAL:O	33:DM:70:THR:HG22	2.11	0.50
33:DM:73:GLU:OE2	33:DM:105:PRO:HB2	2.11	0.50
22:DB:1041:G:C5'	34:DN:119:PHE:HE2	2.05	0.50
35:DO:12:ARG:HD3	35:DO:13:ASN:H	1.76	0.50
35:DO:25:ALA:HA	35:DO:34:ILE:HD12	1.92	0.50
38:DR:20:ARG:HH11	38:DR:22:LYS:HD3	1.76	0.50
39:DS:66:GLY:HA2	39:DS:93:ILE:HA	1.93	0.50
41:DU:23:GLY:O	41:DU:82:LEU:HD13	2.12	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:DX:41:ARG:HH22	44:DX:69:PHE:HD2	1.60	0.50
1:EA:1158:C:O2'	2:EB:133:LYS:CE	2.59	0.50
1:EA:1320:C:C4	19:ES:36:ARG:C	2.85	0.50
1:EA:585:G:H1'	1:EA:879:C:H5'	1.93	0.50
1:EA:932:C:H5'	7:EG:3:ARG:HB2	1.94	0.50
1:EA:1075:C:H5'	2:EB:103:THR:HG22	1.94	0.50
2:EB:132:LYS:O	2:EB:136:VAL:HB	2.12	0.50
5:EE:8:GLU:OE2	5:EE:34:VAL:HG22	2.12	0.50
6:EF:26:ILE:O	6:EF:30:LEU:HG	2.11	0.50
7:EG:27:ILE:HG12	7:EG:43:PHE:CZ	2.47	0.50
8:EH:114:THR:HB	8:EH:129:VAL:HB	1.94	0.50
9:EI:48:GLU:HB2	9:EI:78:LYS:NZ	2.25	0.50
14:EN:12:ARG:HD3	14:EN:13:THR:H	1.76	0.50
14:EN:46:GLU:HA	14:EN:49:HIS:CE1	2.47	0.50
16:EP:55:ARG:CZ	16:EP:58:TYR:HB2	2.42	0.50
18:ER:26:LEU:HB3	18:ER:28:GLU:OE2	2.11	0.50
49:F3:11:LYS:HB2	49:F3:11:LYS:NZ	2.25	0.50
22:FB:2262:C:P	49:F3:3:LYS:HZ3	2.34	0.50
22:FB:594:G:H1	22:FB:1266:G:P	2.35	0.50
22:FB:1746:A:H2'	22:FB:1747:G:H5'	1.94	0.50
22:FB:1954:A:N7	24:FD:239:ARG:HA	2.27	0.50
22:FB:2062:U:H4'	47:F1:32:HIS:CD2	2.45	0.50
22:FB:2576:G:H2'	22:FB:2577:A:C8	2.46	0.50
22:FB:338:G:N2	42:FV:77:HIS:NE2	2.59	0.50
22:FB:432:C:H2'	22:FB:433:G:C8	2.46	0.50
22:FB:44:G:H5''	22:FB:45:C:OP1	2.11	0.50
22:FB:591:G:OP2	38:FR:32:TYR:CZ	2.55	0.50
22:FB:703:A:H3'	22:FB:704:G:H8	1.77	0.50
22:FB:864:C:H2'	22:FB:865:A:C8	2.47	0.50
22:FB:996:C:H2'	22:FB:997:C:C5	2.47	0.50
22:FB:2658:A:O2'	25:FE:188:ILE:N	2.44	0.50
25:FE:24:THR:HG22	25:FE:25:VAL:N	2.26	0.50
22:FB:2763:U:C3'	25:FE:41:THR:HG22	2.42	0.50
22:FB:597:U:OP1	33:FM:28:LYS:CA	2.60	0.50
22:FB:1290:A:C2'	35:FO:24:GLN:HG2	2.42	0.50
22:FB:1005:U:H3'	38:FR:51:ARG:HH22	1.77	0.50
40:FT:73:ASN:HA	40:FT:76:LYS:HD3	1.93	0.50
1:GA:1447:A:N3	1:GA:1447:A:H2'	2.27	0.50
1:GA:1405:G:H21	1:GA:1517:G:N2	2.09	0.50
1:GA:544:G:P	4:GD:66:ARG:HH21	2.34	0.50
1:GA:610:G:H2'	1:GA:610:G:N3	2.26	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:GA:718:G:C4	11:GK:116:HIS:CG	3.00	0.50
1:GA:922:G:C6	1:GA:1395:C:N4	2.60	0.50
3:GC:40:ARG:HH11	3:GC:40:ARG:HG3	1.77	0.50
4:GD:148:VAL:HG12	4:GD:152:SER:HB2	1.94	0.50
8:GH:52:ASP:HA	8:GH:57:PRO:HB3	1.93	0.50
9:GI:8:GLY:HA3	9:GI:76:ALA:O	2.12	0.50
12:GL:75:HIS:HB3	12:GL:102:ARG:CZ	2.42	0.50
12:GL:83:VAL:HA	12:GL:105:TYR:CB	2.42	0.50
13:GM:77:ASN:HA	13:GM:80:ARG:CZ	2.42	0.50
16:GP:4:ILE:HA	16:GP:20:VAL:O	2.11	0.50
47:H1:31:ILE:HG23	47:H1:32:HIS:N	2.20	0.50
22:HB:1998:A:C8	48:H2:6:VAL:CG1	2.92	0.50
53:H7:105:ARG:HA	53:H7:131:ARG:HD3	1.94	0.50
53:H7:54:LEU:HD12	53:H7:153:ARG:O	2.11	0.50
22:HB:84:G:H1'	22:HB:101:A:C2	2.46	0.50
22:HB:1071:U:P	30:HJ:74:MET:HE1	2.52	0.50
22:HB:594:G:H1	22:HB:1266:G:P	2.35	0.50
22:HB:131:C:H2'	22:HB:132:U:C6	2.46	0.50
22:HB:1747:G:OP2	37:HQ:126:LYS:HB3	2.12	0.50
22:HB:1994:U:O5'	40:HT:120:ARG:HB3	2.10	0.50
22:HB:2029:G:H4'	48:H2:19:ARG:CD	2.31	0.50
22:HB:216:U:H1'	22:HB:632:A:H8	1.76	0.50
22:HB:2311:U:C4'	22:HB:2315:A:H62	2.20	0.50
22:HB:3093:C:H1'	22:HB:2181:A:H61	0.69	0.50
22:HB:338:G:O3'	42:HV:9:HIS:HB3	2.10	0.50
26:HF:177:VAL:HG13	26:HF:180:ILE:HD11	1.93	0.50
30:HJ:111:LYS:HZ3	30:HJ:111:LYS:HB3	1.77	0.50
31:HK:65:LYS:HB3	31:HK:65:LYS:NZ	2.27	0.50
33:HM:67:ASN:CG	51:H5:11:LYS:NZ	2.63	0.50
22:HB:1020:A:O2'	38:HR:62:ILE:HG21	2.10	0.50
39:HS:66:GLY:HA2	39:HS:93:ILE:HA	1.93	0.50
42:HV:33:THR:O	42:HV:35:LYS:HG3	2.12	0.50
46:HZ:16:GLN:HG2	46:HZ:46:THR:HG21	1.94	0.50
46:HZ:4:LYS:O	46:HZ:5:LEU:HD12	2.11	0.50
1:IA:1194:U:H4'	5:IE:22:GLY:C	2.26	0.50
1:IA:1200:C:H4'	1:IA:1201:A:H3'	1.94	0.50
1:IA:1372:U:O2	7:IG:34:GLY:O	2.30	0.50
1:IA:33:A:H4'	1:IA:363:A:O2'	2.12	0.50
1:IA:620:C:H5''	4:ID:138:TYR:CZ	2.46	0.50
1:IA:673:G:H4'	6:IF:87:ARG:HH21	1.77	0.50
1:IA:865:A:H2	1:IA:918:A:H4'	1.77	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:II:53:VAL:HG23	9:II:55:ALA:H	1.77	0.50
12:IL:84:LEU:HB3	12:IL:101:VAL:O	2.11	0.50
12:IL:35:GLY:H	12:IL:85:ILE:HD11	1.76	0.50
15:IO:70:LEU:N	15:IO:70:LEU:HD22	2.27	0.50
16:IP:71:ARG:HH21	16:IP:74:LEU:HB3	1.77	0.50
22:JB:3166:G:H3'	53:J7:97:LYS:HB2	1.92	0.50
22:JB:1049:C:N4	22:JB:1129:A:N6	2.60	0.50
22:JB:1271:C:H2'	22:JB:1272:G:C8	2.46	0.50
22:JB:13:A:H2'	22:JB:15:G:O6	2.11	0.50
22:JB:1771:A:P	22:JB:1772:C:H3'	2.52	0.50
22:JB:2042:A:O2'	26:JF:62:LYS:HB2	2.12	0.50
22:JB:2284:U:H3'	22:JB:2286:G:H8	1.75	0.50
22:JB:2259:G:C2'	22:JB:2367:A:C2	2.95	0.50
22:JB:2661:G:N3	22:JB:2661:G:H2'	2.26	0.50
22:JB:2692:A:H2'	35:JO:14:SER:OG	2.12	0.50
22:JB:1750:A:H5''	22:JB:2695:C:O2'	2.12	0.50
22:JB:2727:G:N1	22:JB:2735:C:H5''	2.26	0.50
22:JB:2807:U:H5	22:JB:2859:U:H5''	1.77	0.50
22:JB:367:G:H2'	22:JB:368:A:H8	1.77	0.50
22:JB:641:G:O6	51:J5:15:LYS:HE2	2.11	0.50
22:JB:665:A:H2'	22:JB:665:A:N3	2.26	0.50
22:JB:987:G:H2'	22:JB:988:G:C8	2.46	0.50
22:JB:2293:G:H4'	27:JG:33:LYS:HE2	1.91	0.50
28:JH:68:THR:C	28:JH:70:THR:H	2.13	0.50
30:JJ:125:ASN:HD22	30:JJ:126:THR:N	2.06	0.50
30:JJ:129:GLY:HA3	30:JJ:132:ARG:NH1	2.22	0.50
31:JK:110:LEU:HG	31:JK:111:LYS:H	1.77	0.50
32:JL:47:VAL:HG23	32:JL:76:ARG:HD3	1.92	0.50
34:JN:43:ILE:CG2	34:JN:48:ILE:HB	2.42	0.50
22:JB:2313:G:HO2'	36:JP:15:ARG:HH11	1.48	0.50
40:JT:27:VAL:HG23	40:JT:124:ILE:HG22	1.94	0.50
40:JT:91:PHE:HZ	40:JT:133:ASN:HB2	1.77	0.50
1:AA:22:G:H21	1:AA:913:A:H2	1.59	0.50
1:AA:230:G:H4'	16:AP:26:ARG:HH21	1.77	0.50
1:AA:60:A:C8	20:AT:11:SER:OG	2.42	0.50
1:AA:951:G:H22	13:AM:125:ARG:CD	2.25	0.50
1:AA:967:C:H2'	1:AA:968:A:C5	2.46	0.50
4:AD:148:VAL:HG12	4:AD:152:SER:HB2	1.94	0.50
5:AE:127:ASN:CG	5:AE:130:ASN:HB2	2.32	0.50
8:AH:111:ILE:HG23	8:AH:120:THR:HA	1.94	0.50
8:AH:65:TYR:O	8:AH:79:VAL:HG23	2.11	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:948:C:OP1	13:AM:108:ARG:HB2	2.11	0.50
1:AA:1202:G:O2'	14:AN:27:CYS:O	2.29	0.50
1:AA:1202:G:C2	14:AN:42:ILE:CG2	2.94	0.50
16:AP:55:ARG:CZ	16:AP:58:TYR:HB2	2.42	0.50
17:AQ:9:VAL:H	17:AQ:21:VAL:HG12	1.76	0.50
20:AT:15:ARG:HG2	20:AT:18:GLN:OE1	2.12	0.50
47:B1:49:PHE:H	47:B1:69:ARG:CG	2.23	0.50
22:BB:988:G:HO2'	22:BB:1012:A:H2	1.58	0.50
22:BB:1063:C:H2'	22:BB:1064:C:C6	2.47	0.50
22:BB:1081:A:O4'	30:BJ:11:GLN:OE1	2.29	0.50
22:BB:1143:A:H1'	31:BK:101:THR:HB	1.86	0.50
22:BB:1397:A:C4	22:BB:1418:C:C6	3.00	0.50
22:BB:1746:A:H2'	22:BB:1747:G:H5'	1.94	0.50
22:BB:1827:G:N2	22:BB:1914:U:O4	2.45	0.50
22:BB:1992:G:H5'	40:BT:62:ARG:CB	2.40	0.50
22:BB:922:A:N3	22:BB:2243:C:C2'	2.75	0.50
22:BB:2341:G:H2'	22:BB:2342:U:C6	2.46	0.50
22:BB:2721:A:H61	22:BB:2742:G:N2	2.09	0.50
22:BB:2756:A:C6	22:BB:2762:G:H1'	2.47	0.50
22:BB:452:G:H2'	22:BB:453:U:C6	2.47	0.50
22:BB:215:G:C4'	22:BB:618:A:C4'	2.89	0.50
22:BB:638:A:H2'	22:BB:639:G:O4'	2.12	0.50
22:BB:718:A:N1	22:BB:740:A:O4'	2.45	0.50
22:BB:797:A:OP1	22:BB:2567:G:H5''	2.11	0.50
24:BD:146:GLU:OE1	24:BD:189:CYS:HB3	2.11	0.50
24:BD:166:GLN:HB2	24:BD:174:ILE:HG22	1.94	0.50
22:BB:2753:C:O2'	25:BE:163:GLU:HG2	2.11	0.50
28:BH:6:LYS:HZ2	28:BH:7:GLN:H	1.60	0.50
22:BB:1143:A:OP2	31:BK:111:LYS:HE2	2.11	0.50
22:BB:1149:G:P	31:BK:130:ALA:HA	2.45	0.50
22:BB:1148:G:P	31:BK:132:PHE:CE2	2.94	0.50
23:BA:92:G:H2'	34:BN:22:ALA:HA	1.94	0.50
35:BO:13:ASN:HB2	35:BO:16:ALA:HB2	1.93	0.50
39:BS:66:GLY:HA2	39:BS:93:ILE:HA	1.93	0.50
40:BT:27:VAL:HG23	40:BT:125:THR:H	1.76	0.50
22:BB:886:A:C1'	43:BW:167:THR:HG21	2.40	0.50
43:BW:19:ILE:HG13	43:BW:20:ALA:N	2.26	0.50
1:CA:986:A:H5'	19:CS:55:LYS:HE3	1.94	0.50
2:CB:142:LEU:O	2:CB:146:GLN:HG3	2.12	0.50
2:CB:152:PHE:HZ	2:CB:159:PRO:HD3	1.77	0.50
2:CB:23:ARG:HD3	2:CB:24:TRP:N	2.27	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:CD:148:VAL:HG12	4:CD:152:SER:HB2	1.94	0.50
5:CE:78:HIS:HE1	5:CE:142:LEU:HD23	1.77	0.50
6:CF:29:ALA:HA	6:CF:33:TYR:CD1	2.46	0.50
1:CA:1187:G:P	9:CI:113:LYS:NZ	2.85	0.50
10:CJ:23:ILE:HG23	10:CJ:85:LEU:HD22	1.94	0.50
1:CA:1279:A:P	10:CJ:99:LYS:HZ3	2.28	0.50
11:CK:123:LYS:HD3	11:CK:123:LYS:N	2.23	0.50
12:CL:5:PRO:HA	12:CL:10:LEU:CA	2.41	0.50
13:CM:88:ARG:NH2	13:CM:99:ARG:HB2	2.27	0.50
1:CA:742:G:OP1	15:CO:58:MET:SD	2.70	0.50
19:CS:15:LEU:HA	19:CS:18:LYS:HE3	1.94	0.50
49:D3:49:VAL:HG12	49:D3:51:ARG:HG3	1.94	0.50
22:DB:1042:G:H5'	52:D6:8:LYS:HZ3	1.67	0.50
22:DB:1078:A:C2	30:DJ:26:ALA:CB	2.94	0.50
22:DB:1145:C:H3'	22:DB:1147:G:OP1	2.11	0.50
22:DB:1166:A:C6	22:DB:1168:G:C4	3.00	0.50
22:DB:1694:A:H3'	22:DB:1695:U:C6	2.47	0.50
22:DB:2063:A:O5'	47:D1:20:VAL:CG1	2.55	0.50
22:DB:2341:G:H2'	22:DB:2342:U:C6	2.46	0.50
22:DB:2325:A:H1'	22:DB:2362:G:C8	2.47	0.50
22:DB:2399:C:H6	51:D5:32:GLN:HB3	1.76	0.50
22:DB:2576:G:H2'	22:DB:2577:A:C8	2.46	0.50
22:DB:2873:G:H2'	22:DB:2874:A:C8	2.46	0.50
25:DE:117:MET:HE2	25:DE:118:LYS:HG2	1.94	0.50
25:DE:24:THR:HG22	25:DE:25:VAL:N	2.26	0.50
28:DH:148:VAL:HB	28:DH:152:ARG:NE	2.25	0.50
30:DJ:111:LYS:HZ1	30:DJ:115:LEU:HG	1.75	0.50
22:DB:565:A:N6	31:DK:73:ASN:ND2	2.60	0.50
34:DN:114:GLN:HA	34:DN:114:GLN:HE21	1.76	0.50
23:DA:92:G:N2	34:DN:40:PRO:HD3	2.27	0.50
37:DQ:11:GLU:HA	37:DQ:14:ARG:O	2.11	0.50
38:DR:45:TYR:HD1	38:DR:45:TYR:H	1.60	0.50
40:DT:106:LEU:HA	40:DT:117:ILE:CD1	2.42	0.50
22:DB:915:C:O5'	43:DW:163:ASP:OD2	2.30	0.50
1:EA:1200:C:H4'	1:EA:1201:A:H3'	1.94	0.50
1:EA:1350:A:H2'	1:EA:1351:U:C6	2.47	0.50
1:EA:1405:G:H21	1:EA:1517:G:N2	2.09	0.50
1:EA:284:G:H2'	1:EA:285:G:C8	2.46	0.50
1:EA:59:A:H5''	1:EA:387:U:H5''	1.94	0.50
1:EA:518:C:N3	12:EL:50:SER:HB3	2.26	0.50
1:EA:673:G:C5'	6:EF:87:ARG:HE	2.22	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:EA:786:G:H2'	1:EA:787:A:O4'	2.11	0.50
5:EE:11:ILE:HG22	5:EE:12:LEU:HD12	1.93	0.50
6:EF:24:GLU:HA	6:EF:27:GLN:HG2	1.93	0.50
8:EH:9:MET:SD	8:EH:32:LYS:HB3	2.52	0.50
9:EI:8:GLY:HA3	9:EI:76:ALA:O	2.12	0.50
13:EM:57:ARG:HG3	13:EM:61:GLU:OE2	2.12	0.50
9:EI:111:ARG:CD	14:EN:61:TRP:C	2.81	0.50
1:EA:243:A:C1'	17:EQ:99:SER:HB2	2.22	0.50
48:F2:41:LEU:HD22	48:F2:44:HIS:ND1	2.27	0.50
49:F3:22:TYR:O	49:F3:23:THR:HB	2.12	0.50
22:FB:1135:C:HO2'	52:F6:4:ARG:CB	2.25	0.50
22:FB:3177:C:C5'	53:F7:35:THR:HG22	2.37	0.50
53:F7:5:LYS:NZ	53:F7:184:ILE:HG13	2.27	0.50
22:FB:1063:C:H2'	22:FB:1064:C:C6	2.47	0.50
22:FB:1128:G:O2'	22:FB:1129:A:H5'	2.12	0.50
22:FB:1161:U:H2'	22:FB:1162:A:H8	1.77	0.50
22:FB:1314:A:H2'	22:FB:1316:G:OP2	2.11	0.50
22:FB:16:G:H2'	22:FB:17:G:C8	2.46	0.50
22:FB:200:A:N1	22:FB:421:G:H5'	2.26	0.50
22:FB:2258:G:O4'	22:FB:2306:A:O2'	2.29	0.50
22:FB:2385:U:O2'	22:FB:2386:G:H5''	2.11	0.50
22:FB:2551:A:N6	25:FE:144:ARG:HB3	1.84	0.50
22:FB:2856:U:O4'	35:FO:93:GLY:HA3	2.11	0.50
22:FB:64:C:C4	41:FU:65:VAL:N	2.61	0.50
22:FB:869:C:H1'	44:FX:24:LYS:HB3	1.94	0.50
22:FB:1781:C:H4'	24:FD:209:ALA:HB2	1.94	0.50
32:FL:90:ARG:HA	32:FL:90:ARG:NE	2.27	0.50
33:FM:109:LEU:HD12	33:FM:128:ALA:HB1	1.93	0.50
34:FN:43:ILE:CG2	34:FN:48:ILE:HB	2.42	0.50
43:FW:3:LEU:HG	43:FW:56:VAL:HG22	1.94	0.50
43:FW:84:TYR:HB2	43:FW:93:GLU:CG	2.37	0.50
22:FB:2240:C:N4	44:FX:13:GLY:CA	2.64	0.50
46:FZ:16:GLN:HG2	46:FZ:46:THR:HG21	1.94	0.50
1:GA:105:G:O6	20:GT:14:LYS:HE3	2.09	0.50
1:GA:1200:C:H4'	1:GA:1201:A:H3'	1.94	0.50
1:GA:127:G:H21	17:GQ:4:LYS:HD2	1.51	0.50
1:GA:187:G:H1'	1:GA:190:A:N6	2.26	0.50
1:GA:246:A:N1	1:GA:278:G:H1'	2.27	0.50
1:GA:323:U:O2'	20:GT:19:SER:HA	1.92	0.50
1:GA:33:A:H4'	1:GA:363:A:O2'	2.12	0.50
1:GA:511:C:O2	4:GD:43:HIS:CE1	2.64	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:GA:757:U:H2'	1:GA:758:G:C8	2.47	0.50
1:GA:922:G:N9	5:GE:19:MET:SD	2.63	0.50
1:GA:994:A:C2	1:GA:1216:G:H5''	2.47	0.50
3:GC:113:ALA:N	3:GC:114:PRO:CD	2.74	0.50
3:GC:64:VAL:HG12	3:GC:65:ALA:N	2.27	0.50
10:GJ:34:VAL:HG12	10:GJ:35:SER:N	2.26	0.50
10:GJ:85:LEU:O	10:GJ:88:LEU:HG	2.12	0.50
11:GK:12:ARG:CZ	11:GK:34:ASP:HB3	2.41	0.50
12:GL:75:HIS:HB2	12:GL:108:ALA:CB	2.41	0.50
12:GL:52:LEU:O	12:GL:53:ARG:HD2	2.12	0.50
12:GL:84:LEU:HB3	12:GL:101:VAL:O	2.11	0.50
13:GM:109:THR:HG23	13:GM:110:ARG:HD2	1.94	0.50
13:GM:29:ARG:HH12	13:GM:66:LEU:HD22	1.77	0.50
22:HB:1277:G:OP1	48:H2:11:THR:OG1	2.29	0.50
49:H3:35:LEU:HD21	49:H3:37:LEU:HD13	1.93	0.50
52:H6:14:CYS:HB3	52:H6:25:VAL:HA	1.94	0.50
22:HB:1063:C:H2'	22:HB:1064:C:C6	2.47	0.50
22:HB:1250:A:H2'	22:HB:1250:A:N3	2.26	0.50
22:HB:13:A:H2'	22:HB:15:G:O6	2.11	0.50
1:GA:270:A:H5'	22:HB:1738:U:H1'	1.93	0.50
22:HB:1989:C:O2'	22:HB:2798:A:C1'	2.58	0.50
22:HB:2249:U:OP1	44:HX:20:TYR:CE1	2.65	0.50
22:HB:2241:U:C5	22:HB:2306:A:H2	2.28	0.50
22:HB:367:G:H2'	22:HB:368:A:H8	1.77	0.50
22:HB:37:C:H2'	22:HB:38:G:H8	1.75	0.50
22:HB:647:G:H4'	22:HB:650:U:OP1	2.12	0.50
22:HB:661:C:H2'	22:HB:662:G:C8	2.46	0.50
22:HB:815:A:H2'	22:HB:816:U:N1	2.27	0.50
22:HB:83:A:H4'	22:HB:84:G:O4'	2.11	0.50
24:HD:166:GLN:HB2	24:HD:174:ILE:HG22	1.94	0.50
26:HF:26:VAL:C	26:HF:27:LEU:HD22	2.32	0.50
30:HJ:39:LYS:HB3	30:HJ:39:LYS:NZ	2.27	0.50
31:HK:159:SER:HA	31:HK:162:LYS:HD2	1.93	0.50
34:HN:30:PHE:O	34:HN:131:LYS:HD3	2.11	0.50
35:HO:52:ILE:HD13	35:HO:52:ILE:O	2.12	0.50
25:HE:54:LYS:CB	37:HQ:6:LYS:HZ2	2.20	0.50
43:HW:33:ALA:O	43:HW:34:LEU:HB2	2.12	0.50
46:HZ:13:PRO:O	46:HZ:17:VAL:HG23	2.12	0.50
1:IA:1309:G:H8	13:IM:99:ARG:HH22	1.58	0.50
1:IA:1327:C:H2'	1:IA:1328:C:H5'	1.94	0.50
1:IA:187:G:H1'	1:IA:190:A:N6	2.26	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:IA:407:G:H2'	1:IA:408:A:O4'	2.12	0.50
1:IA:440:A:H62	1:IA:494:G:H21	1.60	0.50
1:IA:555:C:H2'	1:IA:556:C:O4'	2.12	0.50
1:IA:715:A:H2'	1:IA:716:A:C8	2.47	0.50
1:IA:757:U:H2'	1:IA:758:G:C8	2.47	0.50
1:IA:994:A:C2	1:IA:1216:G:H5''	2.47	0.50
3:IC:140:ARG:O	3:IC:143:GLU:HB3	2.12	0.50
4:ID:146:ILE:HB	4:ID:181:MET:O	2.11	0.50
7:IG:3:ARG:HH11	7:IG:3:ARG:HG2	1.76	0.50
10:IJ:85:LEU:O	10:IJ:88:LEU:HG	2.12	0.50
12:IL:52:LEU:O	12:IL:53:ARG:HD2	2.12	0.50
13:IM:46:LYS:HG2	13:IM:47:ASP:N	2.27	0.50
14:IN:46:GLU:HA	14:IN:49:HIS:CE1	2.47	0.50
10:IJ:61:GLU:CD	14:IN:58:LYS:NZ	2.64	0.50
1:IA:594:G:O2'	17:IQ:77:VAL:CG1	2.60	0.50
18:IR:31:LEU:O	18:IR:69:THR:HG21	2.12	0.50
22:JB:2210:C:C4'	47:J1:39:VAL:CG2	2.84	0.50
22:JB:470:U:H5'	50:J4:41:GLN:HE22	1.76	0.50
53:J7:5:LYS:NZ	53:J7:184:ILE:HG13	2.27	0.50
23:JA:112:A:H2'	23:JA:113:G:O4'	2.11	0.50
22:JB:1063:C:H2'	22:JB:1064:C:C6	2.47	0.50
22:JB:1688:U:H2'	22:JB:1690:U:OP2	2.12	0.50
22:JB:2385:U:O2'	22:JB:2386:G:H5''	2.11	0.50
22:JB:2490:U:H3	25:JE:140:SER:HB2	1.76	0.50
22:JB:2511:G:H5'	28:JH:157:TYR:OH	2.11	0.50
22:JB:2637:C:O4'	28:JH:179:THR:HG23	2.09	0.50
22:JB:3165:G:H8	53:J7:102:LYS:NZ	1.90	0.50
22:JB:880:C:H2'	22:JB:881:U:H5'	1.94	0.50
22:JB:2185:U:O2	24:JD:149:PRO:HG3	2.11	0.50
22:JB:2542:U:C4'	32:JL:40:GLY:O	2.59	0.50
39:JS:32:LYS:HZ2	39:JS:96:LEU:HB2	1.77	0.50
22:JB:1996:A:C3'	40:JT:116:ILE:H	2.25	0.50
40:JT:55:ASP:HA	40:JT:58:ARG:HB3	1.93	0.50
41:JU:23:GLY:O	41:JU:82:LEU:HD13	2.12	0.50
1:AA:1074:G:OP1	5:AE:60:TYR:CZ	2.65	0.49
1:AA:1140:C:O2'	1:AA:1141:C:H5'	2.12	0.49
1:AA:1309:G:C4'	13:AM:81:LEU:HD11	2.40	0.49
1:AA:1327:C:H2'	1:AA:1328:C:H5'	1.94	0.49
1:AA:1381:U:C2'	7:AG:79:ARG:H	2.24	0.49
1:AA:284:G:H2'	1:AA:285:G:C8	2.46	0.49
1:AA:409:G:P	4:AD:22:LYS:CE	3.00	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:585:G:H1'	1:AA:879:C:H5'	1.94	0.49
1:AA:610:G:H2'	1:AA:610:G:N3	2.26	0.49
1:AA:781:A:H4'	1:AA:1522:U:O2'	2.12	0.49
1:AA:994:A:C2	1:AA:1216:G:H5''	2.47	0.49
4:AD:101:LEU:O	4:AD:105:VAL:HG23	2.11	0.49
1:AA:407:G:H4'	4:AD:116:GLN:HB2	1.94	0.49
6:AF:24:GLU:HA	6:AF:27:GLN:HG2	1.93	0.49
9:AI:18:PHE:N	9:AI:62:TYR:HB3	2.26	0.49
12:AL:52:LEU:O	12:AL:53:ARG:HD2	2.12	0.49
49:B3:22:TYR:O	49:B3:23:THR:HB	2.12	0.49
22:BB:2329:C:O5'	51:B5:42:ARG:HD3	2.12	0.49
22:BB:1117:G:H2'	22:BB:1118:G:O4'	2.11	0.49
22:BB:1128:G:O2'	22:BB:1129:A:H5'	2.12	0.49
22:BB:1142:G:C8	31:BK:106:TYR:C	2.82	0.49
22:BB:134:G:H1'	22:BB:138:G:N2	2.26	0.49
22:BB:1513:U:C5	22:BB:1594:U:OP1	2.62	0.49
22:BB:1817:U:H5''	24:BD:223:GLY:C	2.21	0.49
22:BB:2265:A:H5''	22:BB:2266:A:O4'	2.12	0.49
22:BB:2321:C:O2'	22:BB:2353:G:H5''	2.11	0.49
22:BB:1039:A:H2	22:BB:2466:G:H1'	1.76	0.49
22:BB:2487:G:C4'	22:BB:2534:U:H5'	2.42	0.49
22:BB:2490:U:C5'	25:BE:124:GLY:HA3	2.41	0.49
22:BB:2576:G:H2'	22:BB:2577:A:C8	2.47	0.49
22:BB:2860:C:C1'	48:B2:52:TYR:O	2.59	0.49
22:BB:652:C:C2'	22:BB:653:G:H5'	2.42	0.49
22:BB:703:A:H3'	22:BB:704:G:H8	1.77	0.49
22:BB:707:U:H5''	22:BB:1585:A:H61	1.74	0.49
22:BB:1673:C:C3'	25:BE:136:ARG:NE	2.71	0.49
22:BB:2284:U:C2	27:BG:40:LEU:CD1	2.94	0.49
25:BE:18:ASP:OD2	32:BL:84:ALA:O	2.29	0.49
22:BB:596:C:C4	33:BM:29:THR:HG22	2.47	0.49
34:BN:43:ILE:CG2	34:BN:48:ILE:HB	2.42	0.49
22:BB:971:A:C6	34:BN:83:ARG:NH1	2.80	0.49
35:BO:12:ARG:HD3	35:BO:13:ASN:H	1.77	0.49
39:BS:3:ALA:HB3	39:BS:14:VAL:O	2.11	0.49
34:BN:99:LYS:HG3	43:BW:74:ARG:HB2	1.94	0.49
23:BA:106:U:C3'	43:BW:91:PRO:HD3	2.42	0.49
1:CA:1080:A:H5'	5:CE:16:THR:OG1	2.11	0.49
1:CA:1116:C:C2'	1:CA:1117:G:H5''	2.41	0.49
1:CA:1323:G:OP1	13:CM:100:GLY:HA3	2.11	0.49
1:CA:1423:G:H2'	1:CA:1424:C:C6	2.46	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:1467:G:O5'	1:CA:1467:G:H8	1.95	0.49
1:CA:15:G:C4'	5:CE:24:ARG:HH21	2.13	0.49
1:CA:786:G:H2'	1:CA:787:A:O4'	2.12	0.49
1:CA:1074:G:H5'	2:CB:104:ASN:OD1	2.12	0.49
3:CC:64:VAL:HG12	3:CC:65:ALA:N	2.27	0.49
1:CA:511:C:OP1	4:CD:43:HIS:ND1	2.44	0.49
5:CE:8:GLU:OE2	5:CE:34:VAL:HG22	2.12	0.49
4:CD:204:ILE:HD13	5:CE:99:GLY:HA3	1.94	0.49
6:CF:14:LEU:HD22	6:CF:18:GLN:NE2	2.27	0.49
7:CG:95:ARG:HG2	7:CG:99:LEU:HG	1.94	0.49
8:CH:111:ILE:HG23	8:CH:120:THR:HA	1.93	0.49
8:CH:110:ALA:HB2	8:CH:136:GLU:HA	1.94	0.49
1:CA:860:A:H5''	8:CH:73:ASP:OD1	2.11	0.49
12:CL:100:ILE:HG22	12:CL:101:VAL:N	2.26	0.49
13:CM:2:ALA:HB3	13:CM:10:PRO:HD2	1.94	0.49
13:CM:57:ARG:HG3	13:CM:61:GLU:OE2	2.12	0.49
13:CM:77:ASN:HA	13:CM:80:ARG:CZ	2.42	0.49
15:CO:25:THR:HA	15:CO:28:GLN:HB2	1.94	0.49
17:CQ:9:VAL:H	17:CQ:21:VAL:HG12	1.77	0.49
22:DB:1030:U:P	22:DB:1046:U:H1'	2.52	0.49
22:DB:1004:A:C4	22:DB:1173:G:C2	2.99	0.49
22:DB:1298:G:N7	22:DB:1342:U:O4	2.45	0.49
22:DB:2321:C:O2'	22:DB:2353:G:H5''	2.11	0.49
22:DB:2321:C:O2	22:DB:2353:G:H4'	2.12	0.49
22:DB:2623:A:H3'	22:DB:2624:G:OP2	2.12	0.49
22:DB:2662:C:N4	22:DB:2707:G:C2'	2.74	0.49
22:DB:2770:A:C4'	22:DB:2867:G:O6	2.59	0.49
22:DB:452:G:H2'	22:DB:453:U:C6	2.47	0.49
22:DB:934:G:O4'	44:DX:23:VAL:CG1	2.46	0.49
22:DB:969:U:C5	34:DN:21:ASP:OD2	2.65	0.49
22:DB:996:C:H2'	22:DB:997:C:C5	2.47	0.49
22:DB:1885:C:HO2'	24:DD:241:GLY:C	2.15	0.49
24:DD:68:LYS:HE3	24:DD:144:ALA:HB1	1.94	0.49
28:DH:18:ASN:HB2	28:DH:23:VAL:O	2.12	0.49
30:DJ:39:LYS:NZ	30:DJ:39:LYS:HB3	2.27	0.49
34:DN:43:ILE:CG2	34:DN:48:ILE:HB	2.42	0.49
34:DN:99:LYS:HG3	43:DW:73:LYS:CD	2.40	0.49
22:DB:2249:U:H5'	44:DX:18:PRO:HG2	1.69	0.49
46:DZ:13:PRO:HB2	46:DZ:15:ASN:OD1	2.12	0.49
46:DZ:13:PRO:O	46:DZ:17:VAL:HG23	2.12	0.49
1:EA:130:A:P	17:EQ:63:ARG:NE	2.85	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:EA:1327:C:H2'	1:EA:1328:C:H5'	1.94	0.49
1:EA:186:C:O3'	20:ET:81:LYS:HE2	2.12	0.49
1:EA:318:G:H2'	1:EA:319:G:H8	1.77	0.49
1:EA:325:A:N6	16:EP:25:ARG:HH12	2.06	0.49
1:EA:358:U:H2'	1:EA:359:U:O4'	2.12	0.49
1:EA:98:U:H2'	1:EA:99:C:O4'	2.12	0.49
3:EC:28:GLN:CG	3:EC:32:LEU:HD13	2.42	0.49
4:ED:83:SER:HA	4:ED:89:THR:CG2	2.37	0.49
5:EE:78:HIS:HE1	5:EE:142:LEU:HD23	1.77	0.49
1:EA:825:G:N3	8:EH:11:THR:HB	2.27	0.49
12:EL:16:GLU:HG2	12:EL:19:ARG:NH2	2.05	0.49
13:EM:2:ALA:HB3	13:EM:10:PRO:HD2	1.93	0.49
13:EM:77:ASN:HA	13:EM:80:ARG:CZ	2.42	0.49
51:F5:8:LYS:O	51:F5:11:LYS:HB2	2.12	0.49
52:F6:14:CYS:HB3	52:F6:25:VAL:HA	1.94	0.49
22:FB:1398:G:N3	22:FB:1415:C:C2	2.80	0.49
22:FB:1583:A:N3	24:FD:84:TYR:CD1	2.80	0.49
22:FB:2299:A:H5''	22:FB:2300:G:O5'	2.12	0.49
22:FB:2532:G:H2'	22:FB:2533:U:O4'	2.11	0.49
22:FB:2721:A:H61	22:FB:2742:G:N2	2.09	0.49
22:FB:2756:A:N6	25:FE:42:ASP:CG	2.56	0.49
22:FB:3197:U:H3	22:FB:2204:A:N6	2.10	0.49
22:FB:540:G:H5''	22:FB:2004:U:N3	2.26	0.49
22:FB:797:A:OP1	22:FB:2567:G:H5''	2.11	0.49
24:FD:158:SER:O	24:FD:202:LYS:HB2	2.12	0.49
22:FB:2736:U:C4	28:FH:67:LEU:HD21	2.43	0.49
22:FB:2652:G:H1'	32:FL:46:HIS:NE2	2.25	0.49
22:FB:2463:G:C1'	34:FN:120:ARG:NH2	2.64	0.49
35:FO:25:ALA:HA	35:FO:34:ILE:HD12	1.93	0.49
25:FE:19:ARG:CG	37:FQ:84:ALA:HB1	2.37	0.49
22:FB:1003:C:P	38:FR:47:TYR:OH	2.69	0.49
43:FW:67:LYS:HD3	43:FW:82:ASP:HB3	1.93	0.49
22:FB:864:C:C5'	46:FZ:42:GLY:CA	2.90	0.49
1:GA:1226:C:C5'	13:GM:111:LYS:NZ	2.71	0.49
1:GA:1344:C:O2'	1:GA:1345:U:H5'	2.12	0.49
1:GA:1372:U:O2'	7:GG:35:LYS:CA	2.45	0.49
1:GA:1528:U:H5'	1:GA:1529:G:H21	1.77	0.49
1:GA:710:G:H2'	1:GA:711:G:O4'	2.11	0.49
2:GB:132:LYS:O	2:GB:136:VAL:HB	2.12	0.49
2:GB:210:SER:O	2:GB:214:ILE:HG12	2.11	0.49
20:GT:73:HIS:CG	20:GT:74:LYS:H	2.30	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
53:H7:113:ASN:HA	53:H7:138:LEU:HD11	1.94	0.49
53:H7:85:ILE:HG13	53:H7:90:LEU:HD13	1.93	0.49
23:HA:88:C:H3'	23:HA:89:G:H8	1.77	0.49
22:HB:1088:A:H5'	30:HJ:91:PRO:O	2.11	0.49
22:HB:1161:U:H2'	22:HB:1162:A:H8	1.77	0.49
22:HB:1381:G:N7	47:H1:1:MET:HG2	2.26	0.49
22:HB:1688:U:H2'	22:HB:1690:U:OP2	2.12	0.49
22:HB:1771:A:P	22:HB:1772:C:H3'	2.52	0.49
22:HB:1935:A:C2	22:HB:2539:C:O2	2.64	0.49
22:HB:2299:A:H5''	22:HB:2300:G:O5'	2.12	0.49
22:HB:2366:U:H5'	44:HX:38:VAL:HB	1.94	0.49
22:HB:688:A:C2	22:HB:2422:C:H1'	2.47	0.49
22:HB:2427:A:OP1	22:HB:2477:C:H3'	2.11	0.49
22:HB:2553:G:H21	25:HE:142:GLY:C	2.14	0.49
22:HB:2662:C:O2	32:HL:82:LYS:HD2	2.11	0.49
22:HB:200:A:N1	22:HB:421:G:H5'	2.26	0.49
22:HB:864:C:H2'	22:HB:865:A:C8	2.46	0.49
22:HB:880:C:H2'	22:HB:881:U:H5'	1.94	0.49
22:HB:935:C:H2'	22:HB:936:A:H8	1.77	0.49
26:HF:94:THR:O	26:HF:95:LEU:HB3	2.12	0.49
27:HG:67:ILE:HG23	27:HG:84:PRO:HA	1.94	0.49
33:HM:110:ALA:HB3	33:HM:132:ALA:HB3	1.93	0.49
22:HB:683:A:P	33:HM:46:GLY:CA	2.92	0.49
22:HB:681:A:O5'	33:HM:48:PHE:HE1	1.92	0.49
22:HB:2445:C:C2	34:HN:120:ARG:NH1	2.73	0.49
1:IA:1112:C:N4	3:IC:177:THR:HA	2.27	0.49
1:IA:1318:A:H5''	19:IS:5:LEU:HD12	1.92	0.49
1:IA:376:G:O2'	16:IP:28:ARG:NH1	2.45	0.49
1:IA:519:C:H5'	1:IA:520:A:OP2	2.11	0.49
1:IA:764:C:H5''	15:IO:50:HIS:CB	2.41	0.49
1:IA:868:C:H2'	1:IA:869:G:O4'	2.12	0.49
2:IB:142:LEU:O	2:IB:146:GLN:HG3	2.12	0.49
1:IA:1057:G:O4'	3:IC:196:LEU:HA	2.11	0.49
3:IC:23:TYR:CE1	10:IJ:93:GLY:HA2	2.47	0.49
3:IC:28:GLN:CG	3:IC:32:LEU:HD13	2.42	0.49
4:ID:101:LEU:O	4:ID:105:VAL:HG23	2.11	0.49
8:IH:33:GLU:HB2	8:IH:59:LEU:HD11	1.93	0.49
9:II:8:GLY:HA3	9:II:76:ALA:O	2.11	0.49
11:IK:51:LYS:HG2	11:IK:55:LYS:HZ1	1.77	0.49
13:IM:109:THR:HG23	13:IM:110:ARG:HD2	1.94	0.49
1:IA:1227:A:C5'	13:IM:111:LYS:CE	2.89	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
48:J2:41:LEU:HD22	48:J2:44:HIS:ND1	2.27	0.49
48:J2:9:LYS:HB2	48:J2:9:LYS:HZ2	1.77	0.49
23:JA:10:U:O4'	36:JP:28:ARG:NH2	2.38	0.49
23:JA:53:G:OP2	36:JP:64:LYS:N	2.34	0.49
22:JB:1003:C:C4'	39:JS:74:TYR:HD2	1.98	0.49
22:JB:1250:A:H2'	22:JB:1250:A:N3	2.26	0.49
22:JB:131:C:H2'	22:JB:132:U:C6	2.46	0.49
22:JB:1354:A:H3'	22:JB:1410:U:H3	1.77	0.49
22:JB:2397:A:H5''	51:J5:41:ILE:CG1	2.42	0.49
22:JB:2427:A:OP1	22:JB:2477:C:H3'	2.11	0.49
22:JB:2525:U:O4'	22:JB:2544:A:N1	2.45	0.49
22:JB:2683:C:H2'	22:JB:2684:A:H8	1.73	0.49
22:JB:37:C:H2'	22:JB:38:G:H8	1.75	0.49
22:JB:414:A:H5'	53:J7:217:ARG:HH21	1.55	0.49
22:JB:200:A:N1	22:JB:421:G:H5'	2.26	0.49
22:JB:452:G:H2'	22:JB:453:U:C6	2.47	0.49
22:JB:488:A:N3	42:JV:76:LEU:HD11	2.27	0.49
22:JB:594:G:H1	22:JB:1266:G:P	2.35	0.49
22:JB:611:C:H2'	22:JB:669:G:N2	2.19	0.49
22:JB:647:G:H4'	22:JB:650:U:OP1	2.12	0.49
22:JB:815:A:H2'	22:JB:816:U:N1	2.27	0.49
22:JB:83:A:H4'	22:JB:84:G:O4'	2.11	0.49
22:JB:84:G:H1'	22:JB:101:A:C2	2.47	0.49
22:JB:864:C:H2'	22:JB:865:A:C8	2.47	0.49
24:JD:158:SER:O	24:JD:202:LYS:HB2	2.12	0.49
22:JB:2614:A:H5'	25:JE:77:ILE:HB	1.93	0.49
22:JB:2615:U:C1'	25:JE:79:ARG:NH2	2.75	0.49
26:JF:94:THR:O	26:JF:95:LEU:HB3	2.12	0.49
30:JJ:23:VAL:HB	30:JJ:27:LEU:HD12	1.93	0.49
30:JJ:41:PHE:O	30:JJ:42:ASN:HB2	2.12	0.49
31:JK:159:SER:HA	31:JK:162:LYS:HD2	1.93	0.49
31:JK:33:ILE:HG13	31:JK:35:LYS:H	1.77	0.49
22:JB:567:G:C2'	31:JK:73:ASN:HA	2.41	0.49
22:JB:2372:A:C4'	33:JM:60:LEU:C	2.80	0.49
1:AA:1200:C:H4'	1:AA:1201:A:H3'	1.94	0.49
1:AA:1466:C:H3'	1:AA:1467:G:C8	2.47	0.49
1:AA:1467:G:H8	1:AA:1467:G:O5'	1.95	0.49
1:AA:17:U:H4'	1:AA:1079:G:O2'	2.13	0.49
1:AA:216:C:N4	1:AA:217:C:H41	2.10	0.49
1:AA:275:G:O2'	17:AQ:18:THR:HG22	2.12	0.49
1:AA:757:U:H2'	1:AA:758:G:C8	2.47	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AB:32:ILE:HG21	2:AB:40:HIS:HB3	1.94	0.49
6:AF:67:MET:HE1	6:AF:75:LEU:HB2	1.94	0.49
8:AH:64:LYS:HZ2	8:AH:79:VAL:HG21	1.76	0.49
1:AA:1250:A:C5'	9:AI:68:GLY:O	2.57	0.49
1:AA:1061:G:P	10:AJ:59:SER:HA	2.51	0.49
12:AL:83:VAL:HA	12:AL:105:TYR:CB	2.42	0.49
1:AA:1331:G:OP1	13:AM:23:TYR:CE1	2.65	0.49
13:AM:87:TYR:CD1	13:AM:90:LEU:CB	2.95	0.49
15:AO:25:THR:HA	15:AO:28:GLN:HB2	1.94	0.49
22:BB:1314:A:H2'	22:BB:1316:G:OP2	2.11	0.49
22:BB:1856:U:N3	22:BB:3865:A:C6	2.80	0.49
22:BB:2398:U:H2'	22:BB:2399:C:H6	1.76	0.49
22:BB:238:G:H2'	22:BB:239:A:C8	2.47	0.49
22:BB:2873:G:H2'	22:BB:2874:A:C8	2.46	0.49
22:BB:340:G:P	22:BB:488:A:H1'	2.52	0.49
22:BB:665:A:H2'	22:BB:665:A:N3	2.26	0.49
24:BD:158:SER:O	24:BD:202:LYS:HB2	2.12	0.49
26:BF:176:ASN:CG	26:BF:178:TYR:HB3	2.33	0.49
27:BG:163:ASP:HA	27:BG:166:ALA:HB3	1.93	0.49
28:BH:50:LEU:HG	28:BH:69:ARG:HD2	1.93	0.49
33:BM:68:VAL:O	33:BM:70:THR:HG22	2.11	0.49
34:BN:64:LYS:O	43:BW:115:ILE:CG1	2.59	0.49
22:BB:2856:U:C1'	35:BO:93:GLY:HA2	2.40	0.49
37:BQ:53:VAL:HB	37:BQ:69:ARG:NH2	2.26	0.49
42:BV:32:GLN:NE2	42:BV:49:GLU:HB2	2.28	0.49
43:BW:33:ALA:O	43:BW:34:LEU:HB2	2.13	0.49
45:BY:55:THR:O	45:BY:56:VAL:C	2.50	0.49
1:CA:1119:C:H2'	1:CA:1120:G:C8	2.46	0.49
1:CA:1347:G:H22	1:CA:1374:A:P	2.35	0.49
1:CA:137:C:H1'	1:CA:227:G:N2	2.27	0.49
1:CA:1466:C:H3'	1:CA:1467:G:C8	2.47	0.49
1:CA:362:G:N3	1:CA:362:G:H2'	2.27	0.49
1:CA:59:A:H5"	1:CA:387:U:H5"	1.95	0.49
1:CA:439:A:C4'	4:CD:122:ARG:HH22	2.19	0.49
1:CA:994:A:C2	1:CA:1216:G:H5"	2.47	0.49
2:CB:210:SER:O	2:CB:214:ILE:HG12	2.11	0.49
7:CG:27:ILE:HG12	7:CG:43:PHE:CZ	2.47	0.49
8:CH:33:GLU:HB2	8:CH:59:LEU:HD11	1.94	0.49
9:CI:18:PHE:N	9:CI:62:TYR:HB3	2.27	0.49
20:CT:15:ARG:HG2	20:CT:18:GLN:OE1	2.12	0.49
52:D6:14:CYS:HB3	52:D6:25:VAL:HA	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
53:D7:5:LYS:NZ	53:D7:184:ILE:HG13	2.27	0.49
23:DA:88:C:H3'	23:DA:89:G:H8	1.78	0.49
22:DB:1063:C:H2'	22:DB:1064:C:C6	2.47	0.49
22:DB:1111:C:C1'	28:DH:168:GLN:HE22	2.17	0.49
22:DB:1263:G:C1'	38:DR:13:ARG:NH2	2.25	0.49
22:DB:1314:A:H2'	22:DB:1316:G:OP2	2.11	0.49
22:DB:1420:A:H2'	22:DB:1421:U:H5	1.77	0.49
22:DB:707:U:H5''	22:DB:1585:A:H61	1.75	0.49
22:DB:1922:U:H1'	22:DB:2571:G:O4'	2.12	0.49
22:DB:238:G:H2'	22:DB:239:A:C8	2.47	0.49
22:DB:2663:U:O4'	32:DL:82:LYS:CE	2.60	0.49
22:DB:2721:A:H61	22:DB:2742:G:N2	2.09	0.49
22:DB:2756:A:C6	22:DB:2762:G:H1'	2.47	0.49
22:DB:3124:G:N2	53:D7:209:MSE:SE	2.95	0.49
22:DB:340:G:N2	22:DB:511:A:OP1	2.45	0.49
22:DB:3870:C:H2'	22:DB:3871:A:C4	2.47	0.49
22:DB:810:U:OP2	26:DF:56:ARG:N	2.40	0.49
22:DB:864:C:H2'	22:DB:865:A:C8	2.47	0.49
24:DD:166:GLN:HB2	24:DD:174:ILE:HG22	1.94	0.49
25:DE:55:ALA:HA	25:DE:58:LYS:HB2	1.93	0.49
27:DG:78:LYS:HG3	27:DG:80:ARG:NH1	2.21	0.49
22:DB:613:A:H62	33:DM:97:ARG:HB2	1.70	0.49
22:DB:1162:A:H1'	38:DR:78:THR:CG2	2.42	0.49
42:DV:32:GLN:NE2	42:DV:49:GLU:HB2	2.27	0.49
42:DV:23:ILE:HG13	42:DV:87:GLU:OE1	2.13	0.49
43:DW:72:ASP:HB2	43:DW:78:PRO:HA	1.94	0.49
46:DZ:3:ILE:HG13	46:DZ:34:VAL:HG12	1.93	0.49
1:EA:1140:C:O2'	1:EA:1141:C:H5'	2.12	0.49
1:EA:1320:C:H4'	19:ES:73:GLU:HB3	1.94	0.49
1:EA:610:G:H2'	1:EA:610:G:N3	2.26	0.49
1:EA:619:U:C2	4:ED:133:VAL:HG22	2.46	0.49
1:EA:994:A:C2	1:EA:1216:G:H5''	2.47	0.49
2:EB:147:LYS:H	2:EB:147:LYS:HD2	1.77	0.49
3:EC:64:VAL:HG12	3:EC:65:ALA:N	2.27	0.49
4:ED:148:VAL:HG12	4:ED:152:SER:HB2	1.94	0.49
5:EE:11:ILE:HG12	5:EE:31:LEU:O	2.12	0.49
5:EE:81:GLU:CD	5:EE:91:LEU:H	2.14	0.49
6:EF:43:LEU:HD13	18:ER:35:ARG:HA	1.92	0.49
13:EM:15:VAL:HG22	13:EM:45:VAL:HG22	1.94	0.49
14:EN:15:LYS:HD3	14:EN:16:PHE:N	2.20	0.49
1:EA:1456:A:C5'	20:ET:28:ALA:HB1	2.35	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:EA:194:C:C1'	20:ET:68:LYS:CD	2.89	0.49
22:FB:226:C:H5	47:F1:28:ARG:NH2	2.10	0.49
49:F3:49:VAL:HG12	49:F3:51:ARG:HG3	1.94	0.49
22:FB:1008:G:C5'	38:FR:92:ARG:CB	2.83	0.49
22:FB:1694:A:H3'	22:FB:1695:U:C6	2.47	0.49
22:FB:1889:G:P	22:FB:1913:G:N7	2.78	0.49
22:FB:2181:A:OP1	29:FI:28:TRP:NE1	2.45	0.49
22:FB:2325:A:H1'	22:FB:2362:G:C8	2.47	0.49
22:FB:2364:C:C2'	44:FX:37:LEU:HD21	2.41	0.49
22:FB:2490:U:H5'	25:FE:122:PHE:CZ	2.46	0.49
22:FB:367:G:H2'	22:FB:368:A:H8	1.77	0.49
22:FB:3870:C:H2'	22:FB:3871:A:C4	2.47	0.49
22:FB:452:G:H2'	22:FB:453:U:C6	2.47	0.49
22:FB:63:A:H2'	41:FU:70:GLY:CA	2.31	0.49
26:FF:102:LEU:O	26:FF:106:MET:HG2	2.12	0.49
26:FF:22:VAL:HG23	26:FF:109:ALA:CB	2.42	0.49
26:FF:26:VAL:C	26:FF:27:LEU:HD22	2.32	0.49
28:FH:125:VAL:HA	28:FH:131:ILE:HD12	1.94	0.49
28:FH:50:LEU:HG	28:FH:69:ARG:HD2	1.93	0.49
22:FB:2461:G:H1	34:FN:54:VAL:HG12	1.76	0.49
22:FB:1992:G:C1'	35:FO:105:GLY:C	2.80	0.49
22:FB:1630:A:N6	40:FT:109:ARG:C	2.64	0.49
22:FB:529:U:O5'	40:FT:39:ARG:HG2	2.09	0.49
45:FY:44:ARG:HA	45:FY:47:ARG:CB	2.38	0.49
1:GA:1234:C:C1'	1:GA:1364:U:H1'	2.41	0.49
1:GA:1327:C:H2'	1:GA:1328:C:H5'	1.94	0.49
1:GA:1467:G:H8	1:GA:1467:G:O5'	1.95	0.49
1:GA:663:A:C5'	18:GR:64:ARG:NH1	2.75	0.49
1:GA:715:A:H2'	1:GA:716:A:C8	2.47	0.49
1:GA:967:C:H4'	9:GI:128:ARG:CB	2.40	0.49
1:GA:989:C:O2'	1:GA:990:C:H5'	2.12	0.49
5:GE:99:GLY:HA2	5:GE:116:THR:OG1	2.12	0.49
5:GE:8:GLU:OE2	5:GE:34:VAL:HG22	2.12	0.49
7:GG:49:ILE:HA	7:GG:53:LYS:HZ3	1.76	0.49
8:GH:33:GLU:HB2	8:GH:59:LEU:HD11	1.94	0.49
8:GH:97:VAL:HG13	8:GH:98:LYS:N	2.27	0.49
10:GJ:23:ILE:HG23	10:GJ:85:LEU:HD22	1.94	0.49
13:GM:27:LYS:C	13:GM:29:ARG:H	2.16	0.49
13:GM:12:ASN:HA	13:GM:46:LYS:NZ	2.27	0.49
14:GN:46:GLU:HA	14:GN:49:HIS:CE1	2.47	0.49
16:GP:55:ARG:CZ	16:GP:58:TYR:HB2	2.42	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:GP:71:ARG:HH21	16:GP:74:LEU:HB3	1.77	0.49
22:HB:1376:C:H5'	47:H1:55:ARG:NH2	2.06	0.49
48:H2:41:LEU:HD22	48:H2:44:HIS:ND1	2.27	0.49
49:H3:27:ASN:O	49:H3:28:ARG:HB2	2.11	0.49
22:HB:3877:A:C4'	53:H7:40:ASP:OD2	2.51	0.49
22:HB:1011:A:H2'	22:HB:1012:A:C8	2.47	0.49
22:HB:1078:A:H1'	30:HJ:22:PRO:HA	1.93	0.49
22:HB:1004:A:C1'	22:HB:1173:G:H22	2.22	0.49
22:HB:16:G:H2'	22:HB:17:G:C8	2.46	0.49
22:HB:2044:G:H4'	22:HB:2045:A:C6	2.46	0.49
22:HB:2211:U:O2'	22:HB:2212:U:H5'	2.12	0.49
22:HB:2235:G:O2'	44:HX:9:SER:C	2.50	0.49
22:HB:2385:U:O2'	22:HB:2386:G:H5''	2.11	0.49
22:HB:1750:A:H5''	22:HB:2695:C:C4'	2.41	0.49
22:HB:2757:G:O2'	22:HB:2758:A:H5''	2.12	0.49
22:HB:2863:U:O2	48:H2:30:LEU:HD23	2.12	0.49
22:HB:478:G:H2'	22:HB:479:G:C8	2.47	0.49
22:HB:940:G:N2	46:HZ:43:MET:HG3	2.26	0.49
22:HB:1693:A:C2	25:HE:129:HIS:CE1	3.00	0.49
27:HG:156:ILE:O	27:HG:156:ILE:HG23	2.13	0.49
28:HH:138:LYS:H	28:HH:141:VAL:HG13	1.77	0.49
31:HK:41:TRP:CE2	31:HK:79:PHE:HB2	2.46	0.49
37:HQ:44:ARG:NH2	37:HQ:47:SER:HB2	2.27	0.49
40:HT:91:PHE:HZ	40:HT:133:ASN:HB2	1.77	0.49
44:HX:49:GLN:HA	44:HX:55:ARG:CZ	2.42	0.49
44:HX:41:ARG:HH22	44:HX:69:PHE:HD2	1.60	0.49
1:IA:1234:C:C1'	1:IA:1364:U:H1'	2.42	0.49
1:IA:1408:A:O3'	22:JB:1899:A:C6	2.64	0.49
1:IA:1423:G:H2'	1:IA:1424:C:C6	2.47	0.49
1:IA:1466:C:H3'	1:IA:1467:G:C8	2.47	0.49
1:IA:815:A:N9	1:IA:1508:G:N2	2.58	0.49
1:IA:1527:C:H2'	1:IA:1528:U:C6	2.46	0.49
1:IA:358:U:H2'	1:IA:359:U:O4'	2.12	0.49
1:IA:585:G:H1'	1:IA:879:C:H5'	1.93	0.49
1:IA:814:A:C4'	1:IA:1511:G:H4'	2.39	0.49
2:IB:31:TYR:O	2:IB:42:ILE:HA	2.13	0.49
3:IC:56:ASP:O	3:IC:66:VAL:HG13	2.12	0.49
4:ID:28:SER:N	4:ID:29:PRO:HD3	2.27	0.49
1:IA:922:G:C2'	5:IE:19:MET:CE	2.91	0.49
5:IE:76:ILE:O	5:IE:93:PRO:HB3	2.12	0.49
6:IF:67:MET:HE1	6:IF:75:LEU:HB2	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:IJ:79:ARG:C	10:IJ:81:THR:H	2.16	0.49
12:IL:83:VAL:HA	12:IL:105:TYR:CB	2.42	0.49
13:IM:57:ARG:HG3	13:IM:61:GLU:OE2	2.12	0.49
14:IN:29:ARG:O	14:IN:33:VAL:HG13	2.12	0.49
1:IA:657:G:N3	15:IO:23:GLY:O	2.45	0.49
22:JB:2327:U:C5'	49:J3:21:TYR:HE1	2.24	0.49
22:JB:1007:A:H5'	38:JR:94:VAL:HG23	1.94	0.49
22:JB:1128:G:O2'	22:JB:1129:A:H5'	2.12	0.49
22:JB:1161:U:H2'	22:JB:1162:A:H8	1.77	0.49
22:JB:1367:A:H2'	22:JB:1368:G:O4'	2.11	0.49
22:JB:16:G:H2'	22:JB:17:G:C8	2.46	0.49
22:JB:1809:G:H5''	24:JD:156:ALA:HB1	1.90	0.49
22:JB:1906:U:H2'	22:JB:1907:C:C6	2.47	0.49
22:JB:197:G:H4'	22:JB:211:U:O5'	2.12	0.49
22:JB:2209:G:O4'	47:J1:40:HIS:O	2.29	0.49
22:JB:846:A:C2	22:JB:2337:A:N7	2.75	0.49
22:JB:2437:G:H2'	22:JB:2469:G:C6	2.47	0.49
22:JB:2756:A:C6	22:JB:2762:G:H1'	2.47	0.49
22:JB:2757:G:O2'	22:JB:2758:A:H5''	2.12	0.49
22:JB:3166:G:C2'	53:J7:98:ARG:N	2.70	0.49
22:JB:338:G:O2'	42:JV:7:GLY:HA3	2.12	0.49
22:JB:478:G:H2'	22:JB:479:G:C8	2.47	0.49
24:JD:180:GLY:O	24:JD:183:ARG:HG2	2.12	0.49
26:JF:102:LEU:O	26:JF:106:MET:HG2	2.12	0.49
32:JL:20:MET:HB2	32:JL:56:LYS:HB2	1.94	0.49
34:JN:30:PHE:O	34:JN:131:LYS:HD3	2.12	0.49
37:JQ:38:LYS:NZ	37:JQ:38:LYS:HB3	2.27	0.49
22:JB:2003:A:C5'	38:JR:25:TRP:CZ3	2.68	0.49
39:JS:14:VAL:HG13	39:JS:17:GLY:N	2.26	0.49
38:JR:47:TYR:CD1	39:JS:75:LYS:C	2.84	0.49
22:JB:512:A:P	40:JT:16:GLN:NE2	2.85	0.49
1:AA:1015:A:H2'	1:AA:1016:A:C8	2.47	0.49
1:AA:1347:G:H22	1:AA:1374:A:P	2.35	0.49
1:AA:1382:C:O3'	7:AG:79:ARG:CZ	2.58	0.49
1:AA:1423:G:H2'	1:AA:1424:C:C6	2.47	0.49
1:AA:182:U:H5	20:GT:106:ALA:C	2.15	0.49
1:AA:187:G:H1'	1:AA:190:A:N6	2.26	0.49
1:AA:358:U:H2'	1:AA:359:U:O4'	2.12	0.49
1:AA:59:A:H5''	1:AA:387:U:H5''	1.95	0.49
1:AA:719:C:H3'	1:AA:720:C:C6	2.47	0.49
1:AA:730:G:H2'	1:AA:731:G:O4'	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:814:A:H2	1:AA:1526:G:HO2'	0.61	0.49
3:AC:64:VAL:C	3:AC:99:VAL:HG23	2.33	0.49
3:AC:64:VAL:HG12	3:AC:65:ALA:N	2.27	0.49
4:AD:173:TRP:HB3	4:AD:189:PRO:HB3	1.94	0.49
6:AF:14:LEU:HD22	6:AF:18:GLN:NE2	2.27	0.49
1:AA:673:G:OP1	6:AF:87:ARG:NH2	2.45	0.49
9:AI:53:VAL:HG23	9:AI:55:ALA:H	1.77	0.49
12:AL:75:HIS:HB2	12:AL:108:ALA:CB	2.41	0.49
13:AM:88:ARG:HB3	13:AM:92:HIS:HD1	1.77	0.49
9:AI:111:ARG:HD2	14:AN:61:TRP:CE2	2.47	0.49
1:AA:44:G:P	16:AP:12:LYS:HE3	2.53	0.49
20:AT:73:HIS:CG	20:AT:74:LYS:H	2.30	0.49
47:B1:41:PRO:HG3	47:B1:57:ASP:OD1	2.12	0.49
53:B7:200:LEU:HD22	53:B7:201:ARG:N	2.22	0.49
22:BB:1353:A:H4'	22:BB:1407:G:H1'	1.95	0.49
22:BB:1694:A:H3'	22:BB:1695:U:C6	2.47	0.49
22:BB:16:G:H2'	22:BB:17:G:C8	2.46	0.49
22:BB:191:G:H2'	22:BB:192:G:O4'	2.12	0.49
22:BB:2075:U:OP1	22:BB:2182:A:N3	2.45	0.49
22:BB:2343:C:H1'	44:BX:66:LYS:CD	2.38	0.49
22:BB:2325:A:H1'	22:BB:2362:G:C8	2.47	0.49
22:BB:2437:G:H2'	22:BB:2469:G:C6	2.47	0.49
22:BB:2790:C:H2'	48:B2:43:HIS:ND1	2.26	0.49
22:BB:2805:G:N2	22:BB:2811:G:H21	2.11	0.49
22:BB:2669:C:C5'	22:BB:2847:G:O6	2.60	0.49
22:BB:367:G:H2'	22:BB:368:A:H8	1.77	0.49
22:BB:3870:C:H2'	22:BB:3871:A:C4	2.47	0.49
22:BB:200:A:N1	22:BB:421:G:H5'	2.27	0.49
22:BB:886:A:N9	43:BW:167:THR:CG2	2.50	0.49
22:BB:887:G:H4'	43:BW:167:THR:O	2.11	0.49
22:BB:1081:A:C2	30:BJ:10:LEU:HD22	2.47	0.49
30:BJ:48:LYS:HB3	30:BJ:48:LYS:NZ	2.27	0.49
32:BL:114:VAL:HG22	32:BL:132:GLU:O	2.12	0.49
32:BL:20:MET:HB2	32:BL:56:LYS:HB2	1.94	0.49
35:BO:52:ILE:O	35:BO:52:ILE:HD13	2.13	0.49
40:BT:118:LYS:HZ2	40:BT:118:LYS:HB3	1.78	0.49
40:BT:27:VAL:HG23	40:BT:124:ILE:HG22	1.94	0.49
46:BZ:13:PRO:HB2	46:BZ:15:ASN:OD1	2.12	0.49
22:BB:862:A:H2	46:BZ:21:GLN:HG2	1.75	0.49
46:BZ:3:ILE:HG13	46:BZ:34:VAL:HG12	1.93	0.49
1:CA:1187:G:P	9:CI:113:LYS:HZ1	2.34	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:1266:G:OP2	1:GA:1273:G:C4'	2.38	0.49
1:CA:794:A:P	1:CA:1521:G:O2'	2.70	0.49
1:CA:9:G:H2'	1:CA:10:A:C8	2.46	0.49
4:CD:173:TRP:HE3	4:CD:193:ASP:HB3	1.77	0.49
1:CA:753:A:N3	8:CH:1:MET:O	2.45	0.49
9:CI:26:VAL:HB	9:CI:63:ILE:HD11	1.94	0.49
10:CJ:30:SER:CB	10:CJ:80:LYS:HB3	2.43	0.49
12:CL:5:PRO:HD3	12:CL:13:LYS:HB2	1.94	0.49
13:CM:12:ASN:HA	13:CM:46:LYS:NZ	2.26	0.49
51:D5:30:ARG:O	51:D5:31:HIS:HB2	2.12	0.49
53:D7:113:ASN:HA	53:D7:138:LEU:HD11	1.94	0.49
22:DB:1004:A:H5''	38:DR:51:ARG:HD2	1.94	0.49
22:DB:1011:A:H2'	22:DB:1012:A:C8	2.47	0.49
22:DB:1049:C:N4	22:DB:1129:A:C6	2.81	0.49
22:DB:1397:A:N3	22:DB:1418:C:C5	2.81	0.49
22:DB:1789:U:H3'	22:DB:1790:G:H8	1.78	0.49
22:DB:200:A:N1	22:DB:421:G:H5'	2.26	0.49
22:DB:203:G:O3'	22:DB:234:C:H4'	2.13	0.49
22:DB:2463:G:H21	34:DN:120:ARG:HG2	1.77	0.49
22:DB:2499:C:O2	22:DB:2525:U:O2	2.29	0.49
22:DB:2716:G:H22	22:DB:2749:A:C1'	2.24	0.49
22:DB:2773:G:O2'	22:DB:2780:A:O2'	1.73	0.49
22:DB:3116:G:P	22:DB:3166:G:H21	2.34	0.49
22:DB:367:G:H2'	22:DB:368:A:H8	1.77	0.49
22:DB:541:C:N4	22:DB:572:G:C1'	2.76	0.49
22:DB:611:C:H2'	22:DB:669:G:N2	2.18	0.49
22:DB:652:C:C2'	22:DB:653:G:H5'	2.42	0.49
22:DB:875:G:H2'	22:DB:876:A:H8	1.78	0.49
22:DB:8:A:H5''	31:DK:79:PHE:HE1	1.68	0.49
24:DD:158:SER:O	24:DD:202:LYS:HB2	2.12	0.49
24:DD:27:LYS:HZ2	24:DD:27:LYS:HB3	1.77	0.49
22:DB:1798:G:H5'	24:DD:49:ILE:HD11	1.93	0.49
28:DH:50:LEU:HG	28:DH:69:ARG:HD2	1.94	0.49
33:DM:59:ARG:O	33:DM:60:LEU:CB	2.51	0.49
37:DQ:40:ARG:HB2	37:DQ:89:ASN:OD1	2.13	0.49
32:DL:113:PRO:HG2	37:DQ:76:GLY:CA	2.41	0.49
1:EA:1015:A:H2'	1:EA:1016:A:C8	2.47	0.49
1:EA:1298:C:N4	7:EG:114:ARG:CG	2.75	0.49
1:EA:1347:G:H22	1:EA:1374:A:P	2.35	0.49
1:EA:137:C:H1'	1:EA:227:G:N2	2.27	0.49
1:EA:187:G:H1'	1:EA:190:A:N6	2.26	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:EA:278:G:H2'	17:EQ:95:TYR:HB3	1.94	0.49
1:EA:376:G:H1'	16:EP:28:ARG:CZ	2.41	0.49
1:EA:643:C:C1'	8:EH:113:SER:CB	2.84	0.49
1:EA:674:G:P	6:EF:87:ARG:NH2	2.85	0.49
1:EA:9:G:H2'	1:EA:10:A:C8	2.46	0.49
1:EA:437:U:H5'	4:ED:155:LEU:CD1	2.29	0.49
6:EF:39:LYS:HE2	6:EF:64:GLN:HE22	1.77	0.49
1:EA:1525:G:C5'	11:EK:127:LYS:HZ1	2.25	0.49
12:EL:5:PRO:HD3	12:EL:13:LYS:HB2	1.95	0.49
12:EL:75:HIS:HB3	12:EL:102:ARG:CZ	2.42	0.49
47:F1:41:PRO:HG3	47:F1:57:ASP:OD1	2.12	0.49
49:F3:27:ASN:O	49:F3:28:ARG:HB2	2.12	0.49
22:FB:53:G:O4'	50:F4:35:ARG:NH2	2.45	0.49
22:FB:1820:G:N1	24:FD:221:GLN:HG2	2.27	0.49
22:FB:1829:C:HO2'	22:FB:1910:A:H1'	1.74	0.49
22:FB:2321:C:O2	22:FB:2353:G:H4'	2.12	0.49
22:FB:2321:C:O2'	22:FB:2353:G:H5''	2.11	0.49
22:FB:2510:A:OP1	28:FH:175:LYS:CB	2.61	0.49
22:FB:2756:A:C6	22:FB:2762:G:H1'	2.48	0.49
22:FB:3871:A:H2'	22:FB:3872:A:C8	2.48	0.49
22:FB:611:C:H2'	22:FB:669:G:N2	2.18	0.49
22:FB:652:C:C2'	22:FB:653:G:H5'	2.42	0.49
22:FB:65:C:O4'	41:FU:69:ILE:HG23	2.12	0.49
22:FB:707:U:H5''	22:FB:1585:A:H61	1.75	0.49
22:FB:7:G:H4'	31:FK:161:GLN:HB2	1.94	0.49
25:FE:117:MET:HE2	25:FE:118:LYS:HG2	1.95	0.49
22:FB:2752:C:C5'	25:FE:166:THR:CB	2.84	0.49
25:FE:199:ARG:CZ	25:FE:199:ARG:HA	2.42	0.49
27:FG:69:LYS:HZ1	27:FG:72:LYS:N	2.10	0.49
35:FO:52:ILE:HD13	35:FO:52:ILE:O	2.12	0.49
37:FQ:40:ARG:HB2	37:FQ:89:ASN:OD1	2.12	0.49
38:FR:101:ARG:NH2	38:FR:102:GLU:HB2	2.25	0.49
42:FV:23:ILE:HG13	42:FV:87:GLU:OE1	2.13	0.49
1:GA:1109:C:OP1	3:GC:176:HIS:NE2	2.45	0.49
1:GA:1140:C:O2'	1:GA:1141:C:H5'	2.12	0.49
1:GA:555:C:H2'	1:GA:556:C:O4'	2.13	0.49
1:GA:618:C:H2'	1:GA:620:C:N4	2.26	0.49
1:GA:127:G:O5'	1:GA:635:G:H1'	2.11	0.49
1:GA:681:C:H2'	1:GA:682:G:H8	1.76	0.49
1:GA:730:G:H2'	1:GA:731:G:O4'	2.12	0.49
1:GA:868:C:H2'	1:GA:869:G:O4'	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:GC:140:ARG:O	3:GC:143:GLU:HB3	2.12	0.49
6:GF:67:MET:HE1	6:GF:75:LEU:HB2	1.95	0.49
1:GA:1346:A:C5'	9:GI:120:ARG:NH1	2.73	0.49
9:GI:9:ARG:HG2	9:GI:10:ARG:N	2.28	0.49
1:GA:676:A:H4'	11:GK:115:PRO:HG3	1.94	0.49
14:GN:27:CYS:HB2	14:GN:43:CYS:SG	2.51	0.49
22:HB:1138:A:C2	52:H6:4:ARG:NH2	2.80	0.49
22:HB:419:G:H5''	53:H7:197:GLU:CA	2.42	0.49
22:HB:1182:U:H2'	22:HB:1183:C:O4'	2.12	0.49
22:HB:1265:G:N1	38:HR:36:PHE:CD1	2.60	0.49
22:HB:1354:A:H3'	22:HB:1410:U:H3	1.77	0.49
22:HB:1750:A:H1'	22:HB:2690:A:C2	2.47	0.49
22:HB:2611:A:O2'	22:HB:2786:G:H1'	2.12	0.49
22:HB:2616:U:O2	25:HE:42:ASP:OD1	2.30	0.49
22:HB:3876:A:H62	53:H7:45:ASP:CA	2.20	0.49
22:HB:512:A:OP1	40:HT:17:GLN:HA	2.13	0.49
22:HB:638:A:H2'	22:HB:639:G:O4'	2.11	0.49
22:HB:652:C:C2'	22:HB:653:G:H5'	2.42	0.49
25:HE:199:ARG:HA	25:HE:199:ARG:CZ	2.42	0.49
26:HF:176:ASN:CG	26:HF:178:TYR:HB3	2.33	0.49
27:HG:37:ASN:HA	27:HG:87:ILE:HD13	1.94	0.49
28:HH:50:LEU:HG	28:HH:69:ARG:HD2	1.94	0.49
30:HJ:48:LYS:NZ	30:HJ:48:LYS:HB3	2.28	0.49
22:HB:2747:C:H1'	31:HK:118:ALA:HB1	1.94	0.49
33:HM:109:LEU:HD12	33:HM:128:ALA:HB1	1.93	0.49
34:HN:99:LYS:N	34:HN:100:PRO:CD	2.76	0.49
38:HR:45:TYR:HD1	38:HR:45:TYR:H	1.60	0.49
40:HT:55:ASP:HA	40:HT:58:ARG:HB3	1.93	0.49
1:IA:1140:C:O2'	1:IA:1141:C:H5'	2.12	0.49
1:IA:1124:G:H1	1:IA:1149:C:H42	1.59	0.49
1:IA:1344:C:O2'	1:IA:1345:U:H5'	2.11	0.49
1:IA:1467:G:O5'	1:IA:1467:G:H8	1.95	0.49
1:IA:246:A:N1	1:IA:278:G:H1'	2.27	0.49
1:IA:710:G:H2'	1:IA:711:G:O4'	2.11	0.49
5:IE:81:GLU:CD	5:IE:91:LEU:H	2.15	0.49
8:IH:111:ILE:HG23	8:IH:120:THR:HA	1.94	0.49
12:IL:100:ILE:HG22	12:IL:101:VAL:N	2.26	0.49
13:IM:91:ARG:HB2	13:IM:98:VAL:HG13	1.93	0.49
1:IA:1114:C:O2	14:IN:61:TRP:CA	2.60	0.49
1:IA:835:U:P	18:IR:64:ARG:NE	2.79	0.49
6:IF:87:ARG:NE	18:IR:75:ILE:O	2.42	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:IM:86:CYS:C	19:IS:74:PHE:O	2.51	0.49
20:IT:56:MET:SD	20:IT:57:ARG:HG3	2.53	0.49
53:J7:67:VAL:HG21	53:J7:120:ALA:HB2	1.95	0.49
22:JB:1166:A:N6	46:JZ:7:ARG:HH12	0.99	0.49
22:JB:1261:G:C2'	38:JR:3:ARG:HA	2.42	0.49
22:JB:1406:A:H61	41:JU:15:LYS:HG3	1.75	0.49
22:JB:2044:G:H4'	22:JB:2045:A:C6	2.47	0.49
22:JB:2211:U:O2'	22:JB:2212:U:H5'	2.12	0.49
22:JB:2241:U:OP1	44:JX:16:SER:OG	2.21	0.49
22:JB:2576:G:H2'	22:JB:2577:A:C8	2.46	0.49
22:JB:3177:C:O2	53:J7:160:LYS:HE2	2.12	0.49
22:JB:493:A:O2'	42:JV:56:LYS:CG	2.60	0.49
22:JB:638:A:H2'	22:JB:639:G:O4'	2.11	0.49
22:JB:64:C:C2	41:JU:69:ILE:C	2.85	0.49
22:JB:703:A:H3'	22:JB:704:G:H8	1.77	0.49
22:JB:699:G:N1	22:JB:801:A:H2	2.09	0.49
22:JB:2573:C:N4	24:JD:239:ARG:CZ	2.70	0.49
22:JB:2614:A:C5'	25:JE:77:ILE:HB	2.43	0.49
26:JF:67:ALA:HB1	26:JF:69:HIS:ND1	2.27	0.49
28:JH:97:LYS:HG2	28:JH:125:VAL:HG11	1.93	0.49
22:JB:1307:U:C2'	35:JO:23:ALA:HB1	2.35	0.49
35:JO:28:LEU:HG	35:JO:32:GLY:HA2	1.95	0.49
35:JO:28:LEU:HA	35:JO:32:GLY:N	2.26	0.49
35:JO:52:ILE:O	35:JO:52:ILE:HD13	2.13	0.49
22:JB:1747:G:C6	37:JQ:126:LYS:HA	2.41	0.49
46:JZ:13:PRO:O	46:JZ:17:VAL:HG23	2.12	0.49
1:AA:1116:C:C2'	1:AA:1117:G:H5''	2.41	0.49
1:AA:1229:A:C6	13:AM:120:LYS:HB3	2.47	0.49
1:AA:1433:A:H4'	37:BQ:116:ARG:CZ	2.42	0.49
1:AA:615:C:H2'	1:AA:616:G:C8	2.47	0.49
1:AA:643:C:H2'	1:AA:644:G:C8	2.47	0.49
1:AA:715:A:H2'	1:AA:716:A:C8	2.47	0.49
1:AA:98:U:H2'	1:AA:99:C:O4'	2.12	0.49
2:AB:210:SER:O	2:AB:214:ILE:HG12	2.11	0.49
3:AC:113:ALA:N	3:AC:114:PRO:CD	2.74	0.49
3:AC:83:ARG:HA	3:AC:86:VAL:CG2	2.42	0.49
4:AD:107:ARG:HH11	4:AD:107:ARG:CA	2.18	0.49
1:AA:1308:U:OP1	13:AM:110:ARG:CD	2.60	0.49
13:AM:27:LYS:C	13:AM:29:ARG:H	2.16	0.49
13:AM:46:LYS:HG2	13:AM:47:ASP:N	2.27	0.49
1:AA:668:G:C2'	15:AO:45:VAL:HG13	1.92	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:AO:70:LEU:N	15:AO:70:LEU:HD22	2.27	0.49
1:AA:1014:A:H4'	19:AS:14:HIS:CE1	2.47	0.49
22:BB:1011:A:H2'	22:BB:1012:A:C8	2.47	0.49
22:BB:1514:C:OP2	22:BB:1593:C:C5'	2.60	0.49
22:BB:1789:U:H3'	22:BB:1790:G:H8	1.78	0.49
22:BB:1821:A:N6	22:BB:1959:U:H1'	2.28	0.49
22:BB:540:G:C2	22:BB:2018:G:H5''	2.47	0.49
22:BB:203:G:O3'	22:BB:234:C:H4'	2.13	0.49
22:BB:2207:G:H2'	22:BB:2208:U:C6	2.48	0.49
22:BB:2752:C:H4'	25:BE:164:ARG:HB2	1.95	0.49
22:BB:3196:G:H1	22:BB:2204:A:N6	2.09	0.49
22:BB:424:G:P	22:BB:2386:G:OP2	2.70	0.49
22:BB:59:G:H4'	45:BY:44:ARG:CZ	2.42	0.49
22:BB:647:G:H4'	22:BB:650:U:OP1	2.12	0.49
22:BB:652:C:H2'	22:BB:653:G:H5'	1.94	0.49
22:BB:687:G:C5'	26:BF:68:ARG:HH21	2.26	0.49
22:BB:695:G:H4'	50:B4:30:ILE:HG21	1.94	0.49
26:BF:87:LYS:HE2	26:BF:88:PRO:HD2	1.94	0.49
27:BG:150:ARG:HD2	27:BG:150:ARG:H	1.76	0.49
27:BG:67:ILE:HG23	27:BG:84:PRO:HA	1.94	0.49
28:BH:18:ASN:HB2	28:BH:23:VAL:O	2.13	0.49
22:BB:2760:G:H5'	31:BK:146:THR:CB	2.42	0.49
22:BB:2795:A:O4'	35:BO:5:LYS:HG2	2.11	0.49
37:BQ:12:LEU:HA	37:BQ:16:ILE:CB	2.42	0.49
37:BQ:40:ARG:HB2	37:BQ:89:ASN:OD1	2.12	0.49
1:CA:439:A:H1'	4:CD:122:ARG:NH1	2.28	0.49
1:CA:610:G:H2'	1:CA:610:G:N3	2.26	0.49
1:CA:793:U:O4	1:CA:1516:G:C4'	2.49	0.49
1:CA:1205:U:C4'	3:CC:195:VAL:HG21	2.41	0.49
4:CD:173:TRP:HB3	4:CD:189:PRO:HB3	1.94	0.49
5:CE:11:ILE:HG12	5:CE:31:LEU:O	2.13	0.49
8:CH:9:MET:SD	8:CH:32:LYS:HB3	2.52	0.49
1:CA:644:G:C2'	8:CH:90:GLY:N	2.76	0.49
9:CI:9:ARG:HG2	9:CI:10:ARG:N	2.28	0.49
1:CA:1344:C:O4'	9:CI:120:ARG:O	2.29	0.49
1:CA:1349:A:H5''	9:CI:121:ARG:HB2	1.94	0.49
12:CL:75:HIS:HB3	12:CL:102:ARG:CZ	2.42	0.49
16:CP:55:ARG:CZ	16:CP:58:TYR:HB2	2.42	0.49
22:DB:3866:A:H61	53:D7:45:ASP:CG	2.16	0.49
22:DB:1136:G:C5'	52:D6:4:ARG:HH21	2.24	0.49
22:DB:1232:U:H2'	22:DB:1243:G:N1	2.21	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:DB:1353:A:H4'	22:DB:1407:G:H1'	1.95	0.49
22:DB:1463:A:H2'	22:DB:1464:A:C8	2.46	0.49
22:DB:48:A:N6	22:DB:153:A:N6	2.55	0.49
22:DB:15:G:N1	22:DB:536:A:N6	2.60	0.49
22:DB:1887:G:O6	22:DB:1888:C:C4	2.64	0.49
22:DB:1926:U:O2	22:DB:1928:G:H4'	2.12	0.49
22:DB:2237:C:OP2	44:DX:4:LYS:CG	2.60	0.49
22:DB:2551:A:N7	25:DE:144:ARG:CB	2.51	0.49
22:DB:2661:G:C8	25:DE:11:MET:CB	2.94	0.49
22:DB:2805:G:N2	22:DB:2811:G:H21	2.11	0.49
22:DB:3871:A:H2'	22:DB:3872:A:C8	2.48	0.49
22:DB:464:G:N1	50:D4:39:ARG:CZ	2.62	0.49
22:DB:483:A:H2'	22:DB:484:G:H5'	1.93	0.49
22:DB:652:C:H2'	22:DB:653:G:H5'	1.94	0.49
22:DB:688:A:C2	22:DB:2422:C:H1'	2.47	0.49
22:DB:841:G:N3	22:DB:841:G:H2'	2.27	0.49
22:DB:967:G:H5"	34:DN:77:LYS:CA	2.42	0.49
22:DB:2728:A:C1'	28:DH:67:LEU:CB	2.90	0.49
31:DK:128:GLU:HG2	31:DK:129:HIS:N	2.28	0.49
34:DN:36:ILE:HD13	34:DN:36:ILE:N	2.28	0.49
35:DO:40:LYS:NZ	35:DO:44:LEU:HD13	2.27	0.49
42:DV:105:ARG:HB3	42:DV:113:THR:O	2.12	0.49
43:DW:3:LEU:HG	43:DW:56:VAL:HG22	1.94	0.49
44:DX:66:LYS:HB2	44:DX:66:LYS:NZ	2.27	0.49
45:DY:55:THR:O	45:DY:56:VAL:C	2.49	0.49
1:EA:1119:C:H2'	1:EA:1120:G:C8	2.46	0.49
1:EA:1423:G:H2'	1:EA:1424:C:C6	2.47	0.49
1:EA:1467:G:H8	1:EA:1467:G:O5'	1.95	0.49
1:EA:1524:C:OP1	11:EK:123:LYS:O	2.31	0.49
1:EA:362:G:H2'	1:EA:362:G:N3	2.27	0.49
1:EA:757:U:H2'	1:EA:758:G:C8	2.47	0.49
1:EA:813:U:O2'	1:EA:814:A:H5'	2.12	0.49
1:EA:933:G:C2'	1:EA:934:C:H4'	2.41	0.49
2:EB:142:LEU:O	2:EB:146:GLN:HG3	2.12	0.49
5:EE:76:ILE:O	5:EE:93:PRO:HB3	2.12	0.49
6:EF:14:LEU:HD22	6:EF:18:GLN:NE2	2.27	0.49
6:EF:29:ALA:HA	6:EF:33:TYR:CD1	2.46	0.49
6:EF:67:MET:HE1	6:EF:75:LEU:HB2	1.94	0.49
7:EG:64:GLN:NE2	7:EG:68:ASN:HD21	2.07	0.49
8:EH:41:ARG:HG2	8:EH:120:THR:HG21	1.95	0.49
8:EH:97:VAL:HG13	8:EH:98:LYS:N	2.27	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:EI:70:LYS:O	9:EI:74:ILE:HG13	2.12	0.49
10:EJ:23:ILE:HG23	10:EJ:85:LEU:HD22	1.94	0.49
11:EK:67:ASP:HA	11:EK:70:LYS:HE3	1.94	0.49
14:EN:27:CYS:HB2	14:EN:43:CYS:SG	2.51	0.49
15:EO:62:GLN:HA	15:EO:65:ARG:HB2	1.94	0.49
1:EA:1014:A:C8	19:ES:34:TRP:CE3	3.00	0.49
22:FB:3866:A:C4	53:F7:195:LYS:O	2.66	0.49
23:FA:88:C:H3'	23:FA:89:G:H8	1.78	0.49
22:FB:1011:A:H2'	22:FB:1012:A:C8	2.47	0.49
22:FB:1353:A:H4'	22:FB:1407:G:H1'	1.95	0.49
22:FB:1420:A:H2'	22:FB:1421:U:H5	1.77	0.49
22:FB:1488:G:C5	22:FB:1533:G:N1	2.74	0.49
22:FB:1581:C:C5	24:FD:84:TYR:OH	2.59	0.49
22:FB:15:G:N1	22:FB:536:A:N6	2.60	0.49
22:FB:1675:C:C5'	25:FE:134:TRP:CZ3	2.70	0.49
22:FB:18:U:H1'	22:FB:564:U:OP1	2.10	0.49
22:FB:2262:C:H5'	49:F3:9:ILE:HD12	1.95	0.49
22:FB:2265:A:C2	49:F3:31:THR:CB	2.91	0.49
22:FB:2399:C:C6	51:F5:32:GLN:N	2.80	0.49
22:FB:456:C:P	38:FR:2:PRO:CD	2.98	0.49
22:FB:483:A:H2'	22:FB:484:G:H5'	1.93	0.49
22:FB:841:G:N3	22:FB:841:G:H2'	2.27	0.49
22:FB:955:G:O2'	22:FB:956:A:H5''	2.12	0.49
26:FF:94:THR:O	26:FF:95:LEU:HB3	2.12	0.49
30:FJ:48:LYS:HB3	30:FJ:48:LYS:NZ	2.27	0.49
31:FK:110:LEU:HG	31:FK:111:LYS:H	1.77	0.49
31:FK:119:LEU:O	31:FK:119:LEU:HD13	2.12	0.49
31:FK:128:GLU:HG2	31:FK:129:HIS:N	2.28	0.49
31:FK:67:ARG:HA	31:FK:70:PHE:CD2	2.48	0.49
35:FO:12:ARG:HD3	35:FO:13:ASN:H	1.77	0.49
37:FQ:110:LEU:HA	37:FQ:113:LYS:HE2	1.94	0.49
22:FB:75:C:O2'	45:FY:48:ARG:HG2	2.13	0.49
22:FB:1000:G:O6	46:FZ:10:ILE:HG12	2.12	0.49
1:GA:1124:G:H1	1:GA:1149:C:H42	1.59	0.49
1:GA:1350:A:N6	9:GI:118:LYS:CE	2.47	0.49
1:GA:1373:G:O2'	7:GG:31:MET:HE3	2.11	0.49
1:GA:273:A:H1'	17:GQ:15:MET:CB	2.42	0.49
1:GA:277:C:OP1	17:GQ:41:LYS:CD	2.60	0.49
1:GA:339:C:C5'	32:HL:109:ARG:HE	2.25	0.49
1:GA:407:G:H2'	1:GA:408:A:O4'	2.12	0.49
1:GA:434:U:N3	1:GA:435:C:N4	2.59	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:GA:497:A:O2'	1:GA:498:U:P	2.70	0.49
1:GA:585:G:H1'	1:GA:879:C:H5'	1.93	0.49
1:GA:934:C:H6	1:GA:1345:U:OP2	1.96	0.49
3:GC:83:ARG:HA	3:GC:86:VAL:CG2	2.42	0.49
1:GA:1248:A:O2'	9:GI:70:LYS:CE	2.59	0.49
11:GK:67:ASP:HA	11:GK:70:LYS:HE3	1.94	0.49
13:GM:57:ARG:HG3	13:GM:61:GLU:OE2	2.12	0.49
14:GN:29:ARG:O	14:GN:33:VAL:HG13	2.11	0.49
1:GA:658:G:C4'	15:GO:5:LYS:HB3	2.40	0.49
15:GO:70:LEU:HD22	15:GO:70:LEU:N	2.27	0.49
47:H1:41:PRO:HG3	47:H1:57:ASP:OD1	2.12	0.49
51:H5:30:ARG:O	51:H5:31:HIS:HB2	2.12	0.49
22:HB:2339:A:P	51:H5:49:VAL:O	2.70	0.49
53:H7:174:MSE:C	53:H7:175:LYS:HD2	2.33	0.49
22:HB:1043:A:O4'	52:H6:23:VAL:CG2	2.49	0.49
22:HB:1234:C:H2'	22:HB:1235:C:C6	2.48	0.49
22:HB:15:G:N1	22:HB:536:A:N6	2.60	0.49
22:HB:162:C:H2'	22:HB:163:A:H8	1.77	0.49
22:HB:1759:A:H2'	22:HB:1760:G:C8	2.48	0.49
22:HB:197:G:H4'	22:HB:211:U:O5'	2.13	0.49
22:HB:922:A:C2	22:HB:2243:C:O2'	2.65	0.49
22:HB:2265:A:H5''	22:HB:2266:A:O4'	2.12	0.49
22:HB:1750:A:H4'	22:HB:2695:C:H1'	1.91	0.49
22:HB:2805:G:N2	22:HB:2811:G:H21	2.11	0.49
22:HB:3122:U:C2'	53:H7:158:LYS:HZ1	2.25	0.49
22:HB:3116:G:P	22:HB:3166:G:H21	2.34	0.49
22:HB:505:G:O4'	40:HT:78:ASN:CB	2.37	0.49
22:HB:696:U:O3'	50:H4:16:HIS:CE1	2.65	0.49
22:HB:762:A:OP1	40:HT:111:ARG:NH2	2.46	0.49
22:HB:77:C:H2'	22:HB:78:C:C6	2.48	0.49
22:HB:699:G:N1	22:HB:801:A:H2	2.09	0.49
22:HB:887:G:H4'	43:HW:170:SER:CB	2.41	0.49
22:HB:2717:G:C2	31:HK:117:GLU:O	2.64	0.49
33:HM:95:ALA:HB2	33:HM:100:ARG:CB	2.43	0.49
34:HN:43:ILE:CG2	34:HN:48:ILE:HB	2.42	0.49
34:HN:9:LYS:HD2	34:HN:9:LYS:N	2.28	0.49
38:HR:41:ASN:C	38:HR:43:ALA:H	2.13	0.49
39:HS:14:VAL:HG13	39:HS:17:GLY:N	2.26	0.49
34:HN:63:GLY:C	43:HW:112:LEU:CD2	2.81	0.49
43:HW:67:LYS:HD3	43:HW:82:ASP:HB3	1.93	0.49
46:HZ:10:ILE:HG22	46:HZ:11:GLY:N	2.28	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:HB:941:U:P	46:HZ:23:LEU:CB	3.00	0.49
1:IA:1101:A:O4'	2:IB:98:LEU:O	2.30	0.49
1:IA:1278:U:H5''	1:IA:1279:A:O4'	2.12	0.49
1:IA:814:A:C4'	1:IA:1511:G:O4'	2.53	0.49
1:IA:261:U:O4	20:IT:83:ARG:CZ	2.52	0.49
1:IA:34:C:H2'	1:IA:35:G:H8	1.77	0.49
1:IA:497:A:O2'	1:IA:498:U:P	2.70	0.49
1:IA:615:C:H2'	1:IA:616:G:C8	2.47	0.49
1:IA:618:C:H2'	1:IA:620:C:N4	2.26	0.49
1:IA:673:G:O4'	18:IR:75:ILE:HG23	2.12	0.49
1:IA:989:C:O2'	1:IA:990:C:H5'	2.12	0.49
1:IA:98:U:H2'	1:IA:99:C:O4'	2.12	0.49
1:IA:1056:U:O2'	3:IC:156:ARG:CD	2.60	0.49
1:IA:1190:G:P	3:IC:4:LYS:N	2.77	0.49
3:IC:64:VAL:O	3:IC:99:VAL:HG23	2.13	0.49
1:IA:510:A:O2'	4:ID:43:HIS:CD2	2.65	0.49
5:IE:99:GLY:HA2	5:IE:116:THR:OG1	2.12	0.49
6:IF:43:LEU:HD22	18:IR:35:ARG:CD	2.41	0.49
9:II:25:LYS:HE2	9:II:34:ASN:ND2	2.28	0.49
10:IJ:30:SER:CB	10:IJ:80:LYS:HB3	2.43	0.49
17:IQ:59:ILE:HG21	17:IQ:71:PHE:HB3	1.94	0.49
18:IR:44:LEU:HG	18:IR:45:SER:H	1.78	0.49
49:J3:35:LEU:HD21	49:J3:37:LEU:HD13	1.94	0.49
53:J7:174:MSE:C	53:J7:175:LYS:HD2	2.33	0.49
22:JB:3176:A:OP1	53:J7:33:ILE:HD12	2.11	0.49
23:JA:88:C:H3'	23:JA:89:G:H8	1.77	0.49
23:JA:9:G:H5'	36:JP:32:TYR:CE1	2.47	0.49
22:JB:1256:C:O2	33:JM:14:LYS:O	2.29	0.49
22:JB:1271:C:O2	26:JF:78:VAL:HG11	2.11	0.49
22:JB:1746:A:H2'	22:JB:1747:G:H5'	1.94	0.49
22:JB:1790:G:H4'	22:JB:1791:C:C5	2.47	0.49
22:JB:2299:A:H5''	22:JB:2300:G:O5'	2.11	0.49
22:JB:2708:U:P	32:JL:82:LYS:CD	3.00	0.49
22:JB:2823:G:H5'	37:JQ:103:LYS:CD	2.41	0.49
22:JB:512:A:H4'	40:JT:16:GLN:N	2.22	0.49
22:JB:652:C:C2'	22:JB:653:G:H5'	2.42	0.49
22:JB:688:A:C2	22:JB:2422:C:H1'	2.47	0.49
22:JB:719:A:C8	22:JB:738:G:N2	2.79	0.49
22:JB:955:G:O2'	22:JB:956:A:H5''	2.12	0.49
25:JE:156:MET:HG2	25:JE:157:ALA:H	1.77	0.49
26:JF:26:VAL:C	26:JF:27:LEU:HD22	2.32	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:JG:33:LYS:HZ3	27:JG:157:VAL:HG21	1.77	0.49
27:JG:67:ILE:HG23	27:JG:84:PRO:HA	1.94	0.49
34:JN:107:VAL:O	43:JW:113:VAL:HG22	2.13	0.49
23:JA:49:C:P	36:JP:94:TYR:HH	2.29	0.49
22:JB:1201:G:OP1	39:JS:84:THR:HG23	2.11	0.49
43:JW:153:LYS:HB2	43:JW:153:LYS:NZ	2.28	0.49
44:JX:45:PHE:H	44:JX:76:ALA:H	1.58	0.49
1:AA:107:G:C2	1:AA:108:G:H1'	2.48	0.49
1:AA:1278:U:H5''	1:AA:1279:A:O4'	2.12	0.49
1:AA:407:G:H2'	1:AA:408:A:O4'	2.12	0.49
1:AA:413:G:N2	4:AD:31:CYS:SG	2.84	0.49
1:AA:520:A:N6	12:AL:49:ASN:HA	2.28	0.49
1:AA:667:G:H1	15:AO:46:HIS:HD2	1.12	0.49
4:AD:126:ILE:HG23	4:AD:148:VAL:HA	1.93	0.49
7:AG:27:ILE:HG12	7:AG:43:PHE:CZ	2.47	0.49
1:AA:1130:A:OP1	9:AI:20:ARG:NH1	2.45	0.49
9:AI:70:LYS:O	9:AI:74:ILE:HG13	2.12	0.49
1:AA:1228:C:N3	13:AM:120:LYS:HB2	2.27	0.49
19:AS:15:LEU:HA	19:AS:18:LYS:HE3	1.94	0.49
20:AT:84:LEU:HA	20:AT:87:LYS:HD2	1.93	0.49
48:B2:38:GLY:C	48:B2:39:LYS:HD2	2.33	0.49
22:BB:874:A:N3	23:BA:81:C:H4'	2.28	0.49
22:BB:1135:C:H1'	52:B6:36:GLN:NE2	2.28	0.49
22:BB:1143:A:C1'	31:BK:111:LYS:CG	2.68	0.49
22:BB:15:G:N1	22:BB:536:A:N6	2.60	0.49
22:BB:1887:G:C5	22:BB:1888:C:C5	3.00	0.49
1:AA:1495:U:C1'	22:BB:1895:A:H2	2.22	0.49
22:BB:2255:G:OP2	34:BN:85:GLY:O	2.31	0.49
22:BB:2532:G:H2'	22:BB:2533:U:O4'	2.12	0.49
22:BB:3871:A:H2'	22:BB:3872:A:C8	2.48	0.49
22:BB:61:U:O4	22:BB:91:A:N6	2.46	0.49
22:BB:955:G:O2'	22:BB:956:A:H5''	2.12	0.49
24:BD:180:GLY:O	24:BD:183:ARG:HG2	2.11	0.49
22:BB:1807:A:C5'	24:BD:88:ARG:CZ	2.87	0.49
26:BF:177:VAL:HG13	26:BF:180:ILE:HD11	1.93	0.49
22:BB:2422:C:C3'	26:BF:62:LYS:HE3	2.41	0.49
28:BH:77:LYS:HG2	28:BH:138:LYS:HD3	1.94	0.49
30:BJ:23:VAL:HB	30:BJ:27:LEU:HD12	1.93	0.49
22:BB:1075:C:OP1	30:BJ:84:ILE:CD1	2.60	0.49
31:BK:119:LEU:HD13	31:BK:119:LEU:O	2.12	0.49
32:BL:46:HIS:HB2	32:BL:121:ARG:HH21	1.78	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:BQ:38:LYS:NZ	37:BQ:38:LYS:HB3	2.27	0.49
38:BR:21:ALA:HB1	38:BR:29:SER:HA	1.93	0.49
22:BB:1631:C:C2	40:BT:107:ILE:HG13	2.39	0.49
1:CA:108:G:C8	20:CT:12:ALA:CB	2.95	0.49
1:CA:1124:G:H1	1:CA:1149:C:H42	1.59	0.49
1:CA:1349:A:OP1	9:CI:120:ARG:N	2.46	0.49
1:CA:1428:A:O2'	22:DB:1720:G:C1'	2.60	0.49
1:CA:615:C:H2'	1:CA:616:G:C8	2.47	0.49
1:CA:757:U:H2'	1:CA:758:G:C8	2.47	0.49
1:CA:973:G:H2'	14:CN:29:ARG:HH22	1.77	0.49
3:CC:113:ALA:N	3:CC:114:PRO:CD	2.75	0.49
7:CG:46:ALA:HB1	7:CG:120:ILE:HG21	1.95	0.49
8:CH:114:THR:HB	8:CH:129:VAL:HB	1.94	0.49
9:CI:25:LYS:HE2	9:CI:34:ASN:ND2	2.28	0.49
10:CJ:28:ARG:HG2	10:CJ:34:VAL:HG21	1.95	0.49
11:CK:43:SER:OG	11:CK:67:ASP:HB2	2.13	0.49
12:CL:83:VAL:HA	12:CL:105:TYR:CB	2.42	0.49
13:CM:109:THR:HG23	13:CM:110:ARG:HD2	1.94	0.49
13:CM:15:VAL:HG22	13:CM:45:VAL:HG22	1.94	0.49
13:CM:46:LYS:HG2	13:CM:47:ASP:N	2.28	0.49
16:CP:31:LYS:HG2	16:CP:32:TYR:H	1.78	0.49
1:CA:279:A:N1	17:CQ:95:TYR:O	2.40	0.49
22:DB:801:A:C2'	50:D4:4:THR:OG1	2.56	0.49
52:D6:31:LYS:HG3	52:D6:32:HIS:CD2	2.47	0.49
22:DB:1148:G:O2'	31:DK:55:ALA:O	2.30	0.49
22:DB:1182:U:H2'	22:DB:1183:C:O4'	2.12	0.49
22:DB:777:A:C2	22:DB:1781:C:H5'	2.42	0.49
22:DB:16:G:H2'	22:DB:17:G:C8	2.46	0.49
22:DB:2207:G:H2'	22:DB:2208:U:C6	2.48	0.49
22:DB:2462:C:HO2'	34:DN:50:ALA:HB3	1.70	0.49
22:DB:2532:G:H2'	22:DB:2533:U:O4'	2.12	0.49
22:DB:425:A:N6	22:DB:2391:A:C1'	2.75	0.49
22:DB:497:C:H4'	40:DT:80:LEU:HD13	1.95	0.49
22:DB:868:U:O2	44:DX:25:LYS:CG	2.61	0.49
22:DB:931:G:H5'	23:DA:83:C:O4'	2.13	0.49
22:DB:332:C:H5''	26:DF:130:THR:HG21	1.95	0.49
26:DF:22:VAL:HG23	26:DF:109:ALA:CB	2.43	0.49
28:DH:97:LYS:HG2	28:DH:125:VAL:HG11	1.93	0.49
29:DI:17:VAL:O	29:DI:17:VAL:HG22	2.10	0.49
31:DK:119:LEU:HD13	31:DK:119:LEU:O	2.12	0.49
32:DL:91:PHE:N	37:DQ:79:ARG:CD	2.76	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DO:52:ILE:HD13	35:DO:52:ILE:O	2.13	0.49
36:DP:17:VAL:O	36:DP:17:VAL:HG13	2.12	0.49
22:DB:1164:C:C4'	38:DR:76:TYR:CE2	2.88	0.49
22:DB:1630:A:C4	40:DT:108:PRO:HB3	2.44	0.49
1:EA:107:G:C2	1:EA:108:G:H1'	2.48	0.49
1:EA:1238:A:H2'	1:EA:1238:A:N3	2.28	0.49
1:EA:1360:A:OP2	14:EN:21:TYR:HB3	2.13	0.49
1:EA:1466:C:H3'	1:EA:1467:G:C8	2.47	0.49
1:EA:1517:G:C4	22:FB:1902:A:O2'	2.61	0.49
1:EA:33:A:H4'	1:EA:363:A:O2'	2.12	0.49
1:EA:620:C:H2'	1:EA:621:A:C8	2.48	0.49
1:EA:727:G:H1'	1:EA:731:G:N1	2.27	0.49
2:EB:152:PHE:HZ	2:EB:159:PRO:HD3	1.77	0.49
4:ED:173:TRP:HE3	4:ED:193:ASP:HB3	1.77	0.49
11:EK:23:ALA:HB3	11:EK:86:GLY:O	2.13	0.49
51:F5:30:ARG:O	51:F5:31:HIS:HB2	2.12	0.49
22:FB:1135:C:H4'	52:F6:4:ARG:HD2	1.95	0.49
22:FB:1049:C:N3	22:FB:1129:A:N3	2.61	0.49
22:FB:1149:G:OP1	31:FK:55:ALA:HB2	2.13	0.49
22:FB:1455:C:H4'	22:FB:1643:A:O2'	2.13	0.49
22:FB:1739:G:H2'	22:FB:1740:G:C8	2.48	0.49
22:FB:1789:U:H3'	22:FB:1790:G:H8	1.78	0.49
22:FB:191:G:H2'	22:FB:192:G:O4'	2.12	0.49
22:FB:2372:A:O5'	33:FM:60:LEU:HA	2.12	0.49
22:FB:238:G:H2'	22:FB:239:A:C8	2.47	0.49
22:FB:2445:C:O2	34:FN:120:ARG:NE	2.45	0.49
22:FB:2637:C:O5'	28:FH:179:THR:HG21	2.13	0.49
22:FB:2820:C:OP1	37:FQ:105:TYR:OH	2.26	0.49
22:FB:2701:A:C1'	22:FB:2848:A:C8	2.95	0.49
22:FB:347:C:H1'	42:FV:10:HIS:CD2	2.46	0.49
22:FB:875:G:H2'	22:FB:876:A:H8	1.78	0.49
24:FD:270:ILE:HD13	24:FD:270:ILE:N	2.27	0.49
22:FB:1581:C:OP2	24:FD:28:ARG:NH2	2.45	0.49
22:FB:757:U:OP2	25:FE:130:GLY:O	2.31	0.49
28:FH:123:PHE:HA	28:FH:133:VAL:HG13	1.94	0.49
28:FH:138:LYS:H	28:FH:141:VAL:HG13	1.78	0.49
30:FJ:39:LYS:HB3	30:FJ:39:LYS:NZ	2.27	0.49
30:FJ:52:ILE:H	30:FJ:53:ILE:HD12	1.77	0.49
33:FM:100:ARG:HE	33:FM:101:ARG:NH1	2.10	0.49
25:FE:176:ARG:HD2	37:FQ:20:HIS:HE1	1.43	0.49
40:FT:27:VAL:HG23	40:FT:125:THR:H	1.76	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:FT:55:ASP:HA	40:FT:58:ARG:HB3	1.93	0.49
40:FT:91:PHE:HZ	40:FT:133:ASN:HB2	1.77	0.49
41:FU:23:GLY:O	41:FU:82:LEU:HD13	2.12	0.49
42:FV:105:ARG:HB3	42:FV:113:THR:O	2.12	0.49
42:FV:32:GLN:NE2	42:FV:49:GLU:HB2	2.28	0.49
36:FP:47:ARG:CD	44:FX:78:PHE:CD1	2.95	0.49
1:GA:1350:A:H2'	1:GA:1351:U:C6	2.47	0.49
1:GA:1367:C:OP1	9:GI:114:TYR:C	2.50	0.49
1:GA:927:G:O4'	1:GA:1531:A:C2	2.65	0.49
1:GA:32:A:H2'	1:GA:33:A:C8	2.48	0.49
1:GA:59:A:H5''	1:GA:387:U:H5''	1.94	0.49
1:GA:824:C:C1'	8:GH:2:LEU:HA	2.43	0.49
1:GA:857:C:H2'	1:GA:858:G:H8	1.78	0.49
1:GA:932:C:H5'	7:GG:4:ARG:CA	2.43	0.49
1:GA:98:U:H2'	1:GA:99:C:O4'	2.12	0.49
3:GC:28:GLN:CG	3:GC:32:LEU:HD13	2.42	0.49
3:GC:64:VAL:O	3:GC:99:VAL:HG23	2.12	0.49
6:GF:14:LEU:HD22	6:GF:18:GLN:NE2	2.27	0.49
1:GA:1349:A:C2	7:GG:33:ASP:O	2.65	0.49
9:GI:25:LYS:HE2	9:GI:34:ASN:ND2	2.28	0.49
1:GA:1309:G:O5'	13:GM:99:ARG:NH1	2.45	0.49
18:GR:44:LEU:HG	18:GR:45:SER:H	1.77	0.49
22:HB:700:C:OP1	50:H4:2:LYS:HG2	2.13	0.49
51:H5:8:LYS:O	51:H5:11:LYS:HB2	2.11	0.49
52:H6:29:ASN:ND2	52:H6:30:VAL:HG23	2.27	0.49
53:H7:67:VAL:HG21	53:H7:120:ALA:HB2	1.95	0.49
22:HB:1043:A:H4'	52:H6:23:VAL:HG22	1.87	0.49
22:HB:1398:G:C2	22:HB:1416:A:C4	3.01	0.49
22:HB:1746:A:H2'	22:HB:1747:G:H5'	1.94	0.49
22:HB:794:A:H1'	22:HB:1767:G:N2	2.28	0.49
22:HB:1788:C:H5'	24:HD:254:THR:CA	2.42	0.49
22:HB:1789:U:H3'	22:HB:1790:G:H8	1.78	0.49
22:HB:1923:U:H2'	22:HB:1925:C:N4	2.27	0.49
22:HB:2015:G:N1	22:HB:2432:A:C2	2.78	0.49
22:HB:2437:G:H2'	22:HB:2469:G:C6	2.48	0.49
22:HB:2576:G:H2'	22:HB:2577:A:C8	2.47	0.49
22:HB:2615:U:C4'	25:HE:79:ARG:NH2	2.76	0.49
22:HB:2689:C:H2'	22:HB:2690:A:C8	2.48	0.49
22:HB:2757:G:H4'	22:HB:2759:U:OP1	2.12	0.49
22:HB:8:A:N6	22:HB:2869:U:C4	2.80	0.49
22:HB:597:U:HO2'	26:HF:84:PHE:HZ	0.51	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:HB:603:C:C4	22:HB:604:U:C4	3.00	0.49
22:HB:640:C:H4'	22:HB:660:G:N2	2.22	0.49
22:HB:955:G:O2'	22:HB:956:A:H5''	2.13	0.49
31:HK:139:ARG:HH22	31:HK:142:ARG:NH1	2.06	0.49
31:HK:57:LEU:HD13	31:HK:60:SER:HB3	1.95	0.49
22:HB:2653:A:O3'	32:HL:43:ARG:NE	2.46	0.49
22:HB:632:A:P	33:HM:101:ARG:HH22	2.33	0.49
42:HV:23:ILE:HG13	42:HV:87:GLU:OE1	2.12	0.49
42:HV:32:GLN:NE2	42:HV:49:GLU:HB2	2.28	0.49
1:IA:1350:A:H2'	1:IA:1351:U:C6	2.47	0.49
1:IA:1447:A:N3	1:IA:1447:A:H2'	2.27	0.49
1:IA:730:G:H2'	1:IA:731:G:O4'	2.12	0.49
1:IA:825:G:H21	8:IH:11:THR:HG21	0.71	0.49
1:IA:716:A:O2'	11:IK:117:ASN:CB	2.61	0.49
1:IA:684:A:C1'	11:IK:39:PRO:N	2.56	0.49
12:IL:90:VAL:CG1	12:IL:92:ASP:H	2.25	0.49
1:IA:969:A:N6	13:IM:126:LYS:HD3	2.28	0.49
13:IM:29:ARG:HH12	13:IM:66:LEU:HD22	1.76	0.49
16:IP:55:ARG:CZ	16:IP:58:TYR:HB2	2.42	0.49
1:IA:375:U:C5'	16:IP:6:LEU:HD22	2.40	0.49
50:J4:22:MET:HE2	50:J4:25:LYS:HE3	1.95	0.49
22:JB:2733:A:N3	52:J6:15:LYS:CE	2.74	0.49
22:JB:3176:A:P	53:J7:206:LYS:HE2	2.51	0.49
22:JB:3167:U:C4	53:J7:98:ARG:O	2.66	0.49
22:JB:1353:A:H4'	22:JB:1407:G:H1'	1.95	0.49
22:JB:1542:G:C2'	22:JB:1560:A:H61	2.25	0.49
22:JB:1759:A:H2'	22:JB:1760:G:C8	2.48	0.49
22:JB:219:G:O5'	51:J5:62:LEU:HD13	2.12	0.49
22:JB:2261:G:H4'	22:JB:2262:C:OP2	2.13	0.49
22:JB:2325:A:H2'	49:J3:25:THR:OG1	2.12	0.49
22:JB:2506:C:H5''	52:J6:32:HIS:HA	1.94	0.49
22:JB:2542:U:O3'	32:JL:41:ASN:HB3	2.12	0.49
22:JB:3876:A:N3	53:J7:43:LYS:O	2.45	0.49
22:JB:670:U:H2'	22:JB:671:A:C8	2.48	0.49
22:JB:758:G:O2'	22:JB:761:G:H1'	2.12	0.49
22:JB:77:C:H2'	22:JB:78:C:C6	2.48	0.49
22:JB:786:U:O2'	24:JD:49:ILE:CA	2.59	0.49
28:JH:123:PHE:HA	28:JH:133:VAL:HG13	1.93	0.49
28:JH:77:LYS:HG2	28:JH:138:LYS:HD3	1.95	0.49
28:JH:25:LYS:HZ3	28:JH:32:GLU:HA	1.78	0.49
22:JB:1149:G:OP2	31:JK:132:PHE:CZ	2.65	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:JQ:40:ARG:HB2	37:JQ:89:ASN:OD1	2.12	0.49
38:JR:92:ARG:O	38:JR:95:LEU:HB3	2.12	0.49
40:JT:106:LEU:HA	40:JT:117:ILE:CD1	2.42	0.49
42:JV:33:THR:O	42:JV:35:LYS:HG3	2.12	0.49
1:AA:1124:G:H1	1:AA:1149:C:H42	1.59	0.49
1:AA:1355:G:H2'	1:AA:1356:G:C8	2.48	0.49
1:AA:620:C:H2'	1:AA:621:A:C8	2.48	0.49
1:AA:836:G:OP1	18:AR:61:LYS:CE	2.60	0.49
1:AA:865:A:H2	1:AA:918:A:H4'	1.76	0.49
1:AA:953:G:H5'	13:AM:124:PRO:CD	2.18	0.49
1:AA:973:G:H5''	14:AN:41:ARG:NH2	2.28	0.49
2:AB:31:TYR:O	2:AB:42:ILE:HA	2.13	0.49
5:AE:11:ILE:HG12	5:AE:31:LEU:O	2.12	0.49
7:AG:46:ALA:HB1	7:AG:120:ILE:HG21	1.95	0.49
1:AA:876:G:C5	8:AH:3:THR:OG1	2.65	0.49
12:AL:47:LYS:HG3	12:AL:48:PRO:CD	2.37	0.49
1:AA:1228:C:C2	13:AM:120:LYS:CA	2.94	0.49
1:AA:624:C:C5'	16:AP:11:SER:N	2.73	0.49
18:AR:31:LEU:O	18:AR:69:THR:HG21	2.12	0.49
22:BB:1182:U:H2'	22:BB:1183:C:O4'	2.12	0.49
22:BB:1236:G:N1	39:BS:73:LYS:CE	2.64	0.49
22:BB:1463:A:H2'	22:BB:1464:A:C8	2.46	0.49
22:BB:1481:U:O4'	22:BB:1561:A:C6	2.65	0.49
22:BB:162:C:H2'	22:BB:163:A:H8	1.78	0.49
22:BB:1688:U:H2'	22:BB:1690:U:OP2	2.12	0.49
22:BB:1739:G:H2'	22:BB:1740:G:C8	2.48	0.49
22:BB:1835:C:H2'	22:BB:1836:C:C6	2.48	0.49
22:BB:1855:G:H4'	22:BB:2390:A:C5'	2.42	0.49
22:BB:2860:C:O2'	48:B2:34:PRO:C	2.50	0.49
22:BB:215:G:H4'	22:BB:618:A:C4'	2.43	0.49
22:BB:737:C:H2'	22:BB:738:G:O4'	2.12	0.49
25:BE:145:LYS:HD3	25:BE:145:LYS:O	2.13	0.49
32:BL:90:ARG:NE	32:BL:90:ARG:HA	2.28	0.49
34:BN:99:LYS:N	34:BN:100:PRO:CD	2.76	0.49
25:BE:52:ALA:HB3	37:BQ:5:ILE:HB	1.93	0.49
22:BB:83:A:N6	42:BV:102:LYS:HE2	2.24	0.49
42:BV:23:ILE:HG13	42:BV:87:GLU:OE1	2.13	0.49
43:BW:3:LEU:HG	43:BW:56:VAL:HG22	1.94	0.49
43:BW:84:TYR:OH	43:BW:91:PRO:CG	2.58	0.49
1:CA:1355:G:H2'	1:CA:1356:G:C8	2.48	0.49
1:CA:559:A:H61	5:CE:126:ARG:CZ	2.26	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:727:G:H1'	1:CA:731:G:N1	2.27	0.49
1:CA:933:G:C2'	1:CA:934:C:H4'	2.41	0.49
4:CD:61:LYS:NZ	4:CD:62:GLN:HE21	2.10	0.49
1:CA:279:A:C2'	17:CQ:95:TYR:CD1	2.59	0.49
20:CT:73:HIS:CG	20:CT:74:LYS:H	2.30	0.49
47:D1:41:PRO:HG3	47:D1:57:ASP:OD1	2.13	0.49
49:D3:22:TYR:O	49:D3:23:THR:HB	2.12	0.49
49:D3:27:ASN:O	49:D3:28:ARG:HB2	2.12	0.49
22:DB:1004:A:N3	22:DB:1173:G:C2	2.80	0.49
22:DB:1005:U:OP1	38:DR:50:ARG:O	2.30	0.49
22:DB:1139:A:N1	22:DB:2470:U:O4	2.46	0.49
22:DB:1178:C:H2'	22:DB:1179:A:C8	2.47	0.49
22:DB:1688:U:H2'	22:DB:1690:U:OP2	2.12	0.49
22:DB:1835:C:H2'	22:DB:1836:C:C6	2.48	0.49
22:DB:1821:A:N6	22:DB:1959:U:H1'	2.28	0.49
22:DB:2211:U:O2'	22:DB:2212:U:H5'	2.12	0.49
22:DB:2494:C:H4'	31:DK:108:GLY:HA3	1.19	0.49
22:DB:2789:U:N3	48:D2:43:HIS:NE2	2.60	0.49
22:DB:665:A:N3	22:DB:665:A:H2'	2.26	0.49
22:DB:776:G:C3'	24:DD:211:ARG:NH2	2.74	0.49
22:DB:1516:A:H1'	24:DD:98:ALA:HB2	1.91	0.49
25:DE:91:VAL:HG23	25:DE:180:ASN:HB3	1.93	0.49
26:DF:176:ASN:CG	26:DF:178:TYR:HB3	2.33	0.49
27:DG:67:ILE:HG23	27:DG:84:PRO:HA	1.94	0.49
28:DH:125:VAL:HA	28:DH:131:ILE:HD12	1.95	0.49
22:DB:1142:G:N1	31:DK:103:TYR:CD2	2.79	0.49
32:DL:90:ARG:HA	32:DL:90:ARG:NE	2.28	0.49
34:DN:99:LYS:N	34:DN:100:PRO:CD	2.76	0.49
34:DN:127:PRO:HD2	43:DW:74:ARG:NE	2.23	0.49
35:DO:28:LEU:HG	35:DO:32:GLY:HA2	1.95	0.49
38:DR:94:VAL:HG11	39:DS:11:GLN:CA	2.42	0.49
44:DX:67:VAL:HG22	44:DX:68:VAL:N	2.28	0.49
44:DX:6:GLY:O	44:DX:7:VAL:HG12	2.12	0.49
1:EA:1124:G:H1	1:EA:1149:C:H42	1.59	0.49
1:EA:1355:G:H2'	1:EA:1356:G:C8	2.48	0.49
1:EA:1439:C:H2'	1:EA:1440:C:C6	2.47	0.49
1:EA:236:G:H1'	17:EQ:42:TYR:HH	1.74	0.49
1:EA:497:A:O2'	1:EA:498:U:P	2.70	0.49
1:EA:615:C:H2'	1:EA:616:G:C8	2.47	0.49
1:EA:730:G:H2'	1:EA:731:G:O4'	2.12	0.49
1:EA:967:C:H2'	1:EA:968:A:C5	2.46	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:EA:973:G:H4'	10:EJ:54:PHE:CD1	2.40	0.49
2:EB:23:ARG:HD3	2:EB:24:TRP:N	2.26	0.49
3:EC:64:VAL:O	3:EC:99:VAL:HG23	2.12	0.49
4:ED:61:LYS:NZ	4:ED:62:GLN:HE21	2.11	0.49
6:EF:75:LEU:O	6:EF:78:GLU:HB3	2.12	0.49
7:EG:105:VAL:HG12	7:EG:109:ASN:HD21	1.77	0.49
1:EA:1240:U:P	7:EG:115:ARG:HG3	2.34	0.49
7:EG:49:ILE:HD13	7:EG:121:ALA:N	2.28	0.49
1:EA:586:C:H5''	8:EH:91:ARG:HB2	1.87	0.49
9:EI:18:PHE:N	9:EI:62:TYR:HB3	2.27	0.49
9:EI:53:VAL:HG23	9:EI:55:ALA:H	1.77	0.49
11:EK:43:SER:OG	11:EK:67:ASP:HB2	2.13	0.49
1:EA:241:C:O3'	12:EL:16:GLU:OE2	2.29	0.49
14:EN:8:GLU:HA	14:EN:11:LYS:HD3	1.94	0.49
15:EO:25:THR:HA	15:EO:28:GLN:HB2	1.94	0.49
16:EP:19:ILE:HD11	16:EP:37:GLY:HA3	1.93	0.49
23:FA:96:C:H5''	43:FW:15:ASP:OD1	2.13	0.49
22:FB:1047:G:H2'	22:FB:1048:U:O4'	2.12	0.49
22:FB:1463:A:H2'	22:FB:1464:A:C8	2.46	0.49
22:FB:162:C:H2'	22:FB:163:A:H8	1.78	0.49
22:FB:1821:A:N6	22:FB:1959:U:H1'	2.28	0.49
22:FB:1926:U:O2	22:FB:1928:G:H4'	2.12	0.49
22:FB:1943:A:H2'	22:FB:1944:C:H6	1.78	0.49
22:FB:1948:C:H41	22:FB:2571:G:C2'	2.25	0.49
22:FB:203:G:O3'	22:FB:234:C:H4'	2.13	0.49
22:FB:2040:A:N3	48:F2:2:ALA:C	2.66	0.49
22:FB:2207:G:H2'	22:FB:2208:U:C6	2.48	0.49
22:FB:2362:G:H22	49:F3:27:ASN:HA	1.77	0.49
22:FB:2451:G:H2'	22:FB:2508:G:N2	2.28	0.49
22:FB:311:A:C2'	22:FB:344:G:H21	2.25	0.49
22:FB:59:G:C5	22:FB:73:A:N6	2.81	0.49
22:FB:665:A:N3	22:FB:665:A:H2'	2.26	0.49
22:FB:688:A:C2	22:FB:2422:C:H1'	2.47	0.49
22:FB:869:C:O4'	44:FX:25:LYS:HD2	2.13	0.49
22:FB:2661:G:C2'	25:FE:11:MET:CE	2.84	0.49
26:FF:48:ARG:HE	26:FF:51:VAL:HG23	1.78	0.49
28:FH:98:LEU:HD23	28:FH:125:VAL:HG23	1.95	0.49
30:FJ:100:ASN:HB3	30:FJ:103:GLN:HB3	1.94	0.49
32:FL:8:LEU:HD12	32:FL:19:ILE:HD11	1.95	0.49
34:FN:9:LYS:N	34:FN:9:LYS:HD2	2.28	0.49
35:FO:28:LEU:HG	35:FO:32:GLY:HA2	1.95	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:FP:17:VAL:O	36:FP:17:VAL:HG13	2.13	0.49
44:FX:67:VAL:HG22	44:FX:68:VAL:N	2.28	0.49
1:GA:1015:A:H2'	1:GA:1016:A:C8	2.47	0.49
1:GA:1251:A:C2	1:GA:1252:A:H1'	2.47	0.49
1:GA:128:G:HO2'	17:GQ:60:ILE:CD1	2.01	0.49
1:GA:211:G:O2'	1:GA:212:G:H1'	2.13	0.49
1:GA:225:C:C5	1:GA:226:G:H1'	2.47	0.49
1:GA:362:G:H2'	1:GA:362:G:N3	2.27	0.49
1:GA:440:A:H62	1:GA:494:G:H21	1.60	0.49
1:GA:851:G:H2'	1:GA:852:G:H8	1.78	0.49
2:GB:31:TYR:O	2:GB:42:ILE:HA	2.13	0.49
4:GD:173:TRP:HB3	4:GD:189:PRO:HB3	1.95	0.49
4:GD:61:LYS:NZ	4:GD:62:GLN:HE21	2.10	0.49
8:GH:111:ILE:HG23	8:GH:120:THR:HA	1.94	0.49
9:GI:11:LYS:H	9:GI:104:ARG:NE	2.09	0.49
15:GO:62:GLN:HA	15:GO:65:ARG:HB2	1.93	0.49
22:HB:2183:C:OP1	47:H1:44:THR:N	2.45	0.49
53:H7:52:VAL:HG21	53:H7:190:ILE:HD11	1.93	0.49
23:HA:92:G:H2'	23:HA:93:G:H5'	1.95	0.49
22:HB:1139:A:N6	22:HB:2469:G:H5'	2.27	0.49
22:HB:1353:A:H4'	22:HB:1407:G:H1'	1.95	0.49
22:HB:1413:U:H2'	22:HB:1414:G:C8	2.48	0.49
22:HB:1486:A:C2	22:HB:1536:G:N3	2.80	0.49
22:HB:1455:C:C5'	22:HB:1643:A:H4'	2.43	0.49
22:HB:1739:G:H2'	22:HB:1740:G:C8	2.48	0.49
22:HB:1790:G:H4'	22:HB:1791:C:C5	2.47	0.49
22:HB:2321:C:O2	22:HB:2353:G:H4'	2.12	0.49
22:HB:2683:C:H2'	22:HB:2684:A:H8	1.74	0.49
22:HB:2756:A:C6	22:HB:2762:G:H1'	2.48	0.49
22:HB:2791:C:O4'	48:H2:43:HIS:CB	2.54	0.49
22:HB:3166:G:OP2	53:H7:98:ARG:HG2	2.12	0.49
22:HB:538:A:N7	31:HK:139:ARG:NH1	2.61	0.49
22:HB:67:G:H2'	22:HB:68:C:C1'	2.42	0.49
22:HB:787:A:N3	22:HB:788:G:N7	2.61	0.49
24:HD:154:GLN:HB3	24:HD:155:LEU:HD23	1.95	0.49
22:HB:2614:A:H5'	25:HE:77:ILE:HD12	1.94	0.49
25:HE:91:VAL:HG23	25:HE:180:ASN:HB3	1.93	0.49
26:HF:67:ALA:HB1	26:HF:69:HIS:ND1	2.27	0.49
27:HG:163:ASP:HA	27:HG:166:ALA:HB3	1.93	0.49
28:HH:125:VAL:HA	28:HH:131:ILE:HD12	1.95	0.49
31:HK:119:LEU:O	31:HK:119:LEU:HD13	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:HB:2760:G:P	31:HK:145:HIS:HD1	2.23	0.49
22:HB:2760:G:N3	31:HK:149:LYS:CD	2.75	0.49
32:HL:73:VAL:HG21	32:HL:99:ILE:HD12	1.95	0.49
22:HB:2669:C:H5	35:HO:14:SER:O	1.95	0.49
37:HQ:38:LYS:HB3	37:HQ:38:LYS:NZ	2.27	0.49
22:HB:1248:G:N7	40:HT:11:LYS:CB	2.69	0.49
42:HV:105:ARG:HB3	42:HV:113:THR:O	2.12	0.49
43:HW:153:LYS:NZ	43:HW:153:LYS:HB2	2.28	0.49
44:HX:66:LYS:NZ	44:HX:66:LYS:HB2	2.27	0.49
1:IA:1251:A:C2	1:IA:1252:A:H1'	2.47	0.49
1:IA:261:U:C4	20:IT:79:ARG:CD	2.72	0.49
1:IA:590:C:H5'	8:IH:30:ARG:NE	1.86	0.49
1:IA:597:G:H1	8:IH:115:SER:CB	2.25	0.49
1:IA:59:A:H5''	1:IA:387:U:H5''	1.95	0.49
1:IA:681:C:H2'	1:IA:682:G:H8	1.77	0.49
1:IA:851:G:H2'	1:IA:852:G:H8	1.78	0.49
1:IA:857:C:H2'	1:IA:858:G:H8	1.78	0.49
2:IB:23:ARG:HD3	2:IB:24:TRP:N	2.27	0.49
3:IC:133:ALA:CA	3:IC:136:GLN:HB2	2.43	0.49
3:IC:83:ARG:HA	3:IC:86:VAL:CG2	2.42	0.49
4:ID:61:LYS:NZ	4:ID:62:GLN:HE21	2.11	0.49
6:IF:39:LYS:HE2	6:IF:64:GLN:HE22	1.77	0.49
7:IG:27:ILE:HG12	7:IG:43:PHE:CZ	2.47	0.49
8:IH:97:VAL:HG13	8:IH:98:LYS:N	2.27	0.49
9:II:50:LEU:HD22	9:II:56:LEU:N	2.25	0.49
9:II:70:LYS:O	9:II:74:ILE:HG13	2.12	0.49
10:IJ:23:ILE:HG23	10:IJ:85:LEU:HD22	1.94	0.49
13:IM:77:ASN:HA	13:IM:80:ARG:CZ	2.42	0.49
19:IS:15:LEU:HA	19:IS:18:LYS:HE3	1.94	0.49
22:JB:409:G:O2'	47:J1:39:VAL:HG11	2.12	0.49
22:JB:1044:U:OP1	52:J6:9:LYS:CE	2.61	0.49
23:JA:10:U:O2	36:JP:49:GLN:CD	2.50	0.49
23:JA:53:G:C8	36:JP:64:LYS:HD3	2.47	0.49
22:JB:1006:C:N3	31:JK:30:LYS:CE	2.76	0.49
22:JB:1008:G:OP1	38:JR:93:LYS:HG2	2.11	0.49
22:JB:1011:A:H2'	22:JB:1012:A:C8	2.47	0.49
22:JB:114:C:H4'	22:JB:124:A:C4'	2.43	0.49
22:JB:1182:U:H2'	22:JB:1183:C:O4'	2.12	0.49
22:JB:1234:C:H2'	22:JB:1235:C:C6	2.48	0.49
22:JB:1413:U:H2'	22:JB:1414:G:C8	2.48	0.49
22:JB:1525:A:H5'	22:JB:1526:U:OP2	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:JB:1719:G:H2'	22:JB:1720:G:H8	1.77	0.49
22:JB:1912:G:H2'	22:JB:1912:G:N3	2.26	0.49
22:JB:1385:C:O3'	22:JB:2192:U:O4	2.30	0.49
22:JB:2265:A:H5''	22:JB:2266:A:O4'	2.12	0.49
22:JB:2689:C:H2'	22:JB:2690:A:C8	2.48	0.49
22:JB:2757:G:H4'	22:JB:2759:U:OP1	2.12	0.49
22:JB:2805:G:N2	22:JB:2811:G:H21	2.11	0.49
22:JB:79:G:O2'	22:JB:305:A:C2	2.55	0.49
22:JB:3104:C:O4'	53:J7:201:ARG:NH2	2.15	0.49
22:JB:528:G:O4'	40:JT:97:VAL:C	2.50	0.49
22:JB:15:G:N1	22:JB:536:A:N6	2.60	0.49
22:JB:794:A:H1'	22:JB:1767:G:N2	2.28	0.49
22:JB:856:A:N1	22:JB:946:U:C4	2.80	0.49
22:JB:891:A:C5'	22:JB:892:A:H3'	2.43	0.49
22:JB:935:C:H2'	22:JB:936:A:H8	1.78	0.49
24:JD:154:GLN:HB3	24:JD:155:LEU:HD23	1.95	0.49
25:JE:117:MET:HE2	25:JE:118:LYS:HG2	1.95	0.49
26:JF:27:LEU:HD11	26:JF:99:VAL:HG12	1.95	0.49
27:JG:156:ILE:HG23	27:JG:156:ILE:O	2.13	0.49
31:JK:29:VAL:N	31:JK:30:LYS:HZ3	2.10	0.49
31:JK:67:ARG:HA	31:JK:70:PHE:CD2	2.48	0.49
22:JB:969:U:N3	34:JN:20:GLY:HA2	2.27	0.49
34:JN:36:ILE:N	34:JN:36:ILE:HD13	2.28	0.49
42:JV:41:PRO:O	42:JV:42:ARG:HB3	2.13	0.49
44:JX:67:VAL:HG22	44:JX:68:VAL:N	2.28	0.49
44:JX:41:ARG:HH22	44:JX:69:PHE:HD2	1.60	0.49
46:JZ:10:ILE:HG22	46:JZ:11:GLY:N	2.28	0.49
1:AA:1119:C:H2'	1:AA:1120:G:C8	2.46	0.49
1:AA:1146:A:H2	9:AI:5:TYR:HE1	1.58	0.49
1:AA:1196:U:C4	1:AA:1397:C:N4	2.80	0.49
1:AA:1298:C:N3	7:AG:114:ARG:HG2	2.28	0.49
1:AA:254:G:H1'	17:AQ:17:LYS:N	1.82	0.49
1:AA:35:G:O2'	12:AL:119:LYS:O	2.31	0.49
1:AA:581:G:O2'	17:AQ:105:ALA:HB2	2.12	0.49
1:AA:761:G:N2	17:AQ:104:LYS:O	2.45	0.49
2:AB:132:LYS:O	2:AB:136:VAL:HB	2.12	0.49
5:AE:8:GLU:OE2	5:AE:34:VAL:HG22	2.12	0.49
7:AG:49:ILE:HD13	7:AG:121:ALA:N	2.28	0.49
8:AH:9:MET:HE1	8:AH:36:LEU:HD11	1.95	0.49
8:AH:33:GLU:HB2	8:AH:59:LEU:HD11	1.93	0.49
1:AA:1350:A:P	9:AI:121:ARG:NE	2.84	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:AI:25:LYS:HE2	9:AI:34:ASN:ND2	2.28	0.49
9:AI:8:GLY:HA3	9:AI:76:ALA:O	2.11	0.49
10:AJ:65:LEU:CD1	14:AN:54:PRO:O	2.60	0.49
17:AQ:10:VAL:HB	17:AQ:55:ASP:HB2	1.95	0.49
49:B3:35:LEU:HD21	49:B3:37:LEU:HD13	1.93	0.49
51:B5:9:MET:CB	51:B5:59:LYS:HD3	2.42	0.49
53:B7:32:ILE:CG2	53:B7:167:VAL:H	2.23	0.49
22:BB:1141:U:C2	31:BK:106:TYR:CE1	2.88	0.49
22:BB:1166:A:N6	22:BB:1168:G:C4	2.78	0.49
22:BB:1382:G:H2'	22:BB:1383:C:O4'	2.12	0.49
22:BB:1397:A:H1'	22:BB:1418:C:C5	2.48	0.49
22:BB:166:G:H3'	47:B1:36:TRP:CE2	2.45	0.49
22:BB:1888:C:C5'	22:BB:1889:G:O5'	2.60	0.49
22:BB:1923:U:H2'	22:BB:1925:C:N4	2.27	0.49
22:BB:197:G:H4'	22:BB:211:U:O5'	2.13	0.49
22:BB:2523:G:C4'	22:BB:2624:G:H8	2.19	0.49
22:BB:2505:G:C5'	22:BB:2722:C:H5'	2.42	0.49
22:BB:2781:G:H2'	22:BB:2782:G:C8	2.46	0.49
22:BB:465:C:C4	50:B4:39:ARG:NH1	2.81	0.49
22:BB:569:C:H5''	31:BK:137:LYS:NZ	2.28	0.49
22:BB:670:U:H2'	22:BB:671:A:C8	2.48	0.49
22:BB:688:A:C2	22:BB:2422:C:H1'	2.47	0.49
22:BB:841:G:H2'	22:BB:841:G:N3	2.27	0.49
26:BF:27:LEU:HD11	26:BF:99:VAL:HG12	1.95	0.49
28:BH:97:LYS:HG2	28:BH:125:VAL:HG11	1.93	0.49
22:BB:1141:U:C4	31:BK:106:TYR:HD1	2.29	0.49
31:BK:67:ARG:HA	31:BK:70:PHE:CD2	2.48	0.49
32:BL:91:PHE:CE2	37:BQ:76:GLY:HA3	2.48	0.49
22:BB:2393:G:C4'	33:BM:65:PHE:CD2	2.78	0.49
35:BO:28:LEU:HG	35:BO:32:GLY:HA2	1.95	0.49
25:BE:76:ARG:CD	37:BQ:2:GLN:HE22	1.99	0.49
40:BT:91:PHE:HZ	40:BT:133:ASN:HB2	1.77	0.49
43:BW:153:LYS:NZ	43:BW:153:LYS:HB2	2.28	0.49
44:BX:41:ARG:HH22	44:BX:69:PHE:HD2	1.60	0.49
1:CA:402:G:H4'	4:CD:135:LEU:HD11	1.94	0.49
1:CA:620:C:H2'	1:CA:621:A:C8	2.48	0.49
1:CA:865:A:H2	1:CA:918:A:H4'	1.77	0.49
1:CA:967:C:H2'	1:CA:968:A:C5	2.47	0.49
2:CB:189:ASP:CB	2:CB:204:ASN:HA	2.38	0.49
2:CB:32:ILE:HG21	2:CB:40:HIS:HB3	1.94	0.49
3:CC:125:GLU:HB3	3:CC:126:ARG:HD2	1.95	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CC:64:VAL:C	3:CC:99:VAL:HG23	2.33	0.49
5:CE:76:ILE:O	5:CE:93:PRO:HB3	2.12	0.49
1:CA:640:A:O2'	8:CH:116:LYS:HA	2.12	0.49
8:CH:64:LYS:HZ2	8:CH:79:VAL:HG21	1.77	0.49
10:CJ:47:PHE:HB2	10:CJ:63:PHE:CB	2.38	0.49
12:CL:52:LEU:O	12:CL:53:ARG:HD2	2.12	0.49
3:CC:18:TRP:CE2	14:CN:53:LEU:O	2.66	0.49
6:CF:49:ALA:HB2	18:CR:78:LEU:C	2.33	0.49
1:CA:1221:G:H5'	19:CS:53:ASN:O	2.13	0.49
22:DB:124:A:H61	50:D4:45:SER:HB2	1.76	0.49
51:D5:9:MET:CB	51:D5:59:LYS:HD3	2.42	0.49
53:D7:174:MSE:C	53:D7:175:LYS:HD2	2.33	0.49
22:DB:1088:A:O2'	22:DB:1089:C:H5'	2.13	0.49
22:DB:1438:G:C6	22:DB:1591:U:O2	2.64	0.49
22:DB:1719:G:H2'	22:DB:1720:G:H8	1.77	0.49
22:DB:1923:U:H2'	22:DB:1925:C:N4	2.27	0.49
22:DB:2293:G:H2'	22:DB:2294:U:O4'	2.13	0.49
22:DB:2437:G:H2'	22:DB:2469:G:C6	2.47	0.49
22:DB:2492:G:N7	22:DB:2493:U:O4	2.45	0.49
22:DB:38:G:N3	26:DF:42:THR:HB	2.27	0.49
22:DB:590:C:O3'	38:DR:32:TYR:CD2	2.65	0.49
22:DB:955:G:O2'	22:DB:956:A:H5''	2.13	0.49
26:DF:87:LYS:HE2	26:DF:88:PRO:HD2	1.95	0.49
22:DB:1018:C:H1'	31:DK:133:GLY:O	2.13	0.49
31:DK:57:LEU:HD13	31:DK:60:SER:HB3	1.95	0.49
22:DB:1289:A:N3	35:DO:23:ALA:O	2.40	0.49
38:DR:58:ARG:HH12	38:DR:62:ILE:HG23	1.78	0.49
22:DB:1236:G:OP2	39:DS:69:ILE:CG2	2.59	0.49
39:DS:20:ILE:CG2	39:DS:92:ALA:HB1	2.43	0.49
23:DA:107:C:H4'	43:DW:88:TYR:C	2.31	0.49
1:EA:1528:U:H5'	1:EA:1529:G:H21	1.77	0.49
1:EA:235:C:H2'	1:EA:236:G:H8	1.78	0.49
1:EA:399:G:H2'	1:EA:400:C:O4'	2.13	0.49
1:EA:440:A:H62	1:EA:494:G:H21	1.60	0.49
1:EA:629:G:O2'	1:EA:630:G:H4'	2.12	0.49
2:EB:104:ASN:HD22	2:EB:108:ILE:HD11	1.78	0.49
3:EC:133:ALA:CA	3:EC:136:GLN:HB2	2.43	0.49
3:EC:40:ARG:HG3	3:EC:40:ARG:HH11	1.77	0.49
3:EC:72:LYS:HB3	3:EC:75:VAL:HB	1.95	0.49
4:ED:173:TRP:HB3	4:ED:189:PRO:HB3	1.94	0.49
7:EG:46:ALA:HB1	7:EG:120:ILE:HG21	1.95	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:EA:640:A:C2'	8:EH:116:LYS:HB2	2.16	0.49
1:EA:599:C:O2	8:EH:128:GLY:CA	2.60	0.49
8:EH:14:ARG:CZ	8:EH:83:ILE:HG23	2.43	0.49
9:EI:25:LYS:HE2	9:EI:34:ASN:ND2	2.28	0.49
7:EG:16:LEU:CB	9:EI:41:VAL:O	2.59	0.49
10:EJ:34:VAL:HG12	10:EJ:35:SER:N	2.26	0.49
12:EL:90:VAL:CG1	12:EL:92:ASP:H	2.25	0.49
1:EA:663:A:O3'	18:ER:64:ARG:NH2	2.46	0.49
1:EA:673:G:O4'	18:ER:75:ILE:HG12	2.12	0.49
19:ES:15:LEU:HA	19:ES:18:LYS:HE3	1.94	0.49
1:EA:958:A:C2	19:ES:56:GLN:HG2	2.37	0.49
22:FB:2265:A:N9	49:F3:31:THR:HG21	2.23	0.49
23:FA:44:C:H2'	23:FA:45:C:C6	2.48	0.49
22:FB:1382:G:H2'	22:FB:1383:C:O4'	2.12	0.49
22:FB:1399:C:N4	22:FB:1415:C:C2	2.81	0.49
22:FB:1397:A:H4'	22:FB:1416:A:O2'	2.13	0.49
22:FB:1835:C:H2'	22:FB:1836:C:C6	2.48	0.49
22:FB:197:G:H4'	22:FB:211:U:O5'	2.13	0.49
22:FB:2211:U:O2'	22:FB:2212:U:H5'	2.12	0.49
22:FB:2647:G:H2'	22:FB:2648:G:H8	1.75	0.49
22:FB:2652:G:C2'	32:FL:46:HIS:CE1	2.94	0.49
22:FB:2805:G:N2	22:FB:2811:G:H21	2.11	0.49
22:FB:58:C:O2	22:FB:72:A:H2'	2.12	0.49
22:FB:647:G:H4'	22:FB:650:U:OP1	2.12	0.49
22:FB:652:C:H2'	22:FB:653:G:H5'	1.94	0.49
22:FB:670:U:H2'	22:FB:671:A:C8	2.48	0.49
22:FB:827:C:N4	33:FM:32:ARG:CZ	2.76	0.49
24:FD:180:GLY:O	24:FD:183:ARG:HG2	2.11	0.49
24:FD:243:GLY:N	24:FD:244:ARG:HH21	2.11	0.49
25:FE:145:LYS:O	25:FE:145:LYS:HD3	2.12	0.49
25:FE:176:ARG:HH22	37:FQ:16:ILE:HD12	0.49	0.49
26:FF:176:ASN:CG	26:FF:178:TYR:HB3	2.33	0.49
26:FF:149:LEU:HD13	26:FF:186:LEU:HA	1.93	0.49
26:FF:87:LYS:HE2	26:FF:88:PRO:HD2	1.95	0.49
26:FF:27:LEU:HD11	26:FF:99:VAL:HG12	1.95	0.49
28:FH:77:LYS:HG2	28:FH:138:LYS:HD3	1.95	0.49
32:FL:106:ARG:HA	32:FL:106:ARG:NE	2.28	0.49
33:FM:95:ALA:HB2	33:FM:100:ARG:CB	2.42	0.49
25:FE:19:ARG:CZ	37:FQ:65:SER:CB	2.68	0.49
39:FS:23:GLU:HA	39:FS:93:ILE:CD1	2.43	0.49
42:FV:41:PRO:O	42:FV:42:ARG:HB3	2.13	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:FW:65:LEU:CD1	43:FW:130:ILE:CD1	2.86	0.49
34:FN:99:LYS:HA	43:FW:74:ARG:CG	2.38	0.49
22:FB:2365:U:H4'	44:FX:38:VAL:HB	1.94	0.49
44:FX:66:LYS:NZ	44:FX:66:LYS:HB2	2.28	0.49
1:GA:105:G:O6	20:GT:14:LYS:HE2	2.09	0.49
1:GA:335:C:C5'	1:GA:1434:A:O2'	2.61	0.49
1:GA:1439:C:H2'	1:GA:1440:C:C6	2.47	0.49
20:AT:100:ILE:CB	1:GA:179:A:N3	2.75	0.49
1:GA:186:C:O2'	20:GT:81:LYS:C	2.51	0.49
1:GA:358:U:H2'	1:GA:359:U:O4'	2.12	0.49
1:GA:615:C:H2'	1:GA:616:G:C8	2.47	0.49
1:GA:968:A:P	9:GI:128:ARG:HE	2.36	0.49
7:GG:46:ALA:O	7:GG:49:ILE:HB	2.13	0.49
7:GG:64:GLN:NE2	7:GG:68:ASN:HD21	2.07	0.49
1:GA:1148:U:H4'	9:GI:14:VAL:HG21	1.93	0.49
1:GA:1525:G:OP1	11:GK:127:LYS:NZ	2.41	0.49
14:GN:8:GLU:HG2	14:GN:9:LYS:N	2.28	0.49
15:GO:25:THR:HA	15:GO:28:GLN:HB2	1.94	0.49
20:GT:15:ARG:HG2	20:GT:18:GLN:OE1	2.11	0.49
20:GT:36:LEU:HD12	20:GT:62:LEU:HD21	1.95	0.49
22:HB:1256:C:N1	33:HM:15:ASP:HA	2.26	0.49
22:HB:1787:U:H2'	22:HB:1788:C:C6	2.48	0.49
22:HB:1995:G:C5'	40:HT:118:LYS:CA	2.86	0.49
22:HB:2561:G:H2'	22:HB:2561:G:N3	2.28	0.49
22:HB:611:C:H2'	22:HB:669:G:N2	2.19	0.49
22:HB:670:U:H2'	22:HB:671:A:C8	2.48	0.49
24:HD:180:GLY:O	24:HD:183:ARG:HG2	2.11	0.49
26:HF:27:LEU:HD11	26:HF:99:VAL:HG12	1.95	0.49
28:HH:77:LYS:HG2	28:HH:138:LYS:HD3	1.95	0.49
31:HK:122:HIS:N	31:HK:123:PRO:HD2	2.24	0.49
32:HL:20:MET:HB2	32:HL:56:LYS:HB2	1.94	0.49
33:HM:100:ARG:HE	33:HM:101:ARG:NH1	2.09	0.49
35:HO:28:LEU:HG	35:HO:32:GLY:HA2	1.95	0.49
43:HW:20:ALA:HB3	43:HW:80:HIS:HB2	1.93	0.49
1:IA:1015:A:H2'	1:IA:1016:A:C8	2.47	0.49
1:IA:1070:U:H2'	1:IA:1071:C:C6	2.48	0.49
1:IA:1321:C:C5'	13:IM:87:TYR:CG	2.90	0.49
1:IA:934:C:H6	1:IA:1345:U:OP2	1.96	0.49
1:IA:1408:A:H1'	1:IA:1494:G:N2	2.28	0.49
1:IA:211:G:O2'	1:IA:212:G:H1'	2.13	0.49
1:IA:225:C:C5	1:IA:226:G:H1'	2.47	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:IA:922:G:N3	5:IE:19:MET:CE	2.76	0.49
3:IC:3:ASN:H	3:IC:3:ASN:HD22	1.61	0.49
4:ID:173:TRP:HB3	4:ID:189:PRO:HB3	1.95	0.49
5:IE:78:HIS:HE1	5:IE:142:LEU:HD23	1.77	0.49
1:IA:1297:C:O4'	7:IG:114:ARG:NH1	2.41	0.49
8:IH:9:MET:SD	8:IH:32:LYS:HB3	2.52	0.49
12:IL:75:HIS:HB2	12:IL:108:ALA:CB	2.41	0.49
12:IL:75:HIS:HB3	12:IL:102:ARG:CZ	2.42	0.49
13:IM:12:ASN:HA	13:IM:46:LYS:NZ	2.26	0.49
14:IN:18:VAL:HG23	14:IN:19:ARG:H	1.76	0.49
1:IA:247:G:C1'	17:IQ:99:SER:OG	2.61	0.49
22:JB:115:G:C3'	50:J4:22:MET:HE3	1.96	0.49
22:JB:2397:A:P	51:J5:42:ARG:NH2	2.83	0.49
23:JA:44:C:H2'	23:JA:45:C:C6	2.48	0.49
22:JB:1006:C:H42	31:JK:30:LYS:HE3	1.76	0.49
22:JB:52:A:H61	22:JB:115:G:H1'	1.78	0.49
22:JB:1789:U:H3'	22:JB:1790:G:H8	1.78	0.49
22:JB:2487:G:H5'	22:JB:2534:U:O4'	2.11	0.49
22:JB:2488:G:P	22:JB:2534:U:OP1	2.71	0.49
22:JB:2561:G:N3	22:JB:2561:G:H2'	2.28	0.49
22:JB:430:C:H1'	22:JB:2386:G:N2	2.26	0.49
22:JB:593:C:OP1	38:JR:5:LYS:C	2.51	0.49
22:JB:63:A:O3'	41:JU:71:GLN:HB3	2.13	0.49
22:JB:787:A:N3	22:JB:788:G:N7	2.61	0.49
22:JB:964:A:N6	22:JB:975:C:H42	2.10	0.49
22:JB:996:C:H2'	22:JB:997:C:C5	2.47	0.49
24:JD:166:GLN:HB2	24:JD:174:ILE:HG22	1.94	0.49
22:JB:2570:C:C5	24:JD:237:GLU:HA	2.36	0.49
22:JB:2206:C:O2'	24:JD:262:LYS:NZ	2.44	0.49
24:JD:68:LYS:HE3	24:JD:144:ALA:HB1	1.94	0.49
26:JF:146:GLU:HG2	26:JF:185:ARG:HD2	1.95	0.49
26:JF:22:VAL:HG23	26:JF:109:ALA:CB	2.43	0.49
28:JH:125:VAL:HA	28:JH:131:ILE:HD12	1.94	0.49
30:JJ:39:LYS:HB3	30:JJ:39:LYS:NZ	2.27	0.49
31:JK:139:ARG:HH22	31:JK:142:ARG:NH1	2.07	0.49
31:JK:57:LEU:HD13	31:JK:60:SER:HB3	1.95	0.49
26:JF:111:ARG:NH2	33:JM:13:ARG:HH21	2.01	0.49
36:JP:8:ARG:CZ	36:JP:9:ARG:HE	2.26	0.49
38:JR:21:ALA:HB1	38:JR:29:SER:HA	1.93	0.49
39:JS:32:LYS:HD2	39:JS:63:HIS:H	1.77	0.49
39:JS:66:GLY:HA2	39:JS:93:ILE:HA	1.93	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:JT:73:ASN:HA	40:JT:76:LYS:HD3	1.93	0.49
43:JW:33:ALA:O	43:JW:34:LEU:HB2	2.13	0.49
43:JW:20:ALA:HB3	43:JW:80:HIS:HB2	1.94	0.49
1:AA:1297:C:OP1	13:AM:13:LYS:NZ	2.45	0.49
1:AA:137:C:H1'	1:AA:227:G:N2	2.27	0.49
1:AA:518:C:C4	12:AL:48:PRO:CD	2.54	0.49
1:AA:629:G:O2'	1:AA:630:G:H4'	2.12	0.49
1:AA:727:G:H1'	1:AA:731:G:N1	2.27	0.49
1:AA:813:U:O2'	1:AA:814:A:H5'	2.12	0.49
7:AG:94:ARG:O	7:AG:97:GLN:HG2	2.13	0.49
8:AH:14:ARG:CZ	8:AH:83:ILE:HG23	2.43	0.49
9:AI:26:VAL:HB	9:AI:63:ILE:HD11	1.94	0.49
12:AL:5:PRO:HD3	12:AL:13:LYS:HB2	1.95	0.49
13:AM:109:THR:HG23	13:AM:110:ARG:HD2	1.94	0.49
13:AM:13:LYS:HD3	13:AM:17:VAL:HG11	1.94	0.49
13:AM:84:ILE:O	13:AM:93:ARG:CG	2.61	0.49
6:AF:49:ALA:HB1	18:AR:79:LEU:HA	1.93	0.49
47:B1:17:GLN:HA	47:B1:33:VAL:O	2.13	0.49
22:BB:1135:C:O2'	52:B6:3:VAL:O	2.28	0.49
23:BA:105:G:H5''	43:BW:92:VAL:CG1	2.38	0.49
22:BB:1183:C:N3	22:BB:1191:G:N1	2.61	0.49
22:BB:1719:G:H2'	22:BB:1720:G:H8	1.77	0.49
1:AA:1428:A:O2'	22:BB:1720:G:O4'	2.25	0.49
22:BB:777:A:C2	22:BB:1781:C:H5'	2.43	0.49
22:BB:2689:C:H2'	22:BB:2690:A:C8	2.48	0.49
22:BB:2757:G:H4'	22:BB:2759:U:OP1	2.11	0.49
22:BB:3122:U:O3'	53:B7:162:GLN:OE1	2.28	0.49
22:BB:3190:G:O2'	22:BB:3191:A:H5'	2.13	0.49
22:BB:311:A:C2'	22:BB:344:G:H21	2.26	0.49
22:BB:540:G:N3	22:BB:2018:G:C5'	2.71	0.49
22:BB:699:G:N1	22:BB:801:A:H2	2.09	0.49
22:BB:760:U:H5'	40:BT:111:ARG:CB	2.43	0.49
22:BB:811:G:OP2	26:BF:54:THR:O	2.31	0.49
22:BB:2200:G:C2	24:BD:149:PRO:HG3	2.47	0.49
25:BE:199:ARG:CZ	25:BE:199:ARG:HA	2.42	0.49
25:BE:61:LYS:N	25:BE:62:PRO:CD	2.71	0.49
26:BF:22:VAL:HG23	26:BF:109:ALA:CB	2.42	0.49
23:BA:44:C:C4	27:BG:90:THR:CB	2.80	0.49
22:BB:1091:C:O4'	30:BJ:126:THR:N	2.46	0.49
22:BB:566:U:H4'	31:BK:74:MET:HE1	1.95	0.49
31:BK:74:MET:HE3	31:BK:75:ILE:H	1.77	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:BL:8:LEU:HD12	32:BL:19:ILE:HD11	1.95	0.49
33:BM:95:ALA:HB2	33:BM:100:ARG:CB	2.42	0.49
34:BN:55:MET:HA	34:BN:114:GLN:NE2	2.27	0.49
34:BN:36:ILE:N	34:BN:36:ILE:HD13	2.28	0.49
42:BV:105:ARG:HB3	42:BV:113:THR:O	2.12	0.49
44:BX:49:GLN:HA	44:BX:55:ARG:CZ	2.42	0.49
1:CA:107:G:C2	1:CA:108:G:H1'	2.48	0.49
1:CA:1226:C:N4	13:CM:104:ARG:NH2	2.61	0.49
1:CA:1327:C:H2'	1:CA:1328:C:H5'	1.95	0.49
1:CA:187:G:H1'	1:CA:190:A:N6	2.26	0.49
1:CA:235:C:H2'	1:CA:236:G:H8	1.78	0.49
1:CA:373:A:H61	1:CA:482:A:H62	1.60	0.49
1:CA:555:C:H2'	1:CA:556:C:O4'	2.12	0.49
1:CA:715:A:H2'	1:CA:716:A:C8	2.47	0.49
1:CA:813:U:O2'	1:CA:814:A:H5'	2.12	0.49
6:CF:19:LEU:HD21	6:CF:59:TYR:CE2	2.48	0.49
1:CA:1381:U:C6	7:CG:78:ARG:HA	2.48	0.49
9:CI:69:GLY:O	9:CI:73:GLN:HG3	2.13	0.49
1:CA:523:A:N1	12:CL:91:LYS:HB2	2.28	0.49
22:DB:1042:G:C4'	52:D6:6:SER:C	2.66	0.49
23:DA:44:C:H2'	23:DA:45:C:C6	2.48	0.49
22:DB:1010:U:C2	22:DB:1168:G:N1	2.81	0.49
22:DB:116:A:H2'	22:DB:118:U:C5	2.45	0.49
22:DB:1382:G:H2'	22:DB:1383:C:O4'	2.12	0.49
22:DB:1397:A:C6	22:DB:1418:C:C2	3.01	0.49
22:DB:1566:G:HO3'	22:DB:1567:A:P	2.30	0.49
22:DB:1630:A:N1	40:DT:108:PRO:C	2.65	0.49
22:DB:1739:G:H2'	22:DB:1740:G:C8	2.48	0.49
22:DB:191:G:H2'	22:DB:192:G:O4'	2.13	0.49
22:DB:197:G:H4'	22:DB:211:U:O5'	2.13	0.49
22:DB:2647:G:H2'	22:DB:2648:G:H8	1.76	0.49
22:DB:2757:G:O2'	22:DB:2758:A:H5''	2.12	0.49
22:DB:311:A:C2'	22:DB:344:G:H21	2.26	0.49
22:DB:647:G:H4'	22:DB:650:U:OP1	2.12	0.49
22:DB:670:U:H2'	22:DB:671:A:C8	2.48	0.49
22:DB:67:G:H2'	22:DB:68:C:C1'	2.43	0.49
24:DD:180:GLY:O	24:DD:183:ARG:HG2	2.11	0.49
22:DB:2615:U:O2'	25:DE:79:ARG:HD2	2.01	0.49
22:DB:2728:A:O4'	28:DH:67:LEU:HD13	1.98	0.49
32:DL:114:VAL:HG22	32:DL:132:GLU:O	2.12	0.49
32:DL:46:HIS:HB2	32:DL:121:ARG:HH21	1.78	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:DM:60:LEU:HB2	33:DM:61:PRO:HD3	1.95	0.49
35:DO:96:ARG:HD2	35:DO:96:ARG:H	1.78	0.49
42:DV:96:LYS:HD3	42:DV:98:ILE:HD12	1.95	0.49
43:DW:33:ALA:O	43:DW:34:LEU:HB2	2.12	0.49
46:DZ:2:LYS:O	46:DZ:3:ILE:HD13	2.13	0.49
1:EA:1035:A:H4'	1:EA:1035:A:OP1	2.12	0.49
1:EA:1056:U:H5'	3:EC:163:ALA:HB2	1.94	0.49
1:EA:1072:G:H22	2:EB:111:ARG:NE	1.89	0.49
1:EA:1228:C:C6	13:EM:104:ARG:C	2.86	0.49
1:EA:130:A:N7	17:EQ:63:ARG:HG2	2.28	0.49
1:EA:934:C:H6	1:EA:1345:U:OP2	1.95	0.49
1:EA:555:C:H2'	1:EA:556:C:O4'	2.12	0.49
1:EA:715:A:H2'	1:EA:716:A:C8	2.47	0.49
1:EA:881:G:OP2	12:EL:6:THR:HG21	2.12	0.49
3:EC:123:GLN:HA	3:EC:128:PHE:CD1	2.48	0.49
10:EJ:85:LEU:O	10:EJ:88:LEU:HG	2.12	0.49
1:EA:779:C:O2'	11:EK:120:ARG:CZ	2.60	0.49
22:FB:470:U:P	50:F4:40:HIS:NE2	2.86	0.49
22:FB:1175:A:H4'	39:FS:89:ASN:CG	2.30	0.49
22:FB:1182:U:H2'	22:FB:1183:C:O4'	2.13	0.49
22:FB:1719:G:H2'	22:FB:1720:G:H8	1.77	0.49
22:FB:777:A:C2	22:FB:1781:C:H5'	2.43	0.49
22:FB:1790:G:O6	24:FD:270:ILE:HB	2.13	0.49
22:FB:1923:U:H2'	22:FB:1925:C:N4	2.27	0.49
22:FB:1992:G:O4'	35:FO:105:GLY:HA2	2.12	0.49
22:FB:2220:A:H2'	22:FB:2221:G:C8	2.48	0.49
22:FB:2311:U:C4'	22:FB:2315:A:H62	2.20	0.49
22:FB:2323:U:H5''	49:F3:39:LYS:HD3	1.94	0.49
22:FB:2492:G:H2'	22:FB:2493:U:N1	2.27	0.49
22:FB:478:G:H2'	22:FB:479:G:C8	2.47	0.49
22:FB:53:G:C4'	50:F4:35:ARG:CZ	2.91	0.49
22:FB:1810:U:OP2	24:FD:155:LEU:HA	2.12	0.49
25:FE:156:MET:HG2	25:FE:157:ALA:H	1.77	0.49
25:FE:23:VAL:CG2	25:FE:186:GLY:H	2.26	0.49
26:FF:146:GLU:HG2	26:FF:185:ARG:HD2	1.94	0.49
27:FG:67:ILE:HG23	27:FG:84:PRO:HA	1.94	0.49
34:FN:99:LYS:N	34:FN:100:PRO:CD	2.76	0.49
37:FQ:12:LEU:HA	37:FQ:16:ILE:CB	2.42	0.49
38:FR:45:TYR:HD1	38:FR:45:TYR:H	1.59	0.49
40:FT:27:VAL:HG23	40:FT:124:ILE:HG22	1.94	0.49
1:GA:1278:U:H5''	1:GA:1279:A:O4'	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:GA:1408:A:H1'	1:GA:1494:G:N2	2.28	0.49
1:GA:502:G:OP1	12:GL:115:LYS:O	2.31	0.49
3:GC:133:ALA:CA	3:GC:136:GLN:HB2	2.43	0.49
3:GC:64:VAL:C	3:GC:99:VAL:HG23	2.33	0.49
3:GC:87:LEU:O	3:GC:91:LEU:HD22	2.13	0.49
6:GF:39:LYS:HE2	6:GF:64:GLN:HE22	1.77	0.49
9:GI:53:VAL:HG23	9:GI:55:ALA:H	1.77	0.49
10:GJ:51:ARG:CA	14:GN:45:ARG:NH2	2.74	0.49
10:GJ:79:ARG:C	10:GJ:81:THR:H	2.16	0.49
11:GK:43:SER:OG	11:GK:67:ASP:HB2	2.12	0.49
15:GO:16:ALA:HB1	15:GO:21:ASP:CB	2.37	0.49
17:GQ:10:VAL:HB	17:GQ:55:ASP:HB2	1.95	0.49
22:HB:785:U:OP1	50:H4:11:LYS:HE3	2.12	0.49
23:HA:84:G:H2'	23:HA:85:G:H8	1.77	0.49
22:HB:1455:C:C2	22:HB:1567:A:C6	2.99	0.49
22:HB:1483:G:H2'	22:HB:1484:G:N9	2.28	0.49
22:HB:2261:G:H4'	22:HB:2262:C:OP2	2.12	0.49
22:HB:2267:A:H2'	22:HB:2267:A:N3	2.28	0.49
22:HB:644:A:H2	22:HB:2382:C:H5''	1.76	0.49
22:HB:2005:U:O2'	22:HB:2596:C:H4'	2.13	0.49
22:HB:10:A:C6	22:HB:2608:A:N3	2.81	0.49
22:HB:2628:C:H4'	32:HL:38:GLY:HA2	1.95	0.49
22:HB:1681:A:C2	22:HB:2706:U:C6	3.00	0.49
22:HB:3190:G:O2'	22:HB:3191:A:H5'	2.13	0.49
22:HB:593:C:C5'	38:HR:3:ARG:NH1	2.62	0.49
22:HB:785:U:OP1	50:H4:11:LYS:CE	2.61	0.49
22:HB:891:A:C1'	22:HB:893:G:C8	2.96	0.49
22:HB:941:U:OP1	46:HZ:22:ALA:C	2.51	0.49
22:HB:996:C:H2'	22:HB:997:C:C5	2.47	0.49
22:HB:1809:G:C5'	24:HD:157:ARG:NH1	2.73	0.49
25:HE:119:ARG:HG2	25:HE:155:ARG:CB	2.38	0.49
25:HE:23:VAL:CG2	25:HE:186:GLY:H	2.26	0.49
26:HF:146:GLU:HG2	26:HF:185:ARG:HD2	1.95	0.49
27:HG:128:TYR:CE2	27:HG:130:LEU:HB2	2.48	0.49
37:HQ:40:ARG:HB2	37:HQ:89:ASN:OD1	2.12	0.49
38:HR:21:ALA:HB1	38:HR:29:SER:HA	1.94	0.49
38:HR:58:ARG:HH12	38:HR:62:ILE:HG23	1.78	0.49
38:HR:92:ARG:O	38:HR:95:LEU:HB3	2.13	0.49
39:HS:32:LYS:HD2	39:HS:63:HIS:H	1.77	0.49
22:HB:503:G:H4'	40:HT:29:LYS:NZ	2.27	0.49
41:HU:23:GLY:O	41:HU:82:LEU:HD13	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:IA:1035:A:H4'	1:IA:1035:A:OP1	2.12	0.49
1:IA:1180:A:H5'	9:II:103:THR:HG21	1.91	0.49
1:IA:1190:G:C5	3:IC:3:ASN:HB3	2.47	0.49
1:IA:1268:A:H2'	1:IA:1269:A:C8	2.48	0.49
1:IA:1320:C:C1'	19:IS:73:GLU:CD	2.75	0.49
1:IA:814:A:H5'	1:IA:1511:G:H5''	1.89	0.49
1:IA:216:C:N4	1:IA:217:C:H41	2.10	0.49
1:IA:620:C:H2'	1:IA:621:A:C8	2.48	0.49
1:IA:643:C:H2'	1:IA:644:G:C8	2.47	0.49
1:IA:975:A:O2'	1:IA:976:G:OP2	2.31	0.49
2:IB:152:PHE:HZ	2:IB:159:PRO:HD3	1.77	0.49
6:IF:14:LEU:HD22	6:IF:18:GLN:NE2	2.27	0.49
13:IM:15:VAL:HG22	13:IM:45:VAL:HG22	1.94	0.49
15:IO:25:THR:HA	15:IO:28:GLN:HB2	1.95	0.49
16:IP:19:ILE:HD11	16:IP:37:GLY:HA3	1.93	0.49
6:IF:97:PHE:O	18:IR:30:ASP:OD1	2.30	0.49
22:JB:2209:G:C3'	47:J1:39:VAL:HG22	2.32	0.49
50:J4:21:ARG:HB2	50:J4:31:LEU:HD22	1.95	0.49
51:J5:9:MET:CB	51:J5:59:LYS:HD3	2.42	0.49
22:JB:1268:U:C2'	26:JF:66:ASN:CB	2.89	0.49
22:JB:1376:C:H2'	22:JB:1377:G:C8	2.47	0.49
22:JB:1694:A:H3'	22:JB:1695:U:C6	2.47	0.49
22:JB:1698:C:C3'	22:JB:1699:A:P	2.98	0.49
22:JB:1787:U:H2'	22:JB:1788:C:C6	2.48	0.49
22:JB:1821:A:N6	22:JB:1959:U:H1'	2.28	0.49
22:JB:1926:U:O2	22:JB:1928:G:H4'	2.12	0.49
22:JB:2004:U:C6	38:JR:25:TRP:NE1	2.79	0.49
22:JB:2340:C:OP2	33:JM:60:LEU:HD23	2.12	0.49
22:JB:2372:A:O4'	33:JM:60:LEU:N	2.41	0.49
22:JB:2616:U:O2	25:JE:42:ASP:OD1	2.31	0.49
22:JB:2847:G:N3	35:JO:8:ARG:CB	2.73	0.49
22:JB:3870:C:H2'	22:JB:3871:A:C4	2.47	0.49
22:JB:594:G:H5''	26:JF:82:VAL:HB	1.95	0.49
22:JB:640:C:H4'	22:JB:660:G:N2	2.22	0.49
22:JB:882:C:O2'	34:JN:10:PHE:CE2	2.64	0.49
24:JD:132:PRO:O	24:JD:133:LEU:HD22	2.13	0.49
22:JB:1954:A:N6	24:JD:240:THR:C	2.65	0.49
25:JE:145:LYS:HD3	25:JE:145:LYS:O	2.13	0.49
26:JF:176:ASN:CG	26:JF:178:TYR:HB3	2.33	0.49
27:JG:128:TYR:CE2	27:JG:130:LEU:HB2	2.48	0.49
27:JG:37:ASN:HA	27:JG:87:ILE:HD13	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:JH:19:ALA:HB2	28:JH:44:ARG:HG3	1.95	0.49
28:JH:54:ARG:N	28:JH:55:PRO:HD3	2.28	0.49
22:JB:1006:C:C4	31:JK:30:LYS:HE3	2.48	0.49
32:JL:90:ARG:NE	32:JL:90:ARG:HA	2.28	0.49
33:JM:100:ARG:HE	33:JM:101:ARG:NH1	2.09	0.49
33:JM:35:LYS:HB2	33:JM:35:LYS:NZ	2.25	0.49
22:JB:637:G:H22	33:JM:74:VAL:HA	1.78	0.49
34:JN:107:VAL:O	43:JW:113:VAL:C	2.40	0.49
22:JB:2823:G:C4'	37:JQ:103:LYS:O	2.61	0.49
39:JS:23:GLU:HA	39:JS:93:ILE:CD1	2.43	0.49
46:JZ:2:LYS:O	46:JZ:3:ILE:HD13	2.13	0.49
46:JZ:3:ILE:HG13	46:JZ:34:VAL:HG12	1.93	0.49
1:AA:1220:G:C2	19:AS:54:GLY:C	2.86	0.49
1:AA:934:C:H6	1:AA:1345:U:OP2	1.96	0.49
1:AA:211:G:O2'	1:AA:212:G:H1'	2.13	0.49
1:AA:235:C:H2'	1:AA:236:G:H8	1.78	0.49
1:AA:437:U:OP1	4:AD:155:LEU:HD13	2.12	0.49
1:AA:689:C:H3'	11:AK:51:LYS:HZ1	1.75	0.49
1:AA:933:G:C2'	1:AA:934:C:H4'	2.41	0.49
2:AB:142:LEU:O	2:AB:146:GLN:HG3	2.12	0.49
3:AC:64:VAL:O	3:AC:99:VAL:HG23	2.12	0.49
1:AA:1373:G:OP1	7:AG:36:LYS:HD2	2.13	0.49
8:AH:9:MET:SD	8:AH:32:LYS:HB3	2.53	0.49
9:AI:9:ARG:HG2	9:AI:10:ARG:N	2.28	0.49
19:AS:18:LYS:HA	19:AS:21:GLU:HG3	1.94	0.49
20:AT:36:LEU:HD12	20:AT:62:LEU:HD21	1.95	0.49
22:BB:2340:C:H5''	51:B5:26:LYS:HE2	1.95	0.49
51:B5:30:ARG:O	51:B5:31:HIS:HB2	2.12	0.49
53:B7:52:VAL:HG21	53:B7:190:ILE:HD11	1.93	0.49
53:B7:67:VAL:HG21	53:B7:120:ALA:HB2	1.95	0.49
22:BB:1002:C:N4	22:BB:1174:G:C6	2.71	0.49
22:BB:1148:G:H4'	31:BK:133:GLY:HA3	1.90	0.49
22:BB:1178:C:H2'	22:BB:1179:A:C8	2.48	0.49
22:BB:1232:U:H2'	22:BB:1243:G:N1	2.21	0.49
22:BB:1378:A:H4'	47:B1:4:ASP:OD1	2.12	0.49
22:BB:176:A:C5	47:B1:30:GLU:HB2	2.45	0.49
22:BB:1926:U:O2	22:BB:1928:G:H4'	2.12	0.49
22:BB:2211:U:O2'	22:BB:2212:U:H5'	2.12	0.49
22:BB:2220:A:H2'	22:BB:2221:G:C8	2.48	0.49
22:BB:2463:G:H5''	34:BN:47:GLN:CA	2.38	0.49
22:BB:2599:U:O2'	25:BE:157:ALA:C	2.51	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:BB:3122:U:C4'	53:B7:162:GLN:CG	2.79	0.49
22:BB:569:C:O5'	31:BK:137:LYS:HE2	2.12	0.49
22:BB:674:U:O2	33:BM:22:GLY:C	2.51	0.49
22:BB:67:G:H2'	22:BB:68:C:C1'	2.43	0.49
22:BB:787:A:N3	22:BB:788:G:N7	2.61	0.49
24:BD:154:GLN:HB3	24:BD:155:LEU:HD23	1.95	0.49
25:BE:181:LEU:HD13	37:BQ:16:ILE:CG1	2.40	0.49
25:BE:7:THR:O	25:BE:26:VAL:HG22	2.12	0.49
26:BF:48:ARG:HE	26:BF:51:VAL:HG23	1.78	0.49
28:BH:125:VAL:HA	28:BH:131:ILE:HD12	1.95	0.49
22:BB:1142:G:H5'	31:BK:110:LEU:N	2.28	0.49
31:BK:128:GLU:HG2	31:BK:129:HIS:N	2.27	0.49
33:BM:60:LEU:HB2	33:BM:61:PRO:HD3	1.95	0.49
22:BB:1040:A:O2'	34:BN:123:GLY:O	2.26	0.49
36:BP:17:VAL:O	36:BP:17:VAL:HG13	2.13	0.49
38:BR:101:ARG:NH2	39:BS:43:GLU:CG	2.75	0.49
38:BR:58:ARG:HH12	38:BR:62:ILE:HG23	1.78	0.49
39:BS:32:LYS:HD2	39:BS:63:HIS:H	1.77	0.49
46:BZ:2:LYS:O	46:BZ:3:ILE:HD13	2.13	0.49
1:CA:1278:U:H5''	1:CA:1279:A:O4'	2.12	0.49
1:CA:934:C:H6	1:CA:1345:U:OP2	1.95	0.49
1:CA:1439:C:H2'	1:CA:1440:C:C6	2.47	0.49
1:CA:250:A:H4'	1:CA:251:G:O5'	2.13	0.49
1:CA:629:G:O2'	1:CA:630:G:H4'	2.12	0.49
1:CA:851:G:H2'	1:CA:852:G:H8	1.77	0.49
2:CB:31:TYR:O	2:CB:42:ILE:HA	2.13	0.49
3:CC:83:ARG:HA	3:CC:86:VAL:CG2	2.42	0.49
3:CC:87:LEU:O	3:CC:91:LEU:HD22	2.13	0.49
1:CA:435:C:C2'	4:CD:156:GLU:O	2.61	0.49
1:CA:8:A:OP1	5:CE:121:LYS:HD3	2.13	0.49
6:CF:67:MET:HE1	6:CF:75:LEU:HB2	1.95	0.49
7:CG:105:VAL:HG12	7:CG:109:ASN:HD21	1.77	0.49
7:CG:94:ARG:O	7:CG:97:GLN:HG2	2.13	0.49
9:CI:29:ASN:HD21	9:CI:64:THR:CG2	2.23	0.49
19:CS:18:LYS:HA	19:CS:21:GLU:HG3	1.94	0.49
22:DB:1238:A:H5''	39:DS:73:LYS:CA	2.23	0.49
22:DB:1950:C:H4'	22:DB:2571:G:H5''	1.94	0.49
22:DB:2355:A:C2	36:DP:114:PHE:CZ	3.01	0.49
22:DB:2786:G:C4'	25:DE:59:VAL:CG1	2.87	0.49
22:DB:2799:C:H2'	22:DB:2800:C:H5'	1.95	0.49
22:DB:475:U:H5''	50:D4:5:TYR:CG	2.48	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:DB:758:G:O2'	22:DB:761:G:H1'	2.12	0.49
22:DB:764:A:C2	40:DT:110:ALA:HA	2.48	0.49
22:DB:787:A:N3	22:DB:788:G:N7	2.61	0.49
22:DB:7:G:H1'	31:DK:163:PRO:HD2	1.87	0.49
25:DE:199:ARG:CZ	25:DE:199:ARG:HA	2.42	0.49
22:DB:2767:C:H1'	25:DE:61:LYS:HG2	1.93	0.49
28:DH:33:LEU:HD11	28:DH:74:ASN:ND2	2.28	0.49
31:DK:110:LEU:HG	31:DK:111:LYS:H	1.77	0.49
22:DB:1033:G:N7	31:DK:94:LYS:CD	2.76	0.49
32:DL:85:ASP:C	37:DQ:84:ALA:HB3	2.33	0.49
34:DN:55:MET:HA	34:DN:114:GLN:NE2	2.27	0.49
34:DN:67:ILE:HG13	34:DN:102:ARG:CA	2.43	0.49
37:DQ:110:LEU:HA	37:DQ:113:LYS:HE2	1.94	0.49
37:DQ:11:GLU:HG3	37:DQ:12:LEU:HD12	1.94	0.49
37:DQ:94:VAL:HG12	37:DQ:95:GLU:N	2.28	0.49
40:DT:27:VAL:HG23	40:DT:124:ILE:HG22	1.94	0.49
1:EA:1221:G:H1'	19:ES:54:GLY:HA3	1.94	0.49
1:EA:808:C:OP2	15:EO:48:LYS:CE	2.61	0.49
3:EC:140:ARG:O	3:EC:143:GLU:HB3	2.12	0.49
3:EC:206:GLU:HG2	3:EC:207:VAL:HG23	1.94	0.49
3:EC:64:VAL:C	3:EC:99:VAL:HG23	2.33	0.49
7:EG:15:ASP:HB3	7:EG:20:ASP:H	1.78	0.49
8:EH:10:LEU:HB2	8:EH:14:ARG:HH22	1.78	0.49
8:EH:111:ILE:HG23	8:EH:120:THR:HA	1.94	0.49
10:EJ:79:ARG:C	10:EJ:81:THR:H	2.16	0.49
1:EA:974:A:OP2	14:EN:29:ARG:NH2	2.44	0.49
14:EN:29:ARG:O	14:EN:33:VAL:HG13	2.11	0.49
1:EA:742:G:H5'	15:EO:58:MET:HE1	1.94	0.49
1:EA:663:A:H5"	18:ER:64:ARG:HH12	1.77	0.49
53:F7:105:ARG:HA	53:F7:131:ARG:HD3	1.94	0.49
22:FB:116:A:H2'	22:FB:118:U:C5	2.45	0.49
22:FB:1405:A:N6	41:FU:15:LYS:CG	2.75	0.49
22:FB:1495:G:O4'	22:FB:1576:G:O3'	2.31	0.49
22:FB:1688:U:H2'	22:FB:1690:U:OP2	2.12	0.49
22:FB:2315:A:C1'	44:FX:70:ILE:HD11	2.42	0.49
22:FB:2406:C:OP1	22:FB:2408:G:H4'	2.13	0.49
22:FB:2437:G:H2'	22:FB:2469:G:C6	2.47	0.49
22:FB:2757:G:H4'	22:FB:2759:U:OP1	2.12	0.49
22:FB:686:C:H5'	26:FF:73:SER:O	2.12	0.49
22:FB:787:A:N3	22:FB:788:G:N7	2.61	0.49
22:FB:699:G:N1	22:FB:801:A:H2	2.09	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:FB:1781:C:H5''	24:FD:213:ARG:NH2	2.28	0.49
32:FL:73:VAL:HG21	32:FL:99:ILE:HD12	1.94	0.49
22:FB:2394:G:O4'	33:FM:64:GLY:HA2	2.01	0.49
34:FN:98:VAL:CG2	34:FN:99:LYS:HG2	2.29	0.49
37:FQ:44:ARG:NH2	37:FQ:47:SER:HB2	2.28	0.49
22:FB:25:U:O4'	40:FT:100:GLY:O	2.31	0.49
22:FB:64:C:O5'	41:FU:71:GLN:OE1	2.30	0.49
43:FW:33:ALA:O	43:FW:34:LEU:HB2	2.12	0.49
44:FX:6:GLY:O	44:FX:7:VAL:HG12	2.12	0.49
22:FB:94:C:C6	45:FY:37:LEU:HD23	2.40	0.49
46:FZ:3:ILE:CB	46:FZ:33:GLU:HA	2.37	0.49
22:FB:999:A:OP2	46:FZ:7:ARG:C	2.51	0.49
1:GA:1163:C:H2'	1:GA:1164:G:H8	1.77	0.49
1:GA:1226:C:N4	13:GM:104:ARG:CB	2.40	0.49
1:GA:1268:A:H2'	1:GA:1269:A:C8	2.48	0.49
1:GA:1466:C:H3'	1:GA:1467:G:C8	2.47	0.49
1:GA:816:A:OP1	1:GA:1526:G:N3	2.46	0.49
1:GA:620:C:H2'	1:GA:621:A:C8	2.48	0.49
8:GH:114:THR:HB	8:GH:129:VAL:HB	1.94	0.49
1:GA:826:C:O4'	8:GH:12:ARG:HD3	2.11	0.49
8:GH:41:ARG:HG2	8:GH:120:THR:HG21	1.95	0.49
9:GI:69:GLY:O	9:GI:73:GLN:HG3	2.13	0.49
10:GJ:30:SER:CB	10:GJ:80:LYS:HB3	2.43	0.49
13:GM:15:VAL:HG22	13:GM:45:VAL:HG22	1.94	0.49
18:GR:54:ARG:N	18:GR:54:ARG:HD3	2.27	0.49
20:GT:84:LEU:HA	20:GT:87:LYS:HD2	1.93	0.49
22:HB:2062:U:C4'	47:H1:32:HIS:HE1	1.84	0.49
22:HB:635:C:H4'	51:H5:63:PRO:HG3	1.95	0.49
23:HA:44:C:H2'	23:HA:45:C:C6	2.48	0.49
22:HB:1040:A:C1'	22:HB:2465:G:H4'	2.42	0.49
22:HB:1216:G:N3	33:HM:14:LYS:HD2	2.28	0.49
22:HB:1525:A:H5'	22:HB:1526:U:OP2	2.13	0.49
22:HB:1613:G:H3'	22:HB:1614:C:P	2.42	0.49
22:HB:1685:A:H2'	22:HB:1687:C:N4	2.28	0.49
22:HB:1694:A:H3'	22:HB:1695:U:C6	2.47	0.49
22:HB:1808:C:OP2	24:HD:43:ARG:CB	2.51	0.49
22:HB:1829:C:H2'	22:HB:1886:G:H22	1.78	0.49
22:HB:1938:U:H5	22:HB:2536:G:N2	2.11	0.49
22:HB:2035:G:N2	22:HB:2036:G:H1'	2.27	0.49
22:HB:2366:U:H4'	44:HX:38:VAL:HG21	1.93	0.49
22:HB:2404:A:O2'	44:HX:2:ALA:N	2.46	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:HB:80:A:C1'	22:HB:305:A:C2	2.96	0.49
22:HB:647:G:OP2	33:HM:127:ALA:HB3	2.13	0.49
24:HD:68:LYS:HE3	24:HD:144:ALA:HB1	1.94	0.49
24:HD:158:SER:O	24:HD:202:LYS:HB2	2.12	0.49
25:HE:156:MET:HG2	25:HE:157:ALA:H	1.78	0.49
26:HF:22:VAL:HG23	26:HF:109:ALA:CB	2.43	0.49
28:HH:98:LEU:HD23	28:HH:125:VAL:HG23	1.95	0.49
30:HJ:41:PHE:O	30:HJ:42:ASN:HB2	2.12	0.49
32:HL:22:ILE:HD13	32:HL:22:ILE:O	2.13	0.49
32:HL:8:LEU:HD12	32:HL:19:ILE:HD11	1.95	0.49
36:HP:17:VAL:HG13	36:HP:17:VAL:O	2.13	0.49
39:HS:23:GLU:HA	39:HS:93:ILE:CD1	2.43	0.49
22:HB:1202:U:H5''	39:HS:81:ARG:HH11	1.78	0.49
22:HB:1338:G:N3	40:HT:106:LEU:CA	2.75	0.49
1:IA:1238:A:N3	1:IA:1238:A:H2'	2.28	0.49
1:IA:32:A:H2'	1:IA:33:A:C8	2.48	0.49
1:IA:375:U:H5''	16:IP:6:LEU:CD2	2.40	0.49
1:IA:608:A:C4	16:IP:31:LYS:HD2	2.47	0.49
1:IA:815:A:C5	1:IA:1508:G:C2	2.95	0.49
1:IA:925:G:N2	1:IA:1531:A:H1'	2.27	0.49
2:IB:155:LEU:HD22	2:IB:157:ARG:H	1.78	0.49
7:IG:15:ASP:HB3	7:IG:20:ASP:H	1.78	0.49
10:IJ:46:ARG:HD3	10:IJ:64:GLU:HB3	1.95	0.49
10:IJ:6:ILE:HG22	10:IJ:7:LYS:H	1.78	0.49
14:IN:8:GLU:HG2	14:IN:9:LYS:N	2.28	0.49
1:IA:128:G:C3'	17:IQ:62:SER:O	2.58	0.49
20:IT:36:LEU:HD12	20:IT:62:LEU:HD21	1.95	0.49
47:J1:41:PRO:HG3	47:J1:57:ASP:OD1	2.12	0.49
52:J6:29:ASN:ND2	52:J6:30:VAL:HG23	2.27	0.49
22:JB:1167:A:C2	38:JR:48:ARG:NE	2.71	0.49
22:JB:1178:C:H2'	22:JB:1179:A:C8	2.48	0.49
22:JB:162:C:H2'	22:JB:163:A:H8	1.78	0.49
22:JB:1915:A:N3	22:JB:1915:A:H2'	2.27	0.49
22:JB:2239:C:HO2'	22:JB:2367:A:C5'	2.26	0.49
22:JB:2284:U:H1'	27:JG:152:MET:HA	1.93	0.49
22:JB:2363:G:C3'	44:JX:39:ARG:NH2	2.39	0.49
22:JB:2406:C:C5'	22:JB:2408:G:C1'	2.90	0.49
22:JB:2489:C:O2'	25:JE:126:PRO:HD2	2.08	0.49
22:JB:2873:G:H2'	22:JB:2874:A:H8	1.78	0.49
22:JB:1856:U:H2'	22:JB:3865:A:C8	2.47	0.49
22:JB:67:G:H2'	22:JB:68:C:C1'	2.43	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:JB:846:A:H62	22:JB:955:G:H1	1.59	0.49
25:JE:7:THR:O	25:JE:26:VAL:HG22	2.13	0.49
28:JH:18:ASN:HB2	28:JH:23:VAL:O	2.13	0.49
32:JL:8:LEU:HD12	32:JL:19:ILE:HD11	1.95	0.49
34:JN:55:MET:HA	34:JN:114:GLN:NE2	2.27	0.49
36:JP:17:VAL:HG13	36:JP:17:VAL:O	2.13	0.49
41:JU:77:LYS:HZ1	41:JU:79:ILE:HD11	1.77	0.49
22:JB:339:U:C4'	42:JV:77:HIS:N	2.62	0.49
44:JX:74:LYS:C	44:JX:74:LYS:HZ3	2.16	0.49
44:JX:6:GLY:O	44:JX:7:VAL:HG12	2.12	0.49
1:AA:1081:G:OP1	5:AE:25:ARG:O	2.31	0.49
1:AA:1220:G:H21	19:AS:54:GLY:HA3	1.70	0.49
1:AA:1238:A:H2'	1:AA:1238:A:N3	2.28	0.49
1:AA:1349:A:O3'	9:AI:121:ARG:CZ	2.61	0.49
1:AA:250:A:H4'	1:AA:251:G:O5'	2.13	0.49
1:AA:33:A:H4'	1:AA:363:A:O2'	2.12	0.49
1:AA:990:C:H2'	1:AA:991:U:O4'	2.13	0.49
2:AB:48:MET:HB3	2:AB:52:GLU:CD	2.34	0.49
3:AC:123:GLN:HA	3:AC:128:PHE:CD1	2.48	0.49
3:AC:58:GLU:HA	10:AJ:92:THR:CG2	2.40	0.49
3:AC:87:LEU:O	3:AC:91:LEU:HD22	2.13	0.49
1:AA:426:G:H1'	4:AD:42:GLN:NE2	2.27	0.49
1:AA:429:U:P	4:AD:9:CYS:O	2.66	0.49
1:AA:9:G:OP1	5:AE:122:GLU:OE1	2.31	0.49
5:AE:99:GLY:HA2	5:AE:116:THR:OG1	2.12	0.49
6:AF:72:VAL:C	6:AF:74:ASP:H	2.16	0.49
7:AG:16:LEU:CD2	9:AI:42:ARG:NH1	2.75	0.49
9:AI:69:GLY:O	9:AI:73:GLN:HG3	2.13	0.49
10:AJ:11:PHE:CE1	14:AN:54:PRO:CG	2.89	0.49
10:AJ:46:ARG:HD3	10:AJ:64:GLU:HB3	1.95	0.49
1:AA:952:U:N1	13:AM:123:ALA:O	2.43	0.49
1:AA:760:G:C1'	17:AQ:98:LEU:HB3	2.21	0.49
17:AQ:9:VAL:N	17:AQ:21:VAL:HG12	2.28	0.49
22:BB:1377:G:C2'	47:B1:3:LYS:NZ	2.75	0.49
49:B3:27:ASN:O	49:B3:28:ARG:HB2	2.12	0.49
23:BA:44:C:H2'	23:BA:45:C:C6	2.48	0.49
23:BA:92:G:H2'	23:BA:93:G:H5'	1.95	0.49
22:BB:1070:G:C5	30:BJ:126:THR:HG21	2.47	0.49
22:BB:1401:G:C6	22:BB:1412:C:N3	2.81	0.49
22:BB:1532:A:C3'	22:BB:1533:G:P	3.01	0.49
22:BB:1943:A:H2'	22:BB:1944:C:H6	1.78	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:BB:2343:C:H5'	44:BX:40:GLN:CG	2.43	0.49
22:BB:2349:G:H2'	22:BB:2350:G:C1'	2.43	0.49
22:BB:2647:G:H2'	22:BB:2648:G:H8	1.75	0.49
22:BB:2752:C:C3'	25:BE:164:ARG:HB2	2.43	0.49
22:BB:2757:G:O2'	22:BB:2758:A:H5''	2.12	0.49
22:BB:478:G:H2'	22:BB:479:G:C8	2.47	0.49
22:BB:719:A:N6	22:BB:739:G:O4'	2.38	0.49
22:BB:758:G:O2'	22:BB:761:G:H1'	2.12	0.49
26:BF:149:LEU:HD13	26:BF:186:LEU:HA	1.93	0.49
27:BG:128:TYR:CE2	27:BG:130:LEU:HB2	2.48	0.49
27:BG:37:ASN:HA	27:BG:87:ILE:HD13	1.94	0.49
28:BH:77:LYS:HE3	28:BH:77:LYS:N	2.28	0.49
29:BI:34:LEU:HB3	29:BI:35:ALA:H	1.45	0.49
30:BJ:125:ASN:ND2	30:BJ:125:ASN:N	2.60	0.49
22:BB:1142:G:C1'	31:BK:111:LYS:HB2	2.41	0.49
31:BK:67:ARG:HD2	31:BK:70:PHE:HB2	1.95	0.49
32:BL:106:ARG:HA	32:BL:106:ARG:NE	2.28	0.49
1:AA:339:C:C3'	32:BL:109:ARG:NH1	2.76	0.49
34:BN:114:GLN:HE21	34:BN:114:GLN:HA	1.76	0.49
32:BL:92:ASP:CG	37:BQ:79:ARG:HH22	2.13	0.49
22:BB:504:G:C1'	40:BT:26:ALA:HA	2.43	0.49
42:BV:41:PRO:O	42:BV:42:ARG:HB3	2.13	0.49
42:BV:96:LYS:HD3	42:BV:98:ILE:HD12	1.95	0.49
43:BW:67:LYS:HB2	43:BW:128:ARG:NH1	2.28	0.49
43:BW:72:ASP:HB2	43:BW:78:PRO:HA	1.94	0.49
44:BX:32:LYS:CG	44:BX:33:ALA:H	2.25	0.49
22:BB:941:U:P	46:BZ:24:GLY:H	2.36	0.49
1:CA:1035:A:H4'	1:CA:1035:A:OP1	2.12	0.49
1:CA:399:G:H2'	1:CA:400:C:O4'	2.13	0.49
1:CA:523:A:H62	12:CL:90:VAL:HG13	0.69	0.49
1:CA:730:G:H2'	1:CA:731:G:O4'	2.12	0.49
1:CA:767:A:C2	1:CA:1511:G:N2	2.71	0.49
1:CA:807:A:H2'	1:CA:808:C:O4'	2.13	0.49
3:CC:64:VAL:O	3:CC:99:VAL:HG23	2.12	0.49
3:CC:73:PRO:HB3	3:CC:105:GLU:OE1	2.13	0.49
4:CD:204:ILE:CG2	5:CE:101:ILE:CD1	2.66	0.49
7:CG:46:ALA:O	7:CG:49:ILE:HB	2.13	0.49
12:CL:41:ARG:HD2	12:CL:42:THR:O	2.13	0.49
1:CA:230:G:H4'	16:CP:26:ARG:HH21	0.55	0.49
17:CQ:59:ILE:HG21	17:CQ:71:PHE:HB3	1.94	0.49
18:CR:54:ARG:N	18:CR:54:ARG:HD3	2.27	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:DB:1165:G:OP1	38:DR:76:TYR:OH	2.31	0.49
22:DB:1265:G:C2	38:DR:36:PHE:O	2.66	0.49
22:DB:1469:U:O2'	35:DO:63:ARG:NH2	2.30	0.49
22:DB:162:C:H2'	22:DB:163:A:H8	1.78	0.49
22:DB:165:G:OP1	47:D1:36:TRP:CE3	2.52	0.49
22:DB:1943:A:H2'	22:DB:1944:C:H6	1.78	0.49
22:DB:1883:A:O4'	22:DB:1953:A:C8	2.66	0.49
22:DB:238:G:O2'	22:DB:620:G:OP1	2.31	0.49
22:DB:2732:C:H2'	22:DB:2733:A:O4'	2.13	0.49
22:DB:340:G:H4'	22:DB:488:A:C1'	2.43	0.49
22:DB:478:G:H2'	22:DB:479:G:C8	2.47	0.49
22:DB:539:A:H5''	31:DK:139:ARG:NH2	2.28	0.49
22:DB:588:G:H5'	22:DB:2000:U:H2'	1.94	0.49
22:DB:687:G:H8	26:DF:68:ARG:HH12	1.59	0.49
22:DB:737:C:H2'	22:DB:738:G:O4'	2.13	0.49
22:DB:699:G:N1	22:DB:801:A:H2	2.09	0.49
22:DB:874:A:H2'	23:DA:81:C:H4'	1.95	0.49
22:DB:1804:U:C1'	24:DD:46:ARG:HB2	2.30	0.49
27:DG:128:TYR:CE2	27:DG:130:LEU:HB2	2.48	0.49
27:DG:35:VAL:HG12	27:DG:36:VAL:N	2.22	0.49
27:DG:69:LYS:HZ1	27:DG:72:LYS:N	2.10	0.49
28:DH:138:LYS:H	28:DH:141:VAL:HG13	1.78	0.49
28:DH:152:ARG:HH12	28:DH:161:GLY:HA3	1.78	0.49
28:DH:19:ALA:HB2	28:DH:44:ARG:HG3	1.95	0.49
22:DB:1072:U:C2	30:DJ:10:LEU:CA	2.92	0.49
32:DL:22:ILE:HD13	32:DL:22:ILE:O	2.13	0.49
37:DQ:40:ARG:NE	37:DQ:91:VAL:HG23	2.28	0.49
42:DV:41:PRO:O	42:DV:42:ARG:HB3	2.13	0.49
43:DW:153:LYS:HB2	43:DW:153:LYS:NZ	2.28	0.49
1:EA:1278:U:H5''	1:EA:1279:A:O4'	2.12	0.49
1:EA:1328:C:H2'	1:EA:1329:A:C8	2.48	0.49
1:EA:1408:A:H1'	1:EA:1494:G:N2	2.28	0.49
1:EA:407:G:H2'	1:EA:408:A:O4'	2.12	0.49
1:EA:706:A:H4'	11:EK:29:ILE:CG2	2.43	0.49
1:EA:782:A:H4'	1:EA:1514:C:O2'	2.13	0.49
1:EA:865:A:H2	1:EA:918:A:H4'	1.77	0.49
2:EB:116:GLU:HG2	2:EB:153:ARG:HD3	1.95	0.49
1:EA:546:G:OP1	4:ED:73:ARG:CB	2.61	0.49
6:EF:46:ARG:HH12	18:ER:35:ARG:NH1	2.11	0.49
1:EA:1382:C:O2'	7:EG:79:ARG:NH2	2.46	0.49
7:EG:95:ARG:HG2	7:EG:99:LEU:HG	1.95	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:EI:26:VAL:HB	9:EI:63:ILE:HD11	1.94	0.49
10:EJ:47:PHE:HB2	10:EJ:63:PHE:CB	2.39	0.49
12:EL:83:VAL:HA	12:EL:105:TYR:CB	2.42	0.49
13:EM:53:VAL:HA	13:EM:56:LEU:HG	1.95	0.49
13:EM:71:ARG:O	27:FG:112:ARG:HD3	2.13	0.49
19:ES:18:LYS:HA	19:ES:21:GLU:HG3	1.94	0.49
20:ET:15:ARG:HG2	20:ET:18:GLN:OE1	2.12	0.49
47:F1:10:VAL:H	47:F1:11:PRO:HD3	1.78	0.49
51:F5:9:MET:CB	51:F5:59:LYS:HD3	2.42	0.49
22:FB:1178:C:H2'	22:FB:1179:A:C8	2.48	0.49
22:FB:156:G:C6	22:FB:157:G:O6	2.66	0.49
22:FB:1810:U:C5	24:FD:154:GLN:HA	2.47	0.49
22:FB:1829:C:H2'	22:FB:1886:G:H22	1.78	0.49
22:FB:1908:C:O2	22:FB:1909:U:H1'	2.12	0.49
22:FB:2286:G:H1'	22:FB:2290:A:H61	1.77	0.49
22:FB:2623:A:O3'	22:FB:2624:G:O5'	2.30	0.49
22:FB:3196:G:C6	22:FB:2204:A:N6	2.81	0.49
22:FB:346:C:H1'	42:FV:79:SER:H	1.77	0.49
22:FB:456:C:OP2	38:FR:2:PRO:HG3	2.12	0.49
22:FB:588:G:H5'	22:FB:2000:U:H2'	1.94	0.49
22:FB:643:A:H2	22:FB:2382:C:O4'	1.94	0.49
22:FB:67:G:H2'	22:FB:68:C:C1'	2.43	0.49
22:FB:758:G:O2'	22:FB:761:G:H1'	2.12	0.49
24:FD:132:PRO:O	24:FD:133:LEU:HD22	2.13	0.49
24:FD:11:PRO:O	24:FD:13:ARG:N	2.46	0.49
22:FB:2490:U:C4'	25:FE:122:PHE:CE1	2.95	0.49
22:FB:2510:A:C2'	28:FH:157:TYR:CE2	2.96	0.49
28:FH:157:TYR:O	28:FH:171:LEU:HB2	2.13	0.49
32:FL:22:ILE:O	32:FL:22:ILE:HD13	2.13	0.49
32:FL:76:ARG:HB3	32:FL:90:ARG:NH2	2.28	0.49
33:FM:122:VAL:HG13	33:FM:123:ASP:N	2.28	0.49
34:FN:27:TYR:HB3	43:FW:73:LYS:CD	2.42	0.49
22:FB:1666:G:H22	35:FO:106:ASP:HB3	1.56	0.49
22:FB:587:A:H2	38:FR:33:ARG:CZ	2.25	0.49
43:FW:72:ASP:HB2	43:FW:78:PRO:HA	1.94	0.49
22:FB:2364:C:H1'	44:FX:69:PHE:CZ	2.48	0.49
1:GA:1070:U:H2'	1:GA:1071:C:C6	2.48	0.49
1:GA:1408:A:O3'	22:HB:1899:A:N1	2.46	0.49
1:GA:206:C:H2'	1:GA:207:C:H5'	1.95	0.49
1:GA:216:C:N4	1:GA:217:C:H41	2.10	0.49
1:GA:35:G:O3'	12:GL:122:THR:N	2.45	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:GA:643:C:H2'	1:GA:644:G:C8	2.47	0.49
1:GA:727:G:O3'	15:GO:51:HIS:NE2	2.44	0.49
2:GB:152:PHE:HZ	2:GB:159:PRO:HD3	1.77	0.49
3:GC:3:ASN:HD22	3:GC:3:ASN:H	1.61	0.49
3:GC:72:LYS:HB3	3:GC:75:VAL:HB	1.95	0.49
5:GE:18:ARG:NH1	5:GE:27:ARG:HG3	2.28	0.49
7:GG:27:ILE:HG12	7:GG:43:PHE:CZ	2.48	0.49
10:GJ:28:ARG:HG2	10:GJ:34:VAL:HG21	1.95	0.49
13:GM:46:LYS:HG2	13:GM:47:ASP:N	2.28	0.49
22:HB:52:A:H61	22:HB:115:G:H1'	1.78	0.49
22:HB:1178:C:H2'	22:HB:1179:A:C8	2.48	0.49
22:HB:1821:A:N6	22:HB:1959:U:H1'	2.28	0.49
22:HB:1912:G:N3	22:HB:1912:G:H2'	2.27	0.49
22:HB:1926:U:O2	22:HB:1928:G:H4'	2.12	0.49
22:HB:2286:G:H1'	22:HB:2290:A:H61	1.77	0.49
22:HB:2873:G:H2'	22:HB:2874:A:H8	1.78	0.49
22:HB:839:U:H5''	22:HB:2407:G:O3'	2.12	0.49
22:HB:964:A:N6	22:HB:975:C:H42	2.10	0.49
24:HD:157:ARG:HB3	24:HD:202:LYS:NZ	2.28	0.49
22:HB:1809:G:H5''	24:HD:63:ARG:NH1	2.25	0.49
25:HE:195:LEU:CG	37:HQ:2:GLN:N	2.76	0.49
25:HE:1:MET:H1	25:HE:200:SER:HB2	1.77	0.49
25:HE:7:THR:O	25:HE:26:VAL:HG22	2.13	0.49
28:HH:9:ILE:HG13	28:HH:10:ALA:N	2.18	0.49
29:HI:6:LEU:HD23	29:HI:6:LEU:O	2.13	0.49
32:HL:116:ARG:NE	32:HL:116:ARG:HA	2.28	0.49
32:HL:90:ARG:HA	32:HL:90:ARG:NE	2.28	0.49
34:HN:39:GLU:H	34:HN:99:LYS:HE2	1.78	0.49
35:HO:61:HIS:HD1	35:HO:64:ARG:CZ	2.26	0.49
36:HP:8:ARG:CZ	36:HP:9:ARG:HE	2.26	0.49
32:HL:119:ARG:NH1	37:HQ:43:ASN:O	2.45	0.49
1:IA:399:G:H2'	1:IA:400:C:O4'	2.13	0.49
1:IA:561:U:H4'	12:IL:18:VAL:HG21	1.93	0.49
1:IA:933:G:C2'	1:IA:934:C:H4'	2.41	0.49
4:ID:107:ARG:HH22	4:ID:114:ARG:NH2	2.05	0.49
4:ID:83:SER:HA	4:ID:89:THR:CG2	2.37	0.49
7:IG:105:VAL:HG12	7:IG:109:ASN:HD21	1.77	0.49
8:IH:14:ARG:CZ	8:IH:83:ILE:HG23	2.43	0.49
7:IG:17:VAL:HG23	9:II:41:VAL:HA	1.94	0.49
10:IJ:28:ARG:HG2	10:IJ:34:VAL:HG21	1.95	0.49
11:IK:67:ASP:HA	11:IK:70:LYS:HE3	1.93	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:IA:954:G:O2'	13:IM:123:ALA:HB3	2.12	0.49
17:IQ:9:VAL:H	17:IQ:21:VAL:HG12	1.76	0.49
1:IA:264:U:H1'	17:IQ:67:LYS:HE2	1.56	0.49
17:IQ:11:VAL:HA	17:IQ:85:VAL:HG13	1.94	0.49
48:J2:45:ILE:HD11	48:J2:52:TYR:CD2	2.45	0.49
22:JB:3166:G:H1	53:J7:98:ARG:NH2	2.00	0.49
23:JA:84:G:H2'	23:JA:85:G:H8	1.77	0.49
22:JB:1323:G:H5''	22:JB:1324:G:OP2	2.13	0.49
22:JB:1351:G:H2'	22:JB:1352:G:H8	1.78	0.49
22:JB:1364:C:HO2'	22:JB:1587:A:C1'	2.26	0.49
22:JB:1685:A:H2'	22:JB:1687:C:N4	2.28	0.49
22:JB:1739:G:H2'	22:JB:1740:G:C8	2.48	0.49
22:JB:1829:C:H2'	22:JB:1886:G:H22	1.78	0.49
22:JB:191:G:H2'	22:JB:192:G:O4'	2.12	0.49
22:JB:1923:U:H2'	22:JB:1925:C:N4	2.27	0.49
22:JB:2003:A:H4'	38:JR:25:TRP:HZ3	0.66	0.49
22:JB:2239:C:H2'	44:JX:14:ARG:CD	2.42	0.49
22:JB:2331:A:H2'	22:JB:2332:G:O4'	2.13	0.49
22:JB:2525:U:H1'	22:JB:2544:A:N1	2.24	0.49
22:JB:2005:U:O2'	22:JB:2596:C:H4'	2.13	0.49
22:JB:2669:C:C5	35:JO:17:ARG:CB	2.93	0.49
22:JB:3171:A:OP1	53:J7:104:ALA:CB	2.44	0.49
22:JB:311:A:C2'	22:JB:344:G:H21	2.25	0.49
22:JB:596:C:N3	33:JM:44:GLY:O	2.46	0.49
22:JB:73:A:H5'	45:JY:48:ARG:CD	2.43	0.49
24:JD:10:THR:O	24:JD:12:SER:N	2.42	0.49
24:JD:243:GLY:N	24:JD:244:ARG:HH21	2.11	0.49
24:JD:270:ILE:N	24:JD:270:ILE:HD13	2.27	0.49
28:JH:33:LEU:HD11	28:JH:74:ASN:ND2	2.28	0.49
29:JI:6:LEU:O	29:JI:6:LEU:HD23	2.13	0.49
31:JK:139:ARG:NH2	31:JK:142:ARG:HH11	2.05	0.49
34:JN:99:LYS:N	34:JN:100:PRO:CD	2.75	0.49
22:JB:2847:G:C2	35:JO:8:ARG:HB3	2.47	0.49
40:JT:27:VAL:HG23	40:JT:125:THR:H	1.76	0.49
22:JB:348:U:H4'	42:JV:13:LYS:HB2	1.72	0.49
1:AA:17:U:C1'	1:AA:1079:G:O2'	2.60	0.48
1:AA:399:G:H2'	1:AA:400:C:O4'	2.13	0.48
1:AA:421:U:H3'	1:AA:422:C:C6	2.48	0.48
1:AA:429:U:H4'	1:AA:430:A:OP1	2.12	0.48
1:AA:807:A:H2'	1:AA:808:C:O4'	2.13	0.48
1:AA:851:G:H2'	1:AA:852:G:H8	1.77	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AD:61:LYS:NZ	4:AD:62:GLN:HE21	2.11	0.48
8:AH:10:LEU:HB2	8:AH:14:ARG:HH22	1.78	0.48
10:AJ:30:SER:CB	10:AJ:80:LYS:HE2	2.38	0.48
11:AK:43:SER:OG	11:AK:67:ASP:HB2	2.13	0.48
11:AK:23:ALA:HB3	11:AK:86:GLY:O	2.13	0.48
1:AA:953:G:O2'	13:AM:122:LYS:HG2	2.13	0.48
13:AM:87:TYR:CD1	13:AM:90:LEU:HD12	2.48	0.48
9:AI:111:ARG:CD	14:AN:61:TRP:HZ2	2.24	0.48
15:AO:75:PRO:O	15:AO:78:TYR:HB3	2.13	0.48
16:AP:31:LYS:HG2	16:AP:32:TYR:H	1.78	0.48
17:AQ:43:LEU:HB3	17:AQ:69:LYS:HZ3	1.78	0.48
1:AA:194:C:O2'	20:AT:68:LYS:HB2	2.13	0.48
49:B3:13:GLU:CD	49:B3:24:THR:HA	2.34	0.48
51:B5:35:GLY:N	51:B5:36:LYS:HZ3	2.03	0.48
52:B6:29:ASN:ND2	52:B6:30:VAL:HG23	2.27	0.48
53:B7:105:ARG:HA	53:B7:131:ARG:HD3	1.94	0.48
22:BB:1088:A:O2'	22:BB:1089:C:H5'	2.13	0.48
22:BB:181:A:H4'	22:BB:182:G:C4'	2.42	0.48
22:BB:427:C:P	22:BB:1862:C:O2'	2.70	0.48
22:BB:588:G:H5'	22:BB:2000:U:H2'	1.94	0.48
22:BB:2289:A:C2	27:BG:77:PHE:HZ	2.17	0.48
22:BB:2293:G:H2'	22:BB:2294:U:O4'	2.13	0.48
22:BB:2303:C:H1'	22:BB:2316:G:H5''	1.94	0.48
22:BB:2463:G:C5'	34:BN:47:GLN:HG2	2.42	0.48
22:BB:2662:C:H2'	32:BL:82:LYS:NZ	2.28	0.48
22:BB:2669:C:H5'	22:BB:2847:G:O6	2.12	0.48
22:BB:742:G:C3'	24:BD:18:THR:CG2	2.77	0.48
22:BB:760:U:C5	48:B2:3:LYS:NZ	2.80	0.48
22:BB:811:G:OP2	26:BF:56:ARG:CD	2.61	0.48
24:BD:157:ARG:HB3	24:BD:202:LYS:NZ	2.28	0.48
24:BD:68:LYS:HE3	24:BD:144:ALA:HB1	1.94	0.48
25:BE:107:THR:HA	25:BE:164:ARG:HH22	1.77	0.48
28:BH:33:LEU:HD11	28:BH:74:ASN:ND2	2.28	0.48
22:BB:6:A:C2'	31:BK:163:PRO:CD	2.89	0.48
31:BK:57:LEU:HD13	31:BK:60:SER:HB3	1.95	0.48
32:BL:22:ILE:O	32:BL:22:ILE:HD13	2.13	0.48
32:BL:73:VAL:CG2	32:BL:99:ILE:HB	2.43	0.48
34:BN:39:GLU:H	34:BN:99:LYS:HE2	1.78	0.48
34:BN:67:ILE:HG13	34:BN:102:ARG:CA	2.43	0.48
1:CA:1238:A:N3	1:CA:1238:A:H2'	2.28	0.48
1:CA:1238:A:N7	1:CA:1301:U:N3	2.61	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:1328:C:H2'	1:CA:1329:A:C8	2.48	0.48
1:CA:1375:A:OP1	7:CG:12:LEU:CG	2.59	0.48
1:CA:815:A:O4'	1:CA:1529:G:N1	2.34	0.48
1:CA:206:C:H2'	1:CA:207:C:H5'	1.95	0.48
1:CA:965:A:H1'	1:CA:969:A:C8	2.48	0.48
1:CA:990:C:H2'	1:CA:991:U:O4'	2.13	0.48
4:CD:149:ALA:HB3	4:CD:152:SER:HG	1.78	0.48
1:CA:1374:A:C2'	7:CG:28:ASN:O	2.61	0.48
1:CA:1146:A:H2	9:CI:18:PHE:CZ	2.31	0.48
10:CJ:79:ARG:C	10:CJ:81:THR:H	2.16	0.48
13:CM:27:LYS:C	13:CM:29:ARG:H	2.15	0.48
1:CA:739:C:C2'	15:CO:42:HIS:HD1	2.26	0.48
1:CA:759:A:C2	17:CQ:98:LEU:O	2.66	0.48
48:D2:38:GLY:C	48:D2:39:LYS:HD2	2.33	0.48
53:D7:105:ARG:HA	53:D7:131:ARG:HD3	1.94	0.48
22:DB:1029:C:H5''	22:DB:1046:U:O2'	2.13	0.48
22:DB:1183:C:N3	22:DB:1191:G:N1	2.61	0.48
22:DB:1175:A:C6	22:DB:1198:C:C2	3.01	0.48
22:DB:1685:A:H2'	22:DB:1687:C:N4	2.28	0.48
22:DB:1829:C:H2'	22:DB:1886:G:H22	1.78	0.48
22:DB:2220:A:H2'	22:DB:2221:G:C8	2.48	0.48
22:DB:2242:C:H2'	22:DB:2243:C:C6	2.48	0.48
22:DB:2757:G:H4'	22:DB:2759:U:OP1	2.12	0.48
22:DB:2781:G:H2'	22:DB:2782:G:C8	2.46	0.48
22:DB:3094:A:H2'	22:DB:3095:A:O4'	2.13	0.48
22:DB:395:G:H2'	22:DB:396:U:O4'	2.13	0.48
22:DB:964:A:N6	22:DB:975:C:H42	2.10	0.48
24:DD:213:ARG:HE	24:DD:219:PRO:CA	2.24	0.48
22:DB:704:G:OP1	24:DD:218:LYS:HE2	2.13	0.48
28:DH:54:ARG:N	28:DH:55:PRO:HD3	2.28	0.48
33:DM:16:ARG:NE	33:DM:16:ARG:HA	2.28	0.48
22:DB:2256:G:C1'	34:DN:14:PHE:HZ	2.08	0.48
22:DB:546:A:O4'	38:DR:57:PHE:CE1	2.57	0.48
38:DR:92:ARG:O	38:DR:95:LEU:HB3	2.13	0.48
22:DB:1355:A:H5''	41:DU:54:SER:O	2.12	0.48
22:DB:916:U:H1'	43:DW:164:PRO:HA	1.94	0.48
1:EA:1238:A:N7	1:EA:1301:U:N3	2.61	0.48
1:EA:429:U:H4'	1:EA:430:A:OP1	2.13	0.48
1:EA:779:C:O2	11:EK:120:ARG:CZ	2.57	0.48
1:EA:807:A:H2'	1:EA:808:C:O4'	2.13	0.48
2:EB:32:ILE:HG21	2:EB:40:HIS:HB3	1.94	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:EB:48:MET:HB3	2:EB:52:GLU:CD	2.34	0.48
4:ED:107:ARG:HH22	4:ED:114:ARG:NH2	2.05	0.48
1:EA:546:G:N3	4:ED:2:GLY:HA2	2.27	0.48
7:EG:94:ARG:O	7:EG:97:GLN:HG2	2.13	0.48
1:EA:968:A:P	9:EI:125:TYR:CD2	3.05	0.48
9:EI:69:GLY:O	9:EI:73:GLN:HG3	2.13	0.48
1:EA:1329:A:P	13:EM:28:ALA:H	2.27	0.48
14:EN:8:GLU:HG2	14:EN:9:LYS:N	2.28	0.48
22:FB:2325:A:O2'	49:F3:25:THR:HG21	2.12	0.48
22:FB:1088:A:O2'	22:FB:1089:C:H5'	2.13	0.48
22:FB:10:A:C5	22:FB:2608:A:C8	3.00	0.48
22:FB:1183:C:N3	22:FB:1191:G:N1	2.61	0.48
22:FB:1759:A:H2'	22:FB:1760:G:C8	2.48	0.48
22:FB:2293:G:H2'	22:FB:2294:U:O4'	2.13	0.48
22:FB:2542:U:OP2	32:FL:25:LEU:HD23	2.12	0.48
22:FB:2470:U:N3	22:FB:2548:G:O3'	2.46	0.48
22:FB:2689:C:H2'	22:FB:2690:A:C8	2.48	0.48
22:FB:2716:G:O6	22:FB:2748:C:C4	2.66	0.48
22:FB:2732:C:H2'	22:FB:2733:A:O4'	2.13	0.48
22:FB:2757:G:O2'	22:FB:2758:A:H5''	2.12	0.48
22:FB:346:C:H1'	42:FV:79:SER:N	2.28	0.48
22:FB:457:C:OP1	38:FR:3:ARG:CG	2.60	0.48
22:FB:686:C:C1'	26:FF:74:VAL:HG13	2.43	0.48
22:FB:964:A:N6	22:FB:975:C:H42	2.10	0.48
26:FF:118:VAL:HA	26:FF:189:ASP:HB3	1.95	0.48
28:FH:77:LYS:HE3	28:FH:77:LYS:N	2.28	0.48
31:FK:139:ARG:HH22	31:FK:142:ARG:NH1	2.06	0.48
32:FL:4:PRO:O	32:FL:22:ILE:HA	2.13	0.48
22:FB:2540:A:C4	32:FL:23:ARG:HG3	2.48	0.48
35:FO:96:ARG:H	35:FO:96:ARG:HD2	1.78	0.48
37:FQ:110:LEU:HA	37:FQ:113:LYS:HG3	1.94	0.48
37:FQ:40:ARG:NE	37:FQ:91:VAL:HG23	2.28	0.48
37:FQ:46:ARG:HG3	37:FQ:47:SER:H	1.76	0.48
37:FQ:94:VAL:HG12	37:FQ:95:GLU:N	2.28	0.48
42:FV:96:LYS:HD3	42:FV:98:ILE:HD12	1.95	0.48
43:FW:13:LYS:C	43:FW:14:LEU:HD22	2.34	0.48
22:FB:2311:U:C4'	44:FX:70:ILE:CG2	2.91	0.48
22:FB:864:C:C5'	46:FZ:42:GLY:C	2.80	0.48
1:GA:1238:A:H2'	1:GA:1238:A:N3	2.28	0.48
1:GA:276:G:H5''	17:GQ:43:LEU:HD21	1.95	0.48
1:GA:768:A:H5''	1:GA:804:U:H5''	1.94	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:GA:933:G:C2'	1:GA:934:C:H4'	2.42	0.48
1:GA:1107:C:C4'	3:GC:150:LYS:HZ2	2.26	0.48
1:GA:401:C:P	4:GD:73:ARG:NE	2.86	0.48
5:GE:89:ILE:HD13	5:GE:121:LYS:O	2.13	0.48
5:GE:138:ALA:O	5:GE:142:LEU:HG	2.13	0.48
7:GG:94:ARG:O	7:GG:97:GLN:HG2	2.13	0.48
10:GJ:6:ILE:HG22	10:GJ:7:LYS:H	1.78	0.48
13:GM:82:MET:CG	13:GM:92:HIS:CG	2.92	0.48
1:GA:277:C:P	17:GQ:41:LYS:CE	3.01	0.48
18:GR:31:LEU:O	18:GR:69:THR:HG21	2.12	0.48
22:HB:419:G:H5''	53:H7:197:GLU:HA	1.94	0.48
22:HB:115:G:N7	22:HB:117:A:N7	2.60	0.48
22:HB:1323:G:H5''	22:HB:1324:G:OP2	2.13	0.48
22:HB:1750:A:C4'	22:HB:2695:C:H1'	2.43	0.48
22:HB:1915:A:N3	22:HB:1915:A:H2'	2.27	0.48
22:HB:193:A:N1	22:HB:445:A:N1	2.61	0.48
22:HB:2181:A:H2	29:HI:24:TYR:CD2	2.31	0.48
22:HB:2331:A:H2'	22:HB:2332:G:O4'	2.13	0.48
22:HB:2701:A:C2'	35:HO:5:LYS:NZ	2.75	0.48
22:HB:2848:A:C8	35:HO:6:ALA:HB1	2.48	0.48
22:HB:846:A:H62	22:HB:955:G:H1	1.59	0.48
22:HB:935:C:H2'	22:HB:936:A:C8	2.48	0.48
22:HB:1583:A:N6	24:HD:89:SER:CA	2.76	0.48
25:HE:13:GLN:H	25:HE:22:PRO:HG2	1.78	0.48
27:HG:134:GLU:HG3	27:HG:150:ARG:N	2.28	0.48
28:HH:33:LEU:HD11	28:HH:74:ASN:ND2	2.28	0.48
28:HH:77:LYS:N	28:HH:77:LYS:HE3	2.28	0.48
30:HJ:31:GLY:O	30:HJ:59:ILE:HG23	2.13	0.48
34:HN:36:ILE:HD13	34:HN:36:ILE:N	2.28	0.48
22:HB:2815:C:H4'	35:HO:91:PRO:C	2.34	0.48
43:HW:13:LYS:C	43:HW:14:LEU:HD22	2.34	0.48
43:HW:67:LYS:HB2	43:HW:84:TYR:H	1.77	0.48
44:HX:67:VAL:HG22	44:HX:68:VAL:N	2.28	0.48
44:HX:6:GLY:O	44:HX:7:VAL:HG12	2.12	0.48
46:HZ:3:ILE:HG13	46:HZ:34:VAL:HG12	1.93	0.48
27:FG:179:LYS:CD	1:IA:1021:G:O2'	2.60	0.48
1:IA:1163:C:H2'	1:IA:1164:G:H8	1.77	0.48
1:IA:173:U:H6	1:IA:198:G:HO2'	1.59	0.48
1:IA:362:G:N3	1:IA:362:G:H2'	2.27	0.48
1:IA:10:A:O2'	1:IA:507:C:H4'	2.13	0.48
1:IA:1103:C:H1'	2:IB:108:ILE:HG23	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:IC:73:PRO:HB3	3:IC:105:GLU:OE1	2.14	0.48
3:IC:123:GLN:HA	3:IC:128:PHE:CD1	2.48	0.48
7:IG:36:LYS:HZ2	7:IG:36:LYS:HB2	1.77	0.48
7:IG:46:ALA:O	7:IG:49:ILE:HB	2.13	0.48
11:IK:23:ALA:HB3	11:IK:86:GLY:O	2.13	0.48
12:IL:41:ARG:HD2	12:IL:42:THR:O	2.13	0.48
12:IL:5:PRO:HD3	12:IL:13:LYS:HB2	1.95	0.48
13:IM:56:LEU:HA	13:IM:60:VAL:HG23	1.96	0.48
1:IA:375:U:O3'	16:IP:6:LEU:HB2	2.13	0.48
47:J1:17:GLN:HA	47:J1:33:VAL:O	2.13	0.48
48:J2:34:PRO:CG	48:J2:52:TYR:HA	2.41	0.48
22:JB:474:G:C2'	50:J4:5:TYR:CD1	2.89	0.48
22:JB:3103:A:H5''	53:J7:37:LYS:HG3	0.59	0.48
22:JB:1039:A:N1	22:JB:2466:G:O2'	2.40	0.48
22:JB:1364:C:HO2'	22:JB:1587:A:H1'	1.77	0.48
22:JB:1829:C:O4'	22:JB:1911:A:C1'	2.60	0.48
22:JB:2035:G:N2	22:JB:2036:G:H1'	2.28	0.48
22:JB:2048:C:H2'	22:JB:2049:C:C6	2.48	0.48
22:JB:2850:U:O2'	37:JQ:10:GLY:HA2	2.10	0.48
22:JB:3190:G:O2'	22:JB:3191:A:H5'	2.13	0.48
22:JB:320:A:C4'	42:JV:30:LYS:HG3	2.43	0.48
22:JB:786:U:C4'	24:JD:48:ARG:HA	2.29	0.48
26:JF:61:GLN:HA	26:JF:67:ALA:HB3	1.95	0.48
28:JH:157:TYR:O	28:JH:171:LEU:HB2	2.13	0.48
28:JH:77:LYS:N	28:JH:77:LYS:HE3	2.28	0.48
31:JK:65:LYS:HB3	31:JK:65:LYS:NZ	2.27	0.48
32:JL:114:VAL:HG22	32:JL:132:GLU:O	2.12	0.48
22:JB:1256:C:N4	33:JM:14:LYS:NZ	2.54	0.48
34:JN:39:GLU:H	34:JN:99:LYS:HE2	1.78	0.48
40:JT:43:ASP:HB3	48:J2:20:ARG:CZ	2.42	0.48
22:JB:491:A:H5''	42:JV:72:ARG:HE	1.78	0.48
42:JV:23:ILE:HG13	42:JV:87:GLU:OE1	2.12	0.48
22:JB:76:C:P	45:JY:56:VAL:HG21	2.52	0.48
1:AA:1035:A:OP1	1:AA:1035:A:H4'	2.12	0.48
1:AA:1328:C:H2'	1:AA:1329:A:C8	2.48	0.48
1:AA:1372:U:P	9:AI:71:SER:HB3	2.52	0.48
1:AA:1441:G:C6	20:AT:27:LYS:CE	2.97	0.48
1:AA:206:C:H2'	1:AA:207:C:H5'	1.95	0.48
1:AA:520:A:OP2	12:AL:50:SER:CA	2.61	0.48
1:AA:555:C:H2'	1:AA:556:C:O4'	2.13	0.48
3:AC:73:PRO:HB3	3:AC:105:GLU:OE1	2.14	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:AG:95:ARG:HG2	7:AG:99:LEU:HG	1.95	0.48
1:AA:1130:A:C5'	9:AI:18:PHE:CD2	2.88	0.48
9:AI:29:ASN:HD21	9:AI:64:THR:CG2	2.23	0.48
13:AM:15:VAL:HG22	13:AM:45:VAL:HG22	1.94	0.48
13:AM:56:LEU:HA	13:AM:60:VAL:HG23	1.95	0.48
20:AT:35:THR:HA	20:AT:38:LYS:CE	2.43	0.48
22:BB:2603:G:C1'	48:B2:22:HIS:HA	2.38	0.48
22:BB:1029:C:H3'	22:BB:1030:U:C5'	2.43	0.48
22:BB:1040:A:H1'	34:BN:123:GLY:O	2.13	0.48
22:BB:1176:U:C2	22:BB:1198:C:O2	2.64	0.48
22:BB:1787:U:H2'	22:BB:1788:C:C6	2.48	0.48
22:BB:1829:C:H2'	22:BB:1886:G:H22	1.78	0.48
22:BB:215:G:O2'	22:BB:617:U:O2'	2.31	0.48
22:BB:2461:G:N1	34:BN:54:VAL:HG13	2.27	0.48
22:BB:2795:A:OP1	35:BO:6:ALA:N	2.40	0.48
22:BB:2811:G:H2'	22:BB:2812:A:C8	2.48	0.48
22:BB:3094:A:H2'	22:BB:3095:A:O4'	2.13	0.48
22:BB:742:G:C5'	24:BD:17:THR:HG22	2.43	0.48
24:BD:31:LYS:HB3	24:BD:83:GLU:HG3	1.95	0.48
22:BB:1803:G:H1'	24:BD:47:GLY:HA2	1.94	0.48
25:BE:156:MET:HG2	25:BE:157:ALA:H	1.78	0.48
26:BF:146:GLU:HG2	26:BF:185:ARG:HD2	1.95	0.48
22:BB:2422:C:H5''	26:BF:62:LYS:HG3	1.96	0.48
28:BH:54:ARG:N	28:BH:55:PRO:HD3	2.28	0.48
22:BB:1142:G:O5'	31:BK:106:TYR:O	2.31	0.48
31:BK:139:ARG:NH2	31:BK:142:ARG:HH11	2.05	0.48
22:BB:1149:G:C5'	31:BK:55:ALA:HB3	2.38	0.48
32:BL:4:PRO:O	32:BL:22:ILE:HA	2.13	0.48
33:BM:127:ALA:HA	33:BM:130:ILE:HG23	1.95	0.48
33:BM:16:ARG:NE	33:BM:16:ARG:HA	2.28	0.48
36:BP:8:ARG:CZ	36:BP:9:ARG:HE	2.25	0.48
22:BB:508:G:C6	40:BT:21:ARG:NH1	2.80	0.48
42:BV:33:THR:O	42:BV:35:LYS:HG3	2.12	0.48
34:BN:28:VAL:CG1	43:BW:119:ASN:HB3	2.38	0.48
1:CA:1070:U:H2'	1:CA:1071:C:C6	2.48	0.48
1:CA:1220:G:N3	19:CS:54:GLY:HA3	2.26	0.48
1:CA:1228:C:H2'	1:CA:1229:A:C8	2.38	0.48
1:CA:33:A:H4'	1:CA:363:A:O2'	2.12	0.48
1:CA:429:U:H4'	1:CA:430:A:OP1	2.13	0.48
1:CA:742:G:P	15:CO:58:MET:CE	3.01	0.48
1:CA:1074:G:C4'	2:CB:104:ASN:HA	2.37	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CC:123:GLN:HA	3:CC:128:PHE:CD1	2.49	0.48
7:CG:49:ILE:HD13	7:CG:121:ALA:N	2.28	0.48
7:CG:64:GLN:NE2	7:CG:68:ASN:HD21	2.07	0.48
1:CA:875:C:HO2'	8:CH:14:ARG:HG2	1.78	0.48
10:CJ:62:HIS:C	14:CN:59:ALA:N	2.58	0.48
1:CA:1331:G:OP1	13:CM:23:TYR:CE1	2.66	0.48
15:CO:75:PRO:O	15:CO:78:TYR:HB3	2.13	0.48
1:CA:136:C:C2'	16:CP:63:GLY:CA	2.90	0.48
18:CR:73:ALA:HB1	18:CR:78:LEU:HB3	1.95	0.48
20:CT:36:LEU:HD12	20:CT:62:LEU:HD21	1.95	0.48
51:D5:34:THR:HA	51:D5:36:LYS:HZ3	1.79	0.48
52:D6:29:ASN:ND2	52:D6:30:VAL:HG23	2.27	0.48
23:DA:90:C:C2'	23:DA:91:A:H5'	2.43	0.48
22:DB:1000:G:O5'	22:DB:1168:G:H5'	2.12	0.48
22:DB:1790:G:H4'	22:DB:1791:C:C5	2.47	0.48
22:DB:181:A:H4'	22:DB:182:G:C4'	2.43	0.48
22:DB:1880:G:H2'	22:DB:1881:U:C6	2.49	0.48
22:DB:2286:G:H1'	22:DB:2290:A:H61	1.77	0.48
22:DB:2372:A:O5'	33:DM:60:LEU:CD1	2.57	0.48
22:DB:2689:C:H2'	22:DB:2690:A:C8	2.48	0.48
22:DB:2729:A:H2	52:D6:18:ARG:CZ	2.03	0.48
22:DB:592:G:H5''	38:DR:10:ARG:HD3	1.95	0.48
25:DE:145:LYS:O	25:DE:145:LYS:HD3	2.13	0.48
25:DE:156:MET:HG2	25:DE:157:ALA:H	1.78	0.48
25:DE:107:THR:HA	25:DE:164:ARG:HH22	1.77	0.48
25:DE:4:ILE:HD12	25:DE:197:VAL:HG13	1.95	0.48
26:DF:149:LEU:HD13	26:DF:186:LEU:HA	1.93	0.48
27:DG:37:ASN:HA	27:DG:87:ILE:HD13	1.94	0.48
22:DB:2292:C:H4'	27:DG:88:LYS:HD3	1.95	0.48
28:DH:77:LYS:HE3	28:DH:77:LYS:N	2.28	0.48
31:DK:122:HIS:N	31:DK:123:PRO:HD2	2.24	0.48
32:DL:116:ARG:NE	32:DL:116:ARG:HA	2.28	0.48
22:DB:1468:A:N6	35:DO:58:GLY:HA3	2.28	0.48
38:DR:22:LYS:HZ2	38:DR:24:PHE:HE2	1.61	0.48
38:DR:21:ALA:HB1	38:DR:29:SER:HA	1.93	0.48
45:DY:44:ARG:HA	45:DY:47:ARG:CB	2.38	0.48
1:EA:1100:C:H3'	2:EB:98:LEU:CG	2.35	0.48
1:EA:851:G:H2'	1:EA:852:G:H8	1.78	0.48
1:EA:965:A:H1'	1:EA:969:A:C8	2.48	0.48
1:EA:968:A:OP1	9:EI:125:TYR:HD2	1.86	0.48
2:EB:155:LEU:HD22	2:EB:157:ARG:H	1.78	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:EC:83:ARG:HA	3:EC:86:VAL:CG2	2.42	0.48
3:EC:91:LEU:HD23	3:EC:92:ALA:N	2.29	0.48
6:EF:19:LEU:HD21	6:EF:59:TYR:CE2	2.48	0.48
6:EF:72:VAL:C	6:EF:74:ASP:H	2.16	0.48
10:EJ:28:ARG:HG2	10:EJ:34:VAL:HG21	1.95	0.48
17:EQ:9:VAL:N	17:EQ:21:VAL:HG12	2.28	0.48
48:F2:34:PRO:CG	48:F2:52:TYR:HA	2.41	0.48
23:FA:84:G:H2'	23:FA:85:G:H8	1.77	0.48
22:FB:1029:C:H3'	22:FB:1030:U:C5'	2.43	0.48
22:FB:181:A:H4'	22:FB:182:G:C4'	2.43	0.48
22:FB:1998:A:O2'	48:F2:3:LYS:HE3	2.12	0.48
22:FB:2331:A:H2'	22:FB:2332:G:O4'	2.13	0.48
22:FB:643:A:N1	22:FB:2382:C:H4'	2.29	0.48
22:FB:2461:G:O6	34:FN:54:VAL:CG1	2.47	0.48
22:FB:2807:U:C5	22:FB:2859:U:H5''	2.48	0.48
22:FB:3153:G:H2'	22:FB:3154:G:C8	2.48	0.48
22:FB:3190:G:O2'	22:FB:3191:A:H5'	2.13	0.48
22:FB:879:A:H1'	22:FB:2298:U:O4	2.13	0.48
22:FB:980:G:P	46:FZ:13:PRO:CA	2.83	0.48
22:FB:1809:G:H4'	24:FD:157:ARG:NH1	2.28	0.48
25:FE:11:MET:HE3	25:FE:12:THR:H	1.77	0.48
22:FB:2767:C:H1'	25:FE:61:LYS:HG2	1.95	0.48
28:FH:18:ASN:HB2	28:FH:23:VAL:O	2.13	0.48
30:FJ:31:GLY:O	30:FJ:59:ILE:HG23	2.13	0.48
22:FB:1018:C:O2'	31:FK:134:MET:CB	2.61	0.48
31:FK:65:LYS:HB3	31:FK:65:LYS:NZ	2.27	0.48
22:FB:566:U:C2	31:FK:73:ASN:OD1	2.63	0.48
31:FK:43:VAL:HG13	31:FK:81:VAL:HB	1.95	0.48
34:FN:35:LEU:HA	34:FN:128:ILE:O	2.13	0.48
38:FR:58:ARG:HH12	38:FR:62:ILE:HG23	1.78	0.48
38:FR:92:ARG:O	38:FR:95:LEU:HB3	2.13	0.48
22:FB:1007:A:H5'	38:FR:94:VAL:HG23	1.95	0.48
43:FW:153:LYS:NZ	43:FW:153:LYS:HB2	2.28	0.48
1:GA:1035:A:H4'	1:GA:1035:A:OP1	2.12	0.48
1:GA:107:G:C2	1:GA:108:G:H1'	2.48	0.48
1:GA:1106:G:H2'	1:GA:1107:C:H6	1.77	0.48
1:CA:1266:G:P	1:GA:1273:G:H5''	2.53	0.48
1:GA:1328:C:H2'	1:GA:1329:A:C8	2.48	0.48
1:GA:1480:G:O2'	1:GA:1481:U:H5'	2.14	0.48
1:GA:545:C:H5''	4:GD:72:GLU:CD	2.33	0.48
1:GA:965:A:H1'	1:GA:969:A:C8	2.48	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:GA:971:G:N7	1:GA:1233:G:H1'	2.28	0.48
3:GC:91:LEU:HD23	3:GC:92:ALA:N	2.28	0.48
8:GH:110:ALA:HB2	8:GH:136:GLU:HA	1.95	0.48
8:GH:9:MET:SD	8:GH:32:LYS:HB3	2.52	0.48
7:GG:16:LEU:HG	9:GI:42:ARG:NH1	2.28	0.48
1:GA:952:U:C6	13:GM:126:LYS:N	2.77	0.48
13:GM:86:CYS:HB2	19:GS:74:PHE:HE2	1.76	0.48
1:GA:1309:G:O5'	13:GM:99:ARG:CZ	2.61	0.48
14:GN:18:VAL:HG23	14:GN:19:ARG:H	1.77	0.48
16:GP:71:ARG:NE	16:GP:74:LEU:HB2	2.25	0.48
20:GT:35:THR:HA	20:GT:38:LYS:CE	2.43	0.48
48:H2:38:GLY:C	48:H2:39:LYS:HD2	2.33	0.48
53:H7:5:LYS:NZ	53:H7:184:ILE:HG13	2.27	0.48
22:HB:1042:G:O2'	52:H6:6:SER:HA	2.14	0.48
22:HB:1141:U:H5'	31:HK:107:GLN:N	2.27	0.48
22:HB:1789:U:H5''	24:HD:257:LEU:CG	2.18	0.48
22:HB:191:G:H2'	22:HB:192:G:O4'	2.12	0.48
22:HB:2797:G:C5	35:HO:3:HIS:NE2	2.81	0.48
22:HB:2811:G:H2'	22:HB:2812:A:C8	2.48	0.48
22:HB:2769:C:C2	22:HB:2867:G:C2	3.00	0.48
22:HB:311:A:C2'	22:HB:344:G:H21	2.26	0.48
22:HB:3870:C:H2'	22:HB:3871:A:C4	2.48	0.48
22:HB:487:G:H22	22:HB:490:A:H1'	1.78	0.48
22:HB:627:A:H2'	22:HB:628:A:N9	2.27	0.48
24:HD:11:PRO:O	24:HD:13:ARG:N	2.47	0.48
1:GA:712:A:H5'	24:HD:184:ARG:HH11	1.78	0.48
26:HF:87:LYS:HE2	26:HF:88:PRO:HD2	1.95	0.48
33:HM:127:ALA:HA	33:HM:130:ILE:HG23	1.95	0.48
34:HN:105:PHE:C	43:HW:113:VAL:CG1	2.43	0.48
36:HP:104:ALA:HA	36:HP:107:ALA:HB2	1.96	0.48
22:HB:510:G:O6	40:HT:19:LYS:HE3	2.13	0.48
22:HB:2365:U:OP1	44:HX:39:ARG:CZ	2.61	0.48
46:HZ:2:LYS:O	46:HZ:3:ILE:HD13	2.13	0.48
1:IA:107:G:C2	1:IA:108:G:H1'	2.48	0.48
1:IA:1106:G:H2'	1:IA:1107:C:H6	1.77	0.48
1:IA:1189:C:O2	3:IC:176:HIS:NE2	2.43	0.48
1:IA:531:U:O4	1:IA:1209:C:H5'	2.12	0.48
1:IA:1328:C:H2'	1:IA:1329:A:C8	2.48	0.48
1:IA:1355:G:H2'	1:IA:1356:G:C8	2.48	0.48
1:IA:1391:U:O3'	1:IA:1531:A:OP1	2.24	0.48
1:IA:1392:G:O4'	1:IA:1531:A:P	2.71	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:IA:339:C:N3	1:IA:350:G:N1	2.61	0.48
1:IA:434:U:N3	1:IA:435:C:N4	2.60	0.48
1:IA:768:A:H5''	1:IA:804:U:H5''	1.94	0.48
2:IB:48:MET:HB3	2:IB:52:GLU:CD	2.34	0.48
5:IE:11:ILE:HG12	5:IE:31:LEU:O	2.12	0.48
5:IE:89:ILE:HD13	5:IE:121:LYS:O	2.13	0.48
9:II:69:GLY:O	9:II:73:GLN:HG3	2.13	0.48
13:IM:27:LYS:C	13:IM:29:ARG:H	2.16	0.48
19:IS:18:LYS:HA	19:IS:21:GLU:HG3	1.94	0.48
48:J2:38:GLY:C	48:J2:39:LYS:HD2	2.33	0.48
22:JB:3167:U:C2	53:J7:98:ARG:CD	2.95	0.48
22:JB:2195:C:OP1	47:J1:53:GLU:CG	2.60	0.48
22:JB:226:C:O2'	22:JB:2373:C:C2'	2.60	0.48
22:JB:2286:G:H1'	22:JB:2290:A:H61	1.77	0.48
22:JB:2847:G:H22	35:JO:9:LYS:CA	2.25	0.48
22:JB:193:A:N1	22:JB:445:A:N1	2.61	0.48
22:JB:474:G:H2'	50:J4:5:TYR:CE1	2.46	0.48
22:JB:527:C:H5''	40:JT:36:ARG:HH11	1.78	0.48
22:JB:627:A:H2'	22:JB:628:A:N9	2.27	0.48
22:JB:793:G:N2	22:JB:796:A:N6	2.61	0.48
22:JB:841:G:N3	22:JB:841:G:H2'	2.27	0.48
22:JB:935:C:H2'	22:JB:936:A:C8	2.49	0.48
24:JD:84:TYR:HB3	24:JD:91:ARG:NH1	2.29	0.48
25:JE:23:VAL:CG2	25:JE:186:GLY:H	2.26	0.48
30:JJ:100:ASN:HB3	30:JJ:103:GLN:HB3	1.94	0.48
32:JL:106:ARG:HA	32:JL:106:ARG:NE	2.28	0.48
33:JM:16:ARG:NE	33:JM:16:ARG:HA	2.28	0.48
22:JB:1265:G:N2	38:JR:32:TYR:HD1	2.08	0.48
38:JR:58:ARG:HH12	38:JR:62:ILE:HG23	1.78	0.48
43:JW:50:GLY:C	43:JW:128:ARG:HH22	2.16	0.48
44:JX:45:PHE:H	44:JX:76:ALA:CA	2.27	0.48
22:JB:108:G:H2'	45:JY:62:ARG:HD2	1.95	0.48
1:AA:1070:U:H2'	1:AA:1071:C:C6	2.48	0.48
1:AA:1238:A:N7	1:AA:1301:U:N3	2.61	0.48
1:AA:452:A:O2'	16:AP:72:ARG:HD2	2.13	0.48
1:AA:373:A:H61	1:AA:482:A:H62	1.60	0.48
1:AA:965:A:H1'	1:AA:969:A:C8	2.48	0.48
5:AE:89:ILE:HD13	5:AE:121:LYS:O	2.13	0.48
5:AE:78:HIS:HE1	5:AE:142:LEU:HD23	1.77	0.48
6:AF:39:LYS:HE2	6:AF:64:GLN:HE22	1.77	0.48
7:AG:105:VAL:HG12	7:AG:109:ASN:HD21	1.77	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:AH:110:ALA:HB2	8:AH:136:GLU:HA	1.94	0.48
10:AJ:6:ILE:HG22	10:AJ:7:LYS:H	1.79	0.48
20:AT:56:MET:SD	20:AT:57:ARG:HG3	2.53	0.48
20:AT:83:ARG:O	20:AT:87:LYS:HG3	2.14	0.48
48:B2:41:LEU:HD22	48:B2:44:HIS:ND1	2.27	0.48
53:B7:113:ASN:HA	53:B7:138:LEU:HD11	1.95	0.48
22:BB:3124:G:C1'	53:B7:31:GLU:CD	2.78	0.48
23:BA:77:G:O2'	43:BW:30:VAL:N	2.46	0.48
23:BA:84:G:H2'	23:BA:85:G:H8	1.77	0.48
22:BB:1029:C:H4'	22:BB:1131:G:H21	1.78	0.48
22:BB:1143:A:C4'	31:BK:111:LYS:CG	2.68	0.48
22:BB:1323:G:H5''	22:BB:1324:G:OP2	2.13	0.48
22:BB:1525:A:H5'	22:BB:1526:U:OP2	2.12	0.48
22:BB:1759:A:H2'	22:BB:1760:G:C8	2.48	0.48
22:BB:1791:C:H1'	22:BB:1793:A:O4'	2.13	0.48
22:BB:2329:C:O5'	51:B5:42:ARG:CD	2.61	0.48
22:BB:2732:C:H2'	22:BB:2733:A:O4'	2.14	0.48
22:BB:3153:G:H2'	22:BB:3154:G:C8	2.48	0.48
22:BB:3197:U:O2'	22:BB:2181:A:P	2.71	0.48
22:BB:193:A:N1	22:BB:445:A:N1	2.61	0.48
22:BB:511:A:N1	40:BT:12:LYS:HD3	2.27	0.48
22:BB:817:A:OP2	33:BM:45:LYS:HE2	2.13	0.48
22:BB:923:A:N3	22:BB:2243:C:C1'	2.76	0.48
22:BB:964:A:N6	22:BB:975:C:H42	2.10	0.48
25:BE:181:LEU:CD1	37:BQ:16:ILE:CG1	2.88	0.48
26:BF:67:ALA:HB1	26:BF:69:HIS:ND1	2.27	0.48
26:BF:94:THR:O	26:BF:95:LEU:HB3	2.12	0.48
27:BG:156:ILE:HG23	27:BG:156:ILE:O	2.13	0.48
27:BG:35:VAL:HG12	27:BG:36:VAL:N	2.22	0.48
28:BH:138:LYS:H	28:BH:141:VAL:HG13	1.78	0.48
22:BB:2725:C:O2'	28:BH:141:VAL:N	2.43	0.48
22:BB:2723:C:C2	28:BH:150:LYS:HE3	2.48	0.48
22:BB:1075:C:H5''	30:BJ:84:ILE:HD12	1.91	0.48
22:BB:2372:A:O2'	33:BM:59:ARG:HA	2.13	0.48
37:BQ:40:ARG:NE	37:BQ:91:VAL:HG23	2.28	0.48
38:BR:92:ARG:O	38:BR:95:LEU:HB3	2.13	0.48
39:BS:36:LYS:HD3	39:BS:59:GLU:O	2.14	0.48
23:BA:98:C:H41	43:BW:10:PRO:HD2	1.75	0.48
43:BW:49:THR:OG1	43:BW:132:GLN:CG	2.58	0.48
44:BX:46:LYS:HD2	44:BX:74:LYS:O	2.13	0.48
44:BX:6:GLY:O	44:BX:7:VAL:HG12	2.12	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:1100:C:O2'	1:CA:1101:A:H5'	2.14	0.48
1:CA:1408:A:H1'	1:CA:1494:G:N2	2.27	0.48
1:CA:211:G:O2'	1:CA:212:G:H1'	2.13	0.48
1:CA:407:G:H2'	1:CA:408:A:O4'	2.12	0.48
1:CA:440:A:H62	1:CA:494:G:H21	1.60	0.48
2:CB:48:MET:HB3	2:CB:52:GLU:CD	2.34	0.48
4:CD:107:ARG:HH22	4:CD:114:ARG:NH2	2.05	0.48
1:CA:435:C:C2'	4:CD:156:GLU:CG	2.86	0.48
1:CA:509:A:P	4:CD:54:TYR:CD2	3.06	0.48
5:CE:150:ARG:HD3	5:CE:150:ARG:O	2.13	0.48
8:CH:48:TYR:HB3	8:CH:61:VAL:HA	1.96	0.48
3:CC:23:TYR:CE1	10:CJ:10:GLY:HA2	2.49	0.48
13:CM:13:LYS:HD3	13:CM:17:VAL:HG11	1.95	0.48
13:CM:6:GLY:O	13:CM:8:GLU:HG2	2.14	0.48
1:CA:1308:U:P	13:CM:97:PRO:HB3	2.51	0.48
14:CN:8:GLU:HA	14:CN:11:LYS:HD3	1.94	0.48
1:CA:974:A:C5'	14:CN:41:ARG:HH12	2.25	0.48
17:CQ:3:LYS:O	17:CQ:5:VAL:HG23	2.14	0.48
47:D1:22:MET:HE2	47:D1:27:THR:O	2.13	0.48
23:DA:9:G:H5''	36:DP:32:TYR:CE1	2.46	0.48
22:DB:1773:C:H3'	22:DB:1773:C:OP1	2.12	0.48
22:DB:1829:C:O5'	22:DB:1911:A:O3'	2.31	0.48
22:DB:2311:U:C4'	22:DB:2315:A:H62	2.20	0.48
22:DB:2370:G:C2'	22:DB:2371:A:P	3.01	0.48
22:DB:2561:G:N3	22:DB:2561:G:H2'	2.28	0.48
22:DB:2611:A:H1'	25:DE:61:LYS:HD2	1.94	0.48
22:DB:2807:U:C5	22:DB:2859:U:H5''	2.48	0.48
22:DB:3153:G:H2'	22:DB:3154:G:C8	2.48	0.48
22:DB:3190:G:O2'	22:DB:3191:A:H5'	2.13	0.48
22:DB:348:U:H1'	42:DV:11:ASN:CG	2.34	0.48
22:DB:424:G:OP2	22:DB:2386:G:OP1	2.30	0.48
22:DB:504:G:C2	40:DT:74:SER:OG	2.67	0.48
22:DB:510:G:N2	22:DB:513:A:P	2.86	0.48
22:DB:777:A:O2'	24:DD:210:GLY:HA2	2.12	0.48
24:DD:154:GLN:HB3	24:DD:155:LEU:HD23	1.95	0.48
22:DB:1788:C:H5'	24:DD:254:THR:HG23	1.92	0.48
22:DB:2612:G:N3	25:DE:62:PRO:CB	2.76	0.48
26:DF:48:ARG:HE	26:DF:51:VAL:HG23	1.78	0.48
28:DH:77:LYS:HG2	28:DH:138:LYS:HD3	1.94	0.48
30:DJ:31:GLY:O	30:DJ:59:ILE:HG23	2.13	0.48
32:DL:110:VAL:CG1	32:DL:131:PRO:HD3	2.39	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:DL:4:PRO:O	32:DL:22:ILE:HA	2.13	0.48
32:DL:73:VAL:HG21	32:DL:99:ILE:HD12	1.94	0.48
36:DP:8:ARG:CZ	36:DP:9:ARG:HE	2.25	0.48
38:DR:37:GLN:HA	38:DR:40:LEU:HD23	1.95	0.48
22:DB:1173:G:H4'	39:DS:23:GLU:N	2.28	0.48
39:DS:38:LEU:HD23	39:DS:38:LEU:H	1.79	0.48
39:DS:32:LYS:HD2	39:DS:63:HIS:H	1.77	0.48
43:DW:84:TYR:CD1	43:DW:128:ARG:HG3	2.48	0.48
46:DZ:4:LYS:CD	46:DZ:5:LEU:H	2.19	0.48
1:EA:1225:A:C5'	13:EM:102:ARG:N	2.75	0.48
1:EA:211:G:O2'	1:EA:212:G:H1'	2.13	0.48
1:EA:225:C:C5	1:EA:226:G:H1'	2.48	0.48
1:EA:520:A:O3'	12:EL:54:LYS:NZ	2.39	0.48
2:EB:31:TYR:O	2:EB:42:ILE:HA	2.13	0.48
1:EA:545:C:P	4:ED:65:ARG:HH22	2.36	0.48
5:EE:138:ALA:O	5:EE:142:LEU:HG	2.13	0.48
6:EF:46:ARG:NH1	18:ER:35:ARG:HH11	2.09	0.48
20:ET:35:THR:HA	20:ET:38:LYS:CE	2.43	0.48
47:F1:49:PHE:H	47:F1:69:ARG:CG	2.23	0.48
52:F6:29:ASN:ND2	52:F6:30:VAL:HG23	2.27	0.48
22:FB:3866:A:C6	53:F7:196:VAL:CG1	2.94	0.48
22:FB:15:G:H1'	48:F2:18:MET:HB3	1.91	0.48
22:FB:1636:G:O4'	50:F4:1:MET:CG	2.61	0.48
22:FB:1775:A:H5''	22:FB:1776:A:OP1	2.14	0.48
22:FB:1787:U:H2'	22:FB:1788:C:C6	2.48	0.48
22:FB:2240:C:H5''	44:FX:15:ASP:O	2.13	0.48
22:FB:2242:C:H2'	22:FB:2243:C:C6	2.48	0.48
22:FB:2561:G:N3	22:FB:2561:G:H2'	2.28	0.48
22:FB:2781:G:H2'	22:FB:2782:G:C8	2.46	0.48
22:FB:2811:G:H2'	22:FB:2812:A:C8	2.48	0.48
22:FB:3094:A:H2'	22:FB:3095:A:O4'	2.13	0.48
22:FB:3196:G:N1	22:FB:2204:A:N6	2.61	0.48
22:FB:193:A:N1	22:FB:445:A:N1	2.61	0.48
22:FB:487:G:H22	22:FB:490:A:H1'	1.79	0.48
22:FB:64:C:N4	41:FU:64:ARG:CB	2.75	0.48
22:FB:718:A:H61	22:FB:739:G:C2'	2.25	0.48
22:FB:777:A:OP2	24:FD:211:ARG:NH2	2.41	0.48
24:FD:145:LEU:O	24:FD:154:GLN:HB2	2.14	0.48
22:FB:332:C:H5'	26:FF:130:THR:HG22	1.92	0.48
26:FF:67:ALA:HB1	26:FF:69:HIS:ND1	2.27	0.48
27:FG:128:TYR:CE2	27:FG:130:LEU:HB2	2.48	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:FI:4:ILE:HA	29:FI:15:GLY:HA2	1.95	0.48
31:FK:116:ARG:HH22	31:FK:126:VAL:CG1	2.26	0.48
32:FL:116:ARG:NE	32:FL:116:ARG:HA	2.28	0.48
33:FM:16:ARG:HA	33:FM:16:ARG:NE	2.28	0.48
34:FN:55:MET:HA	34:FN:114:GLN:NE2	2.27	0.48
23:FA:92:G:N2	34:FN:22:ALA:N	2.50	0.48
37:FQ:72:SER:HA	37:FQ:79:ARG:O	2.13	0.48
43:FW:65:LEU:N	43:FW:128:ARG:NH1	2.59	0.48
1:GA:1154:G:H2'	1:GA:1155:G:C8	2.49	0.48
1:GA:10:A:O2'	1:GA:507:C:H4'	2.13	0.48
1:GA:767:A:H2'	1:GA:768:A:O4'	2.13	0.48
2:GB:48:MET:HB3	2:GB:52:GLU:CD	2.33	0.48
3:GC:53:ALA:HA	3:GC:114:PRO:HB2	1.96	0.48
8:GH:10:LEU:HB2	8:GH:14:ARG:HH22	1.78	0.48
5:GE:80:ILE:CG2	8:GH:138:TRP:CH2	2.96	0.48
9:GI:111:ARG:NH1	14:GN:61:TRP:CZ2	2.81	0.48
9:GI:26:VAL:HB	9:GI:63:ILE:HD11	1.94	0.48
1:GA:953:G:C8	13:GM:124:PRO:O	2.66	0.48
1:GA:1186:G:C2	14:GN:61:TRP:CA	2.85	0.48
47:H1:41:PRO:HA	47:H1:58:LYS:NZ	2.28	0.48
51:H5:54:GLU:HG2	51:H5:55:TRP:N	2.28	0.48
22:HB:1128:G:N2	22:HB:1129:A:H1'	2.28	0.48
22:HB:1205:G:H2'	22:HB:1206:G:H8	1.78	0.48
22:HB:2048:C:H2'	22:HB:2049:C:C6	2.48	0.48
22:HB:2220:A:H2'	22:HB:2221:G:C8	2.48	0.48
22:HB:2510:A:H1'	22:HB:2637:C:O2'	2.14	0.48
22:HB:2553:G:O2'	25:HE:143:GLN:C	2.51	0.48
22:HB:2690:A:H3'	22:HB:2694:G:H4'	1.94	0.48
22:HB:2732:C:H2'	22:HB:2733:A:O4'	2.13	0.48
22:HB:2807:U:C5	22:HB:2859:U:H5''	2.48	0.48
22:HB:3867:G:H2'	22:HB:3868:U:O4'	2.12	0.48
22:HB:3871:A:H2'	22:HB:3872:A:C8	2.48	0.48
22:HB:42:G:H2'	22:HB:43:A:O4'	2.13	0.48
22:HB:489:A:C5'	42:HV:5:SER:O	2.60	0.48
22:HB:543:G:P	38:HR:24:PHE:HA	2.53	0.48
22:HB:793:G:N2	22:HB:796:A:N6	2.61	0.48
22:HB:8:A:C6	22:HB:2869:U:C4	3.01	0.48
30:HJ:100:ASN:HB3	30:HJ:103:GLN:CB	2.44	0.48
34:HN:55:MET:HA	34:HN:114:GLN:NE2	2.27	0.48
22:HB:2002:A:C1'	38:HR:33:ARG:NE	2.77	0.48
43:HW:19:ILE:HG23	43:HW:20:ALA:N	2.24	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:HW:72:ASP:HB2	43:HW:78:PRO:HA	1.94	0.48
1:IA:1439:C:H2'	1:IA:1440:C:C6	2.47	0.48
2:IB:32:ILE:HG21	2:IB:40:HIS:HB3	1.94	0.48
3:IC:184:TYR:HB2	3:IC:200:ALA:O	2.14	0.48
3:IC:72:LYS:HB3	3:IC:75:VAL:HB	1.95	0.48
4:ID:13:ARG:NH1	4:ID:36:ARG:HD3	2.29	0.48
5:IE:150:ARG:O	5:IE:150:ARG:HD3	2.13	0.48
8:IH:10:LEU:HB2	8:IH:14:ARG:HH22	1.78	0.48
10:IJ:63:PHE:O	14:IN:59:ALA:HB3	2.12	0.48
1:IA:362:G:OP1	12:IL:61:THR:HB	2.14	0.48
20:IT:35:THR:HA	20:IT:38:LYS:CE	2.43	0.48
20:IT:84:LEU:HA	20:IT:87:LYS:HD2	1.93	0.48
51:J5:30:ARG:O	51:J5:31:HIS:HB2	2.12	0.48
22:JB:1148:G:H4'	31:JK:133:GLY:N	2.18	0.48
22:JB:2321:C:O2	22:JB:2353:G:H4'	2.12	0.48
22:JB:2807:U:C5	22:JB:2859:U:H5''	2.48	0.48
22:JB:2811:G:H2'	22:JB:2812:A:C8	2.48	0.48
22:JB:3153:G:H2'	22:JB:3154:G:C8	2.48	0.48
22:JB:3164:C:OP1	53:J7:102:LYS:HD3	2.13	0.48
22:JB:42:G:H2'	22:JB:43:A:O4'	2.13	0.48
22:JB:646:C:P	33:JM:127:ALA:CB	2.68	0.48
22:JB:760:U:H6	40:JT:111:ARG:HB3	1.61	0.48
22:JB:2786:G:H5''	25:JE:59:VAL:HG13	1.95	0.48
26:JF:87:LYS:HE2	26:JF:88:PRO:HD2	1.95	0.48
33:JM:140:VAL:CG1	33:JM:141:VAL:H	2.21	0.48
22:JB:1217:U:C1'	33:JM:14:LYS:HE3	2.42	0.48
37:JQ:12:LEU:HA	37:JQ:16:ILE:CG1	2.44	0.48
37:JQ:44:ARG:NH2	37:JQ:47:SER:HB2	2.28	0.48
22:JB:2239:C:H3'	44:JX:14:ARG:HH21	1.77	0.48
44:JX:4:LYS:HE3	44:JX:11:LYS:HG2	1.96	0.48
45:JY:39:GLN:N	45:JY:40:PRO:HD3	2.29	0.48
1:AA:988:G:H21	1:AA:1015:A:H2	1.62	0.48
1:AA:1298:C:H42	7:AG:115:ARG:CD	2.25	0.48
1:AA:1308:U:OP1	13:AM:110:ARG:HD3	2.12	0.48
1:AA:1408:A:H1'	1:AA:1494:G:N2	2.28	0.48
1:AA:529:G:H2'	12:AL:48:PRO:CB	2.44	0.48
1:AA:740:U:O4'	15:AO:42:HIS:CG	2.63	0.48
2:AB:155:LEU:HD22	2:AB:157:ARG:H	1.78	0.48
2:AB:152:PHE:HZ	2:AB:159:PRO:HD3	1.77	0.48
3:AC:53:ALA:HA	3:AC:114:PRO:HB2	1.96	0.48
3:AC:125:GLU:HB3	3:AC:126:ARG:HD2	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AC:133:ALA:CA	3:AC:136:GLN:HB2	2.43	0.48
4:AD:61:LYS:HZ1	4:AD:62:GLN:CA	2.26	0.48
1:AA:400:C:H5''	4:AD:73:ARG:NH2	2.28	0.48
5:AE:18:ARG:NH1	5:AE:27:ARG:HG3	2.28	0.48
6:AF:19:LEU:HD21	6:AF:59:TYR:CE2	2.48	0.48
7:AG:46:ALA:O	7:AG:49:ILE:HB	2.13	0.48
10:AJ:28:ARG:HG2	10:AJ:34:VAL:HG21	1.94	0.48
12:AL:41:ARG:HD2	12:AL:42:THR:O	2.13	0.48
13:AM:91:ARG:HB3	13:AM:96:LEU:O	2.14	0.48
18:AR:73:ALA:HB1	18:AR:78:LEU:HB3	1.96	0.48
22:BB:2860:C:C1'	48:B2:34:PRO:HB3	2.26	0.48
49:B3:11:LYS:HB2	49:B3:11:LYS:NZ	2.26	0.48
51:B5:50:LEU:HD23	51:B5:52:LYS:HZ2	1.78	0.48
53:B7:85:ILE:HG13	53:B7:90:LEU:HD13	1.93	0.48
23:BA:92:G:O6	34:BN:39:GLU:HG2	2.13	0.48
22:BB:1128:G:N2	22:BB:1129:A:H1'	2.28	0.48
22:BB:116:A:H2'	22:BB:118:U:C5	2.45	0.48
22:BB:1685:A:H2'	22:BB:1687:C:N4	2.28	0.48
22:BB:1773:C:H3'	22:BB:1773:C:OP1	2.13	0.48
22:BB:1775:A:H5''	22:BB:1776:A:OP1	2.14	0.48
22:BB:1782:A:O2'	24:BD:205:VAL:HG23	2.14	0.48
22:BB:1790:G:H4'	22:BB:1791:C:C5	2.47	0.48
22:BB:2242:C:H2'	22:BB:2243:C:C6	2.49	0.48
22:BB:2286:G:H1'	22:BB:2290:A:H61	1.77	0.48
22:BB:2331:A:H2'	22:BB:2332:G:O4'	2.13	0.48
22:BB:2561:G:H2'	22:BB:2561:G:N3	2.28	0.48
22:BB:2799:C:H2'	22:BB:2800:C:H5'	1.95	0.48
22:BB:2807:U:C5	22:BB:2859:U:H5''	2.48	0.48
22:BB:3867:G:H2'	22:BB:3868:U:O4'	2.12	0.48
22:BB:395:G:H2'	22:BB:396:U:O4'	2.13	0.48
22:BB:57:G:H2'	22:BB:72:A:C6	2.44	0.48
22:BB:588:G:H8	22:BB:2000:U:N3	2.11	0.48
22:BB:58:C:H3'	22:BB:59:G:H5''	1.95	0.48
22:BB:831:G:H4'	22:BB:851:C:H4'	1.95	0.48
24:BD:243:GLY:N	24:BD:244:ARG:HH21	2.11	0.48
22:BB:1674:C:P	25:BE:134:TRP:CD1	3.03	0.48
25:BE:23:VAL:CG2	25:BE:186:GLY:H	2.26	0.48
28:BH:152:ARG:HH12	28:BH:161:GLY:HA3	1.78	0.48
22:BB:887:G:O4'	43:BW:167:THR:O	2.30	0.48
45:BY:56:VAL:HG23	45:BY:56:VAL:O	2.14	0.48
46:BZ:10:ILE:HG22	46:BZ:11:GLY:N	2.28	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:1059:C:C5'	14:CN:45:ARG:NH2	2.68	0.48
1:CA:1480:G:O2'	1:CA:1481:U:H5'	2.13	0.48
1:CA:225:C:C5	1:CA:226:G:H1'	2.47	0.48
1:CA:273:A:H1'	17:CQ:16:GLN:HG2	1.95	0.48
1:CA:32:A:H2'	1:CA:33:A:C8	2.47	0.48
1:CA:543:C:OP1	4:CD:10:ARG:CZ	2.61	0.48
1:CA:687:A:H4'	1:CA:688:G:O5'	2.14	0.48
1:CA:8:A:H3'	5:CE:121:LYS:HD2	1.94	0.48
1:CA:1108:G:H5''	3:CC:176:HIS:HB2	1.94	0.48
4:CD:101:LEU:HB3	4:CD:136:PRO:O	2.14	0.48
1:CA:1081:G:H8	5:CE:18:ARG:HE	1.47	0.48
5:CE:99:GLY:HA2	5:CE:116:THR:OG1	2.12	0.48
6:CF:75:LEU:O	6:CF:78:GLU:HB3	2.13	0.48
1:CA:644:G:P	8:CH:31:PHE:HZ	2.31	0.48
1:CA:520:A:H3'	12:CL:53:ARG:NE	2.28	0.48
16:CP:67:THR:H	16:CP:70:ALA:HB3	1.79	0.48
17:CQ:10:VAL:HB	17:CQ:55:ASP:HB2	1.95	0.48
47:D1:41:PRO:HA	47:D1:58:LYS:NZ	2.28	0.48
49:D3:35:LEU:HD21	49:D3:37:LEU:HD13	1.93	0.48
23:DA:77:G:C1'	43:DW:29:ASN:CG	2.81	0.48
23:DA:92:G:C4	34:DN:21:ASP:CB	2.96	0.48
22:DB:1029:C:H3'	22:DB:1030:U:C5'	2.43	0.48
22:DB:1042:G:C4'	52:D6:6:SER:CA	2.56	0.48
22:DB:1128:G:N2	22:DB:1129:A:H1'	2.28	0.48
22:DB:1759:A:H2'	22:DB:1760:G:C8	2.48	0.48
22:DB:1789:U:OP1	24:DD:257:LEU:HB2	2.13	0.48
22:DB:2303:C:H1'	22:DB:2316:G:H5''	1.93	0.48
22:DB:2331:A:H2'	22:DB:2332:G:O4'	2.13	0.48
22:DB:2811:G:H2'	22:DB:2812:A:C8	2.48	0.48
22:DB:193:A:N1	22:DB:445:A:N1	2.61	0.48
22:DB:568:G:H2'	22:DB:569:C:C1'	2.43	0.48
22:DB:1884:A:C2	24:DD:244:ARG:CD	2.96	0.48
25:DE:13:GLN:H	25:DE:22:PRO:HG2	1.78	0.48
25:DE:23:VAL:CG2	25:DE:186:GLY:H	2.26	0.48
25:DE:7:THR:O	25:DE:26:VAL:HG22	2.13	0.48
26:DF:67:ALA:HB1	26:DF:69:HIS:ND1	2.27	0.48
26:DF:27:LEU:HD11	26:DF:99:VAL:HG12	1.95	0.48
28:DH:157:TYR:O	28:DH:171:LEU:HB2	2.13	0.48
28:DH:98:LEU:HD23	28:DH:125:VAL:HG23	1.95	0.48
29:DI:4:ILE:HA	29:DI:15:GLY:HA2	1.96	0.48
31:DK:167:LYS:N	31:DK:167:LYS:HD3	2.29	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:DN:39:GLU:H	34:DN:99:LYS:HE2	1.78	0.48
22:DB:1290:A:O4'	35:DO:24:GLN:CG	2.60	0.48
37:DQ:110:LEU:HA	37:DQ:113:LYS:HG3	1.94	0.48
39:DS:23:GLU:HA	39:DS:93:ILE:CD1	2.43	0.48
22:DB:1274:C:OP1	40:DT:118:LYS:HE3	2.13	0.48
34:DN:68:ARG:NH2	43:DW:117:VAL:O	2.42	0.48
34:DN:99:LYS:CG	43:DW:73:LYS:HZ3	1.77	0.48
44:DX:46:LYS:HD2	44:DX:74:LYS:O	2.13	0.48
1:EA:1070:U:H2'	1:EA:1071:C:C6	2.48	0.48
1:EA:1100:C:O2'	1:EA:1101:A:H5'	2.14	0.48
1:EA:250:A:H4'	1:EA:251:G:O5'	2.14	0.48
1:EA:32:A:H2'	1:EA:33:A:C8	2.48	0.48
1:EA:373:A:H61	1:EA:482:A:H62	1.60	0.48
1:EA:586:C:C5'	8:EH:90:GLY:CA	2.81	0.48
1:EA:643:C:H2'	1:EA:644:G:C8	2.47	0.48
1:EA:990:C:H2'	1:EA:991:U:O4'	2.13	0.48
4:ED:99:SER:HB3	4:ED:140:VAL:HG11	1.94	0.48
5:EE:150:ARG:O	5:EE:150:ARG:HD3	2.13	0.48
1:EA:15:G:C4'	5:EE:24:ARG:HH22	2.26	0.48
1:EA:588:G:O3'	8:EH:5:PRO:CB	2.49	0.48
10:EJ:30:SER:CB	10:EJ:80:LYS:HB3	2.43	0.48
1:EA:1151:A:H4'	10:EJ:42:THR:N	2.21	0.48
10:EJ:6:ILE:HG22	10:EJ:7:LYS:H	1.79	0.48
48:F2:38:GLY:C	48:F2:39:LYS:HD2	2.33	0.48
49:F3:13:GLU:CD	49:F3:24:THR:HA	2.34	0.48
22:FB:116:A:OP1	50:F4:22:MET:CE	2.61	0.48
53:F7:67:VAL:HG21	53:F7:120:ALA:HB2	1.95	0.48
22:FB:1353:A:H2'	22:FB:1353:A:N3	2.28	0.48
22:FB:1552:C:H5''	22:FB:1554:G:N2	2.29	0.48
22:FB:1685:A:H2'	22:FB:1687:C:N4	2.28	0.48
22:FB:1880:G:H2'	22:FB:1881:U:C6	2.49	0.48
22:FB:2309:G:H2'	44:FX:71:ASN:ND2	2.28	0.48
22:FB:2364:C:H1'	44:FX:37:LEU:CD2	2.43	0.48
22:FB:2766:U:OP1	25:FE:67:PHE:HB2	2.11	0.48
22:FB:3123:G:O2'	53:F7:168:PHE:HE1	1.97	0.48
22:FB:395:G:H2'	22:FB:396:U:O4'	2.13	0.48
22:FB:592:G:H21	26:FF:78:VAL:CB	2.12	0.48
22:FB:5:A:C6	22:FB:2873:G:N1	2.81	0.48
22:FB:680:U:C5'	33:FM:48:PHE:CE1	2.96	0.48
24:FD:68:LYS:HE3	24:FD:144:ALA:HB1	1.94	0.48
24:FD:154:GLN:HB3	24:FD:155:LEU:HD23	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:FB:1584:G:O5'	24:FD:62:TYR:CZ	2.66	0.48
25:FE:107:THR:HA	25:FE:164:ARG:HH22	1.77	0.48
25:FE:7:THR:O	25:FE:26:VAL:HG22	2.13	0.48
22:FB:1142:G:C1'	31:FK:111:LYS:HZ1	2.27	0.48
31:FK:57:LEU:HD13	31:FK:60:SER:HB3	1.95	0.48
32:FL:20:MET:HB2	32:FL:56:LYS:HB2	1.94	0.48
33:FM:127:ALA:HA	33:FM:130:ILE:HG23	1.95	0.48
34:FN:27:TYR:CG	43:FW:73:LYS:HB2	2.38	0.48
22:FB:1992:G:C1'	35:FO:105:GLY:HA2	2.43	0.48
22:FB:1266:G:N2	38:FR:37:GLN:OE1	2.29	0.48
38:FR:37:GLN:HA	38:FR:40:LEU:HD23	1.95	0.48
40:FT:106:LEU:HA	40:FT:117:ILE:CD1	2.42	0.48
44:FX:32:LYS:CG	44:FX:33:ALA:H	2.26	0.48
45:FY:56:VAL:HG23	45:FY:56:VAL:O	2.14	0.48
46:FZ:2:LYS:O	46:FZ:3:ILE:HD13	2.13	0.48
1:GA:1275:A:C2	1:GA:1276:G:H1'	2.48	0.48
1:GA:1291:G:O3'	7:GG:41:ARG:NH1	2.46	0.48
1:GA:399:G:H2'	1:GA:400:C:O4'	2.14	0.48
1:GA:575:G:H4'	1:GA:576:G:C5'	2.41	0.48
2:GB:213:LEU:HD23	2:GB:213:LEU:O	2.13	0.48
2:GB:73:THR:HG21	2:GB:95:GLN:HA	1.96	0.48
2:GB:80:ILE:HA	2:GB:83:MET:HG2	1.96	0.48
3:GC:125:GLU:HB3	3:GC:126:ARG:HD2	1.96	0.48
5:GE:11:ILE:HG12	5:GE:31:LEU:O	2.13	0.48
9:GI:70:LYS:O	9:GI:74:ILE:HG13	2.12	0.48
10:GJ:9:ARG:N	10:GJ:94:VAL:HG13	2.23	0.48
13:GM:13:LYS:HD3	13:GM:17:VAL:HG11	1.94	0.48
13:GM:17:VAL:O	13:GM:21:TYR:HB2	2.13	0.48
18:GR:73:ALA:HB1	18:GR:78:LEU:HB3	1.96	0.48
22:HB:2861:A:C1'	48:H2:33:CYS:CA	2.53	0.48
22:HB:1135:C:O2'	52:H6:4:ARG:HG3	2.13	0.48
22:HB:1090:C:O2	30:HJ:132:ARG:CD	2.59	0.48
22:HB:1835:C:H2'	22:HB:1836:C:C6	2.48	0.48
22:HB:1908:C:O2	22:HB:1909:U:H1'	2.12	0.48
22:HB:2606:G:C4	22:HB:2757:G:N1	2.81	0.48
22:HB:2543:A:N6	22:HB:2625:U:H1'	2.23	0.48
22:HB:2747:C:C5'	31:HK:112:THR:CG2	2.90	0.48
22:HB:494:A:O4'	42:HV:56:LYS:HB3	1.82	0.48
22:HB:588:G:H5'	22:HB:2000:U:H2'	1.94	0.48
22:HB:863:C:H5'	46:HZ:18:LYS:HG2	1.96	0.48
22:HB:94:C:OP1	45:HY:40:PRO:CG	2.62	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:HB:1812:U:O2'	24:HD:203:ASN:ND2	2.47	0.48
22:HB:2057:U:OP1	24:HD:229:VAL:N	2.46	0.48
28:HH:123:PHE:HA	28:HH:133:VAL:HG13	1.94	0.48
28:HH:152:ARG:HH12	28:HH:161:GLY:HA3	1.78	0.48
28:HH:18:ASN:HB2	28:HH:23:VAL:O	2.13	0.48
31:HK:33:ILE:HG13	31:HK:35:LYS:H	1.77	0.48
32:HL:106:ARG:NE	32:HL:106:ARG:HA	2.28	0.48
22:HB:221:A:OP1	33:HM:67:ASN:ND2	2.45	0.48
34:HN:68:ARG:HD2	34:HN:101:GLY:HA3	1.95	0.48
37:HQ:12:LEU:HA	37:HQ:16:ILE:CG1	2.44	0.48
39:HS:32:LYS:HZ2	39:HS:96:LEU:HB2	1.78	0.48
39:HS:38:LEU:H	39:HS:38:LEU:HD23	1.78	0.48
22:HB:1235:C:OP1	39:HS:68:LYS:HA	2.14	0.48
22:HB:1338:G:N2	40:HT:106:LEU:HD23	2.28	0.48
22:HB:514:G:C6	40:HT:14:ARG:CG	2.90	0.48
22:HB:57:G:H5''	41:HU:75:ARG:HH12	1.77	0.48
43:HW:18:MET:N	43:HW:36:ARG:HH12	2.11	0.48
22:HB:110:U:H4'	45:HY:58:ALA:HB1	1.96	0.48
1:IA:1275:A:C2	1:IA:1276:G:H1'	2.48	0.48
1:IA:817:C:C2	1:IA:1527:C:H4'	2.44	0.48
1:IA:235:C:H2'	1:IA:236:G:H8	1.78	0.48
1:IA:363:A:H2	12:IL:31:PRO:CD	2.26	0.48
1:IA:800:G:HO2'	1:IA:801:U:H6	1.60	0.48
1:IA:807:A:H2'	1:IA:808:C:O4'	2.13	0.48
1:IA:968:A:C2'	9:II:128:ARG:CG	2.85	0.48
1:IA:971:G:N7	1:IA:1233:G:H1'	2.28	0.48
1:IA:988:G:H21	1:IA:1015:A:H2	1.62	0.48
2:IB:115:LEU:HD13	2:IB:145:LEU:HB2	1.96	0.48
5:IE:8:GLU:OE2	5:IE:34:VAL:HG22	2.12	0.48
8:IH:9:MET:HE1	8:IH:36:LEU:HD11	1.95	0.48
12:IL:19:ARG:HB2	12:IL:20:LYS:N	2.28	0.48
1:IA:363:A:C2	12:IL:31:PRO:CD	2.97	0.48
13:IM:53:VAL:HA	13:IM:56:LEU:HG	1.95	0.48
17:IQ:9:VAL:N	17:IQ:21:VAL:HG12	2.28	0.48
18:IR:73:ALA:HB1	18:IR:78:LEU:HB3	1.95	0.48
20:IT:83:ARG:O	20:IT:87:LYS:HG3	2.13	0.48
51:J5:54:GLU:HG2	51:J5:55:TRP:N	2.28	0.48
22:JB:1128:G:N2	22:JB:1129:A:H1'	2.28	0.48
22:JB:1140:A:H61	22:JB:2470:U:H5	1.60	0.48
22:JB:1004:A:C2	22:JB:1172:U:O2	2.65	0.48
22:JB:1183:C:N3	22:JB:1191:G:N1	2.61	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:JB:1908:C:O2	22:JB:1909:U:H1'	2.12	0.48
22:JB:2220:A:H2'	22:JB:2221:G:C8	2.48	0.48
22:JB:2261:G:O2'	49:J3:2:ALA:HA	2.13	0.48
22:JB:2303:C:H1'	22:JB:2316:G:H5''	1.94	0.48
22:JB:2338:C:N3	22:JB:2407:G:C6	2.79	0.48
22:JB:2225:G:N1	22:JB:2405:A:H1'	2.28	0.48
22:JB:3871:A:H2'	22:JB:3872:A:C8	2.48	0.48
22:JB:603:C:C5	22:JB:604:U:C4	3.02	0.48
22:JB:786:U:O2'	24:JD:49:ILE:HA	2.13	0.48
22:JB:2490:U:C1'	25:JE:124:GLY:O	2.60	0.48
22:JB:2764:U:C4'	25:JE:36:ARG:HH22	2.25	0.48
13:IM:72:ALA:HB2	27:JG:115:ARG:HH11	1.78	0.48
39:JS:36:LYS:HD3	39:JS:59:GLU:O	2.14	0.48
43:JW:47:SER:C	43:JW:49:THR:H	2.12	0.48
1:AA:1289:A:H2'	1:AA:1290:G:H5'	1.95	0.48
1:AA:19:C:P	5:AE:127:ASN:ND2	2.86	0.48
1:AA:225:C:C5	1:AA:226:G:H1'	2.47	0.48
1:AA:340:U:P	32:BL:109:ARG:CZ	3.01	0.48
2:AB:213:LEU:O	2:AB:213:LEU:HD23	2.14	0.48
6:AF:75:LEU:O	6:AF:78:GLU:HB3	2.13	0.48
12:AL:124:LYS:HG3	12:AL:125:PRO:HD2	1.96	0.48
13:AM:57:ARG:HG3	13:AM:61:GLU:OE2	2.12	0.48
15:AO:21:ASP:OD1	15:AO:24:SER:HB2	2.14	0.48
1:AA:274:A:C4'	17:AQ:15:MET:HG3	2.43	0.48
1:AA:836:G:OP1	18:AR:61:LYS:HE3	2.12	0.48
1:AA:1220:G:C2'	19:AS:53:ASN:O	2.57	0.48
49:B3:16:ALA:HB2	49:B3:50:PHE:CG	2.48	0.48
22:BB:419:G:H5'	53:B7:198:THR:HG23	1.93	0.48
23:BA:90:C:C2'	23:BA:91:A:H5'	2.44	0.48
22:BB:1135:C:C1'	52:B6:36:GLN:CB	2.92	0.48
22:BB:1353:A:H2'	22:BB:1353:A:N3	2.28	0.48
22:BB:1542:G:H2'	22:BB:1560:A:N6	2.26	0.48
22:BB:1685:A:H62	22:BB:1691:G:H1'	1.77	0.48
22:BB:1880:G:H2'	22:BB:1881:U:C6	2.49	0.48
22:BB:1908:C:O2	22:BB:1909:U:H1'	2.12	0.48
22:BB:2040:A:O2'	48:B2:6:VAL:CG2	2.56	0.48
22:BB:215:G:H1'	22:BB:618:A:O4'	2.13	0.48
22:BB:2860:C:HO2'	48:B2:34:PRO:C	2.12	0.48
22:BB:406:G:H2'	22:BB:407:A:O4'	2.14	0.48
22:BB:42:G:H2'	22:BB:43:A:O4'	2.13	0.48
22:BB:57:G:C2	22:BB:72:A:C6	3.01	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:BB:794:A:H1'	22:BB:1767:G:N2	2.28	0.48
22:BB:935:C:O2	44:BX:25:LYS:HE3	2.14	0.48
1:AA:712:A:C5'	24:BD:184:ARG:HH11	2.26	0.48
24:BD:27:LYS:HZ2	24:BD:27:LYS:HB3	1.78	0.48
24:BD:32:ALA:C	24:BD:33:LEU:HD13	2.34	0.48
25:BE:22:PRO:HD3	25:BE:185:LYS:HG3	1.96	0.48
27:BG:134:GLU:HG3	27:BG:150:ARG:N	2.28	0.48
28:BH:19:ALA:HB2	28:BH:44:ARG:HG3	1.95	0.48
22:BB:3093:C:H5''	29:BI:21:LYS:HD2	1.94	0.48
22:BB:1018:C:C1'	31:BK:134:MET:HA	2.43	0.48
32:BL:73:VAL:HG21	32:BL:99:ILE:HD12	1.94	0.48
33:BM:88:PHE:HA	33:BM:93:LEU:HD23	1.96	0.48
34:BN:9:LYS:N	34:BN:9:LYS:HD2	2.28	0.48
35:BO:112:LEU:HD13	35:BO:113:ILE:N	2.22	0.48
35:BO:5:LYS:HZ2	35:BO:6:ALA:HB2	1.78	0.48
35:BO:96:ARG:HD2	35:BO:96:ARG:H	1.78	0.48
22:BB:1007:A:H5''	38:BR:94:VAL:HG23	1.93	0.48
39:BS:38:LEU:HD23	39:BS:38:LEU:H	1.79	0.48
39:BS:69:ILE:HD11	39:BS:88:GLN:NE2	2.26	0.48
40:BT:73:ASN:HA	40:BT:76:LYS:HD3	1.93	0.48
43:BW:13:LYS:C	43:BW:14:LEU:HD22	2.34	0.48
1:CA:276:G:O2'	17:CQ:43:LEU:HD13	2.12	0.48
1:CA:421:U:H3'	1:CA:422:C:C6	2.48	0.48
1:CA:768:A:H5''	1:CA:804:U:H5''	1.94	0.48
3:CC:72:LYS:HB3	3:CC:75:VAL:HB	1.95	0.48
5:CE:89:ILE:HD13	5:CE:121:LYS:O	2.14	0.48
5:CE:18:ARG:NH1	5:CE:27:ARG:HG3	2.28	0.48
6:CF:99:ALA:HB2	18:CR:31:LEU:CD1	2.43	0.48
20:CT:84:LEU:HA	20:CT:87:LYS:HD2	1.93	0.48
48:D2:34:PRO:CG	48:D2:52:TYR:HA	2.41	0.48
49:D3:16:ALA:HB2	49:D3:50:PHE:CG	2.48	0.48
23:DA:84:G:H2'	23:DA:85:G:H8	1.77	0.48
22:DB:1413:U:H2'	22:DB:1414:G:C8	2.48	0.48
22:DB:1525:A:H5'	22:DB:1526:U:OP2	2.12	0.48
22:DB:1787:U:H2'	22:DB:1788:C:C6	2.48	0.48
22:DB:1791:C:H1'	22:DB:1793:A:O4'	2.13	0.48
22:DB:2349:G:H2'	22:DB:2350:G:C1'	2.44	0.48
22:DB:2772:U:N3	22:DB:2780:A:C6	2.68	0.48
22:DB:3867:G:H2'	22:DB:3868:U:O4'	2.12	0.48
22:DB:58:C:H3'	22:DB:59:G:H5''	1.95	0.48
22:DB:624:A:C5	26:DF:170:LEU:HD23	2.48	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:DB:794:A:H1'	22:DB:1767:G:N2	2.27	0.48
22:DB:946:U:O3'	22:DB:947:C:P	2.72	0.48
24:DD:106:LEU:HD22	24:DD:106:LEU:N	2.29	0.48
22:DB:1583:A:C2'	24:DD:84:TYR:CE1	2.75	0.48
27:DG:156:ILE:O	27:DG:156:ILE:HG23	2.13	0.48
28:DH:73:ALA:O	28:DH:77:LYS:HD2	2.14	0.48
34:DN:9:LYS:N	34:DN:9:LYS:HD2	2.28	0.48
23:DA:10:U:O2	36:DP:49:GLN:CB	2.61	0.48
37:DQ:44:ARG:NH2	37:DQ:47:SER:HB2	2.28	0.48
39:DS:36:LYS:HD3	39:DS:59:GLU:O	2.14	0.48
1:EA:1164:G:H2'	1:EA:1165:C:O4'	2.13	0.48
1:EA:1289:A:H2'	1:EA:1290:G:H5'	1.94	0.48
1:EA:1480:G:O2'	1:EA:1481:U:H5'	2.14	0.48
1:EA:391:G:C3'	16:EP:8:ARG:NH2	2.76	0.48
1:EA:421:U:H3'	1:EA:422:C:C6	2.48	0.48
2:EB:17:PHE:HB2	2:EB:41:ILE:HG21	1.96	0.48
1:EA:1055:A:O3'	3:EC:162:GLN:CA	2.54	0.48
3:EC:87:LEU:O	3:EC:91:LEU:HD22	2.13	0.48
1:EA:968:A:H2'	9:EI:128:ARG:CG	2.43	0.48
12:EL:41:ARG:HD2	12:EL:42:THR:O	2.13	0.48
12:EL:52:LEU:O	12:EL:53:ARG:HD2	2.12	0.48
13:EM:109:THR:HG23	13:EM:110:ARG:HD2	1.94	0.48
1:EA:1221:G:OP1	19:ES:36:ARG:HD3	2.13	0.48
20:ET:13:LEU:HD23	20:ET:16:HIS:HB3	1.96	0.48
20:ET:73:HIS:CG	20:ET:74:LYS:H	2.30	0.48
23:FA:44:C:O2'	27:FG:64:LYS:HG3	2.13	0.48
22:FB:1128:G:N2	22:FB:1129:A:H1'	2.28	0.48
22:FB:1165:G:P	38:FR:76:TYR:OH	2.71	0.48
22:FB:1685:A:H62	22:FB:1691:G:H1'	1.77	0.48
22:FB:1773:C:OP1	22:FB:1773:C:H3'	2.13	0.48
22:FB:1789:U:H5'	24:FD:257:LEU:HB3	1.95	0.48
22:FB:1790:G:H4'	22:FB:1791:C:C5	2.47	0.48
22:FB:2241:U:C5'	22:FB:2307:A:C2	2.94	0.48
22:FB:2258:G:C4	22:FB:2306:A:H1'	2.48	0.48
22:FB:10:A:N6	22:FB:2608:A:C1'	2.76	0.48
22:FB:1476:G:O2'	22:FB:2681:A:C2	2.49	0.48
22:FB:2690:A:H3'	22:FB:2694:G:H4'	1.94	0.48
22:FB:2708:U:O2'	25:FE:21:ILE:CG1	2.47	0.48
22:FB:2745:A:C4	22:FB:2746:G:N9	2.80	0.48
22:FB:2799:C:H2'	22:FB:2800:C:H5'	1.95	0.48
22:FB:455:A:N6	26:FF:35:LEU:HB2	2.28	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:FB:475:U:OP1	50:F4:4:THR:HG21	2.09	0.48
22:FB:923:A:C4	22:FB:2243:C:O2'	2.65	0.48
22:FB:2032:G:H1'	25:FE:156:MET:HE3	1.94	0.48
27:FG:136:LEU:HG	27:FG:138:PHE:CD2	2.33	0.48
27:FG:156:ILE:HG23	27:FG:156:ILE:O	2.13	0.48
30:FJ:96:VAL:O	30:FJ:136:VAL:HG12	2.13	0.48
31:FK:156:HIS:CB	31:FK:157:PRO:HD2	2.44	0.48
32:FL:46:HIS:HB2	32:FL:121:ARG:HH21	1.78	0.48
32:FL:83:ARG:H	32:FL:88:THR:HA	1.79	0.48
37:FQ:11:GLU:HG3	37:FQ:12:LEU:HD12	1.94	0.48
39:FS:20:ILE:CG2	39:FS:92:ALA:HB1	2.43	0.48
41:FU:62:ARG:HD3	41:FU:71:GLN:O	2.13	0.48
44:FX:46:LYS:HD2	44:FX:74:LYS:O	2.13	0.48
1:GA:1119:C:H2'	1:GA:1120:G:C8	2.46	0.48
1:GA:1187:G:C2	14:GN:61:TRP:HA	2.48	0.48
1:GA:807:A:H2'	1:GA:808:C:O4'	2.13	0.48
1:GA:813:U:O2'	1:GA:814:A:H5'	2.13	0.48
1:GA:988:G:H21	1:GA:1015:A:H2	1.62	0.48
3:GC:73:PRO:HB3	3:GC:105:GLU:OE1	2.13	0.48
3:GC:123:GLN:HA	3:GC:128:PHE:CD1	2.48	0.48
4:GD:101:LEU:HB3	4:GD:136:PRO:O	2.14	0.48
4:GD:61:LYS:HZ1	4:GD:62:GLN:CA	2.26	0.48
8:GH:48:TYR:HB3	8:GH:61:VAL:HA	1.96	0.48
10:GJ:46:ARG:HD3	10:GJ:64:GLU:HB3	1.95	0.48
11:GK:98:LEU:HB3	11:GK:99:GLN:H	1.56	0.48
17:GQ:3:LYS:O	17:GQ:5:VAL:HG23	2.14	0.48
1:GA:265:G:C2	17:GQ:64:PRO:CG	2.96	0.48
19:GS:15:LEU:HA	19:GS:18:LYS:HE3	1.94	0.48
48:H2:45:ILE:HD11	48:H2:52:TYR:CD2	2.45	0.48
53:H7:110:PHE:HE1	53:H7:133:LYS:HD3	1.78	0.48
22:HB:1019:U:C1'	38:HR:59:ARG:CZ	2.81	0.48
22:HB:1232:U:H2'	22:HB:1243:G:N1	2.21	0.48
22:HB:1284:G:O3'	22:HB:1285:A:H4'	2.14	0.48
22:HB:540:G:N7	22:HB:2019:C:OP1	2.46	0.48
22:HB:2241:U:H5''	22:HB:2307:A:N3	2.28	0.48
22:HB:2423:G:OP1	26:HF:62:LYS:HE3	2.13	0.48
22:HB:468:A:N1	22:HB:481:A:H5''	2.28	0.48
22:HB:561:U:O5'	22:HB:1233:A:C2	2.66	0.48
22:HB:750:C:H5'	22:HB:779:U:O2'	2.13	0.48
22:HB:861:G:O2'	22:HB:945:G:H5'	2.13	0.48
24:HD:132:PRO:O	24:HD:133:LEU:HD22	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:HE:117:MET:HE2	25:HE:118:LYS:HG2	1.96	0.48
31:HK:110:LEU:HG	31:HK:111:LYS:H	1.77	0.48
31:HK:116:ARG:HH22	31:HK:126:VAL:CG1	2.27	0.48
31:HK:84:ASN:O	31:HK:152:ALA:HA	2.13	0.48
32:HL:4:PRO:O	32:HL:22:ILE:HA	2.13	0.48
33:HM:60:LEU:HB2	33:HM:61:PRO:HD3	1.95	0.48
37:HQ:110:LEU:HA	37:HQ:113:LYS:HG3	1.94	0.48
37:HQ:63:ARG:NE	37:HQ:63:ARG:HA	2.27	0.48
37:HQ:80:VAL:HG23	37:HQ:111:ARG:NH2	2.26	0.48
34:HN:63:GLY:HA2	43:HW:112:LEU:HD22	1.95	0.48
1:IA:1117:G:H4'	9:II:104:ARG:CZ	2.41	0.48
1:IA:1391:U:C2'	1:IA:1531:A:H4'	2.44	0.48
1:IA:813:U:O2'	1:IA:814:A:H5'	2.13	0.48
1:IA:990:C:H2'	1:IA:991:U:O4'	2.13	0.48
2:IB:116:GLU:HG2	2:IB:153:ARG:HD3	1.96	0.48
3:IC:206:GLU:HG2	3:IC:207:VAL:HG23	1.94	0.48
4:ID:201:GLN:NE2	5:IE:116:THR:OG1	2.44	0.48
5:IE:141:GLN:HA	5:IE:143:ARG:NH2	2.29	0.48
1:IA:778:G:H2'	11:IK:120:ARG:HB3	1.94	0.48
20:IT:23:ARG:HE	20:IT:30:LYS:NZ	2.12	0.48
22:JB:2326:C:O2	49:J3:41:ASP:OD2	2.32	0.48
22:JB:1006:C:N4	31:JK:30:LYS:HE3	2.28	0.48
22:JB:114:C:H5'	22:JB:124:A:H4'	1.94	0.48
22:JB:1205:G:H2'	22:JB:1206:G:H8	1.78	0.48
22:JB:1232:U:H2'	22:JB:1243:G:N1	2.21	0.48
22:JB:2267:A:N3	22:JB:2267:A:H2'	2.28	0.48
22:JB:2343:C:O2'	44:JX:66:LYS:HD2	2.14	0.48
22:JB:2690:A:H3'	22:JB:2694:G:H4'	1.94	0.48
22:JB:3103:A:O2'	53:J7:201:ARG:CZ	2.61	0.48
22:JB:468:A:N1	22:JB:481:A:H5''	2.28	0.48
22:JB:533:C:C5'	22:JB:550:C:H1'	2.39	0.48
22:JB:717:G:H2'	22:JB:739:G:H22	1.77	0.48
22:JB:761:G:O6	40:JT:111:ARG:CZ	2.48	0.48
22:JB:750:C:H5'	22:JB:779:U:O2'	2.13	0.48
22:JB:884:C:H4'	34:JN:70:PHE:CD1	2.46	0.48
25:JE:22:PRO:HD3	25:JE:185:LYS:HG3	1.96	0.48
27:JG:72:LYS:HG2	27:JG:81:GLN:HE22	1.78	0.48
28:JH:98:LEU:HD23	28:JH:125:VAL:HG23	1.95	0.48
28:JH:9:ILE:HG13	28:JH:10:ALA:N	2.18	0.48
31:JK:128:GLU:HG2	31:JK:129:HIS:N	2.28	0.48
31:JK:42:VAL:HA	31:JK:166:LEU:HD23	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:JK:43:VAL:HG13	31:JK:81:VAL:HB	1.95	0.48
33:JM:60:LEU:HB2	33:JM:61:PRO:HD3	1.95	0.48
22:JB:1307:U:O2'	35:JO:23:ALA:HA	2.13	0.48
35:JO:68:GLN:NE2	35:JO:68:GLN:H	2.12	0.48
36:JP:104:ALA:HA	36:JP:107:ALA:HB2	1.96	0.48
38:JR:45:TYR:H	38:JR:45:TYR:HD1	1.59	0.48
39:JS:38:LEU:H	39:JS:38:LEU:HD23	1.79	0.48
22:JB:320:A:H4'	42:JV:30:LYS:HG3	1.91	0.48
44:JX:46:LYS:HD2	44:JX:74:LYS:O	2.13	0.48
45:JY:56:VAL:HG23	45:JY:56:VAL:O	2.14	0.48
1:AA:1100:C:O2'	1:AA:1101:A:H5'	2.14	0.48
1:AA:1439:C:H2'	1:AA:1440:C:C6	2.47	0.48
1:AA:1480:G:O2'	1:AA:1481:U:H5'	2.14	0.48
1:AA:32:A:H2'	1:AA:33:A:C8	2.47	0.48
1:AA:768:A:H5''	1:AA:804:U:H5''	1.95	0.48
1:AA:947:G:H2'	1:AA:948:C:O4'	2.14	0.48
1:AA:971:G:N7	1:AA:1233:G:H1'	2.28	0.48
1:AA:974:A:P	14:AN:31:ARG:O	2.72	0.48
2:AB:115:LEU:HG	2:AB:153:ARG:NH2	2.29	0.48
2:AB:178:ARG:HD3	2:AB:196:LEU:HD22	1.96	0.48
2:AB:73:THR:HG21	2:AB:95:GLN:HA	1.96	0.48
1:AA:412:A:C2	4:AD:30:LYS:O	2.66	0.48
7:AG:46:ALA:HB2	7:AG:120:ILE:HD13	1.96	0.48
1:AA:1344:C:O3'	9:AI:120:ARG:NE	2.46	0.48
10:AJ:30:SER:CB	10:AJ:80:LYS:HB3	2.43	0.48
13:AM:110:ARG:HH11	13:AM:110:ARG:HG2	1.78	0.48
13:AM:88:ARG:HB3	13:AM:98:VAL:HG21	1.96	0.48
14:AN:8:GLU:HA	14:AN:11:LYS:HD3	1.94	0.48
1:AA:761:G:O4'	17:AQ:103:GLY:CA	2.62	0.48
22:BB:2791:C:H5'	48:B2:43:HIS:O	2.13	0.48
22:BB:2860:C:H1'	48:B2:52:TYR:O	2.14	0.48
51:B5:54:GLU:HG2	51:B5:55:TRP:N	2.28	0.48
22:BB:1042:G:HO2'	52:B6:7:VAL:HG23	1.79	0.48
22:BB:1906:U:H2'	22:BB:1907:C:C6	2.46	0.48
22:BB:2048:C:H2'	22:BB:2049:C:C6	2.48	0.48
22:BB:2267:A:H2'	22:BB:2267:A:N3	2.28	0.48
22:BB:2309:G:H4'	44:BX:71:ASN:ND2	2.27	0.48
22:BB:2753:C:O2'	25:BE:163:GLU:CG	2.62	0.48
22:BB:2789:U:C4	48:B2:43:HIS:NE2	2.76	0.48
22:BB:2861:A:O4'	48:B2:34:PRO:CA	2.60	0.48
22:BB:1856:U:C2'	22:BB:3865:A:O5'	2.59	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:BB:468:A:N1	22:BB:481:A:H5''	2.28	0.48
22:BB:18:U:O2'	22:BB:563:U:OP1	2.26	0.48
22:BB:676:G:C2	22:BB:950:G:C4'	2.80	0.48
22:BB:828:C:O2'	22:BB:1177:U:P	2.71	0.48
22:BB:959:C:H2'	22:BB:960:U:C6	2.48	0.48
22:BB:1673:C:C5'	25:BE:136:ARG:CG	2.45	0.48
28:BH:73:ALA:O	28:BH:77:LYS:HD2	2.14	0.48
30:BJ:100:ASN:HB3	30:BJ:103:GLN:HB3	1.94	0.48
31:BK:110:LEU:HG	31:BK:111:LYS:H	1.78	0.48
31:BK:43:VAL:HG13	31:BK:81:VAL:HB	1.95	0.48
32:BL:112:GLY:HA2	37:BQ:75:GLU:HG2	1.95	0.48
33:BM:122:VAL:HG13	33:BM:123:ASP:N	2.28	0.48
34:BN:98:VAL:CG2	34:BN:99:LYS:HG2	2.29	0.48
38:BR:28:ARG:CD	38:BR:34:ASN:HB3	2.44	0.48
39:BS:62:GLU:HB2	39:BS:97:GLY:H	1.79	0.48
43:BW:95:SER:N	43:BW:130:ILE:HD13	2.24	0.48
22:BB:868:U:O2'	44:BX:57:HIS:CG	2.66	0.48
45:BY:39:GLN:N	45:BY:40:PRO:HD3	2.29	0.48
1:CA:275:G:O2'	17:CQ:18:THR:HG22	1.98	0.48
1:CA:564:C:C6	17:CQ:32:TYR:OH	2.59	0.48
1:CA:947:G:H2'	1:CA:948:C:O4'	2.14	0.48
1:CA:971:G:N7	1:CA:1233:G:H1'	2.28	0.48
2:CB:104:ASN:HD22	2:CB:108:ILE:HD11	1.78	0.48
1:CA:1320:C:H4'	19:CS:3:ARG:NH1	2.27	0.48
20:CT:23:ARG:HE	20:CT:30:LYS:NZ	2.12	0.48
47:D1:10:VAL:H	47:D1:11:PRO:HD3	1.79	0.48
47:D1:12:CYS:O	47:D1:13:LYS:HG2	2.13	0.48
53:D7:67:VAL:HG21	53:D7:120:ALA:HB2	1.95	0.48
23:DA:92:G:H2'	23:DA:93:G:H5'	1.95	0.48
22:DB:930:A:HO2'	23:DA:99:G:N2	2.07	0.48
22:DB:1001:A:N3	22:DB:1167:A:H2'	2.29	0.48
22:DB:1234:C:H2'	22:DB:1235:C:C6	2.47	0.48
22:DB:1353:A:N3	22:DB:1353:A:H2'	2.28	0.48
22:DB:1552:C:H5''	22:DB:1554:G:N2	2.29	0.48
22:DB:176:A:C4	47:D1:30:GLU:CG	2.96	0.48
22:DB:1908:C:O2	22:DB:1909:U:H1'	2.12	0.48
22:DB:2613:A:H2'	22:DB:2614:A:C8	2.47	0.48
22:DB:2679:G:C2'	22:DB:2680:U:H5''	2.44	0.48
22:DB:468:A:N1	22:DB:481:A:H5''	2.28	0.48
22:DB:529:U:H5''	40:DT:39:ARG:NH2	2.21	0.48
22:DB:815:A:H2'	22:DB:816:U:N1	2.27	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:DB:831:G:H4'	22:DB:851:C:H4'	1.95	0.48
24:DD:102:LYS:O	24:DD:103:ARG:HB2	2.14	0.48
22:DB:2558:C:C4'	25:DE:133:LYS:NZ	2.76	0.48
25:DE:1:MET:N	25:DE:200:SER:HB2	2.29	0.48
26:DF:5:ASN:OD1	26:DF:117:LEU:HB2	2.14	0.48
26:DF:146:GLU:HG2	26:DF:185:ARG:HD2	1.95	0.48
27:DG:134:GLU:HG3	27:DG:150:ARG:N	2.28	0.48
28:DH:103:LEU:HD22	28:DH:123:PHE:CE2	2.49	0.48
28:DH:160:LYS:HZ2	28:DH:160:LYS:N	2.12	0.48
30:DJ:48:LYS:HB3	30:DJ:48:LYS:NZ	2.28	0.48
31:DK:30:LYS:HZ3	31:DK:30:LYS:HB3	1.79	0.48
32:DL:83:ARG:H	32:DL:88:THR:HA	1.79	0.48
33:DM:88:PHE:HA	33:DM:93:LEU:HD23	1.96	0.48
33:DM:95:ALA:HB2	33:DM:100:ARG:CB	2.42	0.48
34:DN:35:LEU:HA	34:DN:128:ILE:O	2.13	0.48
43:DW:95:SER:N	43:DW:130:ILE:HD13	2.24	0.48
1:EA:988:G:H21	1:EA:1015:A:H2	1.62	0.48
1:EA:655:A:N6	1:EA:752:G:N2	2.61	0.48
8:EH:110:ALA:HB2	8:EH:136:GLU:HA	1.95	0.48
9:EI:11:LYS:HA	9:EI:104:ARG:NH2	2.25	0.48
13:EM:6:GLY:O	13:EM:8:GLU:HG2	2.14	0.48
20:ET:56:MET:SD	20:ET:57:ARG:HG3	2.53	0.48
20:ET:83:ARG:O	20:ET:87:LYS:HG3	2.14	0.48
47:F1:12:CYS:O	47:F1:13:LYS:HG2	2.13	0.48
22:FB:2040:A:C2	48:F2:2:ALA:C	2.86	0.48
22:FB:2324:G:C4'	49:F3:40:TYR:CD1	2.96	0.48
22:FB:2351:G:C4'	49:F3:47:HIS:NE2	2.74	0.48
53:F7:111:LEU:HD13	53:F7:148:ILE:HA	1.96	0.48
53:F7:174:MSE:C	53:F7:175:LYS:HD2	2.33	0.48
53:F7:64:VAL:HG23	53:F7:152:LYS:HG2	1.96	0.48
23:FA:78:A:OP1	43:FW:9:THR:HA	2.13	0.48
22:FB:1072:U:N3	30:FJ:10:LEU:CA	2.71	0.48
22:FB:1323:G:H5''	22:FB:1324:G:OP2	2.13	0.48
22:FB:1351:G:H2'	22:FB:1352:G:H8	1.78	0.48
22:FB:1413:U:H2'	22:FB:1414:G:C8	2.48	0.48
22:FB:1791:C:H1'	22:FB:1793:A:O4'	2.13	0.48
22:FB:2303:C:H1'	22:FB:2316:G:H5''	1.93	0.48
22:FB:2343:C:H2'	22:FB:2344:G:O4'	2.13	0.48
22:FB:425:A:N6	22:FB:2391:A:O4'	2.46	0.48
22:FB:2590:U:OP1	25:FE:132:LYS:NZ	2.35	0.48
22:FB:2005:U:O2'	22:FB:2596:C:H4'	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:FB:2715:C:H42	22:FB:2749:A:H61	1.60	0.48
22:FB:309:G:N7	42:FV:13:LYS:HE3	2.28	0.48
22:FB:533:C:C4'	22:FB:550:C:H1'	2.41	0.48
22:FB:59:G:N7	22:FB:73:A:N1	2.60	0.48
22:FB:831:G:H4'	22:FB:851:C:H4'	1.95	0.48
22:FB:959:C:H2'	22:FB:960:U:C6	2.48	0.48
24:FD:106:LEU:HD22	24:FD:106:LEU:N	2.29	0.48
25:FE:4:ILE:HD12	25:FE:197:VAL:HG13	1.95	0.48
26:FF:138:LYS:C	26:FF:140:ASN:H	2.17	0.48
27:FG:37:ASN:HA	27:FG:87:ILE:HD13	1.94	0.48
22:FB:2646:C:C2'	28:FH:109:TYR:CE1	2.78	0.48
31:FK:167:LYS:N	31:FK:167:LYS:HD3	2.29	0.48
37:FQ:12:LEU:HA	37:FQ:16:ILE:CG1	2.44	0.48
39:FS:36:LYS:HD3	39:FS:59:GLU:O	2.13	0.48
1:GA:925:G:N2	1:GA:1502:A:H4'	2.29	0.48
1:GA:153:C:H2'	1:GA:154:C:C6	2.49	0.48
1:GA:235:C:H2'	1:GA:236:G:H8	1.78	0.48
1:GA:339:C:N3	1:GA:350:G:N1	2.61	0.48
1:GA:580:U:O3'	15:GO:57:LEU:CD2	2.56	0.48
1:GA:687:A:H4'	1:GA:688:G:O5'	2.14	0.48
1:GA:922:G:H4'	5:GE:20:GLN:HA	1.94	0.48
2:GB:175:ARG:O	2:GB:179:LYS:HB2	2.14	0.48
3:GC:206:GLU:HG2	3:GC:207:VAL:HG23	1.95	0.48
5:GE:76:ILE:O	5:GE:93:PRO:HB3	2.12	0.48
6:GF:75:LEU:O	6:GF:78:GLU:HB3	2.13	0.48
8:GH:85:ARG:CZ	8:GH:89:PRO:HD3	2.44	0.48
10:GJ:51:ARG:HA	14:GN:45:ARG:NH2	2.12	0.48
13:GM:53:VAL:HA	13:GM:56:LEU:HG	1.96	0.48
1:GA:193:C:P	20:GT:57:ARG:HG2	2.54	0.48
20:GT:88:VAL:HG21	20:GT:92:LEU:HD12	1.96	0.48
22:HB:2591:C:C2'	48:H2:3:LYS:C	2.76	0.48
22:HB:699:G:C2'	50:H4:5:TYR:HA	2.43	0.48
22:HB:1183:C:N3	22:HB:1191:G:N1	2.61	0.48
22:HB:1351:G:H2'	22:HB:1352:G:H8	1.79	0.48
22:HB:1498:G:N3	22:HB:1526:U:N3	2.61	0.48
22:HB:1552:C:H5''	22:HB:1554:G:N2	2.29	0.48
22:HB:1685:A:H62	22:HB:1691:G:H1'	1.77	0.48
22:HB:1774:A:H2'	22:HB:2586:G:H21	1.79	0.48
22:HB:1879:G:H2'	22:HB:1880:G:H8	1.77	0.48
1:GA:1483:A:N6	22:HB:1942:G:HO2'	1.94	0.48
22:HB:1685:A:H2	22:HB:1976:U:H1'	1.79	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:HB:203:G:O3'	22:HB:234:C:H4'	2.13	0.48
22:HB:2615:U:OP1	25:HE:79:ARG:HG3	2.14	0.48
22:HB:3153:G:H2'	22:HB:3154:G:C8	2.48	0.48
22:HB:634:G:O6	33:HM:98:LEU:HD11	2.14	0.48
22:HB:795:A:O2'	24:HD:226:MET:HE2	2.12	0.48
22:HB:841:G:H2'	22:HB:841:G:N3	2.28	0.48
24:HD:243:GLY:N	24:HD:244:ARG:HH21	2.11	0.48
22:HB:1816:G:C4'	24:HD:247:VAL:HG21	2.41	0.48
25:HE:1:MET:N	25:HE:200:SER:HB2	2.29	0.48
22:HB:811:G:H8	26:HF:56:ARG:NH2	1.95	0.48
28:HH:19:ALA:HB2	28:HH:44:ARG:HG3	1.95	0.48
38:HR:28:ARG:CD	38:HR:34:ASN:HB3	2.44	0.48
38:HR:37:GLN:HA	38:HR:40:LEU:HD23	1.96	0.48
40:HT:27:VAL:HG23	40:HT:124:ILE:HG22	1.94	0.48
45:HY:39:GLN:N	45:HY:40:PRO:HD3	2.29	0.48
1:IA:1119:C:H2'	1:IA:1120:G:C8	2.46	0.48
1:IA:18:C:H4'	5:IE:130:ASN:ND2	2.29	0.48
1:IA:271:C:H2'	1:IA:272:C:C6	2.49	0.48
1:IA:767:A:H2'	1:IA:768:A:O4'	2.14	0.48
1:IA:932:C:H4'	7:IG:4:ARG:CD	2.32	0.48
1:IA:965:A:H1'	1:IA:969:A:C8	2.48	0.48
2:IB:213:LEU:O	2:IB:213:LEU:HD23	2.13	0.48
3:IC:40:ARG:HG3	3:IC:40:ARG:HH11	1.77	0.48
4:ID:77:ASN:HA	4:ID:80:GLU:HG2	1.96	0.48
5:IE:18:ARG:NH1	5:IE:27:ARG:HG3	2.28	0.48
6:IF:19:LEU:HD21	6:IF:59:TYR:CE2	2.48	0.48
6:IF:72:VAL:C	6:IF:74:ASP:H	2.16	0.48
6:IF:75:LEU:O	6:IF:78:GLU:HB3	2.13	0.48
1:IA:1373:G:H5''	7:IG:36:LYS:CA	2.44	0.48
7:IG:49:ILE:HD13	7:IG:121:ALA:N	2.28	0.48
8:IH:26:VAL:O	8:IH:59:LEU:HD12	2.14	0.48
1:IA:1186:G:H5'	9:II:110:GLU:OE1	2.13	0.48
1:IA:777:A:C2	11:IK:119:CYS:HA	2.36	0.48
11:IK:43:SER:OG	11:IK:67:ASP:HB2	2.13	0.48
17:IQ:10:VAL:HB	17:IQ:55:ASP:HB2	1.95	0.48
1:IA:128:G:C5'	17:IQ:61:GLU:CG	2.85	0.48
48:J2:19:ARG:HA	48:J2:19:ARG:HH11	1.79	0.48
53:J7:110:PHE:HE1	53:J7:133:LYS:HD3	1.79	0.48
22:JB:3175:C:O4'	53:J7:31:GLU:OE1	2.21	0.48
22:JB:1088:A:O2'	22:JB:1089:C:H5'	2.13	0.48
22:JB:1174:G:C1'	39:JS:90:PHE:N	2.46	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:JB:1284:G:O3'	22:JB:1285:A:H4'	2.14	0.48
22:JB:1353:A:N3	22:JB:1353:A:H2'	2.28	0.48
22:JB:1685:A:H62	22:JB:1691:G:H1'	1.77	0.48
22:JB:1775:A:H5''	22:JB:1776:A:OP1	2.13	0.48
22:JB:1791:C:H1'	22:JB:1793:A:O4'	2.13	0.48
22:JB:1826:U:O4'	22:JB:1952:A:C2	2.67	0.48
22:JB:1835:C:H2'	22:JB:1836:C:C6	2.48	0.48
22:JB:588:G:H5'	22:JB:2000:U:H2'	1.95	0.48
22:JB:2207:G:H2'	22:JB:2208:U:C6	2.48	0.48
22:JB:2614:A:H5'	25:JE:77:ILE:CD1	2.44	0.48
22:JB:2732:C:H2'	22:JB:2733:A:O4'	2.14	0.48
22:JB:2861:A:N3	48:J2:31:THR:OG1	2.36	0.48
22:JB:3122:U:O2'	53:J7:158:LYS:CD	2.54	0.48
22:JB:3867:G:H2'	22:JB:3868:U:O4'	2.13	0.48
22:JB:609:U:O2	26:JF:96:PRO:HG2	2.14	0.48
22:JB:845:U:C2'	33:JM:53:ARG:NH2	2.77	0.48
22:JB:846:A:H5''	33:JM:52:GLY:C	2.34	0.48
22:JB:861:G:O2'	22:JB:945:G:H5'	2.13	0.48
22:JB:1781:C:C1'	24:JD:209:ALA:HB2	2.44	0.48
22:JB:2187:A:P	24:JD:70:ARG:CD	2.99	0.48
25:JE:143:GLN:HB2	25:JE:144:ARG:HE	1.79	0.48
22:JB:2763:U:HO2'	25:JE:41:THR:HG22	1.77	0.48
29:JI:5:LEU:HD11	29:JI:7:GLU:O	2.14	0.48
30:JJ:48:LYS:NZ	30:JJ:48:LYS:HB3	2.28	0.48
30:JJ:31:GLY:O	30:JJ:59:ILE:HG23	2.13	0.48
32:JL:46:HIS:HB2	32:JL:121:ARG:HH21	1.78	0.48
33:JM:122:VAL:HG13	33:JM:123:ASP:N	2.28	0.48
22:JB:631:G:H2'	33:JM:95:ALA:C	2.34	0.48
34:JN:35:LEU:HA	34:JN:128:ILE:O	2.13	0.48
37:JQ:94:VAL:HG12	37:JQ:95:GLU:N	2.28	0.48
38:JR:28:ARG:CD	38:JR:34:ASN:HB3	2.44	0.48
22:JB:1172:U:C3'	39:JS:22:VAL:HG13	2.36	0.48
22:JB:1996:A:C5'	40:JT:117:ILE:CG2	2.92	0.48
22:JB:508:G:H22	42:JV:56:LYS:HG2	1.72	0.48
45:JY:55:THR:O	45:JY:56:VAL:C	2.50	0.48
46:JZ:4:LYS:CD	46:JZ:5:LEU:H	2.19	0.48
1:AA:1172:C:H2'	1:AA:1173:G:C8	2.47	0.48
1:AA:975:A:H1'	1:AA:1358:U:H4'	1.95	0.48
1:AA:1504:G:H3'	1:AA:1504:G:OP2	2.14	0.48
1:AA:440:A:H62	1:AA:494:G:H21	1.60	0.48
1:AA:575:G:H4'	1:AA:576:G:C5'	2.41	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:921:U:H2'	1:AA:922:G:C8	2.49	0.48
3:AC:72:LYS:HB3	3:AC:75:VAL:HB	1.95	0.48
4:AD:77:ASN:HA	4:AD:80:GLU:HG2	1.96	0.48
5:AE:149:GLU:OE2	5:AE:152:ARG:HD3	2.14	0.48
18:AR:54:ARG:N	18:AR:54:ARG:HD3	2.27	0.48
13:AM:99:ARG:HH21	19:AS:2:PRO:CB	2.26	0.48
53:B7:174:MSE:C	53:B7:175:LYS:HD2	2.33	0.48
23:BA:85:G:H5'	46:BZ:12:ARG:HH22	1.78	0.48
22:BB:1166:A:N1	22:BB:1168:G:C1'	2.76	0.48
22:BB:1351:G:H2'	22:BB:1352:G:H8	1.78	0.48
22:BB:2343:C:H2'	22:BB:2344:G:O4'	2.14	0.48
22:BB:2493:U:O2'	25:BE:151:TYR:OH	2.28	0.48
22:BB:2690:A:H3'	22:BB:2694:G:H4'	1.94	0.48
22:BB:51:A:H1'	22:BB:155:G:C2	2.48	0.48
22:BB:796:A:H2'	22:BB:797:A:O3'	2.13	0.48
22:BB:809:C:H2'	22:BB:810:U:C6	2.49	0.48
22:BB:981:C:H1'	22:BB:995:A:O2'	2.14	0.48
24:BD:106:LEU:HD22	24:BD:106:LEU:N	2.29	0.48
29:BI:6:LEU:O	29:BI:6:LEU:HD23	2.13	0.48
32:BL:116:ARG:HA	32:BL:116:ARG:NE	2.28	0.48
37:BQ:12:LEU:HA	37:BQ:16:ILE:CG1	2.44	0.48
25:BE:181:LEU:HD21	37:BQ:12:LEU:HD11	1.91	0.48
37:BQ:44:ARG:NH2	37:BQ:47:SER:HB2	2.28	0.48
37:BQ:94:VAL:HG12	37:BQ:95:GLU:N	2.28	0.48
38:BR:24:PHE:HB3	38:BR:28:ARG:HE	1.75	0.48
45:BY:49:GLU:OE1	45:BY:50:VAL:HG23	2.14	0.48
1:CA:1289:A:H2'	1:CA:1290:G:H5'	1.95	0.48
1:CA:520:A:C3'	12:CL:52:LEU:O	2.61	0.48
1:CA:575:G:H4'	1:CA:576:G:C5'	2.41	0.48
2:CB:73:THR:HG21	2:CB:95:GLN:HA	1.96	0.48
3:CC:133:ALA:CA	3:CC:136:GLN:HB2	2.43	0.48
7:CG:15:ASP:HB3	7:CG:20:ASP:H	1.78	0.48
1:CA:689:C:C4'	11:CK:51:LYS:NZ	2.76	0.48
1:CA:1307:U:C3'	13:CM:109:THR:CG2	2.88	0.48
13:CM:87:TYR:HA	13:CM:90:LEU:CG	2.28	0.48
1:CA:974:A:H2	14:CN:31:ARG:HB2	1.79	0.48
53:D7:111:LEU:HD13	53:D7:148:ILE:HA	1.96	0.48
22:DB:1351:G:H2'	22:DB:1352:G:H8	1.78	0.48
22:DB:1685:A:H62	22:DB:1691:G:H1'	1.77	0.48
22:DB:1775:A:H5''	22:DB:1776:A:OP1	2.14	0.48
22:DB:1806:G:H3'	22:DB:1807:A:H8	1.79	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:DB:2035:G:N2	22:DB:2036:G:H1'	2.28	0.48
22:DB:42:G:H2'	22:DB:43:A:O4'	2.13	0.48
22:DB:588:G:H8	22:DB:2000:U:N3	2.11	0.48
22:DB:66:U:N3	22:DB:87:G:C2	2.82	0.48
22:DB:77:C:H2'	22:DB:78:C:C6	2.47	0.48
22:DB:796:A:H2'	22:DB:797:A:O3'	2.13	0.48
22:DB:959:C:H2'	22:DB:960:U:C6	2.49	0.48
24:DD:11:PRO:O	24:DD:13:ARG:N	2.46	0.48
25:DE:143:GLN:HB2	25:DE:144:ARG:HE	1.78	0.48
26:DF:138:LYS:C	26:DF:140:ASN:H	2.17	0.48
26:DF:94:THR:O	26:DF:95:LEU:HB3	2.13	0.48
31:DK:33:ILE:HG13	31:DK:35:LYS:H	1.77	0.48
31:DK:67:ARG:HA	31:DK:70:PHE:CD2	2.48	0.48
32:DL:8:LEU:HD12	32:DL:19:ILE:HD11	1.95	0.48
35:DO:103:ARG:HH11	35:DO:108:VAL:HG11	1.79	0.48
22:DB:1290:A:H4'	35:DO:24:GLN:HG3	1.94	0.48
22:DB:1193:G:P	39:DS:25:LEU:HG	2.34	0.48
42:DV:18:LYS:HB3	42:DV:18:LYS:NZ	2.29	0.48
34:DN:107:VAL:HG22	43:DW:113:VAL:HG21	1.95	0.48
22:DB:886:A:H2	43:DW:166:LEU:CA	2.04	0.48
1:EA:1504:G:H3'	1:EA:1504:G:OP2	2.14	0.48
1:EA:206:C:H2'	1:EA:207:C:H5'	1.96	0.48
1:EA:575:G:H4'	1:EA:576:G:C5'	2.42	0.48
1:EA:590:C:H3'	8:EH:30:ARG:CG	2.43	0.48
1:EA:673:G:H5''	6:EF:87:ARG:HE	1.74	0.48
1:EA:685:G:H5''	1:EA:686:U:OP1	2.14	0.48
1:EA:700:G:H5''	1:EA:704:A:H1'	1.96	0.48
1:EA:768:A:H5''	1:EA:804:U:H5''	1.95	0.48
1:EA:857:C:H2'	1:EA:858:G:H8	1.78	0.48
2:EB:175:ARG:O	2:EB:179:LYS:HB2	2.14	0.48
2:EB:31:TYR:CE2	2:EB:202:PRO:HG3	2.49	0.48
3:EC:125:GLU:HB3	3:EC:126:ARG:HD2	1.95	0.48
4:ED:201:GLN:OE1	5:EE:116:THR:HG21	2.13	0.48
1:EA:522:C:H41	12:EL:53:ARG:NH1	2.09	0.48
13:EM:91:ARG:HB3	13:EM:96:LEU:O	2.14	0.48
3:EC:6:HIS:HD2	14:EN:49:HIS:O	1.97	0.48
15:EO:75:PRO:O	15:EO:78:TYR:HB3	2.14	0.48
17:EQ:3:LYS:O	17:EQ:5:VAL:HG23	2.14	0.48
6:EF:50:TYR:CG	18:ER:80:PRO:HB3	2.48	0.48
47:F1:17:GLN:HA	47:F1:33:VAL:O	2.13	0.48
47:F1:6:HIS:N	47:F1:7:PRO:CD	2.77	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:FB:1636:G:O4'	50:F4:1:MET:HA	2.07	0.48
33:FM:63:ARG:HH11	51:F5:12:ARG:HD3	1.76	0.48
53:F7:113:ASN:HA	53:F7:138:LEU:HD11	1.94	0.48
22:FB:1004:A:H4'	39:FS:88:GLN:OE1	2.14	0.48
22:FB:1203:A:H4'	33:FM:36:GLY:CA	2.42	0.48
22:FB:1240:G:C5'	38:FR:16:LYS:CG	2.87	0.48
22:FB:1525:A:H5'	22:FB:1526:U:OP2	2.12	0.48
22:FB:794:A:H1'	22:FB:1767:G:N2	2.28	0.48
22:FB:2048:C:H2'	22:FB:2049:C:C6	2.48	0.48
22:FB:222:G:OP2	51:F5:7:HIS:HB3	2.08	0.48
22:FB:2613:A:H2'	22:FB:2614:A:C8	2.47	0.48
22:FB:3867:G:H2'	22:FB:3868:U:O4'	2.12	0.48
22:FB:406:G:H2'	22:FB:407:A:O4'	2.14	0.48
22:FB:468:A:N1	22:FB:481:A:H5''	2.28	0.48
22:FB:588:G:H8	22:FB:2000:U:N3	2.11	0.48
22:FB:58:C:H3'	22:FB:59:G:H5''	1.96	0.48
22:FB:77:C:H2'	22:FB:78:C:C6	2.48	0.48
22:FB:66:U:C6	22:FB:87:G:N2	2.81	0.48
24:FD:102:LYS:O	24:FD:103:ARG:HB2	2.14	0.48
24:FD:69:ARG:CB	24:FD:130:ALA:HB2	2.44	0.48
24:FD:31:LYS:HB3	24:FD:83:GLU:HG3	1.95	0.48
25:FE:1:MET:N	25:FE:200:SER:HB2	2.29	0.48
28:FH:152:ARG:HH12	28:FH:161:GLY:HA3	1.78	0.48
22:FB:2181:A:H1'	29:FI:24:TYR:CD2	2.48	0.48
29:FI:5:LEU:HD11	29:FI:7:GLU:O	2.14	0.48
22:FB:7:G:H4'	31:FK:161:GLN:CB	2.43	0.48
36:FP:8:ARG:CZ	36:FP:9:ARG:HE	2.26	0.48
37:FQ:44:ARG:HG2	37:FQ:45:THR:H	1.79	0.48
39:FS:32:LYS:HD2	39:FS:63:HIS:H	1.77	0.48
22:FB:1351:G:H5'	41:FU:13:SER:OG	1.94	0.48
43:FW:65:LEU:HB2	43:FW:93:GLU:HG2	1.96	0.48
43:FW:67:LYS:HB2	43:FW:84:TYR:H	1.77	0.48
45:FY:50:VAL:CG1	45:FY:54:ASN:HD21	2.27	0.48
1:GA:1288:A:H2'	1:GA:1289:A:O4'	2.14	0.48
1:GA:286:G:H2'	1:GA:287:U:O4'	2.14	0.48
1:GA:357:G:H2'	1:GA:358:U:C6	2.49	0.48
1:GA:663:A:H4'	18:GR:64:ARG:CZ	2.37	0.48
1:GA:808:C:C1'	24:HD:5:LYS:HZ2	2.24	0.48
1:GA:990:C:H2'	1:GA:991:U:O4'	2.13	0.48
1:GA:17:U:H4'	5:GE:14:ARG:NH2	2.18	0.48
7:GG:105:VAL:HG12	7:GG:109:ASN:HD21	1.77	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:GH:14:ARG:CZ	8:GH:83:ILE:HG23	2.43	0.48
11:GK:48:ILE:HG22	11:GK:49:GLY:H	1.79	0.48
7:GG:153:HIS:CE1	11:GK:59:TYR:CA	2.97	0.48
7:GG:149:ARG:O	11:GK:59:TYR:OH	2.31	0.48
17:GQ:59:ILE:HG21	17:GQ:71:PHE:HB3	1.95	0.48
19:GS:18:LYS:HA	19:GS:21:GLU:HG3	1.94	0.48
20:GT:56:MET:SD	20:GT:57:ARG:HG3	2.53	0.48
1:GA:193:C:H5'	20:GT:60:GLU:CD	2.34	0.48
22:HB:2860:C:C4'	48:H2:34:PRO:O	2.61	0.48
49:H3:13:GLU:CD	49:H3:24:THR:HA	2.34	0.48
51:H5:9:MET:CB	51:H5:59:LYS:HD3	2.42	0.48
22:HB:1301:U:C6	22:HB:1341:G:N2	2.81	0.48
22:HB:706:A:H4'	22:HB:1366:A:H1'	1.95	0.48
22:HB:1725:C:HO2'	22:HB:2835:A:C2'	2.23	0.48
22:HB:1773:C:H3'	22:HB:1773:C:OP1	2.13	0.48
1:GA:1496:C:C2	22:HB:1902:A:C2	2.85	0.48
22:HB:1958:G:H3'	22:HB:1959:U:C6	2.49	0.48
22:HB:2235:G:O3'	44:HX:9:SER:CA	2.61	0.48
22:HB:2303:C:H1'	22:HB:2316:G:H5''	1.94	0.48
22:HB:2786:G:O4'	25:HE:61:LYS:HE2	2.14	0.48
22:HB:504:G:O3'	40:HT:25:PHE:CB	2.60	0.48
22:HB:796:A:H2'	22:HB:797:A:O3'	2.13	0.48
26:HF:61:GLN:HA	26:HF:67:ALA:HB3	1.95	0.48
22:HB:1087:C:H4'	30:HJ:90:THR:CA	2.44	0.48
32:HL:76:ARG:HB3	32:HL:90:ARG:NH2	2.28	0.48
33:HM:22:GLY:H	33:HM:23:PRO:HD2	1.79	0.48
39:HS:36:LYS:HD3	39:HS:59:GLU:O	2.14	0.48
1:IA:1154:G:H2'	1:IA:1155:G:C8	2.49	0.48
1:IA:1238:A:N7	1:IA:1301:U:N3	2.61	0.48
1:IA:1480:G:O2'	1:IA:1481:U:H5'	2.14	0.48
1:IA:153:C:H2'	1:IA:154:C:C6	2.49	0.48
1:IA:286:G:H2'	1:IA:287:U:O4'	2.14	0.48
1:IA:429:U:H4'	1:IA:430:A:OP1	2.12	0.48
1:IA:575:G:H4'	1:IA:576:G:C5'	2.41	0.48
1:IA:921:U:H2'	1:IA:922:G:C8	2.49	0.48
1:IA:922:G:H1'	5:IE:19:MET:CE	2.38	0.48
2:IB:104:ASN:HD22	2:IB:108:ILE:HD11	1.78	0.48
2:IB:175:ARG:O	2:IB:179:LYS:HB2	2.14	0.48
3:IC:64:VAL:C	3:IC:99:VAL:HG23	2.33	0.48
5:IE:138:ALA:O	5:IE:142:LEU:HG	2.14	0.48
4:ID:201:GLN:HE21	5:IE:99:GLY:HA3	1.78	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:IM:11:ARG:HH21	13:IM:46:LYS:HA	1.79	0.48
22:JB:392:G:H21	47:J1:14:ILE:CD1	2.27	0.48
22:JB:409:G:C3'	47:J1:39:VAL:HG11	2.43	0.48
22:JB:1044:U:OP1	52:J6:9:LYS:HE3	2.13	0.48
22:JB:1047:G:C6	22:JB:1048:U:C2	3.02	0.48
22:JB:1049:C:N3	22:JB:1129:A:C6	2.82	0.48
22:JB:1197:U:C2'	22:JB:1198:C:H5'	2.43	0.48
22:JB:1377:G:H3'	47:J1:3:LYS:HD2	1.95	0.48
22:JB:1470:G:H1'	35:JO:60:LEU:CD1	2.43	0.48
22:JB:1470:G:H1'	35:JO:60:LEU:CG	2.43	0.48
22:JB:174:A:C2	22:JB:2223:U:H5''	2.48	0.48
22:JB:1773:C:H3'	22:JB:1773:C:OP1	2.13	0.48
22:JB:1880:G:H2'	22:JB:1881:U:C6	2.49	0.48
22:JB:1879:G:H2'	22:JB:1880:G:H8	1.77	0.48
22:JB:2073:A:C2	47:J1:58:LYS:CE	2.97	0.48
22:JB:2241:U:O4	44:JX:13:GLY:CA	2.62	0.48
22:JB:226:C:C4	22:JB:2374:C:H5'	2.49	0.48
22:JB:2340:C:P	33:JM:60:LEU:HD23	2.53	0.48
22:JB:203:G:O3'	22:JB:234:C:H4'	2.13	0.48
22:JB:2464:G:H4'	34:JN:123:GLY:HA3	1.60	0.48
22:JB:2646:C:H2'	22:JB:2647:G:C8	2.49	0.48
22:JB:2612:G:OP1	22:JB:2787:A:H5'	2.13	0.48
22:JB:395:G:H2'	22:JB:396:U:O4'	2.13	0.48
22:JB:406:G:H2'	22:JB:407:A:O4'	2.14	0.48
22:JB:512:A:H5'	40:JT:16:GLN:CB	2.44	0.48
22:JB:760:U:O3'	40:JT:110:ALA:CB	2.61	0.48
24:JD:69:ARG:CB	24:JD:130:ALA:HB2	2.44	0.48
26:JF:5:ASN:OD1	26:JF:117:LEU:HB2	2.14	0.48
22:JB:593:C:C2	26:JF:76:THR:HA	2.47	0.48
28:JH:138:LYS:H	28:JH:141:VAL:HG13	1.78	0.48
31:JK:167:LYS:HD3	31:JK:167:LYS:N	2.29	0.48
32:JL:83:ARG:H	32:JL:88:THR:HA	1.79	0.48
32:JL:76:ARG:HB3	32:JL:90:ARG:NH2	2.28	0.48
37:JQ:110:LEU:HA	37:JQ:113:LYS:HG3	1.94	0.48
42:JV:18:LYS:HB3	42:JV:18:LYS:NZ	2.29	0.48
22:JB:320:A:C4'	42:JV:30:LYS:CG	2.90	0.48
42:JV:32:GLN:NE2	42:JV:49:GLU:HB2	2.27	0.48
44:JX:66:LYS:HB2	44:JX:66:LYS:NZ	2.27	0.48
22:JB:1166:A:N6	46:JZ:7:ARG:HH11	0.73	0.48
1:AA:1164:G:H2'	1:AA:1165:C:O4'	2.13	0.48
1:AA:1239:A:H62	1:AA:1299:A:N6	1.94	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1275:A:C2	1:AA:1276:G:H1'	2.48	0.48
1:AA:404:U:OP2	4:AD:3:ARG:CZ	2.62	0.48
1:AA:685:G:H5''	1:AA:686:U:OP1	2.14	0.48
2:AB:142:LEU:C	2:AB:146:GLN:HE21	2.17	0.48
4:AD:101:LEU:HB3	4:AD:136:PRO:O	2.14	0.48
4:AD:13:ARG:NH1	4:AD:36:ARG:HD3	2.29	0.48
5:AE:138:ALA:O	5:AE:142:LEU:HG	2.13	0.48
5:AE:150:ARG:O	5:AE:150:ARG:HD3	2.13	0.48
10:AJ:79:ARG:C	10:AJ:81:THR:H	2.16	0.48
1:AA:1307:U:H5''	13:AM:109:THR:CG2	2.44	0.48
14:AN:8:GLU:HG2	14:AN:9:LYS:N	2.28	0.48
17:AQ:59:ILE:HG21	17:AQ:71:PHE:HB3	1.95	0.48
22:BB:2790:C:C2'	48:B2:43:HIS:CB	2.90	0.48
22:BB:1119:U:HO3'	22:BB:1120:C:P	2.19	0.48
22:BB:1142:G:H4'	31:BK:110:LEU:C	2.34	0.48
22:BB:1143:A:N1	31:BK:103:TYR:CG	2.79	0.48
22:BB:1234:C:H2'	22:BB:1235:C:C6	2.48	0.48
22:BB:1325:U:C6	41:BU:61:LYS:NZ	2.72	0.48
22:BB:1413:U:H2'	22:BB:1414:G:C8	2.48	0.48
22:BB:2005:U:O2'	22:BB:2596:C:H4'	2.13	0.48
22:BB:215:G:C1'	22:BB:618:A:C4'	2.92	0.48
22:BB:2613:A:H2'	22:BB:2614:A:C8	2.47	0.48
22:BB:2646:C:H2'	22:BB:2647:G:C8	2.49	0.48
22:BB:297:A:H61	22:BB:366:U:H3	1.62	0.48
22:BB:512:A:H5''	40:BT:17:GLN:N	1.85	0.48
22:BB:737:C:O2'	22:BB:738:G:H5'	2.14	0.48
22:BB:742:G:C5	24:BD:18:THR:HB	2.39	0.48
22:BB:750:C:H5'	22:BB:779:U:O2'	2.13	0.48
22:BB:77:C:H2'	22:BB:78:C:C6	2.48	0.48
22:BB:815:A:H2'	22:BB:816:U:N1	2.28	0.48
24:BD:11:PRO:O	24:BD:13:ARG:HG3	2.14	0.48
24:BD:84:TYR:HB3	24:BD:91:ARG:NH1	2.29	0.48
26:BF:5:ASN:OD1	26:BF:117:LEU:HB2	2.14	0.48
28:BH:103:LEU:HD22	28:BH:123:PHE:CE2	2.49	0.48
30:BJ:90:THR:O	30:BJ:91:PRO:C	2.52	0.48
31:BK:167:LYS:N	31:BK:167:LYS:HD3	2.29	0.48
37:BQ:72:SER:HB2	37:BQ:78:GLU:C	2.34	0.48
32:BL:87:SER:HB3	37:BQ:83:PHE:CD2	2.49	0.48
42:BV:18:LYS:HB3	42:BV:18:LYS:NZ	2.29	0.48
43:BW:49:THR:OG1	43:BW:132:GLN:CB	2.60	0.48
43:BW:67:LYS:HB2	43:BW:84:TYR:H	1.77	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:BX:67:VAL:HG22	44:BX:68:VAL:N	2.28	0.48
1:CA:1172:C:H2'	1:CA:1173:G:C8	2.47	0.48
1:CA:655:A:N6	1:CA:752:G:N2	2.61	0.48
2:CB:115:LEU:HD13	2:CB:145:LEU:HB2	1.96	0.48
2:CB:80:ILE:HA	2:CB:83:MET:HG2	1.96	0.48
5:CE:141:GLN:HA	5:CE:143:ARG:NH2	2.29	0.48
6:CF:72:VAL:C	6:CF:74:ASP:H	2.16	0.48
7:CG:49:ILE:HD13	7:CG:121:ALA:CA	2.44	0.48
10:CJ:6:ILE:HG22	10:CJ:7:LYS:H	1.79	0.48
17:CQ:9:VAL:N	17:CQ:21:VAL:HG12	2.28	0.48
17:CQ:9:VAL:HA	17:CQ:55:ASP:O	2.14	0.48
19:CS:40:ILE:HG13	19:CS:71:LEU:HD21	1.96	0.48
1:CA:1319:A:C5'	19:CS:70:LYS:NZ	2.76	0.48
20:CT:56:MET:SD	20:CT:57:ARG:HG3	2.53	0.48
1:CA:349:A:HO2'	20:CT:8:ARG:HD3	1.74	0.48
22:DB:2063:A:C5'	47:D1:20:VAL:HG22	2.19	0.48
22:DB:15:G:N3	48:D2:18:MET:HG3	2.28	0.48
48:D2:4:HIS:CG	48:D2:5:PRO:HD2	2.49	0.48
22:DB:700:C:H5''	50:D4:4:THR:HA	1.96	0.48
22:DB:1205:G:H2'	22:DB:1206:G:H8	1.78	0.48
22:DB:1323:G:H5''	22:DB:1324:G:OP2	2.13	0.48
22:DB:1906:U:H2'	22:DB:1907:C:C6	2.46	0.48
22:DB:2005:U:O2'	22:DB:2596:C:H4'	2.13	0.48
22:DB:2048:C:H2'	22:DB:2049:C:C6	2.48	0.48
22:DB:2593:A:N6	25:DE:137:ARG:HH12	2.11	0.48
22:DB:2646:C:H2'	22:DB:2647:G:C8	2.49	0.48
22:DB:2726:U:O2	28:DH:71:LEU:CD2	2.58	0.48
22:DB:2771:C:O2'	22:DB:2772:U:H5'	2.13	0.48
22:DB:2789:U:C2	48:D2:43:HIS:NE2	2.82	0.48
22:DB:2789:U:H2'	22:DB:2790:C:H4'	1.96	0.48
22:DB:106:G:O2'	22:DB:358:C:C2	2.63	0.48
22:DB:4:C:O2	22:DB:2873:G:N2	2.39	0.48
22:DB:700:C:H42	22:DB:800:U:C4'	2.27	0.48
22:DB:809:C:H2'	22:DB:810:U:C6	2.49	0.48
22:DB:981:C:H1'	22:DB:995:A:O2'	2.14	0.48
24:DD:270:ILE:HD13	24:DD:270:ILE:N	2.27	0.48
30:DJ:100:ASN:HB3	30:DJ:103:GLN:HB3	1.94	0.48
30:DJ:21:PRO:O	30:DJ:22:PRO:O	2.32	0.48
30:DJ:39:LYS:HB3	30:DJ:39:LYS:HZ2	1.78	0.48
30:DJ:90:THR:O	30:DJ:91:PRO:C	2.52	0.48
31:DK:67:ARG:HD2	31:DK:70:PHE:HB2	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:DM:127:ALA:HA	33:DM:130:ILE:HG23	1.96	0.48
22:DB:1256:C:H1'	33:DM:15:ASP:HA	1.95	0.48
22:DB:1293:A:P	35:DO:33:ARG:CD	3.02	0.48
40:DT:34:SER:C	40:DT:36:ARG:H	2.17	0.48
43:DW:67:LYS:CB	43:DW:128:ARG:NH1	2.76	0.48
1:EA:1080:A:C5'	5:EE:16:THR:OG1	2.62	0.48
1:EA:1100:C:N1	2:EB:98:LEU:HD22	2.28	0.48
1:EA:644:G:C8	8:EH:132:GLU:CB	2.76	0.48
1:EA:687:A:H4'	1:EA:688:G:O5'	2.14	0.48
1:EA:947:G:H2'	1:EA:948:C:O4'	2.14	0.48
2:EB:178:ARG:HD3	2:EB:196:LEU:HD22	1.96	0.48
3:EC:73:PRO:HB3	3:EC:105:GLU:OE1	2.14	0.48
3:EC:32:LEU:HD23	3:EC:33:LEU:N	2.28	0.48
3:EC:3:ASN:HD22	3:EC:3:ASN:H	1.61	0.48
4:ED:101:LEU:HB3	4:ED:136:PRO:O	2.14	0.48
5:EE:141:GLN:HA	5:EE:143:ARG:NH2	2.29	0.48
7:EG:46:ALA:O	7:EG:49:ILE:HB	2.13	0.48
9:EI:9:ARG:HG2	9:EI:10:ARG:N	2.27	0.48
10:EJ:9:ARG:O	10:EJ:94:VAL:HG22	2.14	0.48
1:EA:779:C:O2'	11:EK:120:ARG:NE	2.47	0.48
13:EM:11:ARG:HH21	13:EM:46:LYS:HA	1.79	0.48
1:EA:1309:G:OP1	13:EM:88:ARG:HD3	2.14	0.48
17:EQ:63:ARG:HG2	17:EQ:64:PRO:HD2	1.95	0.48
19:ES:40:ILE:HG13	19:ES:71:LEU:HD21	1.95	0.48
1:EA:958:A:C5	19:ES:56:GLN:CG	2.84	0.48
48:F2:45:ILE:HD11	48:F2:52:TYR:CD2	2.45	0.48
22:FB:1450:G:N3	22:FB:1493:A:H2	2.12	0.48
22:FB:47:G:H1'	22:FB:155:G:H22	1.77	0.48
22:FB:1531:C:C3'	22:FB:1572:C:H1'	2.43	0.48
22:FB:1629:G:H5'	22:FB:1630:A:H5''	1.96	0.48
22:FB:1829:C:H1'	22:FB:1910:A:N3	2.29	0.48
22:FB:2267:A:H2'	22:FB:2267:A:N3	2.28	0.48
22:FB:2284:U:H2'	22:FB:2284:U:O2	2.12	0.48
22:FB:2258:G:N9	22:FB:2306:A:H1'	2.27	0.48
22:FB:2349:G:H2'	22:FB:2350:G:C1'	2.44	0.48
22:FB:8:A:N6	22:FB:2608:A:OP2	2.46	0.48
22:FB:2701:A:C8	22:FB:2848:A:C8	2.97	0.48
22:FB:3171:A:OP1	53:F7:105:ARG:HD2	2.13	0.48
22:FB:700:C:H42	22:FB:800:U:C4'	2.27	0.48
22:FB:706:A:H4'	22:FB:1366:A:H1'	1.95	0.48
25:FE:22:PRO:HD3	25:FE:185:LYS:HG3	1.96	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:FE:61:LYS:N	25:FE:62:PRO:CD	2.71	0.48
26:FF:5:ASN:OD1	26:FF:117:LEU:HB2	2.14	0.48
22:FB:1270:C:O2'	26:FF:77:PHE:CE1	2.67	0.48
28:FH:25:LYS:H	28:FH:35:VAL:HG11	1.77	0.48
28:FH:33:LEU:HD11	28:FH:74:ASN:ND2	2.28	0.48
31:FK:139:ARG:NH2	31:FK:142:ARG:HH11	2.05	0.48
31:FK:84:ASN:O	31:FK:152:ALA:HA	2.13	0.48
36:FP:96:TYR:CD1	36:FP:100:VAL:HB	2.49	0.48
39:FS:38:LEU:H	39:FS:38:LEU:HD23	1.79	0.48
42:FV:18:LYS:HB3	42:FV:18:LYS:NZ	2.29	0.48
45:FY:49:GLU:OE1	45:FY:50:VAL:HG23	2.14	0.48
1:GA:1026:G:H3'	1:GA:1035:A:H61	1.79	0.48
1:GA:1164:G:H2'	1:GA:1165:C:O4'	2.13	0.48
1:GA:1201:A:H1'	1:GA:1202:G:OP2	2.13	0.48
1:GA:1355:G:H2'	1:GA:1356:G:C8	2.48	0.48
1:GA:271:C:H2'	1:GA:272:C:C6	2.49	0.48
1:GA:429:U:H4'	1:GA:430:A:OP1	2.13	0.48
1:GA:812:C:H4'	1:GA:813:U:H5'	1.96	0.48
1:GA:585:G:O2'	1:GA:879:C:H5'	2.14	0.48
1:GA:957:U:H2'	1:GA:959:A:OP2	2.14	0.48
4:GD:77:ASN:HA	4:GD:80:GLU:HG2	1.96	0.48
7:GG:95:ARG:HG2	7:GG:99:LEU:HG	1.94	0.48
19:GS:16:LEU:HA	19:GS:19:VAL:CG1	2.42	0.48
20:GT:23:ARG:HE	20:GT:30:LYS:NZ	2.12	0.48
22:HB:1998:A:N7	48:H2:7:PRO:HD2	2.22	0.48
53:H7:64:VAL:HG23	53:H7:152:LYS:HG2	1.96	0.48
22:HB:1073:G:N2	30:HJ:133:SER:OG	2.46	0.48
22:HB:1353:A:N3	22:HB:1353:A:H2'	2.28	0.48
22:HB:1791:C:H1'	22:HB:1793:A:O4'	2.13	0.48
22:HB:2207:G:H2'	22:HB:2208:U:C6	2.48	0.48
22:HB:2453:C:H2'	22:HB:2454:C:O4'	2.14	0.48
22:HB:2607:C:H3'	22:HB:2608:A:H5'	1.96	0.48
22:HB:2646:C:H2'	22:HB:2647:G:C8	2.49	0.48
22:HB:2760:G:O2'	31:HK:149:LYS:HG2	2.13	0.48
22:HB:395:G:H2'	22:HB:396:U:O4'	2.13	0.48
22:HB:340:G:H21	22:HB:488:A:H62	1.62	0.48
22:HB:932:G:H2'	22:HB:933:G:C8	2.49	0.48
24:HD:102:LYS:O	24:HD:103:ARG:HB2	2.14	0.48
24:HD:106:LEU:HD22	24:HD:106:LEU:N	2.29	0.48
25:HE:145:LYS:HD3	25:HE:145:LYS:O	2.13	0.48
26:HF:147:LYS:O	26:HF:167:VAL:HG12	2.14	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:HF:163:ASN:ND2	26:HF:166:TRP:HB2	2.29	0.48
26:HF:48:ARG:HE	26:HF:51:VAL:HG23	1.78	0.48
27:HG:117:ILE:HG22	27:HG:118:ASN:ND2	2.29	0.48
27:HG:86:GLY:C	27:HG:87:ILE:HG13	2.34	0.48
28:HH:157:TYR:O	28:HH:171:LEU:HB2	2.13	0.48
28:HH:54:ARG:N	28:HH:55:PRO:HD3	2.28	0.48
30:HJ:70:LYS:O	30:HJ:72:PRO:HD3	2.14	0.48
30:HJ:96:VAL:O	30:HJ:136:VAL:HG12	2.13	0.48
32:HL:114:VAL:HG22	32:HL:132:GLU:O	2.12	0.48
32:HL:83:ARG:H	32:HL:88:THR:HA	1.79	0.48
33:HM:16:ARG:NE	33:HM:16:ARG:HA	2.28	0.48
34:HN:67:ILE:HG13	34:HN:102:ARG:CA	2.43	0.48
22:HB:2826:C:C5'	35:HO:64:ARG:NH1	2.60	0.48
36:HP:8:ARG:NH2	36:HP:9:ARG:HE	2.12	0.48
39:HS:69:ILE:HD11	39:HS:88:GLN:NE2	2.26	0.48
22:HB:470:U:C1'	41:HU:69:ILE:HD11	2.43	0.48
42:HV:41:PRO:O	42:HV:42:ARG:HB3	2.13	0.48
44:HX:46:LYS:HD2	44:HX:74:LYS:O	2.13	0.48
1:IA:1405:G:H2'	1:IA:1406:U:C6	2.49	0.48
1:IA:206:C:H2'	1:IA:207:C:H5'	1.96	0.48
1:IA:357:G:H2'	1:IA:358:U:C6	2.49	0.48
1:IA:687:A:H4'	1:IA:688:G:O5'	2.14	0.48
1:IA:691:G:O5'	11:IK:26:ASN:ND2	2.46	0.48
1:IA:778:G:O2'	11:IK:120:ARG:C	2.52	0.48
1:IA:585:G:O2'	1:IA:879:C:H5'	2.14	0.48
1:IA:968:A:OP2	9:II:125:TYR:HB3	2.14	0.48
4:ID:173:TRP:HE3	4:ID:193:ASP:HB3	1.77	0.48
7:IG:64:GLN:NE2	7:IG:68:ASN:HD21	2.07	0.48
11:IK:23:ALA:HB1	11:IK:88:GLY:CA	2.44	0.48
13:IM:13:LYS:HD3	13:IM:17:VAL:HG11	1.94	0.48
14:IN:8:GLU:HA	14:IN:11:LYS:HD3	1.94	0.48
15:IO:75:PRO:O	15:IO:78:TYR:HB3	2.13	0.48
1:IA:625:G:C5'	16:IP:35:LYS:HE3	2.43	0.48
16:IP:67:THR:H	16:IP:70:ALA:HB3	1.79	0.48
19:IS:28:LYS:HG2	19:IS:29:ARG:N	2.29	0.48
20:IT:73:HIS:CG	20:IT:74:LYS:H	2.30	0.48
47:J1:41:PRO:HA	47:J1:58:LYS:NZ	2.28	0.48
22:JB:2265:A:C4	49:J3:31:THR:HG21	2.48	0.48
23:JA:92:G:H2'	23:JA:93:G:H5'	1.95	0.48
22:JB:1370:U:H2'	22:JB:1371:G:C8	2.47	0.48
22:JB:1357:U:O4	22:JB:1416:A:N1	2.46	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:JB:1552:C:H5''	22:JB:1554:G:N2	2.28	0.48
22:JB:1627:C:O2'	50:J4:7:PRO:CG	2.57	0.48
22:JB:1829:C:C4'	22:JB:1910:A:C2'	2.53	0.48
22:JB:1685:A:H2	22:JB:1976:U:H1'	1.79	0.48
22:JB:2490:U:HO2'	25:JE:138:PRO:CA	2.24	0.48
22:JB:3094:A:H2'	22:JB:3095:A:O4'	2.13	0.48
22:JB:677:G:C2	22:JB:678:G:C4	3.02	0.48
22:JB:796:A:H2'	22:JB:797:A:O3'	2.13	0.48
22:JB:932:G:H2'	22:JB:933:G:C8	2.49	0.48
22:JB:981:C:H1'	22:JB:995:A:O2'	2.14	0.48
24:JD:11:PRO:O	24:JD:13:ARG:N	2.47	0.48
26:JF:138:LYS:C	26:JF:140:ASN:H	2.17	0.48
26:JF:163:ASN:ND2	26:JF:166:TRP:HB2	2.29	0.48
27:JG:117:ILE:HG22	27:JG:118:ASN:ND2	2.29	0.48
22:JB:2637:C:N4	28:JH:181:GLY:HA2	2.27	0.48
28:JH:25:LYS:H	28:JH:35:VAL:HG11	1.78	0.48
29:JI:4:ILE:HA	29:JI:15:GLY:HA2	1.96	0.48
30:JJ:72:PRO:C	30:JJ:74:MET:H	2.17	0.48
32:JL:116:ARG:NE	32:JL:116:ARG:HA	2.28	0.48
32:JL:4:PRO:O	32:JL:22:ILE:HA	2.13	0.48
38:JR:54:LYS:HE2	38:JR:93:LYS:HZ1	1.78	0.48
39:JS:20:ILE:CG2	39:JS:92:ALA:HB1	2.43	0.48
44:JX:32:LYS:CG	44:JX:33:ALA:H	2.26	0.48
45:JY:49:GLU:OE1	45:JY:50:VAL:HG23	2.14	0.48
1:AA:919:A:H1'	1:AA:1079:G:C6	2.48	0.48
7:AG:64:GLN:NE2	7:AG:68:ASN:HD21	2.08	0.48
11:AK:48:ILE:HG22	11:AK:49:GLY:H	1.79	0.48
13:AM:6:GLY:O	13:AM:8:GLU:HG2	2.13	0.48
13:AM:89:GLY:N	13:AM:90:LEU:O	2.45	0.48
1:AA:276:G:HO2'	17:AQ:43:LEU:HD12	1.74	0.48
19:AS:16:LEU:HA	19:AS:19:VAL:CG1	2.42	0.48
47:B1:12:CYS:O	47:B1:13:LYS:HG2	2.13	0.48
22:BB:1861:G:C4	53:B7:199:ASN:HB2	2.37	0.48
22:BB:105:G:O2'	22:BB:304:A:C5	2.67	0.48
22:BB:1437:A:N6	22:BB:1439:G:N1	2.62	0.48
22:BB:1455:C:H2'	22:BB:1456:C:C6	2.48	0.48
22:BB:1552:C:H5''	22:BB:1554:G:N2	2.29	0.48
22:BB:1806:G:H3'	22:BB:1807:A:H8	1.79	0.48
22:BB:540:G:C4	22:BB:2018:G:C4'	2.96	0.48
22:BB:2490:U:C5'	25:BE:122:PHE:CZ	2.94	0.48
22:BB:2767:C:C1'	25:BE:61:LYS:CE	2.90	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:BB:348:U:H4'	42:BV:13:LYS:HD2	1.95	0.48
22:BB:706:A:H4'	22:BB:1366:A:H1'	1.96	0.48
22:BB:735:G:H2'	22:BB:736:G:C8	2.49	0.48
24:BD:213:ARG:HE	24:BD:219:PRO:CA	2.24	0.48
24:BD:270:ILE:HD13	24:BD:270:ILE:N	2.27	0.48
27:BG:117:ILE:HG22	27:BG:118:ASN:ND2	2.29	0.48
28:BH:148:VAL:HB	28:BH:152:ARG:NE	2.25	0.48
30:BJ:31:GLY:O	30:BJ:59:ILE:HG23	2.13	0.48
30:BJ:96:VAL:O	30:BJ:136:VAL:HG12	2.13	0.48
22:BB:1683:G:C1'	32:BL:3:MET:HG2	2.44	0.48
32:BL:19:ILE:HA	32:BL:57:ASP:OD1	2.14	0.48
41:BU:62:ARG:HD3	41:BU:71:GLN:O	2.13	0.48
1:CA:136:C:C1'	16:CP:63:GLY:CA	2.79	0.48
1:CA:243:A:H1'	1:CA:244:U:OP2	2.14	0.48
1:CA:559:A:OP2	5:CE:124:GLY:N	2.46	0.48
1:CA:685:G:H5''	1:CA:686:U:OP1	2.14	0.48
1:CA:702:A:H5'	1:CA:703:G:C8	2.49	0.48
1:CA:812:C:H4'	1:CA:813:U:H5'	1.96	0.48
1:CA:857:C:H2'	1:CA:858:G:H8	1.78	0.48
1:CA:936:C:H2'	1:CA:937:A:C8	2.48	0.48
1:CA:975:A:H1'	1:CA:1358:U:H4'	1.96	0.48
2:CB:175:ARG:O	2:CB:179:LYS:HB2	2.14	0.48
3:CC:53:ALA:HA	3:CC:114:PRO:HB2	1.96	0.48
4:CD:77:ASN:HA	4:CD:80:GLU:HG2	1.96	0.48
1:CA:430:A:OP1	4:CD:8:VAL:CB	2.62	0.48
1:CA:1298:C:C2'	7:CG:114:ARG:CZ	2.57	0.48
1:CA:1349:A:P	9:CI:118:LYS:HB2	2.53	0.48
15:CO:21:ASP:OD1	15:CO:24:SER:HB2	2.14	0.48
8:CH:92:ARG:O	17:CQ:34:LYS:HA	2.13	0.48
19:CS:16:LEU:HA	19:CS:19:VAL:CG1	2.41	0.48
20:CT:35:THR:HA	20:CT:38:LYS:CE	2.43	0.48
49:D3:13:GLU:CD	49:D3:24:THR:HA	2.34	0.48
51:D5:54:GLU:HG2	51:D5:55:TRP:N	2.28	0.48
22:DB:1135:C:C4'	52:D6:4:ARG:HD2	2.31	0.48
22:DB:1356:G:C6	22:DB:1417:C:N4	2.71	0.48
22:DB:1455:C:H2'	22:DB:1456:C:C6	2.48	0.48
22:DB:1542:G:H2'	22:DB:1560:A:N6	2.26	0.48
22:DB:1809:G:H5'	24:DD:63:ARG:HH12	1.68	0.48
22:DB:1827:G:O6	22:DB:1952:A:H5''	2.14	0.48
22:DB:1999:U:H1'	48:D2:7:PRO:CD	2.44	0.48
22:DB:2003:A:N7	48:D2:9:LYS:HE3	2.20	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:DB:2263:C:H5''	49:D3:8:ILE:HD11	1.95	0.48
22:DB:2343:C:H2'	22:DB:2344:G:O4'	2.14	0.48
22:DB:2615:U:C5'	25:DE:79:ARG:CB	2.91	0.48
22:DB:2690:A:H3'	22:DB:2694:G:H4'	1.95	0.48
22:DB:3:U:C4	22:DB:2874:A:N6	2.76	0.48
22:DB:406:G:H2'	22:DB:407:A:O4'	2.14	0.48
22:DB:7:G:H1'	31:DK:163:PRO:HD3	1.94	0.48
22:DB:862:A:H1'	46:DZ:21:GLN:HE21	1.76	0.48
22:DB:2711:G:H4'	25:DE:168:GLN:OE1	2.13	0.48
26:DF:151:VAL:HG21	26:DF:188:ILE:HD12	1.96	0.48
31:DK:116:ARG:HH22	31:DK:126:VAL:CG1	2.26	0.48
32:DL:106:ARG:NE	32:DL:106:ARG:HA	2.28	0.48
32:DL:19:ILE:HA	32:DL:57:ASP:OD1	2.14	0.48
33:DM:51:GLY:O	51:D5:55:TRP:HZ3	1.96	0.48
36:DP:96:TYR:CD1	36:DP:100:VAL:HB	2.49	0.48
32:DL:113:PRO:HG2	37:DQ:76:GLY:HA2	1.96	0.48
39:DS:69:ILE:HD11	39:DS:88:GLN:NE2	2.26	0.48
22:DB:1631:C:O2	40:DT:107:ILE:HD11	2.13	0.48
40:DT:91:PHE:HZ	40:DT:133:ASN:HB2	1.77	0.48
22:DB:497:C:O2'	40:DT:77:ALA:C	2.52	0.48
34:DN:38:MET:N	43:DW:74:ARG:HH21	1.98	0.48
22:DB:2333:A:HO2'	44:DX:32:LYS:CE	2.12	0.48
46:DZ:10:ILE:HG22	46:DZ:11:GLY:N	2.28	0.48
1:EA:1172:C:H2'	1:EA:1173:G:C8	2.47	0.48
1:EA:975:A:H1'	1:EA:1358:U:H4'	1.96	0.48
1:EA:927:G:C5'	1:EA:1503:A:OP1	2.59	0.48
1:EA:243:A:H1'	1:EA:244:U:OP2	2.14	0.48
1:EA:537:G:C5'	12:EL:113:ARG:HH22	2.04	0.48
1:EA:971:G:N7	1:EA:1233:G:H1'	2.28	0.48
2:EB:115:LEU:HD13	2:EB:145:LEU:HB2	1.96	0.48
3:EC:43:LEU:O	3:EC:46:GLU:HB2	2.13	0.48
4:ED:21:LEU:HD21	4:ED:67:ILE:HG23	1.95	0.48
1:EA:598:U:C2	8:EH:131:GLY:HA2	2.49	0.48
13:EM:110:ARG:HG2	13:EM:110:ARG:HH11	1.78	0.48
13:EM:13:LYS:CE	13:EM:17:VAL:HG21	2.44	0.48
13:EM:13:LYS:HD3	13:EM:17:VAL:HG11	1.94	0.48
13:EM:46:LYS:HG2	13:EM:47:ASP:N	2.28	0.48
16:EP:31:LYS:HG2	16:EP:32:TYR:H	1.78	0.48
17:EQ:62:SER:HB3	17:EQ:72:ARG:HG3	1.96	0.48
22:FB:2326:C:OP2	49:F3:25:THR:CG2	2.62	0.48
22:FB:1309:G:C6	22:FB:1310:C:N4	2.82	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:FB:1806:G:H3'	22:FB:1807:A:H8	1.79	0.48
22:FB:1829:C:O4'	22:FB:1911:A:O4'	2.31	0.48
22:FB:219:G:H5''	51:F5:3:LYS:HB2	1.96	0.48
22:FB:42:G:H2'	22:FB:43:A:O4'	2.13	0.48
22:FB:796:A:H2'	22:FB:797:A:O3'	2.13	0.48
22:FB:809:C:H2'	22:FB:810:U:C6	2.49	0.48
22:FB:981:C:H1'	22:FB:995:A:O2'	2.14	0.48
22:FB:742:G:C2	24:FD:18:THR:HG22	2.49	0.48
25:FE:143:GLN:HB2	25:FE:144:ARG:HE	1.78	0.48
27:FG:13:ARG:CB	27:FG:14:PRO:HD3	2.40	0.48
34:FN:68:ARG:HD2	34:FN:101:GLY:HA3	1.95	0.48
46:FZ:3:ILE:HG13	46:FZ:34:VAL:HG12	1.94	0.48
1:GA:1060:C:HO2'	10:GJ:56:HIS:CG	2.32	0.48
1:GA:250:A:H4'	1:GA:251:G:O5'	2.13	0.48
1:GA:278:G:OP2	17:GQ:41:LYS:HE2	2.14	0.48
1:GA:318:G:O2'	1:GA:1468:A:H4'	2.13	0.48
1:GA:421:U:H3'	1:GA:422:C:C6	2.48	0.48
1:GA:768:A:H1'	1:GA:1523:G:N2	2.28	0.48
2:GB:116:GLU:HG2	2:GB:153:ARG:HD3	1.95	0.48
2:GB:142:LEU:O	2:GB:146:GLN:HG3	2.13	0.48
2:GB:17:PHE:HB2	2:GB:41:ILE:HG21	1.96	0.48
5:GE:149:GLU:OE2	5:GE:152:ARG:HD3	2.14	0.48
6:GF:72:VAL:C	6:GF:74:ASP:H	2.16	0.48
7:GG:15:ASP:HB3	7:GG:20:ASP:H	1.78	0.48
1:GA:1373:G:P	7:GG:36:LYS:CB	3.01	0.48
1:GA:35:G:C2	12:GL:118:SER:HA	2.35	0.48
1:GA:954:G:C5'	13:GM:122:LYS:O	2.56	0.48
1:GA:273:A:C2	17:GQ:15:MET:CB	2.87	0.48
22:HB:1018:C:O2'	31:HK:136:PRO:HA	2.13	0.48
22:HB:1289:A:OP2	22:HB:1662:G:C4	2.66	0.48
22:HB:1672:A:H3'	22:HB:1673:C:C6	2.49	0.48
22:HB:174:A:C2	22:HB:2223:U:H5''	2.48	0.48
22:HB:1775:A:H5''	22:HB:1776:A:OP1	2.14	0.48
1:GA:1496:C:C2	22:HB:1902:A:N1	2.81	0.48
22:HB:201:G:N7	22:HB:433:G:H5'	2.29	0.48
22:HB:2235:G:OP1	44:HX:5:LYS:HG2	2.08	0.48
22:HB:2293:G:H2'	22:HB:2294:U:O4'	2.13	0.48
22:HB:2349:G:H2'	22:HB:2350:G:C1'	2.43	0.48
22:HB:1989:C:C2'	22:HB:2798:A:H1'	2.44	0.48
22:HB:2799:C:H2'	22:HB:2800:C:H5'	1.95	0.48
22:HB:2806:G:OP2	25:HE:57:ARG:CG	2.57	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:HB:862:A:C2	46:HZ:21:GLN:NE2	2.81	0.48
22:HB:959:C:H2'	22:HB:960:U:C6	2.49	0.48
22:HB:981:C:H1'	22:HB:995:A:O2'	2.14	0.48
24:HD:221:GLN:N	24:HD:222:ARG:NH1	2.62	0.48
22:HB:1834:G:H1'	24:HD:244:ARG:HG3	1.95	0.48
22:HB:1816:G:H4'	24:HD:247:VAL:HB	1.94	0.48
22:HB:2550:C:C3'	25:HE:144:ARG:CG	2.91	0.48
25:HE:143:GLN:HB2	25:HE:144:ARG:HE	1.78	0.48
27:HG:72:LYS:HB2	27:HG:80:ARG:O	2.14	0.48
27:HG:87:ILE:HB	27:HG:88:LYS:H	1.37	0.48
29:HI:4:ILE:HA	29:HI:15:GLY:HA2	1.96	0.48
31:HK:128:GLU:HG2	31:HK:129:HIS:N	2.28	0.48
32:HL:46:HIS:HB2	32:HL:121:ARG:HH21	1.78	0.48
35:HO:13:ASN:O	35:HO:16:ALA:HB3	2.14	0.48
22:HB:504:G:C4'	40:HT:25:PHE:CB	2.90	0.48
42:HV:96:LYS:HD3	42:HV:98:ILE:HD12	1.95	0.48
22:HB:338:G:O3'	42:HV:9:HIS:CB	2.60	0.48
34:HN:28:VAL:CG1	43:HW:117:VAL:HG12	2.43	0.48
1:IA:1057:G:H5'	3:IC:196:LEU:HD21	1.86	0.48
1:IA:1106:G:H5"	3:IC:171:GLY:N	2.29	0.48
1:IA:1164:G:H2'	1:IA:1165:C:O4'	2.14	0.48
1:IA:1196:U:OP2	1:IA:1397:C:C2	2.67	0.48
1:IA:927:G:H1'	1:IA:1532:U:C1'	2.44	0.48
1:IA:45:U:H2'	1:IA:46:G:C8	2.49	0.48
1:IA:690:G:O6	11:IK:51:LYS:NZ	2.44	0.48
2:IB:17:PHE:HB2	2:IB:41:ILE:HG21	1.96	0.48
3:IC:32:LEU:HD23	3:IC:33:LEU:N	2.28	0.48
1:IA:619:U:N1	4:ID:133:VAL:HG13	2.29	0.48
7:IG:94:ARG:O	7:IG:97:GLN:HG2	2.13	0.48
8:IH:134:ILE:HG22	8:IH:135:CYS:SG	2.54	0.48
1:IA:877:C:H5'	8:IH:88:LYS:HZ1	1.76	0.48
9:II:26:VAL:HB	9:II:63:ILE:HD11	1.94	0.48
12:IL:124:LYS:HG3	12:IL:125:PRO:HD2	1.96	0.48
14:IN:46:GLU:O	14:IN:50:LYS:HG3	2.14	0.48
17:IQ:9:VAL:HA	17:IQ:55:ASP:O	2.14	0.48
47:J1:61:LYS:HD3	47:J1:61:LYS:O	2.14	0.48
22:JB:3175:C:C4'	53:J7:31:GLU:OE2	2.57	0.48
23:JA:44:C:H5'	27:JG:66:ILE:HD12	1.90	0.48
22:JB:1003:C:O2	39:JS:88:GLN:CA	2.60	0.48
22:JB:706:A:H4'	22:JB:1366:A:H1'	1.96	0.48
22:JB:1498:G:N3	22:JB:1526:U:N3	2.62	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:JB:47:G:C1'	22:JB:155:G:H1	2.17	0.48
22:JB:1774:A:H2'	22:JB:2586:G:H21	1.79	0.48
22:JB:1780:A:P	24:JD:222:ARG:CD	2.92	0.48
22:JB:1812:U:H3'	24:JD:159:ALA:HB2	1.86	0.48
22:JB:1958:G:H3'	22:JB:1959:U:C6	2.49	0.48
22:JB:2064:U:OP1	47:J1:33:VAL:HG11	2.13	0.48
22:JB:2293:G:H2'	22:JB:2294:U:O4'	2.13	0.48
22:JB:2377:U:H4'	22:JB:2378:G:OP1	2.14	0.48
22:JB:2607:C:H3'	22:JB:2608:A:H5'	1.96	0.48
22:JB:2799:C:H2'	22:JB:2800:C:H5'	1.95	0.48
22:JB:80:A:H1'	22:JB:305:A:N3	2.28	0.48
22:JB:505:G:C4'	40:JT:78:ASN:ND2	2.76	0.48
22:JB:684:C:H5	33:JM:45:LYS:HB2	1.56	0.48
24:JD:246:PRO:CG	24:JD:247:VAL:N	2.76	0.48
24:JD:31:LYS:HB3	24:JD:83:GLU:HG3	1.95	0.48
22:JB:2616:U:H1'	25:JE:42:ASP:OD1	2.13	0.48
26:JF:147:LYS:O	26:JF:167:VAL:HG12	2.14	0.48
22:JB:455:A:C5	26:JF:39:ARG:HG2	2.49	0.48
22:JB:2284:U:H1'	27:JG:152:MET:CA	2.44	0.48
27:JG:72:LYS:HB2	27:JG:80:ARG:O	2.14	0.48
27:JG:87:ILE:O	27:JG:88:LYS:HB2	2.14	0.48
30:JJ:21:PRO:O	30:JJ:22:PRO:O	2.32	0.48
31:JK:33:ILE:HG13	31:JK:35:LYS:N	2.29	0.48
34:JN:9:LYS:N	34:JN:9:LYS:HD2	2.28	0.48
38:JR:37:GLN:HA	38:JR:40:LEU:HD23	1.95	0.48
22:JB:1007:A:H5'	38:JR:94:VAL:CG2	2.43	0.48
22:JB:1631:C:N4	40:JT:108:PRO:HB2	2.28	0.48
22:JB:1351:G:P	41:JU:13:SER:HB2	2.54	0.48
42:JV:96:LYS:HD3	42:JV:98:ILE:HD12	1.95	0.48
1:AA:1040:U:H2'	1:AA:1041:A:C8	2.49	0.48
1:AA:1429:C:H2'	1:AA:1430:C:C6	2.49	0.48
1:AA:817:C:H42	1:AA:1529:G:H1	1.60	0.48
1:AA:254:G:O3'	17:AQ:17:LYS:HD3	1.63	0.48
1:AA:357:G:H2'	1:AA:358:U:C6	2.49	0.48
1:AA:10:A:O2'	1:AA:507:C:H4'	2.14	0.48
1:AA:655:A:N6	1:AA:752:G:N2	2.61	0.48
1:AA:687:A:H4'	1:AA:688:G:O5'	2.14	0.48
1:AA:700:G:H5''	1:AA:704:A:H1'	1.96	0.48
2:AB:115:LEU:HD13	2:AB:145:LEU:HB2	1.96	0.48
2:AB:175:ARG:O	2:AB:179:LYS:HB2	2.14	0.48
2:AB:166:ASP:HB2	2:AB:205:ASP:CB	2.44	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:620:C:C5'	4:AD:138:TYR:OH	2.62	0.48
7:AG:49:ILE:HD13	7:AG:121:ALA:CA	2.44	0.48
13:AM:17:VAL:O	13:AM:21:TYR:HB2	2.14	0.48
13:AM:97:PRO:HA	13:AM:110:ARG:NH1	2.29	0.48
10:AJ:65:LEU:HD13	14:AN:56:VAL:HG22	1.52	0.48
20:AT:23:ARG:HE	20:AT:30:LYS:NZ	2.12	0.48
20:AT:88:VAL:HG21	20:AT:92:LEU:HD12	1.96	0.48
47:B1:30:GLU:HG3	47:B1:32:HIS:CE1	2.49	0.48
48:B2:16:ARG:NH2	48:B2:19:ARG:HG3	2.29	0.48
22:BB:2861:A:H61	48:B2:43:HIS:CD2	2.32	0.48
22:BB:418:C:H5	53:B7:191:GLU:HG2	1.79	0.48
22:BB:1437:A:N7	22:BB:1439:G:N1	2.62	0.48
22:BB:51:A:N3	22:BB:155:G:N3	2.62	0.48
1:AA:1484:C:HO2'	22:BB:1943:A:HO2'	1.62	0.48
22:BB:1958:G:H3'	22:BB:1959:U:C6	2.49	0.48
22:BB:1821:A:H61	22:BB:1959:U:H1'	1.79	0.48
22:BB:2035:G:N2	22:BB:2036:G:H1'	2.28	0.48
22:BB:2284:U:H2'	22:BB:2284:U:O2	2.12	0.48
22:BB:2328:G:P	51:B5:41:ILE:HD11	2.53	0.48
22:BB:2679:G:C2'	22:BB:2680:U:H5''	2.44	0.48
22:BB:2771:C:O2'	22:BB:2772:U:H5'	2.13	0.48
22:BB:37:C:H2'	22:BB:38:G:H8	1.74	0.48
22:BB:57:G:N2	22:BB:72:A:N3	2.61	0.48
22:BB:658:G:C4'	22:BB:2330:G:H5''	2.44	0.48
22:BB:700:C:H42	22:BB:800:U:C4'	2.27	0.48
22:BB:808:C:H2'	22:BB:809:C:C6	2.49	0.48
22:BB:861:G:O2'	22:BB:945:G:H5'	2.13	0.48
22:BB:935:C:H2'	22:BB:936:A:H8	1.78	0.48
24:BD:132:PRO:O	24:BD:133:LEU:HD22	2.13	0.48
24:BD:215:LEU:N	24:BD:215:LEU:HD12	2.29	0.48
24:BD:221:GLN:N	24:BD:222:ARG:NH1	2.62	0.48
25:BE:13:GLN:H	25:BE:22:PRO:HG2	1.78	0.48
22:BB:687:G:C5'	26:BF:68:ARG:NH2	2.77	0.48
27:BG:87:ILE:O	27:BG:88:LYS:HB2	2.14	0.48
28:BH:157:TYR:O	28:BH:171:LEU:HB2	2.13	0.48
32:BL:47:VAL:HG13	32:BL:48:GLY:N	2.23	0.48
33:BM:46:GLY:O	33:BM:47:ALA:HB3	2.14	0.48
34:BN:68:ARG:HD2	34:BN:101:GLY:HA3	1.96	0.48
34:BN:35:LEU:HA	34:BN:128:ILE:O	2.13	0.48
34:BN:27:TYR:CE2	34:BN:36:ILE:HG21	2.49	0.48
22:BB:2461:G:N1	34:BN:54:VAL:CG1	2.75	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:BS:32:LYS:HZ2	39:BS:96:LEU:HB2	1.78	0.48
39:BS:20:ILE:CG2	39:BS:92:ALA:HB1	2.43	0.48
40:BT:34:SER:C	40:BT:36:ARG:H	2.17	0.48
1:CA:988:G:H21	1:CA:1015:A:H2	1.62	0.48
1:CA:1040:U:H2'	1:CA:1041:A:C8	2.49	0.48
1:CA:1164:G:H2'	1:CA:1165:C:O4'	2.14	0.48
1:CA:1504:G:H3'	1:CA:1504:G:OP2	2.14	0.48
1:CA:357:G:H2'	1:CA:358:U:C6	2.49	0.48
1:CA:10:A:O2'	1:CA:507:C:H4'	2.14	0.48
1:CA:780:A:O3'	1:CA:1523:G:H5''	1.95	0.48
1:CA:921:U:H2'	1:CA:922:G:C8	2.49	0.48
3:CC:40:ARG:HG3	3:CC:40:ARG:HH11	1.77	0.48
8:CH:41:ARG:HG2	8:CH:120:THR:HG21	1.95	0.48
8:CH:9:MET:HE1	8:CH:36:LEU:HD11	1.95	0.48
13:CM:53:VAL:HA	13:CM:56:LEU:HG	1.95	0.48
14:CN:8:GLU:HG2	14:CN:9:LYS:N	2.28	0.48
23:DA:107:C:O3'	43:DW:89:GLY:HA3	2.14	0.48
22:DB:1461:C:O2'	22:DB:1561:A:H4'	2.13	0.48
22:DB:1616:C:H2'	22:DB:1617:G:C8	2.49	0.48
22:DB:2240:C:OP2	44:DX:14:ARG:CZ	2.62	0.48
22:DB:2284:U:O2	22:DB:2284:U:H2'	2.12	0.48
22:DB:2526:U:H2'	22:DB:2527:G:C8	2.49	0.48
22:DB:2503:G:H1'	22:DB:2744:A:C2	2.48	0.48
22:DB:3125:G:H4'	53:D7:209:MSE:CE	2.43	0.48
22:DB:735:G:H2'	22:DB:736:G:C8	2.49	0.48
22:DB:750:C:H5'	22:DB:779:U:O2'	2.13	0.48
22:DB:910:U:N3	22:DB:911:A:C8	2.82	0.48
22:DB:988:G:N2	22:DB:1012:A:H1'	2.29	0.48
24:DD:32:ALA:C	24:DD:33:LEU:HD13	2.34	0.48
22:DB:1803:G:N3	24:DD:46:ARG:C	2.64	0.48
24:DD:31:LYS:HB3	24:DD:83:GLU:HG3	1.95	0.48
22:DB:2557:G:C4'	25:DE:133:LYS:HD3	2.22	0.48
22:DB:2752:C:C2'	25:DE:164:ARG:HB2	2.42	0.48
28:DH:127:GLU:HB3	28:DH:130:ARG:NH1	2.29	0.48
28:DH:25:LYS:H	28:DH:35:VAL:HG11	1.78	0.48
29:DI:6:LEU:O	29:DI:6:LEU:HD23	2.13	0.48
22:DB:1072:U:H5'	30:DJ:9:LYS:HD2	1.95	0.48
31:DK:42:VAL:HA	31:DK:166:LEU:HD23	1.95	0.48
31:DK:43:VAL:HG13	31:DK:81:VAL:HB	1.95	0.48
22:DB:1935:A:OP2	32:DL:67:GLY:O	2.32	0.48
35:DO:68:GLN:H	35:DO:68:GLN:NE2	2.12	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:DE:195:LEU:HD23	37:DQ:2:GLN:HB2	1.95	0.48
37:DQ:63:ARG:NE	37:DQ:63:ARG:HA	2.27	0.48
38:DR:28:ARG:CD	38:DR:34:ASN:HB3	2.44	0.48
39:DS:62:GLU:HB2	39:DS:97:GLY:H	1.79	0.48
22:DB:503:G:N2	40:DT:71:VAL:HG13	2.28	0.48
41:DU:62:ARG:HD3	41:DU:71:GLN:O	2.13	0.48
42:DV:106:VAL:HG22	42:DV:113:THR:HB	1.96	0.48
1:EA:1040:U:H2'	1:EA:1041:A:C8	2.49	0.48
1:EA:10:A:O2'	1:EA:507:C:H4'	2.13	0.48
1:EA:737:A:H2'	1:EA:738:C:C5	2.48	0.48
1:EA:975:A:O2'	1:EA:976:G:OP2	2.31	0.48
2:EB:213:LEU:O	2:EB:213:LEU:HD23	2.14	0.48
3:EC:184:TYR:HB2	3:EC:200:ALA:O	2.14	0.48
1:EA:488:C:O4'	4:ED:131:ARG:HD3	2.11	0.48
4:ED:13:ARG:NH1	4:ED:36:ARG:HD3	2.29	0.48
8:EH:9:MET:HE1	8:EH:36:LEU:HD11	1.95	0.48
8:EH:26:VAL:O	8:EH:59:LEU:HD12	2.14	0.48
11:EK:48:ILE:HG22	11:EK:49:GLY:H	1.79	0.48
11:EK:23:ALA:HB1	11:EK:88:GLY:CA	2.44	0.48
13:EM:17:VAL:O	13:EM:21:TYR:HB2	2.14	0.48
3:EC:10:PHE:CE2	14:EN:58:LYS:HE3	2.49	0.48
47:F1:41:PRO:HA	47:F1:58:LYS:NZ	2.28	0.48
22:FB:2591:C:N1	48:F2:2:ALA:CB	2.76	0.48
49:F3:24:THR:CB	51:F5:35:GLY:CA	2.74	0.48
23:FA:90:C:C2'	23:FA:91:A:H5'	2.44	0.48
22:FB:1006:C:N1	38:FR:97:ASP:OD2	2.47	0.48
22:FB:1169:C:O5'	22:FB:1169:C:H6	1.97	0.48
22:FB:1455:C:H2'	22:FB:1456:C:C6	2.49	0.48
22:FB:1483:G:O6	22:FB:1539:U:C4	2.67	0.48
22:FB:1542:G:H2'	22:FB:1560:A:N6	2.26	0.48
22:FB:1958:G:H3'	22:FB:1959:U:C6	2.49	0.48
22:FB:2035:G:N2	22:FB:2036:G:H1'	2.28	0.48
22:FB:2461:G:N1	34:FN:54:VAL:CG1	2.75	0.48
22:FB:2526:U:H2'	22:FB:2527:G:C8	2.49	0.48
22:FB:2646:C:H2'	22:FB:2647:G:C8	2.49	0.48
22:FB:2662:C:H42	22:FB:2708:U:C5'	2.26	0.48
22:FB:2771:C:O2'	22:FB:2772:U:H5'	2.13	0.48
22:FB:297:A:H61	22:FB:366:U:H3	1.62	0.48
22:FB:635:C:OP1	51:F5:63:PRO:HD3	2.13	0.48
22:FB:58:C:N1	22:FB:72:A:C6	2.78	0.48
22:FB:735:G:H2'	22:FB:736:G:C8	2.49	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:FB:808:C:H2'	22:FB:809:C:C6	2.49	0.48
22:FB:815:A:H2'	22:FB:816:U:N1	2.28	0.48
22:FB:935:C:H2'	22:FB:936:A:H8	1.78	0.48
22:FB:686:C:C4'	26:FF:73:SER:O	2.61	0.48
27:FG:134:GLU:HG3	27:FG:150:ARG:N	2.28	0.48
31:FK:116:ARG:NE	31:FK:116:ARG:HA	2.29	0.48
42:FV:106:VAL:HG22	42:FV:113:THR:HB	1.96	0.48
22:FB:2240:C:C4'	44:FX:14:ARG:HG3	2.44	0.48
46:FZ:10:ILE:HG22	46:FZ:11:GLY:N	2.28	0.48
1:GA:1262:C:H2'	1:GA:1263:C:H6	1.79	0.48
1:GA:1385:G:H2'	1:GA:1386:G:H5'	1.96	0.48
1:GA:1504:G:OP2	1:GA:1504:G:H3'	2.14	0.48
1:GA:208:U:O2'	1:GA:215:C:H5'	2.14	0.48
1:GA:709:G:H2'	1:GA:710:G:C8	2.49	0.48
1:GA:727:G:H1'	1:GA:731:G:N1	2.27	0.48
1:GA:921:U:H2'	1:GA:922:G:C8	2.49	0.48
1:GA:968:A:C5'	9:GI:128:ARG:HH21	2.27	0.48
1:GA:1112:C:C2'	3:GC:178:LEU:HD23	2.44	0.48
5:GE:141:GLN:HA	5:GE:143:ARG:NH2	2.28	0.48
8:GH:134:ILE:HG22	8:GH:135:CYS:SG	2.54	0.48
11:GK:23:ALA:HB3	11:GK:86:GLY:O	2.13	0.48
12:GL:5:PRO:HD3	12:GL:13:LYS:HB2	1.95	0.48
13:GM:11:ARG:HH21	13:GM:46:LYS:HA	1.79	0.48
13:GM:56:LEU:HA	13:GM:60:VAL:HG23	1.96	0.48
17:GQ:9:VAL:N	17:GQ:21:VAL:HG12	2.28	0.48
51:H5:3:LYS:HZ2	51:H5:5:LYS:HG3	1.78	0.48
23:HA:90:C:C2'	23:HA:91:A:H5'	2.44	0.48
22:HB:1088:A:O2'	22:HB:1089:C:H5'	2.13	0.48
22:HB:1169:C:H6	22:HB:1169:C:O5'	1.97	0.48
22:HB:1325:U:C5	41:HU:61:LYS:CB	2.86	0.48
22:HB:1370:U:H2'	22:HB:1371:G:C8	2.47	0.48
22:HB:1374:G:H4'	47:H1:52:THR:O	2.14	0.48
22:HB:1397:A:C2	22:HB:1418:C:C4	3.02	0.48
22:HB:1616:C:H2'	22:HB:1617:G:C8	2.49	0.48
22:HB:1719:G:H2'	22:HB:1720:G:H8	1.77	0.48
22:HB:1880:G:H2'	22:HB:1881:U:C6	2.49	0.48
22:HB:2528:G:C6	22:HB:2539:C:C4	3.01	0.48
22:HB:3094:A:H2'	22:HB:3095:A:O4'	2.13	0.48
22:HB:79:G:H4'	22:HB:356:A:H2	1.79	0.48
22:HB:406:G:H2'	22:HB:407:A:O4'	2.14	0.48
22:HB:525:A:H3'	22:HB:526:C:C6	2.49	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:HB:561:U:O5'	22:HB:1233:A:N1	2.47	0.48
22:HB:631:G:H4'	22:HB:632:A:C2	2.49	0.48
22:HB:967:G:C1'	22:HB:970:A:H62	2.26	0.48
22:HB:1816:G:H22	24:HD:252:LYS:CE	2.26	0.48
24:HD:69:ARG:CB	24:HD:130:ALA:HB2	2.44	0.48
25:HE:22:PRO:HD3	25:HE:185:LYS:HG3	1.96	0.48
25:HE:4:ILE:HD12	25:HE:197:VAL:HG13	1.95	0.48
26:HF:138:LYS:C	26:HF:140:ASN:H	2.17	0.48
28:HH:25:LYS:H	28:HH:35:VAL:HG11	1.78	0.48
30:HJ:90:THR:O	30:HJ:91:PRO:C	2.52	0.48
31:HK:156:HIS:CB	31:HK:157:PRO:HD2	2.44	0.48
22:HB:1743:C:H41	37:HQ:125:MET:HG3	1.78	0.48
37:HQ:36:ASP:CG	37:HQ:37:THR:N	2.67	0.48
37:HQ:72:SER:HA	37:HQ:79:ARG:O	2.13	0.48
22:HB:1020:A:C4'	38:HR:62:ILE:HD13	2.43	0.48
39:HS:20:ILE:CG2	39:HS:92:ALA:HB1	2.43	0.48
22:HB:1338:G:O5'	40:HT:106:LEU:O	2.32	0.48
22:HB:71:A:O4'	45:HY:54:ASN:C	2.52	0.48
27:FG:179:LYS:HB2	1:IA:1021:G:C5'	2.44	0.48
1:IA:1026:G:H3'	1:IA:1035:A:H61	1.79	0.48
1:IA:1288:A:H2'	1:IA:1289:A:O4'	2.14	0.48
1:IA:250:A:H4'	1:IA:251:G:O5'	2.13	0.48
1:IA:555:C:OP2	12:IL:20:LYS:NZ	2.45	0.48
1:IA:676:A:O2'	11:IK:115:PRO:CG	2.53	0.48
1:IA:709:G:H2'	1:IA:710:G:C8	2.49	0.48
2:IB:178:ARG:HD3	2:IB:196:LEU:HD22	1.96	0.48
3:IC:19:GLU:OE2	14:IN:52:GLN:NE2	2.43	0.48
3:IC:91:LEU:HD23	3:IC:92:ALA:N	2.29	0.48
4:ID:21:LEU:HD21	4:ID:67:ILE:HG23	1.95	0.48
1:IA:589:C:C4'	8:IH:31:PHE:H	2.20	0.48
10:IJ:9:ARG:O	10:IJ:94:VAL:HG22	2.14	0.48
1:IA:668:G:H1'	15:IO:46:HIS:HD2	0.41	0.48
16:IP:34:GLU:HG3	16:IP:35:LYS:N	2.29	0.48
13:IM:86:CYS:N	19:IS:74:PHE:HD2	2.12	0.48
20:IT:26:ASN:HB3	20:IT:30:LYS:HZ1	1.78	0.48
20:IT:88:VAL:HG21	20:IT:92:LEU:HD12	1.96	0.48
47:J1:12:CYS:O	47:J1:13:LYS:HG2	2.13	0.48
22:JB:2209:G:H5''	47:J1:39:VAL:HA	1.95	0.48
53:J7:64:VAL:HG23	53:J7:152:LYS:HG2	1.96	0.48
22:JB:3124:G:O4'	53:J7:62:LYS:CE	2.61	0.48
23:JA:44:C:H5'	27:JG:66:ILE:CG1	2.43	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:JA:90:C:C2'	23:JA:91:A:H5'	2.44	0.48
22:JB:1029:C:H5''	22:JB:1046:U:O2'	2.13	0.48
22:JB:1616:C:H2'	22:JB:1617:G:C8	2.49	0.48
22:JB:1710:U:H2'	24:JD:15:GLN:NE2	2.29	0.48
22:JB:1861:G:H8	53:J7:199:ASN:ND2	2.12	0.48
22:JB:1928:G:H2'	22:JB:1929:U:C6	2.49	0.48
22:JB:2240:C:O3'	44:JX:16:SER:CB	2.62	0.48
22:JB:2453:C:H2'	22:JB:2454:C:O4'	2.14	0.48
22:JB:2821:G:H5''	37:JQ:106:TYR:CE2	2.45	0.48
22:JB:491:A:H5''	42:JV:72:ARG:CD	2.44	0.48
22:JB:959:C:H2'	22:JB:960:U:C6	2.49	0.48
22:JB:967:G:C1'	22:JB:970:A:H62	2.26	0.48
24:JD:69:ARG:HD2	24:JD:72:LYS:CD	2.44	0.48
25:JE:1:MET:H1	25:JE:200:SER:HB2	1.78	0.48
25:JE:1:MET:N	25:JE:200:SER:HB2	2.29	0.48
27:JG:134:GLU:HG3	27:JG:150:ARG:N	2.28	0.48
28:JH:127:GLU:HB3	28:JH:130:ARG:NH1	2.29	0.48
28:JH:73:ALA:O	28:JH:77:LYS:HD2	2.14	0.48
30:JJ:125:ASN:ND2	30:JJ:126:THR:N	2.62	0.48
30:JJ:90:THR:O	30:JJ:91:PRO:C	2.52	0.48
32:JL:22:ILE:HD13	32:JL:22:ILE:O	2.13	0.48
33:JM:127:ALA:HA	33:JM:130:ILE:HG23	1.96	0.48
34:JN:27:TYR:CE2	34:JN:36:ILE:HG21	2.49	0.48
22:JB:1288:A:C2	35:JO:13:ASN:HB2	2.49	0.48
36:JP:8:ARG:NH2	36:JP:9:ARG:HE	2.12	0.48
22:JB:1741:G:C6	37:JQ:125:MET:HE1	2.40	0.48
37:JQ:72:SER:HA	37:JQ:79:ARG:O	2.13	0.48
22:JB:541:C:O2'	38:JR:25:TRP:CE2	2.65	0.48
38:JR:35:ALA:O	38:JR:39:LEU:HD23	2.14	0.48
39:JS:69:ILE:HD13	39:JS:90:PHE:HB3	1.96	0.48
40:JT:34:SER:C	40:JT:36:ARG:H	2.17	0.48
42:JV:56:LYS:HE3	42:JV:67:GLY:HA3	1.96	0.48
43:JW:13:LYS:C	43:JW:14:LEU:HD22	2.34	0.48
46:JZ:53:VAL:HG13	46:JZ:54:GLN:N	2.29	0.48
1:AA:1202:G:N3	1:AA:1202:G:C2'	2.75	0.47
1:AA:1375:A:H2'	1:AA:1376:U:O4'	2.14	0.47
1:AA:215:C:H2'	1:AA:216:C:C6	2.49	0.47
1:AA:243:A:H1'	1:AA:244:U:OP2	2.14	0.47
1:AA:699:C:H2'	1:AA:700:G:C5'	2.44	0.47
1:AA:702:A:H5'	1:AA:703:G:C8	2.49	0.47
1:AA:737:A:H2'	1:AA:738:C:C5	2.49	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:759:A:H61	17:AQ:98:LEU:HD11	1.67	0.47
1:AA:812:C:H4'	1:AA:813:U:H5'	1.96	0.47
1:AA:857:C:H2'	1:AA:858:G:H8	1.78	0.47
1:AA:865:A:C2	1:AA:918:A:H4'	2.49	0.47
1:AA:921:U:O2	5:AE:20:GLN:HA	2.14	0.47
3:AC:20:SER:O	14:AN:54:PRO:HB3	2.14	0.47
3:AC:91:LEU:HD23	3:AC:92:ALA:N	2.28	0.47
1:AA:622:A:P	4:AD:139:ARG:HH21	2.34	0.47
5:AE:141:GLN:HA	5:AE:143:ARG:NH2	2.29	0.47
8:AH:41:ARG:HG2	8:AH:120:THR:HG21	1.95	0.47
8:AH:134:ILE:HG22	8:AH:135:CYS:SG	2.54	0.47
10:AJ:64:GLU:HG3	14:AN:57:ARG:C	2.33	0.47
15:AO:67:LEU:HB3	15:AO:71:GLN:NE2	2.29	0.47
16:AP:71:ARG:HE	16:AP:74:LEU:HD12	1.79	0.47
47:B1:10:VAL:H	47:B1:11:PRO:HD3	1.79	0.47
22:BB:166:G:C3'	47:B1:36:TRP:CZ2	2.83	0.47
53:B7:110:PHE:HE1	53:B7:133:LYS:HD3	1.78	0.47
53:B7:64:VAL:HG23	53:B7:152:LYS:HG2	1.96	0.47
22:BB:321:A:N1	22:BB:1223:G:N1	2.62	0.47
22:BB:2492:G:H3'	22:BB:2493:U:C5	2.49	0.47
22:BB:2526:U:H2'	22:BB:2527:G:C8	2.49	0.47
22:BB:2057:U:C2'	22:BB:2576:G:H21	2.27	0.47
22:BB:2614:A:C4'	25:BE:77:ILE:CD1	2.91	0.47
22:BB:2617:G:H1	22:BB:2755:A:H2'	1.79	0.47
22:BB:2847:G:N2	35:BO:17:ARG:HH11	2.05	0.47
22:BB:330:C:OP2	26:BF:131:LYS:CE	2.59	0.47
22:BB:425:A:N7	22:BB:2391:A:C2	2.82	0.47
22:BB:575:U:N3	39:BS:79:GLN:OE1	2.47	0.47
22:BB:794:A:H5'	22:BB:795:A:C2	2.49	0.47
24:BD:225:ALA:HB1	24:BD:227:ASN:OD1	2.14	0.47
24:BD:48:ARG:O	24:BD:49:ILE:HD13	2.14	0.47
25:BE:1:MET:N	25:BE:200:SER:HB2	2.29	0.47
25:BE:4:ILE:HD12	25:BE:197:VAL:HG13	1.95	0.47
26:BF:151:VAL:HG21	26:BF:188:ILE:HD12	1.96	0.47
26:BF:118:VAL:HA	26:BF:189:ASP:HB3	1.96	0.47
29:BI:4:ILE:HA	29:BI:15:GLY:HA2	1.96	0.47
29:BI:5:LEU:HD11	29:BI:7:GLU:O	2.14	0.47
31:BK:84:ASN:O	31:BK:152:ALA:HA	2.14	0.47
32:BL:76:ARG:HB3	32:BL:90:ARG:NH2	2.28	0.47
36:BP:96:TYR:CD1	36:BP:100:VAL:HB	2.49	0.47
37:BQ:110:LEU:HA	37:BQ:113:LYS:HG3	1.94	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:BQ:63:ARG:HA	37:BQ:63:ARG:NE	2.27	0.47
38:BR:31:GLN:HG3	38:BR:34:ASN:HB2	1.96	0.47
38:BR:37:GLN:HA	38:BR:40:LEU:HD23	1.96	0.47
39:BS:23:GLU:HA	39:BS:93:ILE:CD1	2.43	0.47
40:BT:73:ASN:HD22	40:BT:73:ASN:N	2.10	0.47
42:BV:106:VAL:HG22	42:BV:113:THR:HB	1.96	0.47
43:BW:84:TYR:CE1	43:BW:128:ARG:CG	2.96	0.47
1:CA:1375:A:H2'	1:CA:1376:U:O4'	2.14	0.47
1:CA:153:C:H2'	1:CA:154:C:C6	2.49	0.47
1:CA:339:C:N3	1:CA:350:G:N1	2.61	0.47
1:CA:737:A:H2'	1:CA:738:C:C5	2.49	0.47
1:CA:865:A:C2	1:CA:918:A:H4'	2.49	0.47
2:CB:213:LEU:HD23	2:CB:213:LEU:O	2.13	0.47
3:CC:32:LEU:HD23	3:CC:33:LEU:N	2.28	0.47
3:CC:91:LEU:HD23	3:CC:92:ALA:N	2.28	0.47
1:CA:438:G:OP1	4:CD:120:LEU:CD2	2.62	0.47
5:CE:149:GLU:OE2	5:CE:152:ARG:HD3	2.14	0.47
8:CH:14:ARG:CZ	8:CH:83:ILE:HG23	2.43	0.47
11:CK:23:ALA:HB3	11:CK:86:GLY:O	2.13	0.47
1:CA:529:G:N2	12:CL:49:ASN:CB	2.31	0.47
1:CA:230:G:C3'	16:CP:26:ARG:NH2	2.77	0.47
22:DB:1040:A:O3'	34:DN:125:LYS:NZ	2.44	0.47
22:DB:1396:C:H4'	22:DB:1397:A:C5	2.49	0.47
22:DB:1629:G:H5'	22:DB:1630:A:H5''	1.96	0.47
22:DB:176:A:C2'	47:D1:30:GLU:HB2	2.43	0.47
22:DB:2284:U:H3'	22:DB:2286:G:H8	1.76	0.47
22:DB:2422:C:H5''	26:DF:62:LYS:CE	2.39	0.47
22:DB:1476:G:O2'	22:DB:2681:A:C2	2.65	0.47
22:DB:706:A:H4'	22:DB:1366:A:H1'	1.96	0.47
22:DB:718:A:N6	22:DB:739:G:H1'	2.28	0.47
22:DB:808:C:H2'	22:DB:809:C:C6	2.49	0.47
22:DB:861:G:O2'	22:DB:945:G:H5'	2.13	0.47
22:DB:954:U:OP1	33:DM:36:GLY:HA3	2.14	0.47
24:DD:11:PRO:O	24:DD:13:ARG:HG3	2.14	0.47
22:DB:743:A:H5''	24:DD:17:THR:HG21	1.96	0.47
24:DD:221:GLN:N	24:DD:222:ARG:NH1	2.62	0.47
22:DB:2659:C:O2	25:DE:187:ALA:HB2	2.15	0.47
22:DB:2786:G:H1'	25:DE:59:VAL:CG1	2.43	0.47
27:DG:170:LEU:HD12	27:DG:170:LEU:N	2.29	0.47
22:DB:2284:U:O2'	27:DG:40:LEU:HD22	2.13	0.47
28:DH:25:LYS:HZ3	28:DH:32:GLU:HA	1.79	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:DJ:125:ASN:ND2	30:DJ:126:THR:N	2.62	0.47
35:DO:13:ASN:O	35:DO:16:ALA:HB3	2.14	0.47
36:DP:94:TYR:CD1	36:DP:95:LYS:HG2	2.49	0.47
1:CA:1433:A:C1'	37:DQ:116:ARG:HE	2.27	0.47
22:DB:1163:C:H5''	38:DR:80:ILE:HB	1.96	0.47
22:DB:503:G:O2'	40:DT:28:ALA:C	2.52	0.47
1:EA:1180:A:H5''	9:EI:103:THR:HG22	1.94	0.47
1:EA:1201:A:H1'	1:EA:1202:G:OP2	2.13	0.47
1:EA:1375:A:H2'	1:EA:1376:U:O4'	2.14	0.47
1:EA:1429:C:H2'	1:EA:1430:C:C6	2.49	0.47
1:EA:357:G:H2'	1:EA:358:U:C6	2.49	0.47
1:EA:500:G:H1'	1:EA:547:A:N1	2.29	0.47
1:EA:520:A:O2'	12:EL:73:GLU:CD	2.42	0.47
1:EA:812:C:H4'	1:EA:813:U:H5'	1.96	0.47
1:EA:921:U:H2'	1:EA:922:G:C8	2.49	0.47
2:EB:73:THR:HG21	2:EB:95:GLN:HA	1.96	0.47
2:EB:181:PHE:CE1	5:EE:64:ARG:CZ	2.97	0.47
7:EG:46:ALA:HB2	7:EG:120:ILE:HD13	1.96	0.47
7:EG:49:ILE:HD13	7:EG:121:ALA:CA	2.44	0.47
10:EJ:30:SER:CB	10:EJ:80:LYS:HE2	2.38	0.47
1:EA:778:G:H1'	11:EK:119:CYS:HB3	1.96	0.47
15:EO:67:LEU:HB3	15:EO:71:GLN:NE2	2.29	0.47
17:EQ:10:VAL:HB	17:EQ:55:ASP:HB2	1.95	0.47
17:EQ:9:VAL:H	17:EQ:21:VAL:HG12	1.76	0.47
1:EA:128:G:C8	17:EQ:61:GLU:OE2	2.65	0.47
18:ER:54:ARG:N	18:ER:54:ARG:HD3	2.27	0.47
18:ER:73:ALA:HB1	18:ER:78:LEU:HB3	1.95	0.47
1:EA:1225:A:P	19:ES:78:ARG:NH2	2.86	0.47
40:FT:56:LEU:HB2	48:F2:28:PRO:HD2	1.90	0.47
22:FB:2262:C:O3'	49:F3:8:ILE:CD1	2.62	0.47
53:F7:174:MSE:HG2	53:F7:175:LYS:HD2	1.96	0.47
23:FA:92:G:H2'	23:FA:93:G:H5'	1.95	0.47
22:FB:123:A:C5'	50:F4:23:LYS:HZ1	2.25	0.47
22:FB:1358:C:H2'	22:FB:1359:G:H5''	1.96	0.47
22:FB:1396:C:H4'	22:FB:1397:A:C5	2.49	0.47
22:FB:1759:A:H2'	22:FB:1760:G:H8	1.78	0.47
22:FB:2260:C:O2'	22:FB:2368:G:C1'	2.62	0.47
22:FB:2258:G:N3	22:FB:2306:A:H1'	2.29	0.47
22:FB:2461:G:H1	34:FN:54:VAL:CG1	2.27	0.47
22:FB:2463:G:O2'	34:FN:121:LEU:HB3	2.14	0.47
22:FB:2679:G:C2'	22:FB:2680:U:H5''	2.44	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:FB:2873:G:H2'	22:FB:2874:A:H8	1.78	0.47
22:FB:339:U:O4'	42:FV:77:HIS:ND1	2.47	0.47
22:FB:402:A:C5	22:FB:2392:G:H4'	2.48	0.47
22:FB:794:A:H5'	22:FB:795:A:C2	2.49	0.47
22:FB:861:G:O2'	22:FB:945:G:H5'	2.13	0.47
22:FB:935:C:H2'	22:FB:936:A:C8	2.49	0.47
22:FB:1835:C:H5''	24:FD:255:LYS:HZ2	1.77	0.47
28:FH:54:ARG:N	28:FH:55:PRO:HD3	2.28	0.47
30:FJ:21:PRO:O	30:FJ:22:PRO:O	2.32	0.47
31:FK:30:LYS:HZ3	31:FK:30:LYS:N	2.12	0.47
31:FK:67:ARG:HD2	31:FK:70:PHE:HB2	1.95	0.47
33:FM:22:GLY:H	33:FM:23:PRO:HD2	1.79	0.47
34:FN:36:ILE:HD13	34:FN:36:ILE:N	2.28	0.47
35:FO:103:ARG:HH11	35:FO:108:VAL:HG11	1.79	0.47
35:FO:68:GLN:NE2	35:FO:68:GLN:H	2.12	0.47
36:FP:29:LEU:HD22	36:FP:31:VAL:HG23	1.96	0.47
36:FP:94:TYR:CD1	36:FP:95:LYS:HG2	2.49	0.47
39:FS:62:GLU:HB2	39:FS:97:GLY:H	1.78	0.47
40:FT:90:LEU:HD12	40:FT:128:VAL:HB	1.96	0.47
43:FW:64:ALA:C	43:FW:65:LEU:HD22	2.34	0.47
22:FB:2315:A:C2	44:FX:70:ILE:HD13	2.49	0.47
1:GA:108:G:H8	20:GT:16:HIS:HB2	1.79	0.47
1:GA:1100:C:O2'	1:GA:1101:A:H5'	2.14	0.47
1:GA:815:A:N1	1:GA:1527:C:O2	2.44	0.47
1:GA:659:U:C5'	15:GO:5:LYS:CE	2.86	0.47
1:GA:655:A:N6	1:GA:752:G:N2	2.61	0.47
1:GA:800:G:HO2'	1:GA:801:U:H6	1.61	0.47
2:GB:142:LEU:C	2:GB:146:GLN:HE21	2.17	0.47
4:GD:128:VAL:HG12	4:GD:129:ASN:N	2.29	0.47
6:GF:19:LEU:HD21	6:GF:59:TYR:CE2	2.48	0.47
8:GH:26:VAL:O	8:GH:59:LEU:HD12	2.14	0.47
8:GH:9:MET:HE1	8:GH:36:LEU:HD11	1.96	0.47
10:GJ:9:ARG:O	10:GJ:94:VAL:HG22	2.14	0.47
16:GP:67:THR:H	16:GP:70:ALA:HB3	1.79	0.47
47:H1:6:HIS:N	47:H1:7:PRO:CD	2.77	0.47
48:H2:33:CYS:H	48:H2:40:LYS:HB2	1.79	0.47
22:HB:2859:U:O2	48:H2:34:PRO:CB	2.62	0.47
48:H2:4:HIS:CG	48:H2:5:PRO:HD2	2.49	0.47
50:H4:21:ARG:HB2	50:H4:31:LEU:HD22	1.94	0.47
22:HB:3123:G:O2'	53:H7:168:PHE:CD1	2.67	0.47
23:HA:96:C:H2'	23:HA:97:C:C6	2.49	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:HB:1029:C:H3'	22:HB:1030:U:C5'	2.43	0.47
22:HB:1928:G:H2'	22:HB:1929:U:C6	2.49	0.47
22:HB:1986:G:H2'	22:HB:1987:G:H8	1.79	0.47
22:HB:1385:C:C1'	22:HB:2193:C:C4	2.92	0.47
22:HB:2621:G:H2'	22:HB:2622:G:H8	1.78	0.47
22:HB:2771:C:O2'	22:HB:2772:U:H5'	2.13	0.47
22:HB:3170:A:C1'	53:HB:130:PRO:HG3	2.44	0.47
22:HB:238:G:C3'	22:HB:620:G:H5'	2.44	0.47
22:HB:722:C:H2'	22:HB:723:C:C6	2.49	0.47
24:HD:11:PRO:O	24:HD:13:ARG:HG3	2.14	0.47
24:HD:225:ALA:HB1	24:HD:227:ASN:OD1	2.14	0.47
25:HE:107:THR:HA	25:HE:164:ARG:HH22	1.78	0.47
26:HF:118:VAL:HA	26:HF:189:ASP:HB3	1.95	0.47
27:HG:170:LEU:HD12	27:HG:170:LEU:N	2.29	0.47
27:HG:14:PRO:CB	27:HG:18:GLN:HE22	2.23	0.47
31:HK:67:ARG:HA	31:HK:70:PHE:CD2	2.48	0.47
31:HK:67:ARG:HD2	31:HK:70:PHE:HB2	1.95	0.47
31:HK:43:VAL:HG13	31:HK:81:VAL:HB	1.95	0.47
33:HM:122:VAL:HG13	33:HM:123:ASP:N	2.28	0.47
34:HN:35:LEU:HA	34:HN:128:ILE:O	2.13	0.47
35:HO:68:GLN:NE2	35:HO:68:GLN:H	2.12	0.47
37:HQ:44:ARG:HG2	37:HQ:45:THR:H	1.79	0.47
38:HR:31:GLN:HG3	38:HR:34:ASN:HB2	1.96	0.47
41:HU:62:ARG:HD3	41:HU:71:GLN:O	2.13	0.47
42:HV:18:LYS:NZ	42:HV:18:LYS:HB3	2.29	0.47
42:HV:56:LYS:HE3	42:HV:67:GLY:HA3	1.96	0.47
27:FG:179:LYS:CD	1:IA:1021:G:C2'	2.85	0.47
1:IA:1100:C:O2'	1:IA:1101:A:H5'	2.14	0.47
1:IA:1262:C:H2'	1:IA:1263:C:H6	1.79	0.47
1:IA:208:U:O2'	1:IA:215:C:H5'	2.14	0.47
1:IA:812:C:H4'	1:IA:813:U:H5'	1.96	0.47
8:IH:110:ALA:HB2	8:IH:136:GLU:HA	1.94	0.47
9:II:11:LYS:H	9:II:104:ARG:NE	2.09	0.47
13:IM:6:GLY:O	13:IM:8:GLU:HG2	2.14	0.47
10:IJ:63:PHE:CA	14:IN:59:ALA:H	2.27	0.47
1:IA:752:G:P	15:IO:77:ARG:HH22	2.37	0.47
16:IP:31:LYS:HG2	16:IP:32:TYR:H	1.78	0.47
16:IP:39:TYR:O	16:IP:41:PRO:HD3	2.14	0.47
17:IQ:36:ILE:HG13	17:IQ:37:LYS:H	1.79	0.47
51:J5:34:THR:HA	51:J5:36:LYS:HZ1	1.78	0.47
22:JB:3171:A:P	53:J7:128:LEU:HD21	2.53	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:JB:1001:A:H1'	22:JB:1168:G:OP1	2.13	0.47
22:JB:1169:C:H6	22:JB:1169:C:O5'	1.97	0.47
22:JB:1478:U:H2'	22:JB:1479:G:H5'	1.96	0.47
22:JB:1672:A:H3'	22:JB:1673:C:C6	2.49	0.47
22:JB:1812:U:N3	24:JD:199:ALA:O	2.46	0.47
22:JB:1923:U:O2'	22:JB:1924:C:H6	1.97	0.47
22:JB:201:G:N7	22:JB:433:G:H5'	2.29	0.47
22:JB:2075:U:OP1	22:JB:2182:A:C4	2.66	0.47
22:JB:2679:G:C2'	22:JB:2680:U:H5''	2.44	0.47
22:JB:2771:C:O2'	22:JB:2772:U:H5'	2.13	0.47
22:JB:525:A:H3'	22:JB:526:C:C6	2.49	0.47
22:JB:596:C:N3	33:JM:44:GLY:C	2.68	0.47
24:JD:106:LEU:HD22	24:JD:106:LEU:N	2.29	0.47
24:JD:215:LEU:HD12	24:JD:215:LEU:N	2.29	0.47
24:JD:225:ALA:HB1	24:JD:227:ASN:OD1	2.14	0.47
25:JE:107:THR:HA	25:JE:164:ARG:HH22	1.77	0.47
25:JE:4:ILE:HD12	25:JE:197:VAL:HG13	1.95	0.47
22:JB:687:G:C4'	26:JF:70:GLY:HA3	2.44	0.47
27:JG:170:LEU:N	27:JG:170:LEU:HD12	2.29	0.47
28:JH:148:VAL:HB	28:JH:152:ARG:NE	2.25	0.47
28:JH:152:ARG:HH12	28:JH:161:GLY:HA3	1.79	0.47
31:JK:116:ARG:HA	31:JK:116:ARG:NE	2.29	0.47
31:JK:67:ARG:HD2	31:JK:70:PHE:HB2	1.95	0.47
22:JB:2629:U:H5''	32:JL:29:ILE:HD12	1.95	0.47
32:JL:73:VAL:HG11	32:JL:99:ILE:HB	1.96	0.47
34:JN:68:ARG:HD2	34:JN:101:GLY:HA3	1.96	0.47
34:JN:44:LYS:O	34:JN:46:ASN:N	2.46	0.47
22:JB:2701:A:H2'	35:JO:5:LYS:NZ	2.29	0.47
35:JO:96:ARG:HD2	35:JO:96:ARG:H	1.78	0.47
43:JW:88:TYR:H	43:JW:90:GLU:N	2.12	0.47
1:AA:1111:A:H2'	1:AA:1112:C:C6	2.49	0.47
1:AA:1154:G:H2'	1:AA:1155:G:C8	2.49	0.47
1:AA:1440:C:OP1	20:AT:38:LYS:HE2	2.13	0.47
1:AA:1528:U:H5'	1:AA:1529:G:H21	1.78	0.47
1:AA:273:A:C4	17:AQ:16:GLN:CB	2.97	0.47
3:AC:43:LEU:O	3:AC:46:GLU:HB2	2.13	0.47
7:AG:15:ASP:HB3	7:AG:20:ASP:H	1.78	0.47
10:AJ:47:PHE:HB2	10:AJ:63:PHE:CB	2.39	0.47
13:AM:99:ARG:NH2	19:AS:2:PRO:HD3	2.29	0.47
15:AO:7:GLU:O	15:AO:10:LYS:HG2	2.14	0.47
16:AP:39:TYR:O	16:AP:41:PRO:HD3	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
53:B7:111:LEU:HD13	53:B7:148:ILE:HA	1.95	0.47
23:BA:59:A:C1'	27:BG:24:SER:OG	2.62	0.47
22:BB:1018:C:O3'	31:BK:136:PRO:CA	2.56	0.47
22:BB:1071:U:O4	30:BJ:130:THR:CA	2.62	0.47
22:BB:1136:G:O5'	52:B6:4:ARG:CB	2.62	0.47
22:BB:54:G:N3	22:BB:124:A:C2	2.81	0.47
22:BB:1378:A:O3'	47:B1:4:ASP:OD1	2.32	0.47
22:BB:1401:G:H2'	22:BB:1402:G:H8	1.80	0.47
22:BB:1461:C:HO2'	22:BB:1561:A:C3'	2.27	0.47
22:BB:1759:A:H2'	22:BB:1760:G:H8	1.79	0.47
22:BB:1809:G:O3'	24:BD:157:ARG:NH2	2.44	0.47
22:BB:1975:G:H4'	22:BB:1976:U:H5	1.79	0.47
22:BB:174:A:C2	22:BB:2223:U:H5''	2.48	0.47
22:BB:2857:C:OP1	35:BO:96:ARG:CB	2.63	0.47
22:BB:3877:A:C6	22:BB:1862:C:N3	2.82	0.47
22:BB:538:A:H4'	22:BB:566:U:OP1	2.14	0.47
22:BB:717:G:H2'	22:BB:739:G:N2	2.27	0.47
22:BB:795:A:N6	24:BD:222:ARG:NE	2.61	0.47
22:BB:935:C:H2'	22:BB:936:A:C8	2.49	0.47
24:BD:102:LYS:O	24:BD:103:ARG:HB2	2.13	0.47
24:BD:145:LEU:O	24:BD:154:GLN:HB2	2.14	0.47
27:BG:72:LYS:HB2	27:BG:80:ARG:O	2.14	0.47
28:BH:98:LEU:HD23	28:BH:125:VAL:HG23	1.95	0.47
30:BJ:72:PRO:C	30:BJ:74:MET:H	2.17	0.47
31:BK:156:HIS:CB	31:BK:157:PRO:HD2	2.44	0.47
32:BL:77:THR:H	32:BL:90:ARG:HH22	1.61	0.47
35:BO:13:ASN:O	35:BO:16:ALA:HB3	2.14	0.47
37:BQ:44:ARG:HG2	37:BQ:45:THR:H	1.79	0.47
40:BT:106:LEU:HA	40:BT:117:ILE:CD1	2.42	0.47
22:BB:2365:U:C1'	44:BX:37:LEU:CD2	2.60	0.47
46:BZ:53:VAL:HG13	46:BZ:54:GLN:N	2.29	0.47
1:CA:23:C:H4'	12:CL:23:LYS:HZ1	1.79	0.47
1:CA:674:G:H5'	6:CF:50:TYR:CZ	2.40	0.47
1:CA:699:C:H2'	1:CA:700:G:C5'	2.44	0.47
1:CA:700:G:H5''	1:CA:704:A:H1'	1.96	0.47
1:CA:1104:G:O4'	2:CB:111:ARG:HD2	2.13	0.47
2:CB:155:LEU:HD22	2:CB:157:ARG:H	1.78	0.47
1:CA:737:A:H5''	6:CF:92:LYS:HZ3	1.80	0.47
1:CA:932:C:C3'	7:CG:3:ARG:HD2	2.32	0.47
11:CK:48:ILE:HG22	11:CK:49:GLY:H	1.78	0.47
1:CA:735:C:H5''	18:CR:68:LYS:HD3	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:CT:88:VAL:HG21	20:CT:92:LEU:HD12	1.96	0.47
47:D1:22:MET:HE1	47:D1:29:PRO:HA	1.96	0.47
22:DB:123:A:C2'	50:D4:13:ALA:HB1	2.44	0.47
22:DB:1166:A:N1	22:DB:1168:G:C8	2.82	0.47
22:DB:1291:G:OP1	35:DO:35:GLN:C	2.48	0.47
22:DB:1644:G:N2	22:DB:1645:U:H3	2.12	0.47
22:DB:1681:A:H61	22:DB:1979:C:H42	1.62	0.47
1:CA:1517:G:H8	22:DB:1902:A:O3'	1.94	0.47
22:DB:1958:G:H3'	22:DB:1959:U:C6	2.49	0.47
22:DB:1986:G:H2'	22:DB:1987:G:H8	1.79	0.47
22:DB:2202:G:H2'	22:DB:2203:G:O4'	2.14	0.47
22:DB:2057:U:C2'	22:DB:2576:G:H21	2.27	0.47
22:DB:2708:U:C5'	25:DE:21:ILE:CD1	2.62	0.47
22:DB:2738:A:H61	28:DH:71:LEU:CG	2.23	0.47
22:DB:510:G:N3	22:DB:513:A:H8	2.10	0.47
22:DB:529:U:H5'	40:DT:39:ARG:HG2	1.96	0.47
22:DB:607:C:O2'	33:DM:21:ARG:C	2.53	0.47
22:DB:79:G:H2'	22:DB:80:A:C8	2.46	0.47
22:DB:932:G:H2'	22:DB:933:G:C8	2.49	0.47
24:DD:243:GLY:N	24:DD:244:ARG:HH21	2.11	0.47
22:DB:2557:G:H1'	25:DE:133:LYS:HD2	1.48	0.47
25:DE:22:PRO:HD3	25:DE:185:LYS:HG3	1.96	0.47
25:DE:27:LEU:HD22	25:DE:28:ALA:N	2.29	0.47
26:DF:118:VAL:HA	26:DF:189:ASP:HB3	1.96	0.47
27:DG:72:LYS:HB2	27:DG:80:ARG:O	2.14	0.47
31:DK:84:ASN:O	31:DK:152:ALA:HA	2.13	0.47
32:DL:73:VAL:HG11	32:DL:99:ILE:HB	1.96	0.47
32:DL:77:THR:H	32:DL:90:ARG:HH22	1.61	0.47
32:DL:73:VAL:CG2	32:DL:99:ILE:HB	2.43	0.47
37:DQ:72:SER:HA	37:DQ:79:ARG:O	2.13	0.47
37:DQ:72:SER:HB2	37:DQ:78:GLU:C	2.35	0.47
22:DB:589:C:C3'	38:DR:33:ARG:HG2	2.42	0.47
40:DT:27:VAL:CG2	40:DT:125:THR:H	2.28	0.47
22:DB:338:G:C5'	42:DV:9:HIS:HD2	2.26	0.47
23:DA:107:C:C4'	43:DW:88:TYR:CA	2.92	0.47
44:DX:32:LYS:CG	44:DX:33:ALA:H	2.26	0.47
45:DY:25:LEU:HD11	45:DY:42:ARG:O	2.14	0.47
45:DY:50:VAL:CG1	45:DY:54:ASN:HD21	2.27	0.47
45:DY:56:VAL:HG23	45:DY:56:VAL:O	2.14	0.47
1:EA:1111:A:H2'	1:EA:1112:C:C6	2.49	0.47
1:EA:1210:C:H2'	1:EA:1211:U:O4'	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:EA:1275:A:C2	1:EA:1276:G:H1'	2.48	0.47
1:EA:640:A:H3'	8:EH:116:LYS:HB3	1.96	0.47
1:EA:702:A:H5'	1:EA:703:G:C8	2.49	0.47
1:EA:865:A:C2	1:EA:918:A:H4'	2.49	0.47
1:EA:936:C:H2'	1:EA:937:A:C8	2.48	0.47
3:EC:182:ILE:HG23	3:EC:202:ILE:O	2.14	0.47
3:EC:53:ALA:HA	3:EC:114:PRO:HB2	1.96	0.47
4:ED:103:ASN:HD21	4:ED:107:ARG:NE	2.13	0.47
1:EA:1373:G:O4'	7:EG:34:GLY:O	2.32	0.47
10:EJ:79:ARG:HD3	10:EJ:80:LYS:N	2.29	0.47
13:EM:56:LEU:HA	13:EM:60:VAL:HG23	1.95	0.47
13:EM:8:GLU:OE1	13:EM:22:ILE:HG23	2.14	0.47
16:EP:7:ALA:O	16:EP:17:TYR:HA	2.14	0.47
23:FA:96:C:H2'	23:FA:97:C:C6	2.49	0.47
22:FB:1205:G:H2'	22:FB:1206:G:H8	1.78	0.47
22:FB:1234:C:H2'	22:FB:1235:C:C6	2.48	0.47
22:FB:1291:G:OP1	35:FO:35:GLN:C	2.47	0.47
22:FB:1401:G:H2'	22:FB:1402:G:H8	1.79	0.47
22:FB:15:G:OP1	48:F2:20:ARG:O	2.33	0.47
22:FB:1821:A:H61	22:FB:1959:U:H1'	1.79	0.47
22:FB:1986:G:H2'	22:FB:1987:G:H8	1.79	0.47
22:FB:2258:G:O2'	22:FB:2306:A:C4'	2.62	0.47
22:FB:2404:A:O2'	44:FX:2:ALA:HB2	2.14	0.47
22:FB:2339:A:N3	22:FB:2407:G:O6	2.47	0.47
22:FB:2470:U:O2	22:FB:2549:G:P	2.72	0.47
22:FB:2617:G:H1	22:FB:2755:A:H2'	1.79	0.47
22:FB:2789:U:H2'	22:FB:2790:C:H4'	1.96	0.47
22:FB:52:A:H61	22:FB:115:G:H1'	1.77	0.47
22:FB:750:C:H5'	22:FB:779:U:O2'	2.14	0.47
22:FB:793:G:N2	22:FB:796:A:N6	2.61	0.47
24:FD:43:ARG:HB2	24:FD:44:ASN:H	1.37	0.47
24:FD:84:TYR:HB3	24:FD:91:ARG:NH1	2.29	0.47
25:FE:27:LEU:HD22	25:FE:28:ALA:N	2.29	0.47
27:FG:117:ILE:HG22	27:FG:118:ASN:ND2	2.29	0.47
33:FM:46:GLY:O	33:FM:47:ALA:HB3	2.14	0.47
36:FP:8:ARG:NH2	36:FP:9:ARG:HE	2.11	0.47
37:FQ:72:SER:HB2	37:FQ:78:GLU:C	2.34	0.47
22:FB:497:C:H1'	40:FT:77:ALA:O	2.13	0.47
43:FW:86:VAL:CG1	43:FW:92:VAL:O	2.60	0.47
1:GA:1061:G:O4'	10:GJ:56:HIS:ND1	2.47	0.47
1:GA:1238:A:N7	1:GA:1301:U:N3	2.62	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:GA:1393:U:O3'	1:GA:1394:A:OP1	2.32	0.47
3:GC:43:LEU:O	3:GC:46:GLU:HB2	2.13	0.47
9:GI:121:ARG:NH1	9:GI:121:ARG:HG2	2.30	0.47
11:GK:23:ALA:HB1	11:GK:88:GLY:CA	2.44	0.47
13:GM:97:PRO:HA	13:GM:110:ARG:NH1	2.29	0.47
13:GM:87:TYR:HE2	19:GS:3:ARG:HH21	1.61	0.47
1:GA:975:A:H8	14:GN:32:SER:HA	1.79	0.47
1:GA:749:C:O2'	15:GO:22:THR:OG1	2.32	0.47
19:GS:16:LEU:CA	19:GS:19:VAL:HG12	2.43	0.47
20:GT:83:ARG:O	20:GT:87:LYS:HG3	2.13	0.47
22:HB:1067:G:H21	22:HB:1114:A:H61	1.63	0.47
22:HB:1139:A:H62	22:HB:2469:G:P	2.37	0.47
22:HB:1291:G:OP1	35:HO:110:MET:CE	2.62	0.47
22:HB:1401:G:C6	22:HB:1413:U:O4	2.67	0.47
22:HB:1455:C:H2'	22:HB:1456:C:C6	2.48	0.47
22:HB:1468:A:OP1	22:HB:1469:U:H5''	2.14	0.47
22:HB:1478:U:H2'	22:HB:1479:G:H5'	1.97	0.47
22:HB:1485:U:O4	22:HB:1537:U:C5	2.66	0.47
22:HB:1613:G:H3'	22:HB:1614:C:OP1	2.14	0.47
22:HB:2242:C:H2'	22:HB:2243:C:C6	2.48	0.47
22:HB:2284:U:H2'	22:HB:2284:U:O2	2.12	0.47
22:HB:2292:C:H2'	22:HB:2293:G:C8	2.49	0.47
22:HB:2399:C:OP1	51:H5:33:ASN:CG	2.49	0.47
22:HB:2679:G:C2'	22:HB:2680:U:H5''	2.44	0.47
22:HB:2825:A:C4	22:HB:2844:G:H1'	2.49	0.47
22:HB:63:A:C6	22:HB:89:A:C6	3.02	0.47
24:HD:84:TYR:HB3	24:HD:91:ARG:NH1	2.29	0.47
22:HB:2614:A:N3	25:HE:79:ARG:NH1	2.62	0.47
26:HF:5:ASN:OD1	26:HF:117:LEU:HB2	2.14	0.47
27:HG:13:ARG:CB	27:HG:14:PRO:HD3	2.40	0.47
27:HG:70:ALA:O	27:HG:71:LYS:HG2	2.14	0.47
27:HG:87:ILE:O	27:HG:88:LYS:HB2	2.14	0.47
22:HB:1075:C:P	30:HJ:84:ILE:HD11	2.50	0.47
22:HB:2747:C:H1'	31:HK:114:THR:HG23	0.86	0.47
22:HB:2463:G:C5'	34:HN:46:ASN:O	2.59	0.47
39:HS:69:ILE:HD13	39:HS:90:PHE:HB3	1.96	0.47
22:HB:1664:G:C8	40:HT:107:ILE:HD11	2.29	0.47
40:HT:34:SER:C	40:HT:36:ARG:H	2.17	0.47
41:HU:61:LYS:N	41:HU:72:ARG:HD3	2.20	0.47
42:HV:48:VAL:HG13	42:HV:49:GLU:N	2.29	0.47
1:IA:1111:A:H2'	1:IA:1112:C:C6	2.49	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:IA:1289:A:H2'	1:IA:1290:G:H5'	1.95	0.47
1:IA:1320:C:OP1	19:IS:3:ARG:HG2	2.11	0.47
1:IA:1429:C:H2'	1:IA:1430:C:C6	2.49	0.47
1:IA:684:A:C4'	11:IK:38:ASN:ND2	2.65	0.47
1:IA:890:G:H1'	1:IA:906:G:O6	2.14	0.47
1:IA:957:U:H2'	1:IA:959:A:OP2	2.15	0.47
2:IB:142:LEU:C	2:IB:146:GLN:HE21	2.17	0.47
5:IE:149:GLU:OE2	5:IE:152:ARG:HD3	2.14	0.47
7:IG:46:ALA:HB2	7:IG:120:ILE:HD13	1.96	0.47
8:IH:85:ARG:CZ	8:IH:89:PRO:HD3	2.44	0.47
10:IJ:79:ARG:HD3	10:IJ:80:LYS:N	2.29	0.47
15:IO:67:LEU:HB3	15:IO:71:GLN:NE2	2.30	0.47
1:IA:449:C:C1'	16:IP:42:ARG:NE	2.77	0.47
16:IP:71:ARG:HE	16:IP:74:LEU:HD12	1.79	0.47
47:J1:10:VAL:H	47:J1:11:PRO:HD3	1.78	0.47
48:J2:33:CYS:H	48:J2:40:LYS:HB2	1.79	0.47
22:JB:1455:C:H2'	22:JB:1456:C:C6	2.49	0.47
22:JB:1468:A:OP1	22:JB:1469:U:H5''	2.14	0.47
22:JB:1681:A:H61	22:JB:1979:C:H42	1.62	0.47
22:JB:1682:A:H5'	32:JL:92:ASP:OD1	2.14	0.47
22:JB:2242:C:H2'	22:JB:2243:C:C6	2.48	0.47
22:JB:2343:C:H2'	22:JB:2344:G:O4'	2.14	0.47
22:JB:2349:G:H2'	22:JB:2350:G:C1'	2.44	0.47
22:JB:2463:G:O2'	34:JN:47:GLN:NE2	2.48	0.47
22:JB:2542:U:OP1	32:JL:39:GLY:O	2.32	0.47
22:JB:2621:G:H2'	22:JB:2622:G:H8	1.78	0.47
22:JB:2720:A:H5''	52:J6:20:HIS:NE2	2.29	0.47
22:JB:297:A:H2'	22:JB:298:C:O4'	2.14	0.47
22:JB:3093:C:H5''	29:JI:24:TYR:CB	2.35	0.47
22:JB:459:A:C6	22:JB:484:G:H1'	2.49	0.47
22:JB:722:C:H2'	22:JB:723:C:C6	2.49	0.47
22:JB:1809:G:C5'	24:JD:156:ALA:CB	2.84	0.47
24:JD:27:LYS:HB3	24:JD:27:LYS:HZ2	1.78	0.47
22:JB:2599:U:O2'	25:JE:156:MET:O	2.32	0.47
25:JE:23:VAL:HG12	25:JE:24:THR:N	2.30	0.47
22:JB:2615:U:C5'	25:JE:79:ARG:HD2	2.44	0.47
26:JF:151:VAL:HG21	26:JF:188:ILE:HD12	1.96	0.47
26:JF:58:MET:CG	26:JF:69:HIS:HB3	2.43	0.47
22:JB:2637:C:C2'	28:JH:179:THR:HA	2.41	0.47
30:JJ:100:ASN:HB3	30:JJ:103:GLN:CB	2.44	0.47
31:JK:84:ASN:O	31:JK:152:ALA:HA	2.13	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:JL:73:VAL:HG21	32:JL:99:ILE:HD12	1.94	0.47
36:JP:29:LEU:HD22	36:JP:31:VAL:HG23	1.96	0.47
37:JQ:36:ASP:CG	37:JQ:37:THR:N	2.67	0.47
37:JQ:44:ARG:HG2	37:JQ:45:THR:H	1.79	0.47
45:JY:25:LEU:HD11	45:JY:42:ARG:O	2.15	0.47
1:AA:1201:A:H1'	1:AA:1202:G:OP2	2.13	0.47
1:AA:1268:A:H2'	1:AA:1269:A:C8	2.48	0.47
1:AA:1385:G:H2'	1:AA:1386:G:H5'	1.96	0.47
1:AA:1457:A:OP1	20:AT:27:LYS:HE3	2.14	0.47
1:AA:254:G:N3	17:AQ:16:GLN:C	2.68	0.47
1:AA:767:A:H2'	1:AA:768:A:O4'	2.14	0.47
1:AA:585:G:O2'	1:AA:879:C:H5'	2.14	0.47
1:AA:940:C:OP1	7:AG:105:VAL:HG21	2.15	0.47
3:AC:182:ILE:HG23	3:AC:202:ILE:O	2.14	0.47
3:AC:184:TYR:HB2	3:AC:200:ALA:O	2.14	0.47
4:AD:103:ASN:HD21	4:AD:107:ARG:NE	2.12	0.47
1:AA:1298:C:C4	7:AG:114:ARG:HG2	2.49	0.47
8:AH:85:ARG:CZ	8:AH:89:PRO:HD3	2.44	0.47
1:AA:969:A:P	10:AJ:56:HIS:CE1	3.07	0.47
11:AK:23:ALA:HB1	11:AK:88:GLY:CA	2.44	0.47
1:AA:36:C:OP1	12:AL:122:THR:N	2.47	0.47
1:AA:1225:A:H4'	13:AM:103:THR:OG1	2.13	0.47
1:AA:741:G:C4	15:AO:52:SER:OG	2.63	0.47
1:AA:761:G:C5'	17:AQ:102:GLY:HA3	2.37	0.47
12:AL:10:LEU:HD13	17:AQ:32:TYR:HE2	1.66	0.47
17:AQ:36:ILE:HG13	17:AQ:37:LYS:H	1.79	0.47
47:B1:6:HIS:N	47:B1:7:PRO:CD	2.77	0.47
48:B2:33:CYS:H	48:B2:40:LYS:HB2	1.80	0.47
23:BA:96:C:H2'	23:BA:97:C:C6	2.49	0.47
22:BB:1169:C:H6	22:BB:1169:C:O5'	1.97	0.47
22:BB:1205:G:H2'	22:BB:1206:G:H8	1.78	0.47
22:BB:1358:C:H2'	22:BB:1359:G:H5''	1.97	0.47
22:BB:1396:C:H4'	22:BB:1397:A:C5	2.50	0.47
22:BB:1436:G:N2	22:BB:1508:G:C6	2.82	0.47
22:BB:47:G:C2	22:BB:154:U:OP2	2.68	0.47
22:BB:157:G:O3'	50:B4:36:ALA:O	2.33	0.47
22:BB:1616:C:H2'	22:BB:1617:G:C8	2.49	0.47
22:BB:1629:G:H5'	22:BB:1630:A:H5''	1.97	0.47
22:BB:1750:A:N1	22:BB:2676:G:O4'	2.48	0.47
22:BB:176:A:N7	47:B1:30:GLU:HB2	2.25	0.47
22:BB:1774:A:H2'	22:BB:2586:G:H21	1.79	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:BB:1986:G:H2'	22:BB:1987:G:H8	1.79	0.47
22:BB:2202:G:H2'	22:BB:2203:G:O4'	2.14	0.47
22:BB:930:A:H2	22:BB:2247:A:H62	1.63	0.47
22:BB:2463:G:O2'	34:BN:121:LEU:CA	2.62	0.47
22:BB:2500:C:O2	22:BB:2543:A:C2	2.68	0.47
22:BB:2520:A:N3	22:BB:2745:A:C2	2.83	0.47
22:BB:457:C:H5''	38:BR:3:ARG:HB2	1.94	0.47
22:BB:613:A:N1	33:BM:97:ARG:CG	2.77	0.47
22:BB:793:G:N2	22:BB:796:A:N6	2.61	0.47
25:BE:27:LEU:HD22	25:BE:28:ALA:N	2.29	0.47
26:BF:61:GLN:HA	26:BF:67:ALA:HB3	1.95	0.47
22:BB:597:U:C2'	26:BF:84:PHE:HZ	2.25	0.47
27:BG:170:LEU:HD12	27:BG:170:LEU:N	2.29	0.47
28:BH:127:GLU:HB3	28:BH:130:ARG:NH1	2.29	0.47
30:BJ:100:ASN:HB3	30:BJ:103:GLN:CB	2.44	0.47
32:BL:85:ASP:O	37:BQ:83:PHE:CE2	2.66	0.47
32:BL:86:GLY:CA	37:BQ:84:ALA:CA	2.90	0.47
36:BP:8:ARG:NH2	36:BP:9:ARG:HE	2.12	0.47
25:BE:181:LEU:HD23	37:BQ:12:LEU:HD11	1.95	0.47
46:BZ:4:LYS:CD	46:BZ:5:LEU:H	2.20	0.47
1:CA:1154:G:H2'	1:CA:1155:G:C8	2.49	0.47
1:CA:1385:G:H2'	1:CA:1386:G:H5'	1.96	0.47
1:CA:1429:C:H2'	1:CA:1430:C:C6	2.49	0.47
1:CA:1528:U:H5'	1:CA:1529:G:H21	1.77	0.47
1:CA:500:G:H1'	1:CA:547:A:N1	2.30	0.47
1:CA:552:U:C1'	12:CL:31:PRO:HB3	2.43	0.47
1:CA:583:A:N6	17:CQ:105:ALA:HA	2.29	0.47
1:CA:913:A:H4'	1:CA:914:A:O5'	2.14	0.47
1:CA:981:U:O2'	14:CN:31:ARG:NH2	2.47	0.47
2:CB:116:GLU:HG2	2:CB:153:ARG:HD3	1.95	0.47
3:CC:184:TYR:HB2	3:CC:200:ALA:O	2.14	0.47
5:CE:138:ALA:O	5:CE:142:LEU:HG	2.13	0.47
8:CH:26:VAL:O	8:CH:59:LEU:HD12	2.14	0.47
14:CN:15:LYS:HD3	14:CN:16:PHE:N	2.20	0.47
17:CQ:62:SER:HB3	17:CQ:72:ARG:HG3	1.96	0.47
1:CA:1313:U:H3'	19:CS:6:LYS:HD3	1.97	0.47
20:CT:83:ARG:O	20:CT:87:LYS:HG3	2.14	0.47
51:D5:15:LYS:HD3	51:D5:64:ARG:HH12	1.80	0.47
53:D7:64:VAL:HG23	53:D7:152:LYS:HG2	1.96	0.47
23:DA:44:C:C5'	27:DG:64:LYS:CE	2.66	0.47
22:DB:1169:C:O5'	22:DB:1169:C:H6	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:DB:1358:C:H2'	22:DB:1359:G:H5''	1.97	0.47
22:DB:1401:G:H2'	22:DB:1402:G:H8	1.80	0.47
22:DB:1433:A:H2'	22:DB:1434:U:C5	2.49	0.47
22:DB:1928:G:H2'	22:DB:1929:U:C6	2.49	0.47
22:DB:1821:A:H61	22:DB:1959:U:H1'	1.79	0.47
22:DB:2267:A:N3	22:DB:2267:A:H2'	2.28	0.47
22:DB:1774:A:H2'	22:DB:2586:G:H21	1.79	0.47
22:DB:2873:G:H2'	22:DB:2874:A:H8	1.78	0.47
22:DB:297:A:H61	22:DB:366:U:H3	1.62	0.47
22:DB:547:U:C4'	31:DK:30:LYS:CB	2.92	0.47
22:DB:794:A:H5'	22:DB:795:A:C2	2.49	0.47
22:DB:935:C:H2'	22:DB:936:A:H8	1.78	0.47
24:DD:132:PRO:O	24:DD:133:LEU:HD22	2.13	0.47
22:DB:1789:U:H5''	24:DD:257:LEU:HB3	1.95	0.47
22:DB:1803:G:C4	24:DD:47:GLY:HA3	2.48	0.47
24:DD:69:ARG:HD2	24:DD:72:LYS:CD	2.45	0.47
26:DF:140:ASN:OD1	26:DF:142:LEU:HD23	2.14	0.47
26:DF:61:GLN:HA	26:DF:67:ALA:HB3	1.95	0.47
27:DG:117:ILE:HG22	27:DG:118:ASN:ND2	2.29	0.47
27:DG:67:ILE:HG12	27:DG:84:PRO:HB2	1.97	0.47
30:DJ:129:GLY:HA3	30:DJ:132:ARG:NH1	2.21	0.47
33:DM:122:VAL:HG13	33:DM:123:ASP:N	2.28	0.47
34:DN:100:PRO:HG2	34:DN:102:ARG:HH12	1.75	0.47
22:DB:970:A:H61	34:DN:83:ARG:NH2	2.12	0.47
22:DB:966:A:O4'	34:DN:86:LYS:O	2.32	0.47
23:DA:116:C:O4'	36:DP:50:THR:HG22	2.14	0.47
22:DB:1239:A:P	39:DS:73:LYS:HZ3	2.23	0.47
43:DW:13:LYS:C	43:DW:14:LEU:HD22	2.34	0.47
44:DX:11:LYS:NZ	44:DX:11:LYS:HB2	2.30	0.47
1:EA:1154:G:H2'	1:EA:1155:G:C8	2.49	0.47
1:EA:1292:U:OP2	7:EG:41:ARG:NH2	2.45	0.47
1:EA:1320:C:O2'	19:ES:73:GLU:CA	2.57	0.47
1:EA:153:C:H2'	1:EA:154:C:C6	2.49	0.47
1:EA:926:G:N7	1:EA:1502:A:N1	2.46	0.47
1:EA:957:U:H2'	1:EA:959:A:OP2	2.14	0.47
7:EG:16:LEU:HG	9:EI:42:ARG:N	2.15	0.47
8:EH:85:ARG:CZ	8:EH:89:PRO:HD3	2.44	0.47
1:EA:236:G:O2'	17:EQ:42:TYR:CE1	2.66	0.47
17:EQ:59:ILE:HG21	17:EQ:71:PHE:HB3	1.95	0.47
18:ER:68:LYS:O	18:ER:72:ARG:HG3	2.14	0.47
19:ES:28:LYS:HG2	19:ES:29:ARG:N	2.29	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
49:F3:16:ALA:HB2	49:F3:50:PHE:CG	2.48	0.47
53:F7:158:LYS:CD	53:F7:158:LYS:H	2.24	0.47
22:FB:999:A:H4'	22:FB:1166:A:C2	2.49	0.47
22:FB:1239:A:OP2	39:FS:73:LYS:NZ	2.38	0.47
22:FB:1236:G:H1'	22:FB:1240:G:N2	2.28	0.47
22:FB:1351:G:H4'	41:FU:13:SER:OG	2.11	0.47
22:FB:1616:C:H2'	22:FB:1617:G:C8	2.49	0.47
22:FB:1975:G:H4'	22:FB:1976:U:H5	1.80	0.47
22:FB:2364:C:C1'	44:FX:69:PHE:CZ	2.97	0.47
22:FB:236:C:H1'	22:FB:632:A:C1'	2.45	0.47
22:FB:2261:G:N1	22:FB:2404:A:C1'	2.77	0.47
22:FB:2457:A:O4'	22:FB:2507:U:H4'	2.14	0.47
22:FB:2057:U:C2'	22:FB:2576:G:H21	2.27	0.47
22:FB:3128:G:C2	22:FB:3161:C:H1'	2.50	0.47
22:FB:544:U:H2'	22:FB:545:C:C6	2.49	0.47
22:FB:932:G:H2'	22:FB:933:G:C8	2.49	0.47
24:FD:32:ALA:C	24:FD:33:LEU:HD13	2.34	0.47
26:FF:163:ASN:ND2	26:FF:166:TRP:HB2	2.29	0.47
27:FG:72:LYS:HG2	27:FG:81:GLN:HE22	1.78	0.47
27:FG:95:ARG:NH1	27:FG:98:VAL:HG11	2.29	0.47
28:FH:73:ALA:O	28:FH:77:LYS:HD2	2.14	0.47
29:FI:6:LEU:O	29:FI:6:LEU:HD23	2.13	0.47
33:FM:60:LEU:HB2	33:FM:61:PRO:HD3	1.95	0.47
22:FB:513:A:OP2	40:FT:15:LYS:HG3	2.14	0.47
44:FX:49:GLN:CB	44:FX:73:GLY:HA3	2.44	0.47
22:FB:980:G:H4'	46:FZ:12:ARG:C	2.35	0.47
1:GA:1079:G:H1'	5:GE:14:ARG:NH2	2.29	0.47
1:GA:1111:A:H2'	1:GA:1112:C:C6	2.50	0.47
1:GA:1240:U:C4	7:GG:119:ARG:NH1	2.82	0.47
1:GA:890:G:H1'	1:GA:906:G:O6	2.14	0.47
1:GA:953:G:O3'	13:GM:122:LYS:O	2.32	0.47
2:GB:155:LEU:HD22	2:GB:157:ARG:H	1.78	0.47
3:GC:32:LEU:HD23	3:GC:33:LEU:N	2.29	0.47
4:GD:13:ARG:NH1	4:GD:36:ARG:HD3	2.29	0.47
5:GE:150:ARG:HD3	5:GE:150:ARG:O	2.14	0.47
7:GG:49:ILE:HD13	7:GG:121:ALA:CA	2.44	0.47
11:GK:102:GLY:O	11:GK:103:LEU:HD23	2.14	0.47
22:HB:2861:A:O3'	48:H2:32:GLU:HB2	2.15	0.47
22:HB:2791:C:C4	48:H2:43:HIS:ND1	2.83	0.47
22:HB:1003:C:N3	22:HB:1174:G:C2	2.82	0.47
22:HB:1681:A:H61	22:HB:1979:C:H42	1.62	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:HB:1752:U:HO3'	22:HB:1753:A:P	2.33	0.47
22:HB:1829:C:O4'	22:HB:1911:A:O4'	2.33	0.47
22:HB:1923:U:O2'	22:HB:1924:C:H6	1.97	0.47
22:HB:2297:G:H2'	22:HB:2299:A:N3	2.30	0.47
22:HB:2529:G:C2	22:HB:2538:C:C2	3.02	0.47
22:HB:459:A:C6	22:HB:484:G:H1'	2.50	0.47
22:HB:571:U:O2'	22:HB:572:G:H5''	2.15	0.47
22:HB:217:U:C5'	22:HB:633:G:O2'	2.56	0.47
22:HB:777:A:OP1	24:HD:208:LYS:NZ	2.47	0.47
22:HB:809:C:H2'	22:HB:810:U:C6	2.49	0.47
22:HB:831:G:H4'	22:HB:851:C:H4'	1.95	0.47
22:HB:873:U:C4	22:HB:2247:A:C4	3.02	0.47
24:HD:270:ILE:N	24:HD:270:ILE:HD13	2.27	0.47
24:HD:32:ALA:C	24:HD:33:LEU:HD13	2.34	0.47
22:HB:1803:G:C1'	24:HD:48:ARG:HH12	2.27	0.47
26:HF:151:VAL:HG21	26:HF:188:ILE:HD12	1.97	0.47
28:HH:127:GLU:HB3	28:HH:130:ARG:NH1	2.29	0.47
30:HJ:106:GLU:O	30:HJ:107:ILE:HD13	2.15	0.47
31:HK:111:LYS:HB2	31:HK:111:LYS:NZ	2.30	0.47
32:HL:24:VAL:HG23	32:HL:51:ILE:CD1	2.45	0.47
37:HQ:55:ILE:N	37:HQ:55:ILE:HD13	2.16	0.47
39:HS:62:GLU:HB2	39:HS:97:GLY:H	1.79	0.47
40:HT:90:LEU:HD12	40:HT:128:VAL:HB	1.96	0.47
45:HY:25:LEU:HD11	45:HY:42:ARG:O	2.15	0.47
45:HY:49:GLU:OE1	45:HY:50:VAL:HG23	2.14	0.47
46:HZ:4:LYS:CD	46:HZ:5:LEU:H	2.20	0.47
1:IA:1097:C:H1'	1:IA:1169:A:C8	2.49	0.47
1:IA:975:A:H1'	1:IA:1358:U:H4'	1.96	0.47
1:IA:421:U:H3'	1:IA:422:C:C6	2.48	0.47
1:IA:452:A:C2'	16:IP:72:ARG:HD2	2.45	0.47
1:IA:699:C:H2'	1:IA:700:G:C5'	2.44	0.47
3:IC:53:ALA:HA	3:IC:114:PRO:HB2	1.96	0.47
3:IC:87:LEU:O	3:IC:91:LEU:HD22	2.13	0.47
6:IF:99:ALA:HB3	18:IR:29:PHE:CD1	2.48	0.47
7:IG:131:LYS:HG3	7:IG:131:LYS:O	2.15	0.47
7:IG:95:ARG:HG2	7:IG:99:LEU:HG	1.95	0.47
8:IH:41:ARG:HG2	8:IH:120:THR:HG21	1.95	0.47
8:IH:48:TYR:HB3	8:IH:61:VAL:HA	1.96	0.47
9:II:46:ALA:HB1	9:II:77:ILE:CD1	2.44	0.47
13:IM:97:PRO:HA	13:IM:110:ARG:NH1	2.29	0.47
1:IA:752:G:O5'	15:IO:69:TYR:OH	2.30	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:IL:11:VAL:CG2	17:IQ:35:VAL:O	2.58	0.47
1:IA:1517:G:O4'	22:JB:1903:C:OP1	2.32	0.47
22:JB:1986:G:H2'	22:JB:1987:G:H8	1.79	0.47
22:JB:1998:A:H1'	48:J2:2:ALA:C	2.30	0.47
22:JB:2048:C:C5'	22:JB:2231:G:H4'	2.45	0.47
22:JB:2825:A:C4	22:JB:2844:G:H1'	2.49	0.47
22:JB:571:U:O2'	22:JB:572:G:H5"	2.15	0.47
22:JB:631:G:H4'	22:JB:632:A:C2	2.49	0.47
22:JB:831:G:H4'	22:JB:851:C:H4'	1.95	0.47
26:JF:48:ARG:HE	26:JF:51:VAL:HG23	1.78	0.47
27:JG:14:PRO:CB	27:JG:18:GLN:HE22	2.23	0.47
27:JG:70:ALA:O	27:JG:71:LYS:HG2	2.14	0.47
28:JH:103:LEU:HD22	28:JH:123:PHE:CE2	2.49	0.47
32:JL:19:ILE:HA	32:JL:57:ASP:OD1	2.14	0.47
22:JB:2445:C:O2	34:JN:120:ARG:NE	2.47	0.47
35:JO:13:ASN:O	35:JO:16:ALA:HB3	2.14	0.47
36:JP:96:TYR:CD1	36:JP:100:VAL:HB	2.49	0.47
41:JU:9:ALA:HA	45:JY:26:MET:HG2	1.96	0.47
22:JB:940:G:N3	46:JZ:40:VAL:CG2	2.77	0.47
1:AA:1392:G:C5'	1:AA:1531:A:C4'	2.85	0.47
1:AA:153:C:H2'	1:AA:154:C:C6	2.49	0.47
1:AA:339:C:N3	1:AA:350:G:N1	2.61	0.47
1:AA:407:G:C4'	4:AD:116:GLN:HB2	2.43	0.47
1:AA:718:G:N3	1:AA:718:G:H2'	2.23	0.47
2:AB:116:GLU:HG2	2:AB:153:ARG:HD3	1.95	0.47
1:AA:545:C:C5'	4:AD:72:GLU:CG	2.79	0.47
13:AM:8:GLU:OE1	13:AM:22:ILE:HG23	2.14	0.47
14:AN:22:THR:HG23	14:AN:35:ARG:HD3	1.96	0.47
15:AO:79:ARG:HG2	15:AO:82:ILE:HD12	1.97	0.47
20:AT:53:LEU:HD12	20:AT:54:LYS:N	2.29	0.47
48:B2:4:HIS:CG	48:B2:5:PRO:HD2	2.49	0.47
22:BB:115:G:C5'	50:B4:19:ARG:NH2	2.75	0.47
22:BB:701:U:OP1	50:B4:2:LYS:HB2	2.14	0.47
22:BB:1000:G:P	22:BB:1168:G:H4'	2.54	0.47
22:BB:1433:A:H2'	22:BB:1434:U:C5	2.49	0.47
22:BB:2533:U:C5	22:BB:2535:C:N4	2.83	0.47
22:BB:2873:G:H2'	22:BB:2874:A:H8	1.78	0.47
22:BB:525:A:H3'	22:BB:526:C:C6	2.49	0.47
22:BB:722:C:H2'	22:BB:723:C:C6	2.49	0.47
22:BB:79:G:H2'	22:BB:80:A:C8	2.46	0.47
22:BB:844:G:H2'	22:BB:845:U:O4'	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BD:11:PRO:O	24:BD:13:ARG:N	2.47	0.47
22:BB:1091:C:C3'	30:BJ:125:ASN:HB2	2.37	0.47
1:AA:339:C:O5'	32:BL:109:ARG:HD2	2.15	0.47
22:BB:675:C:H5'	33:BM:26:THR:CA	2.44	0.47
22:BB:2815:C:OP1	35:BO:50:GLN:HG2	2.13	0.47
37:BQ:72:SER:HA	37:BQ:79:ARG:O	2.13	0.47
22:BB:138:G:O5'	41:BU:36:THR:HG21	2.14	0.47
44:BX:49:GLN:CB	44:BX:73:GLY:HA3	2.45	0.47
45:BY:28:LEU:O	45:BY:34:ALA:HB1	2.15	0.47
45:BY:50:VAL:CG1	45:BY:54:ASN:HD21	2.27	0.47
1:CA:1201:A:H1'	1:CA:1202:G:OP2	2.13	0.47
1:CA:1202:G:C2'	1:CA:1202:G:N3	2.75	0.47
1:CA:1239:A:H62	1:CA:1299:A:N6	1.94	0.47
1:CA:289:G:H2'	1:CA:290:C:C6	2.50	0.47
1:CA:371:G:H2'	1:CA:372:C:C4'	2.39	0.47
1:CA:536:C:H2'	1:CA:537:G:C8	2.46	0.47
1:CA:911:U:OP1	12:CL:97:ARG:NH2	2.47	0.47
2:CB:115:LEU:HG	2:CB:153:ARG:NH2	2.29	0.47
3:CC:43:LEU:O	3:CC:46:GLU:HB2	2.13	0.47
4:CD:61:LYS:HZ1	4:CD:62:GLN:CA	2.26	0.47
8:CH:134:ILE:HG22	8:CH:135:CYS:SG	2.54	0.47
8:CH:97:VAL:HG13	8:CH:98:LYS:H	1.79	0.47
1:CA:1148:U:C1'	9:CI:66:ARG:HH22	2.25	0.47
13:CM:110:ARG:HG2	13:CM:110:ARG:HH11	1.78	0.47
1:CA:1227:A:C2'	13:CM:117:VAL:HG12	2.41	0.47
1:CA:657:G:H21	15:CO:22:THR:CB	2.28	0.47
47:D1:17:GLN:HA	47:D1:33:VAL:O	2.13	0.47
53:D7:110:PHE:HE1	53:D7:133:LYS:HD3	1.78	0.47
23:DA:96:C:H2'	23:DA:97:C:C6	2.49	0.47
22:DB:1163:C:C1'	38:DR:78:THR:OG1	2.62	0.47
22:DB:1223:G:H5''	22:DB:1224:A:C8	2.50	0.47
22:DB:1478:U:H2'	22:DB:1479:G:H5'	1.96	0.47
22:DB:1975:G:H4'	22:DB:1976:U:H5	1.80	0.47
22:DB:1992:G:H4'	40:DT:62:ARG:HA	1.96	0.47
22:DB:2241:U:H2'	22:DB:2242:C:C6	2.49	0.47
22:DB:2453:C:H2'	22:DB:2454:C:O4'	2.14	0.47
22:DB:2621:G:H2'	22:DB:2622:G:H8	1.78	0.47
22:DB:3122:U:H4'	53:D7:160:LYS:CD	2.43	0.47
22:DB:3134:A:H1'	22:DB:3159:G:H21	1.80	0.47
22:DB:78:C:H1'	22:DB:357:A:H1'	1.97	0.47
22:DB:37:C:H2'	22:DB:38:G:H8	1.74	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:DB:487:G:H1'	22:DB:489:A:N6	2.29	0.47
22:DB:52:A:H61	22:DB:115:G:H1'	1.78	0.47
22:DB:935:C:H2'	22:DB:936:A:C8	2.49	0.47
22:DB:2576:G:C4'	24:DD:239:ARG:NH2	2.74	0.47
22:DB:1674:C:O5'	25:DE:134:TRP:HB3	2.15	0.47
22:DB:2753:C:O2'	25:DE:163:GLU:OE1	2.32	0.47
26:DF:150:LEU:HD13	26:DF:158:ARG:NH2	2.29	0.47
22:DB:464:G:H5'	26:DF:79:GLY:O	2.14	0.47
22:DB:2285:U:C6	27:DG:40:LEU:HD21	2.49	0.47
27:DG:87:ILE:O	27:DG:88:LYS:HB2	2.14	0.47
28:DH:103:LEU:HD22	28:DH:123:PHE:CZ	2.50	0.47
32:DL:24:VAL:HG23	32:DL:51:ILE:CD1	2.45	0.47
32:DL:2:ILE:HD13	32:DL:2:ILE:N	2.30	0.47
22:DB:1040:A:C3'	34:DN:125:LYS:HE2	2.22	0.47
38:DR:31:GLN:HG3	38:DR:34:ASN:HB2	1.96	0.47
22:DB:568:G:C2	38:DR:56:ASP:OD2	2.68	0.47
39:DS:69:ILE:HD13	39:DS:90:PHE:HB3	1.96	0.47
22:DB:23:G:H4'	40:DT:96:TYR:OH	2.14	0.47
22:DB:338:G:H22	42:DV:10:HIS:CE1	2.29	0.47
43:DW:64:ALA:C	43:DW:65:LEU:HD22	2.34	0.47
23:DA:106:U:H1'	43:DW:88:TYR:HE1	0.94	0.47
45:DY:39:GLN:N	45:DY:40:PRO:HD3	2.29	0.47
1:EA:1163:C:H2'	1:EA:1164:G:H8	1.77	0.47
1:EA:1202:G:N3	1:EA:1202:G:C2'	2.75	0.47
1:EA:1272:G:O3'	1:IA:1265:G:O3'	2.26	0.47
1:EA:1528:U:C5'	1:EA:1529:G:H21	2.28	0.47
1:EA:279:A:OP1	1:EA:281:G:H5'	2.14	0.47
1:EA:339:C:N3	1:EA:350:G:N1	2.61	0.47
1:EA:355:C:H2'	1:EA:356:A:O4'	2.15	0.47
1:EA:545:C:H5''	4:ED:72:GLU:HB3	1.95	0.47
1:EA:699:C:H2'	1:EA:700:G:C5'	2.44	0.47
1:EA:767:A:H2'	1:EA:768:A:O4'	2.14	0.47
1:EA:929:G:H2'	1:EA:930:C:C6	2.49	0.47
1:EA:407:G:C3'	4:ED:116:GLN:HB2	2.43	0.47
4:ED:24:GLU:CG	4:ED:27:TYR:HB3	2.42	0.47
4:ED:77:ASN:HA	4:ED:80:GLU:HG2	1.96	0.47
10:EJ:46:ARG:HD3	10:EJ:64:GLU:HB3	1.95	0.47
11:EK:102:GLY:O	11:EK:103:LEU:HD23	2.14	0.47
1:EA:529:G:H1	12:EL:51:ALA:HB2	1.57	0.47
13:EM:27:LYS:C	13:EM:29:ARG:H	2.16	0.47
14:EN:46:GLU:O	14:EN:50:LYS:HG3	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:ET:36:LEU:HD12	20:ET:62:LEU:HD21	1.95	0.47
20:ET:88:VAL:HG21	20:ET:92:LEU:HD12	1.96	0.47
48:F2:4:HIS:CG	48:F2:5:PRO:HD2	2.49	0.47
22:FB:1433:A:H2'	22:FB:1434:U:C5	2.49	0.47
22:FB:1644:G:N2	22:FB:1645:U:H3	2.13	0.47
22:FB:1681:A:H61	22:FB:1979:C:H42	1.62	0.47
22:FB:174:A:C2	22:FB:2223:U:H5''	2.49	0.47
22:FB:2241:U:H2'	22:FB:2242:C:C6	2.49	0.47
22:FB:2261:G:H4'	22:FB:2262:C:OP2	2.13	0.47
22:FB:2284:U:OP1	27:FG:132:ILE:O	2.31	0.47
22:FB:2292:C:O3'	27:FG:88:LYS:CE	2.61	0.47
22:FB:2669:C:OP2	35:FO:17:ARG:HG3	2.14	0.47
22:FB:2825:A:C4	22:FB:2844:G:H1'	2.50	0.47
22:FB:505:G:N3	40:FT:82:ASN:HB2	2.25	0.47
22:FB:742:G:N7	24:FD:208:LYS:HD2	2.30	0.47
24:FD:157:ARG:HB3	24:FD:202:LYS:NZ	2.28	0.47
22:FB:795:A:N6	24:FD:222:ARG:NE	2.62	0.47
25:FE:13:GLN:H	25:FE:22:PRO:HG2	1.79	0.47
26:FF:140:ASN:OD1	26:FF:142:LEU:HD23	2.14	0.47
26:FF:151:VAL:HG21	26:FF:188:ILE:HD12	1.97	0.47
22:FB:7:G:C4'	31:FK:161:GLN:HA	2.45	0.47
22:FB:2628:C:C4'	32:FL:28:GLY:C	2.82	0.47
34:FN:39:GLU:H	34:FN:99:LYS:HE2	1.78	0.47
35:FO:13:ASN:O	35:FO:16:ALA:HB3	2.14	0.47
36:FP:104:ALA:HA	36:FP:107:ALA:HB2	1.96	0.47
36:FP:47:ARG:HD2	44:FX:78:PHE:CD1	2.49	0.47
23:FA:10:U:C2	36:FP:49:GLN:HG3	2.35	0.47
1:GA:128:G:H5''	17:GQ:2:PRO:HB2	1.95	0.47
1:GA:412:A:N3	4:GD:30:LYS:HA	2.29	0.47
1:GA:45:U:H2'	1:GA:46:G:C8	2.49	0.47
1:GA:48:C:H4'	1:GA:49:U:OP1	2.13	0.47
1:GA:699:C:H2'	1:GA:700:G:C5'	2.44	0.47
1:GA:816:A:OP2	1:GA:1526:G:C2'	2.57	0.47
2:GB:166:ASP:HB2	2:GB:205:ASP:CB	2.44	0.47
2:GB:178:ARG:HD3	2:GB:196:LEU:HD22	1.96	0.47
3:GC:184:TYR:HB2	3:GC:200:ALA:O	2.14	0.47
4:GD:11:LEU:HD13	4:GD:66:ARG:HB3	1.97	0.47
7:GG:49:ILE:HD13	7:GG:121:ALA:N	2.28	0.47
1:GA:1374:A:O5'	7:GG:31:MET:CE	2.60	0.47
1:GA:35:G:C2	12:GL:118:SER:HB2	2.49	0.47
13:GM:110:ARG:HH11	13:GM:110:ARG:HG2	1.78	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:GM:6:GLY:O	13:GM:8:GLU:HG2	2.13	0.47
16:GP:34:GLU:HG3	16:GP:35:LYS:N	2.30	0.47
49:H3:16:ALA:HB2	49:H3:50:PHE:CG	2.48	0.47
53:H7:34:LEU:CD2	53:H7:203:ILE:HA	2.45	0.47
22:HB:1166:A:C2	22:HB:1168:G:N9	2.82	0.47
22:HB:1828:C:C2'	22:HB:1912:G:OP1	2.63	0.47
22:HB:2241:U:H2'	22:HB:2242:C:C6	2.49	0.47
22:HB:2789:U:H2'	22:HB:2790:C:H4'	1.96	0.47
22:HB:297:A:H2'	22:HB:298:C:O4'	2.15	0.47
22:HB:742:G:C5'	24:HD:18:THR:CB	2.75	0.47
22:HB:687:G:C5'	26:HF:69:HIS:O	2.63	0.47
27:HG:67:ILE:HG12	27:HG:84:PRO:HB2	1.97	0.47
32:HL:19:ILE:HA	32:HL:57:ASP:OD1	2.14	0.47
35:HO:99:ARG:HB3	35:HO:109:THR:HG21	1.97	0.47
36:HP:96:TYR:CD1	36:HP:100:VAL:HB	2.49	0.47
42:HV:106:VAL:HG22	42:HV:113:THR:HB	1.96	0.47
43:HW:64:ALA:C	43:HW:65:LEU:HD22	2.34	0.47
22:HB:2343:C:H5''	44:HX:39:ARG:O	2.15	0.47
46:HZ:53:VAL:HG13	46:HZ:54:GLN:N	2.29	0.47
1:IA:1115:C:C5'	10:IJ:46:ARG:HH21	2.27	0.47
1:IA:1116:C:H2'	1:IA:1117:G:H5''	1.96	0.47
1:IA:1201:A:H1'	1:IA:1202:G:OP2	2.13	0.47
1:IA:1368:G:C3'	9:II:112:LYS:HD3	2.42	0.47
1:IA:1385:G:H2'	1:IA:1386:G:H5'	1.96	0.47
1:IA:1481:U:H2'	1:IA:1482:G:C8	2.50	0.47
1:IA:289:G:H2'	1:IA:290:C:C6	2.50	0.47
1:IA:301:G:N2	1:IA:556:C:H4'	2.23	0.47
1:IA:727:G:H1'	1:IA:731:G:N1	2.27	0.47
1:IA:655:A:N6	1:IA:752:G:N2	2.61	0.47
1:IA:815:A:H3'	1:IA:1526:G:C2	2.33	0.47
3:IC:182:ILE:HG23	3:IC:202:ILE:O	2.14	0.47
4:ID:101:LEU:HB3	4:ID:136:PRO:O	2.14	0.47
18:IR:54:ARG:N	18:IR:54:ARG:HD3	2.27	0.47
20:IT:53:LEU:HD12	20:IT:54:LYS:N	2.30	0.47
22:JB:1042:G:O3'	52:J6:8:LYS:NZ	2.48	0.47
22:JB:1254:G:H2'	22:JB:1255:A:C4	2.49	0.47
22:JB:1710:U:O4	22:JB:1960:A:O4'	2.33	0.47
22:JB:1821:A:H61	22:JB:1959:U:H1'	1.79	0.47
22:JB:2284:U:O2	22:JB:2284:U:H2'	2.12	0.47
22:JB:2297:G:H2'	22:JB:2299:A:N3	2.30	0.47
22:JB:2372:A:C3'	33:JM:61:PRO:O	2.62	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:JB:2789:U:H2'	22:JB:2790:C:H4'	1.96	0.47
22:JB:2823:G:C8	37:JQ:104:LEU:HB3	2.49	0.47
22:JB:910:U:H3	22:JB:911:A:C5'	1.80	0.47
32:JL:77:THR:H	32:JL:90:ARG:HH22	1.61	0.47
34:JN:73:LYS:HB3	34:JN:94:TRP:N	2.06	0.47
40:JT:27:VAL:CG2	40:JT:125:THR:H	2.27	0.47
43:JW:64:ALA:C	43:JW:65:LEU:HD22	2.34	0.47
45:JY:50:VAL:CG1	45:JY:54:ASN:HD21	2.27	0.47
1:AA:1257:U:OP2	3:AC:27:LYS:NZ	2.41	0.47
1:AA:289:G:H2'	1:AA:290:C:C6	2.50	0.47
1:AA:742:G:H5'	15:AO:58:MET:HE1	1.95	0.47
1:AA:854:G:H3'	1:AA:871:U:O4	2.14	0.47
1:AA:913:A:H4'	1:AA:914:A:O5'	2.15	0.47
4:AD:128:VAL:HG12	4:AD:129:ASN:N	2.30	0.47
4:AD:18:LYS:NZ	4:AD:26:CYS:HB2	2.30	0.47
1:AA:8:A:H1'	5:AE:104:ALA:CA	2.45	0.47
6:AF:48:LEU:HA	18:AR:78:LEU:HA	1.97	0.47
1:AA:877:C:C2	8:AH:3:THR:CA	2.84	0.47
9:AI:48:GLU:HB2	9:AI:78:LYS:NZ	2.25	0.47
14:AN:46:GLU:O	14:AN:50:LYS:HG3	2.14	0.47
16:AP:7:ALA:O	16:AP:17:TYR:HA	2.14	0.47
17:AQ:3:LYS:O	17:AQ:5:VAL:HG23	2.14	0.47
17:AQ:9:VAL:HA	17:AQ:55:ASP:O	2.14	0.47
18:AR:32:ARG:NH2	18:AR:69:THR:HG23	2.29	0.47
47:B1:41:PRO:HA	47:B1:58:LYS:NZ	2.28	0.47
50:B4:21:ARG:HB2	50:B4:31:LEU:HD22	1.95	0.47
22:BB:3122:U:O2	53:B7:164:GLN:OE1	2.33	0.47
53:B7:174:MSE:HG2	53:B7:175:LYS:HD2	1.96	0.47
22:BB:1070:G:C8	30:BJ:126:THR:HG21	2.50	0.47
22:BB:1644:G:N2	22:BB:1645:U:H3	2.12	0.47
22:BB:1672:A:H3'	22:BB:1673:C:C6	2.49	0.47
22:BB:1802:A:N6	24:BD:48:ARG:HD2	2.30	0.47
22:BB:1928:G:H2'	22:BB:1929:U:C6	2.49	0.47
22:BB:2261:G:H4'	22:BB:2262:C:OP2	2.12	0.47
22:BB:1471:G:H22	22:BB:2681:A:N6	2.00	0.47
22:BB:459:A:C6	22:BB:484:G:H1'	2.49	0.47
22:BB:544:U:H2'	22:BB:545:C:C6	2.50	0.47
22:BB:916:U:H1'	43:BW:165:GLU:N	2.28	0.47
24:BD:87:ASN:HB3	24:BD:217:ARG:NH2	2.30	0.47
26:BF:140:ASN:OD1	26:BF:142:LEU:HD23	2.14	0.47
22:BB:2284:U:C2	27:BG:40:LEU:HD13	2.49	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:BG:67:ILE:HG12	27:BG:84:PRO:HB2	1.97	0.47
28:BH:103:LEU:HD22	28:BH:123:PHE:CZ	2.50	0.47
28:BH:25:LYS:H	28:BH:35:VAL:HG11	1.78	0.47
22:BB:2008:C:O3'	31:BK:105:GLY:C	2.52	0.47
31:BK:116:ARG:HA	31:BK:116:ARG:NE	2.29	0.47
31:BK:42:VAL:HA	31:BK:166:LEU:HD23	1.95	0.47
32:BL:24:VAL:HG23	32:BL:51:ILE:CD1	2.45	0.47
36:BP:94:TYR:CD1	36:BP:95:LYS:HG2	2.49	0.47
39:BS:56:VAL:HG12	39:BS:57:GLN:HG2	1.96	0.47
39:BS:69:ILE:HD13	39:BS:90:PHE:HB3	1.96	0.47
39:BS:63:HIS:CE1	39:BS:93:ILE:HD13	2.49	0.47
40:BT:55:ASP:HA	40:BT:59:PHE:H	1.80	0.47
42:BV:107:ALA:HB3	42:BV:111:GLY:HA3	1.96	0.47
1:CA:1275:A:C2	1:CA:1276:G:H1'	2.49	0.47
1:CA:1343:G:H4'	9:CI:122:ALA:CA	2.45	0.47
1:CA:215:C:H2'	1:CA:216:C:C6	2.49	0.47
1:CA:355:C:H2'	1:CA:356:A:O4'	2.15	0.47
1:CA:644:G:C8	8:CH:92:ARG:NH1	2.64	0.47
1:CA:644:G:H4'	8:CH:89:PRO:C	2.34	0.47
1:CA:767:A:H2'	1:CA:768:A:O4'	2.14	0.47
1:CA:890:G:H1'	1:CA:906:G:O6	2.14	0.47
2:CB:142:LEU:C	2:CB:146:GLN:HE21	2.17	0.47
2:CB:31:TYR:CE2	2:CB:202:PRO:HG3	2.49	0.47
4:CD:11:LEU:HD13	4:CD:66:ARG:HB3	1.97	0.47
1:CA:545:C:C5'	4:CD:72:GLU:CB	2.67	0.47
1:CA:17:U:C4'	5:CE:14:ARG:NH2	2.77	0.47
7:CG:46:ALA:HB2	7:CG:120:ILE:HD13	1.96	0.47
8:CH:10:LEU:HB2	8:CH:14:ARG:HH22	1.78	0.47
10:CJ:9:ARG:O	10:CJ:94:VAL:HG22	2.14	0.47
11:CK:23:ALA:HB1	11:CK:88:GLY:CA	2.44	0.47
1:CA:276:G:O2'	17:CQ:43:LEU:CD1	2.62	0.47
53:D7:148:ILE:O	53:D7:152:LYS:HG3	2.15	0.47
22:DB:1236:G:H1'	22:DB:1240:G:N2	2.29	0.47
22:DB:1284:G:O3'	22:DB:1285:A:H4'	2.14	0.47
22:DB:1468:A:OP1	22:DB:1469:U:H5''	2.14	0.47
22:DB:1498:G:N3	22:DB:1526:U:N3	2.62	0.47
22:DB:174:A:C2	22:DB:2223:U:H5''	2.49	0.47
22:DB:2295:C:H2'	22:DB:2296:U:O4'	2.14	0.47
22:DB:2617:G:H1	22:DB:2755:A:H2'	1.80	0.47
22:DB:459:A:C6	22:DB:484:G:H1'	2.49	0.47
22:DB:544:U:H2'	22:DB:545:C:C6	2.50	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:DB:762:A:H2'	22:DB:763:A:C4	2.50	0.47
22:DB:793:G:N2	22:DB:796:A:N6	2.61	0.47
22:DB:827:C:C5	33:DM:32:ARG:NH1	2.83	0.47
22:DB:84:G:OP2	42:DV:38:LEU:HD12	2.14	0.47
24:DD:69:ARG:CB	24:DD:130:ALA:HB2	2.44	0.47
24:DD:84:TYR:HB3	24:DD:91:ARG:NH1	2.29	0.47
22:DB:2795:A:C8	25:DE:192:ASN:HB2	2.40	0.47
31:DK:33:ILE:HG13	31:DK:35:LYS:N	2.29	0.47
32:DL:29:ILE:HG22	32:DL:30:GLY:H	1.80	0.47
34:DN:68:ARG:HB2	34:DN:101:GLY:O	2.15	0.47
34:DN:131:LYS:NZ	43:DW:43:PHE:CD2	2.79	0.47
38:DR:35:ALA:O	38:DR:39:LEU:HD23	2.14	0.47
45:DY:48:ARG:HD3	45:DY:51:ALA:CB	2.45	0.47
1:EA:1226:C:C2	13:EM:104:ARG:HB2	2.49	0.47
1:EA:536:C:H2'	1:EA:537:G:C8	2.46	0.47
1:EA:642:A:N6	8:EH:131:GLY:HA3	2.29	0.47
1:EA:585:G:O2'	1:EA:879:C:H5'	2.14	0.47
5:EE:89:ILE:HD13	5:EE:121:LYS:O	2.13	0.47
5:EE:18:ARG:NH1	5:EE:27:ARG:HG3	2.28	0.47
1:EA:1372:U:HO2'	7:EG:35:LYS:HA	1.79	0.47
12:EL:102:ARG:HB2	12:EL:110:VAL:CG2	2.40	0.47
13:EM:97:PRO:HA	13:EM:110:ARG:NH1	2.29	0.47
16:EP:34:GLU:HG3	16:EP:35:LYS:N	2.30	0.47
17:EQ:12:SER:HB3	17:EQ:20:THR:CB	2.45	0.47
48:F2:16:ARG:NH2	48:F2:19:ARG:HG3	2.29	0.47
51:F5:54:GLU:HG2	51:F5:55:TRP:N	2.28	0.47
22:FB:1067:G:H21	22:FB:1114:A:H61	1.63	0.47
22:FB:1284:G:O3'	22:FB:1285:A:H4'	2.14	0.47
22:FB:1296:G:O2'	22:FB:1297:A:H3'	2.14	0.47
22:FB:1479:G:H2'	22:FB:1480:G:C8	2.50	0.47
22:FB:1498:G:N3	22:FB:1526:U:N3	2.61	0.47
22:FB:1584:G:O5'	24:FD:62:TYR:OH	2.32	0.47
22:FB:162:C:H2'	22:FB:163:A:C8	2.49	0.47
22:FB:1928:G:H2'	22:FB:1929:U:C6	2.49	0.47
22:FB:2003:A:C5'	38:FR:25:TRP:HZ2	2.25	0.47
22:FB:2056:C:O2'	24:FD:228:PRO:CB	2.48	0.47
22:FB:1774:A:H2'	22:FB:2586:G:H21	1.79	0.47
22:FB:2773:G:C2	22:FB:2780:A:N3	2.82	0.47
22:FB:3134:A:H1'	22:FB:3159:G:H21	1.79	0.47
22:FB:489:A:H1'	42:FV:74:LEU:HD11	1.96	0.47
22:FB:571:U:O2'	22:FB:572:G:H5''	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:FB:79:G:H2'	22:FB:80:A:C8	2.46	0.47
22:FB:844:G:H2'	22:FB:845:U:O4'	2.14	0.47
22:FB:863:C:HO2'	22:FB:864:C:H5'	1.79	0.47
24:FD:177:LEU:HD21	24:FD:183:ARG:HG3	1.97	0.47
24:FD:215:LEU:HD12	24:FD:215:LEU:N	2.29	0.47
27:FG:170:LEU:HD12	27:FG:170:LEU:N	2.29	0.47
30:FJ:70:LYS:O	30:FJ:72:PRO:HD3	2.14	0.47
30:FJ:90:THR:O	30:FJ:91:PRO:C	2.52	0.47
32:FL:73:VAL:HG11	32:FL:99:ILE:HB	1.96	0.47
22:FB:227:G:C4'	33:FM:55:ARG:CZ	2.79	0.47
25:FE:19:ARG:CG	37:FQ:84:ALA:CB	2.77	0.47
38:FR:28:ARG:CD	38:FR:34:ASN:HB3	2.44	0.47
40:FT:34:SER:O	40:FT:38:VAL:HG23	2.15	0.47
41:FU:46:PHE:CE1	41:FU:91:LEU:HD21	2.50	0.47
23:FA:77:G:N2	43:FW:22:VAL:HG23	2.29	0.47
44:FX:11:LYS:NZ	44:FX:11:LYS:HB2	2.30	0.47
45:FY:25:LEU:HD11	45:FY:42:ARG:O	2.15	0.47
1:GA:1281:U:HO2'	1:GA:1282:C:P	2.38	0.47
1:GA:1289:A:H2'	1:GA:1290:G:H5'	1.95	0.47
1:GA:975:A:H1'	1:GA:1358:U:H4'	1.96	0.47
1:GA:289:G:H2'	1:GA:290:C:C6	2.50	0.47
1:GA:309:G:H2'	1:GA:310:G:H8	1.80	0.47
1:GA:876:G:C4	8:GH:3:THR:OG1	2.68	0.47
1:GA:936:C:H2'	1:GA:937:A:C8	2.48	0.47
4:GD:103:ASN:HD21	4:GD:107:ARG:NE	2.12	0.47
1:GA:1349:A:C5'	9:GI:121:ARG:HH12	1.92	0.47
10:GJ:12:ASP:OD2	10:GJ:14:LYS:HD3	2.15	0.47
15:GO:75:PRO:O	15:GO:78:TYR:HB3	2.13	0.47
15:GO:7:GLU:O	15:GO:10:LYS:HG2	2.15	0.47
47:H1:10:VAL:H	47:H1:11:PRO:HD3	1.79	0.47
22:HB:1381:G:C8	47:H1:1:MET:SD	3.07	0.47
22:HB:1276:U:O2'	48:H2:10:LYS:HB3	2.15	0.47
48:H2:16:ARG:NH2	48:H2:19:ARG:HG3	2.29	0.47
48:H2:34:PRO:CG	48:H2:52:TYR:HA	2.41	0.47
51:H5:5:LYS:HZ1	51:H5:62:LEU:HD12	1.79	0.47
53:H7:155:VAL:HG11	53:H7:169:ILE:HA	1.97	0.47
22:HB:3124:G:H5'	53:H7:168:PHE:HE1	1.80	0.47
22:HB:1202:U:O3'	39:HS:81:ARG:NH1	2.47	0.47
22:HB:1236:G:H1'	22:HB:1240:G:N2	2.28	0.47
22:HB:1265:G:P	38:HR:14:HIS:HE1	2.37	0.47
22:HB:1396:C:H4'	22:HB:1397:A:C5	2.49	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:HB:1437:A:C2'	22:HB:1438:G:C8	2.70	0.47
22:HB:1491:C:C2	22:HB:1533:G:C5	3.02	0.47
22:HB:1817:U:OP1	24:HD:224:SER:HA	2.11	0.47
22:HB:2048:C:C5'	22:HB:2231:G:H4'	2.45	0.47
22:HB:221:A:H5''	33:HM:68:VAL:N	2.20	0.47
22:HB:226:C:C2	22:HB:2373:C:O2'	2.68	0.47
22:HB:2377:U:H4'	22:HB:2378:G:OP1	2.15	0.47
22:HB:2432:A:C1'	22:HB:2551:A:HO2'	2.27	0.47
22:HB:2720:A:H2'	22:HB:2721:A:O4'	2.14	0.47
22:HB:501:G:N3	22:HB:1334:A:OP1	2.48	0.47
22:HB:512:A:P	40:HT:16:GLN:CG	2.79	0.47
22:HB:530:G:H2'	22:HB:531:G:O4'	2.14	0.47
22:HB:561:U:C4'	22:HB:1233:A:N1	2.77	0.47
24:HD:13:ARG:HD3	24:HD:16:MET:SD	2.54	0.47
24:HD:215:LEU:N	24:HD:215:LEU:HD12	2.29	0.47
25:HE:31:CYS:O	25:HE:33:ILE:HD13	2.15	0.47
28:HH:103:LEU:HD22	28:HH:123:PHE:CE2	2.49	0.47
29:HI:5:LEU:HD11	29:HI:7:GLU:O	2.13	0.47
30:HJ:55:VAL:HB	30:HJ:69:THR:OG1	2.15	0.47
30:HJ:72:PRO:C	30:HJ:74:MET:H	2.17	0.47
22:HB:7:G:H5''	31:HK:79:PHE:CZ	2.49	0.47
34:HN:27:TYR:CE2	34:HN:36:ILE:HG21	2.49	0.47
37:HQ:94:VAL:HG12	37:HQ:95:GLU:N	2.28	0.47
22:HB:1166:A:OP1	38:HR:55:ARG:NH2	2.34	0.47
39:HS:63:HIS:CE1	39:HS:93:ILE:HD13	2.49	0.47
22:HB:1995:G:OP2	40:HT:120:ARG:CZ	2.62	0.47
22:HB:510:G:H1	40:HT:19:LYS:HA	1.78	0.47
23:HA:106:U:OP1	43:HW:92:VAL:O	2.33	0.47
44:HX:32:LYS:CG	44:HX:33:ALA:H	2.26	0.47
45:HY:56:VAL:O	45:HY:56:VAL:HG23	2.14	0.47
1:IA:1405:G:H22	22:JB:1902:A:H2	1.59	0.47
1:IA:1419:G:N2	1:IA:1482:G:H1'	2.30	0.47
1:IA:1504:G:OP2	1:IA:1504:G:H3'	2.14	0.47
1:IA:685:G:H5''	1:IA:686:U:OP1	2.14	0.47
1:IA:700:G:H5''	1:IA:704:A:H1'	1.96	0.47
4:ID:11:LEU:HD13	4:ID:66:ARG:HB3	1.96	0.47
7:IG:49:ILE:HD13	7:IG:121:ALA:CA	2.44	0.47
9:II:121:ARG:HG2	9:II:121:ARG:NH1	2.30	0.47
1:IA:676:A:O3'	11:IK:115:PRO:HG3	2.13	0.47
16:IP:71:ARG:NE	16:IP:74:LEU:HB2	2.25	0.47
17:IQ:63:ARG:HG2	17:IQ:64:PRO:HD2	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:IR:32:ARG:NH2	18:IR:69:THR:HG23	2.29	0.47
49:J3:13:GLU:CD	49:J3:24:THR:HA	2.34	0.47
22:JB:1073:G:O2'	30:JJ:133:SER:CB	2.62	0.47
22:JB:1327:C:H2'	22:JB:1328:C:O4'	2.15	0.47
22:JB:1396:C:H4'	22:JB:1397:A:C5	2.49	0.47
22:JB:1747:G:C5	37:JQ:126:LYS:CA	2.74	0.47
1:IA:1484:C:O2'	22:JB:1944:C:C5'	2.61	0.47
22:JB:1975:G:H4'	22:JB:1976:U:H5	1.79	0.47
22:JB:1995:G:H5''	40:JT:117:ILE:CB	2.43	0.47
22:JB:2241:U:H2'	22:JB:2242:C:C6	2.49	0.47
22:JB:2285:U:H5	22:JB:2290:A:H61	1.63	0.47
22:JB:2292:C:H2'	22:JB:2293:G:C8	2.50	0.47
22:JB:2295:C:H2'	22:JB:2296:U:O4'	2.15	0.47
22:JB:2411:A:N1	47:J1:30:GLU:CA	2.52	0.47
22:JB:3109:U:H3	22:JB:3180:U:H3	1.63	0.47
22:JB:540:G:H5''	22:JB:2004:U:N3	2.30	0.47
22:JB:808:C:H2'	22:JB:809:C:C6	2.49	0.47
22:JB:1834:G:HO2'	24:JD:255:LYS:NZ	2.08	0.47
24:JD:32:ALA:C	24:JD:33:LEU:HD13	2.34	0.47
22:JB:2283:G:O2'	27:JG:153:ASP:OD1	2.31	0.47
27:JG:95:ARG:NH1	27:JG:98:VAL:HG11	2.30	0.47
30:JJ:96:VAL:O	30:JJ:136:VAL:HG12	2.13	0.47
31:JK:100:TYR:O	31:JK:101:THR:HG22	2.15	0.47
22:JB:1256:C:H5''	33:JM:17:LYS:HZ1	1.79	0.47
22:JB:1040:A:C2'	34:JN:125:LYS:NZ	2.77	0.47
37:JQ:40:ARG:NE	37:JQ:91:VAL:HG23	2.28	0.47
37:JQ:72:SER:HB2	37:JQ:78:GLU:C	2.34	0.47
22:JB:63:A:C2	41:JU:62:ARG:NH2	2.80	0.47
1:AA:1288:A:H2'	1:AA:1289:A:O4'	2.14	0.47
1:AA:521:G:C3'	12:AL:53:ARG:HH12	2.24	0.47
1:AA:929:G:H2'	1:AA:930:C:C6	2.49	0.47
3:AC:32:LEU:HD23	3:AC:33:LEU:N	2.29	0.47
3:AC:3:ASN:H	3:AC:3:ASN:HD22	1.61	0.47
10:AJ:9:ARG:O	10:AJ:94:VAL:HG22	2.14	0.47
13:AM:11:ARG:HH21	13:AM:46:LYS:HA	1.79	0.47
13:AM:53:VAL:HA	13:AM:56:LEU:HG	1.96	0.47
14:AN:15:LYS:HD3	14:AN:16:PHE:N	2.20	0.47
16:AP:67:THR:H	16:AP:70:ALA:HB3	1.79	0.47
1:AA:237:C:H5''	17:AQ:27:PHE:CE2	2.49	0.47
53:B7:34:LEU:CD2	53:B7:203:ILE:HA	2.45	0.47
23:BA:48:A:N3	23:BA:48:A:H2'	2.30	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:BB:1041:G:H21	52:B6:7:VAL:CG1	2.23	0.47
22:BB:1067:G:H21	22:BB:1114:A:H61	1.63	0.47
22:BB:52:A:H61	22:BB:115:G:H1'	1.78	0.47
22:BB:1236:G:H1'	22:BB:1240:G:N2	2.29	0.47
22:BB:1284:G:O3'	22:BB:1285:A:H4'	2.14	0.47
22:BB:135:U:O4	41:BU:3:HIS:HE1	1.98	0.47
22:BB:1440:G:H1	22:BB:1587:A:H3'	1.79	0.47
22:BB:1498:G:N3	22:BB:1526:U:N3	2.62	0.47
22:BB:1595:A:N3	22:BB:1595:A:H2'	2.29	0.47
22:BB:162:C:H2'	22:BB:163:A:C8	2.49	0.47
22:BB:1681:A:H61	22:BB:1979:C:H42	1.62	0.47
22:BB:1882:G:O2'	22:BB:1883:A:H5''	2.15	0.47
22:BB:1923:U:H2'	22:BB:1925:C:H41	1.78	0.47
22:BB:2229:G:H5'	22:BB:2230:G:OP1	2.14	0.47
22:BB:2453:C:H2'	22:BB:2454:C:O4'	2.14	0.47
22:BB:2607:C:H3'	22:BB:2608:A:H5'	1.96	0.47
22:BB:2790:C:HO2'	48:B2:42:SER:CA	2.27	0.47
22:BB:530:G:H2'	22:BB:531:G:O4'	2.14	0.47
22:BB:571:U:O2'	22:BB:572:G:H5''	2.15	0.47
22:BB:631:G:H4'	22:BB:632:A:C2	2.49	0.47
22:BB:932:G:H2'	22:BB:933:G:C8	2.49	0.47
25:BE:143:GLN:HB2	25:BE:144:ARG:HE	1.79	0.47
26:BF:138:LYS:C	26:BF:140:ASN:H	2.17	0.47
30:BJ:21:PRO:O	30:BJ:22:PRO:O	2.32	0.47
30:BJ:70:LYS:O	30:BJ:72:PRO:HD3	2.14	0.47
1:AA:1470:G:C2'	32:BL:17:ARG:NH1	2.73	0.47
32:BL:83:ARG:H	32:BL:88:THR:HA	1.79	0.47
25:BE:19:ARG:CG	37:BQ:84:ALA:HB1	2.44	0.47
44:BX:30:VAL:HG12	44:BX:66:LYS:CE	2.44	0.47
1:CA:1111:A:H2'	1:CA:1112:C:C6	2.50	0.47
1:CA:1268:A:H2'	1:CA:1269:A:C8	2.48	0.47
1:CA:1288:A:H2'	1:CA:1289:A:O4'	2.14	0.47
1:CA:1343:G:C5'	9:CI:122:ALA:CB	2.60	0.47
1:CA:1374:A:O4'	7:CG:31:MET:HE2	2.14	0.47
1:CA:1439:C:H2'	1:CA:1440:C:H6	1.80	0.47
1:CA:332:G:C5'	20:CT:10:LEU:HB3	2.25	0.47
1:CA:545:C:O2	1:CA:549:C:H5'	2.15	0.47
3:CC:182:ILE:HG23	3:CC:202:ILE:O	2.14	0.47
4:CD:103:ASN:HD21	4:CD:107:ARG:NE	2.13	0.47
4:CD:128:VAL:HG12	4:CD:129:ASN:N	2.30	0.47
10:CJ:79:ARG:HD3	10:CJ:80:LYS:N	2.29	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:CL:58:VAL:HB	12:CL:66:VAL:CG2	2.42	0.47
13:CM:8:GLU:OE1	13:CM:22:ILE:HG23	2.14	0.47
13:CM:91:ARG:HB3	13:CM:96:LEU:O	2.14	0.47
14:CN:22:THR:HG23	14:CN:35:ARG:HD3	1.96	0.47
16:CP:7:ALA:O	16:CP:17:TYR:HA	2.14	0.47
19:CS:28:LYS:HG2	19:CS:29:ARG:N	2.29	0.47
1:CA:1311:G:H8	19:CS:2:PRO:N	2.08	0.47
47:D1:61:LYS:HD3	47:D1:61:LYS:O	2.14	0.47
47:D1:6:HIS:N	47:D1:7:PRO:CD	2.77	0.47
53:D7:13:LYS:HD3	53:D7:177:GLU:OE2	2.15	0.47
23:DA:117:G:HO2'	36:DP:53:ALA:HB2	1.79	0.47
22:DB:1067:G:H21	22:DB:1114:A:H61	1.63	0.47
22:DB:1162:A:C2'	38:DR:78:THR:HG23	2.45	0.47
22:DB:138:G:H2'	22:DB:139:A:H8	1.79	0.47
22:DB:1479:G:H2'	22:DB:1480:G:C8	2.50	0.47
22:DB:1759:A:H2'	22:DB:1760:G:H8	1.79	0.47
22:DB:1790:G:OP2	24:DD:258:LYS:HB2	2.14	0.47
22:DB:1804:U:O2	24:DD:46:ARG:CA	2.61	0.47
22:DB:1809:G:OP1	24:DD:63:ARG:HD3	2.13	0.47
22:DB:2284:U:H2'	27:DG:40:LEU:HD22	1.97	0.47
22:DB:2284:U:O4'	27:DG:152:MET:N	2.45	0.47
22:DB:2645:C:C2	28:DH:109:TYR:CZ	2.98	0.47
22:DB:525:A:H3'	22:DB:526:C:C6	2.49	0.47
22:DB:571:U:O2'	22:DB:572:G:H5''	2.15	0.47
22:DB:683:A:H5''	22:DB:684:C:O5'	2.15	0.47
22:DB:6:A:H2'	22:DB:7:G:O4'	2.15	0.47
22:DB:722:C:H2'	22:DB:723:C:C6	2.49	0.47
22:DB:818:G:H5'	22:DB:819:C:OP2	2.14	0.47
22:DB:844:G:H2'	22:DB:845:U:O4'	2.14	0.47
22:DB:1782:A:C2'	24:DD:205:VAL:HG23	2.42	0.47
22:DB:2599:U:O2'	25:DE:156:MET:O	2.30	0.47
29:DI:5:LEU:HD11	29:DI:7:GLU:O	2.14	0.47
30:DJ:96:VAL:O	30:DJ:136:VAL:HG12	2.13	0.47
32:DL:132:GLU:HG3	37:DQ:75:GLU:CB	2.45	0.47
22:DB:2541:U:C3'	32:DL:25:LEU:HD23	2.40	0.47
34:DN:27:TYR:CE2	34:DN:36:ILE:HG21	2.49	0.47
36:DP:29:LEU:HD22	36:DP:31:VAL:HG23	1.96	0.47
36:DP:8:ARG:NH2	36:DP:9:ARG:HE	2.12	0.47
22:DB:497:C:O2'	40:DT:77:ALA:HA	2.11	0.47
41:DU:46:PHE:CE1	41:DU:91:LEU:HD21	2.50	0.47
43:DW:19:ILE:HG23	43:DW:20:ALA:N	2.24	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:DX:41:ARG:NE	44:DX:41:ARG:N	2.63	0.47
44:DX:49:GLN:CB	44:DX:73:GLY:HA3	2.45	0.47
22:DB:999:A:P	46:DZ:9:VAL:CG2	3.03	0.47
1:EA:1268:A:H2'	1:EA:1269:A:C8	2.48	0.47
1:EA:673:G:C1'	18:ER:75:ILE:HG12	2.44	0.47
1:EA:940:C:H2'	1:EA:941:G:C8	2.50	0.47
2:EB:142:LEU:C	2:EB:146:GLN:HE21	2.17	0.47
1:EA:435:C:O2'	4:ED:156:GLU:O	2.33	0.47
4:ED:53:ASP:OD2	5:EE:107:ARG:HD2	2.15	0.47
7:EG:136:LYS:HE3	7:EG:137:LYS:HG3	1.97	0.47
8:EH:134:ILE:HG22	8:EH:135:CYS:SG	2.54	0.47
11:EK:27:ASN:CG	11:EK:28:THR:H	2.18	0.47
18:ER:32:ARG:NH2	18:ER:69:THR:HG23	2.29	0.47
22:FB:2397:A:H4'	49:F3:21:TYR:HE2	1.79	0.47
53:F7:148:ILE:O	53:F7:152:LYS:HG3	2.15	0.47
53:F7:34:LEU:CD2	53:F7:203:ILE:HA	2.45	0.47
22:FB:1685:A:H2	22:FB:1976:U:H1'	1.79	0.47
22:FB:1882:G:O2'	22:FB:1883:A:H5''	2.15	0.47
22:FB:2202:G:H2'	22:FB:2203:G:O4'	2.15	0.47
22:FB:2258:G:H1'	22:FB:2306:A:O4'	2.09	0.47
22:FB:2295:C:H2'	22:FB:2296:U:O4'	2.14	0.47
22:FB:2453:C:H2'	22:FB:2454:C:O4'	2.14	0.47
22:FB:2621:G:H2'	22:FB:2622:G:H8	1.78	0.47
22:FB:2735:C:O2	52:F6:19:ARG:NH1	2.45	0.47
22:FB:3115:G:N7	22:FB:3118:U:H5''	2.30	0.47
22:FB:504:G:C3'	40:FT:25:PHE:HD2	2.21	0.47
22:FB:504:G:H5''	40:FT:25:PHE:CE2	2.49	0.47
22:FB:525:A:H3'	22:FB:526:C:C6	2.49	0.47
22:FB:530:G:H2'	22:FB:531:G:O4'	2.15	0.47
22:FB:545:C:H1'	38:FR:53:LYS:HE3	1.95	0.47
22:FB:63:A:OP2	41:FU:71:GLN:O	2.26	0.47
22:FB:652:C:C3'	22:FB:653:G:H5'	2.45	0.47
22:FB:6:A:H2'	22:FB:7:G:O4'	2.15	0.47
22:FB:722:C:H2'	22:FB:723:C:C6	2.49	0.47
22:FB:1781:C:OP2	24:FD:221:GLN:HB3	2.14	0.47
22:FB:2577:A:OP1	24:FD:235:GLY:C	2.53	0.47
22:FB:1795:C:H4'	24:FD:250:TRP:HZ2	1.80	0.47
22:FB:1368:G:OP1	24:FD:46:ARG:NH2	2.47	0.47
26:FF:147:LYS:O	26:FF:167:VAL:HG12	2.14	0.47
26:FF:61:GLN:HA	26:FF:67:ALA:HB3	1.95	0.47
28:FH:19:ALA:HB2	28:FH:44:ARG:HG3	1.95	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:FM:91:ASP:HB3	33:FM:121:HIS:ND1	2.30	0.47
44:FX:41:ARG:N	44:FX:41:ARG:NE	2.63	0.47
1:GA:1001:A:N6	1:GA:1003:G:H21	2.13	0.47
1:GA:1097:C:H1'	1:GA:1169:A:C8	2.50	0.47
1:GA:1375:A:H2'	1:GA:1376:U:O4'	2.14	0.47
1:GA:1481:U:H2'	1:GA:1482:G:C8	2.50	0.47
1:GA:685:G:H5''	1:GA:686:U:OP1	2.14	0.47
1:GA:700:G:H5''	1:GA:704:A:H1'	1.96	0.47
2:GB:115:LEU:HG	2:GB:153:ARG:NH2	2.29	0.47
3:GC:182:ILE:HG23	3:GC:202:ILE:O	2.14	0.47
5:GE:80:ILE:HG23	8:GH:138:TRP:CZ3	2.49	0.47
10:GJ:61:GLU:OE2	14:GN:58:LYS:NZ	2.47	0.47
10:GJ:30:SER:CB	10:GJ:80:LYS:HE2	2.38	0.47
12:GL:41:ARG:HD2	12:GL:42:THR:O	2.13	0.47
13:GM:13:LYS:CE	13:GM:17:VAL:HG21	2.44	0.47
15:GO:79:ARG:HG2	15:GO:82:ILE:HD12	1.97	0.47
16:GP:31:LYS:HG2	16:GP:32:TYR:H	1.78	0.47
16:GP:39:TYR:O	16:GP:41:PRO:HD3	2.14	0.47
20:GT:13:LEU:HD23	20:GT:16:HIS:HB3	1.96	0.47
1:AA:180:U:O2	20:GT:98:PRO:O	2.33	0.47
22:HB:635:C:C4'	51:H5:63:PRO:HG3	2.43	0.47
22:HB:1042:G:OP1	52:H6:8:LYS:HE3	2.14	0.47
22:HB:1254:G:H2'	22:HB:1255:A:C4	2.50	0.47
22:HB:1327:C:H2'	22:HB:1328:C:O4'	2.15	0.47
22:HB:1366:A:N3	22:HB:1366:A:H2'	2.28	0.47
22:HB:1532:A:C3'	22:HB:1533:G:P	3.02	0.47
22:HB:1821:A:H61	22:HB:1959:U:H1'	1.79	0.47
22:HB:2295:C:H2'	22:HB:2296:U:O4'	2.14	0.47
22:HB:2523:G:H21	22:HB:2625:U:H4'	1.80	0.47
22:HB:2598:C:H2'	22:HB:2599:U:C6	2.49	0.47
22:HB:2653:A:H2'	22:HB:2654:A:C8	2.50	0.47
22:HB:3122:U:H5'	53:H7:130:PRO:C	2.35	0.47
22:HB:3167:U:C4	53:H7:98:ARG:HD2	2.42	0.47
22:HB:333:A:O2'	22:HB:350:U:H2'	2.15	0.47
22:HB:588:G:H8	22:HB:2000:U:N3	2.11	0.47
22:HB:477:A:H2	22:HB:695:G:N2	2.13	0.47
22:HB:808:C:H2'	22:HB:809:C:C6	2.49	0.47
22:HB:843:G:H1'	22:HB:956:A:C2	2.50	0.47
22:HB:844:G:H2'	22:HB:845:U:O4'	2.14	0.47
24:HD:48:ARG:O	24:HD:49:ILE:HD13	2.14	0.47
25:HE:23:VAL:HG12	25:HE:24:THR:N	2.30	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:HE:27:LEU:HD22	25:HE:28:ALA:N	2.29	0.47
25:HE:30:PRO:HB2	25:HE:49:ILE:H	1.79	0.47
26:HF:150:LEU:HD13	26:HF:158:ARG:NH2	2.29	0.47
28:HH:25:LYS:HZ3	28:HH:32:GLU:HA	1.79	0.47
30:HJ:21:PRO:O	30:HJ:22:PRO:O	2.32	0.47
32:HL:21:CYS:HA	32:HL:53:ALA:HA	1.97	0.47
22:HB:2465:G:P	34:HN:123:GLY:HA3	2.54	0.47
34:HN:71:PRO:HA	34:HN:95:VAL:HG12	1.97	0.47
22:HB:1237:G:O3'	39:HS:87:ARG:HB2	2.14	0.47
1:IA:1103:C:O2'	2:IB:111:ARG:HB3	2.13	0.47
1:IA:940:C:H2'	1:IA:941:G:C8	2.50	0.47
2:IB:97:TRP:CE3	2:IB:172:ILE:HB	2.50	0.47
2:IB:73:THR:HG21	2:IB:95:GLN:HA	1.96	0.47
7:IG:70:LYS:HG2	7:IG:96:GLN:OE1	2.15	0.47
10:IJ:46:ARG:HD2	14:IN:59:ALA:CB	2.43	0.47
11:IK:102:GLY:O	11:IK:103:LEU:HD23	2.14	0.47
14:IN:22:THR:HG23	14:IN:35:ARG:HD3	1.96	0.47
22:JB:1379:A:H5'	47:J1:1:MET:HE1	1.92	0.47
47:J1:6:HIS:N	47:J1:7:PRO:CD	2.77	0.47
22:JB:16:G:C5'	48:J2:17:ASP:HB3	0.87	0.47
48:J2:4:HIS:CG	48:J2:5:PRO:HD2	2.49	0.47
22:JB:2350:G:O3'	49:J3:46:LYS:CD	2.61	0.47
49:J3:16:ALA:HB2	49:J3:50:PHE:CG	2.48	0.47
22:JB:53:G:C5'	50:J4:36:ALA:CB	2.82	0.47
53:J7:174:MSE:HG2	53:J7:175:LYS:HD2	1.96	0.47
22:JB:1029:C:H3'	22:JB:1030:U:C5'	2.44	0.47
22:JB:1236:G:H1'	22:JB:1240:G:N2	2.28	0.47
22:JB:1265:G:H21	38:JR:32:TYR:HA	1.79	0.47
22:JB:1401:G:H2'	22:JB:1402:G:H8	1.79	0.47
22:JB:1479:G:H2'	22:JB:1480:G:C8	2.50	0.47
1:IA:1517:G:N9	22:JB:1902:A:O3'	2.47	0.47
22:JB:430:C:C2	22:JB:2386:G:N2	2.82	0.47
22:JB:428:A:C2	22:JB:2388:G:N1	2.82	0.47
22:JB:2494:C:N3	22:JB:2548:G:C2	2.73	0.47
22:JB:2598:C:H2'	22:JB:2599:U:C6	2.49	0.47
22:JB:2720:A:H2'	22:JB:2721:A:O4'	2.14	0.47
22:JB:2602:G:O5'	22:JB:2800:C:O2'	2.33	0.47
22:JB:1726:C:O2'	22:JB:2833:C:C2'	2.62	0.47
22:JB:513:A:H1'	22:JB:515:A:N7	2.30	0.47
22:JB:596:C:O2	33:JM:44:GLY:O	2.33	0.47
22:JB:477:A:H2	22:JB:695:G:N2	2.13	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:JB:809:C:H2'	22:JB:810:U:C6	2.49	0.47
22:JB:81:C:H5'	22:JB:306:G:HO2'	1.78	0.47
22:JB:1814:G:H5'	24:JD:88:ARG:HH21	1.80	0.47
25:JE:27:LEU:HD22	25:JE:28:ALA:N	2.29	0.47
25:JE:33:ILE:HG22	25:JE:34:VAL:HG13	1.97	0.47
26:JF:118:VAL:HA	26:JF:189:ASP:HB3	1.96	0.47
28:JH:160:LYS:N	28:JH:160:LYS:HZ2	2.13	0.47
30:JJ:70:LYS:O	30:JJ:72:PRO:HD3	2.14	0.47
22:JB:1088:A:C4'	30:JJ:91:PRO:O	2.56	0.47
33:JM:22:GLY:H	33:JM:23:PRO:HD2	1.79	0.47
33:JM:95:ALA:HB2	33:JM:100:ARG:CB	2.42	0.47
34:JN:44:LYS:HZ3	34:JN:46:ASN:HB3	1.78	0.47
36:JP:88:VAL:HG12	36:JP:89:PHE:N	2.30	0.47
40:JT:90:LEU:HD12	40:JT:128:VAL:HB	1.96	0.47
42:JV:107:ALA:HB3	42:JV:111:GLY:HA3	1.96	0.47
22:JB:74:G:N3	45:JY:55:THR:HG22	2.30	0.47
1:AA:1210:C:H2'	1:AA:1211:U:O4'	2.15	0.47
1:AA:1405:G:H2'	1:AA:1406:U:C6	2.49	0.47
1:AA:1471:G:H5''	32:BL:17:ARG:HD3	1.96	0.47
1:AA:270:A:OP1	22:BB:1738:U:H4'	2.15	0.47
1:AA:271:C:H2'	1:AA:272:C:C6	2.49	0.47
1:AA:273:A:C2'	17:AQ:15:MET:CA	2.74	0.47
1:AA:279:A:OP1	1:AA:281:G:H5'	2.14	0.47
1:AA:287:U:H2'	1:AA:288:A:C8	2.50	0.47
1:AA:286:G:H2'	1:AA:287:U:O4'	2.14	0.47
1:AA:355:C:H2'	1:AA:356:A:O4'	2.15	0.47
1:AA:48:C:H4'	1:AA:49:U:OP1	2.14	0.47
1:AA:500:G:H1'	1:AA:547:A:N1	2.30	0.47
1:AA:621:A:H5''	4:AD:139:ARG:CZ	2.44	0.47
1:AA:890:G:H1'	1:AA:906:G:O6	2.14	0.47
3:AC:148:GLY:HA2	3:AC:170:GLN:O	2.15	0.47
3:AC:40:ARG:HH11	3:AC:40:ARG:HG3	1.78	0.47
4:AD:21:LEU:HD21	4:AD:67:ILE:HG23	1.96	0.47
1:AA:1378:C:H5''	7:AG:6:ARG:NH2	2.29	0.47
1:AA:1348:U:OP2	9:AI:109:VAL:HA	2.15	0.47
11:AK:27:ASN:CG	11:AK:28:THR:H	2.18	0.47
12:AL:16:GLU:O	12:AL:17:LYS:CB	2.62	0.47
19:AS:28:LYS:HG2	19:AS:29:ARG:N	2.29	0.47
22:BB:2398:U:C6	51:B5:31:HIS:O	2.67	0.47
53:B7:148:ILE:O	53:B7:152:LYS:HG3	2.15	0.47
22:BB:1081:A:H1'	30:BJ:11:GLN:HG3	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:BB:1223:G:H5''	22:BB:1224:A:C8	2.50	0.47
22:BB:1296:G:O2'	22:BB:1297:A:H3'	2.15	0.47
22:BB:1468:A:OP1	22:BB:1469:U:H5''	2.14	0.47
1:AA:1495:U:C1'	22:BB:1895:A:C2	2.95	0.47
22:BB:1923:U:O2'	22:BB:1924:C:H6	1.97	0.47
22:BB:2241:U:H2'	22:BB:2242:C:C6	2.50	0.47
22:BB:2295:C:H2'	22:BB:2296:U:O4'	2.14	0.47
22:BB:2310:G:O2'	22:BB:2311:U:H5'	2.15	0.47
22:BB:2457:A:HO2'	22:BB:2507:U:HO2'	1.58	0.47
22:BB:2464:G:OP1	34:BN:44:LYS:HB2	2.14	0.47
22:BB:2522:G:C5	22:BB:2745:A:H1'	2.49	0.47
22:BB:2603:G:C8	48:B2:22:HIS:CE1	3.03	0.47
22:BB:2720:A:H2'	22:BB:2721:A:O4'	2.13	0.47
22:BB:1725:C:O2'	22:BB:2835:A:H1'	2.15	0.47
22:BB:644:A:H2'	22:BB:645:G:O4'	2.15	0.47
22:BB:652:C:C3'	22:BB:653:G:H5'	2.45	0.47
22:BB:1091:C:O4'	30:BJ:126:THR:HA	2.14	0.47
30:BJ:55:VAL:HB	30:BJ:69:THR:OG1	2.15	0.47
31:BK:100:TYR:O	31:BK:101:THR:HG22	2.15	0.47
31:BK:64:GLY:HA2	31:BK:70:PHE:CZ	2.50	0.47
32:BL:23:ARG:NH2	32:BL:24:VAL:HG12	2.30	0.47
22:BB:683:A:P	33:BM:45:LYS:NZ	2.87	0.47
35:BO:68:GLN:NE2	35:BO:68:GLN:H	2.12	0.47
35:BO:99:ARG:HB3	35:BO:109:THR:HG21	1.97	0.47
36:BP:29:LEU:HD22	36:BP:31:VAL:HG23	1.96	0.47
37:BQ:55:ILE:HG21	37:BQ:69:ARG:NH1	2.30	0.47
22:BB:456:C:H4'	38:BR:2:PRO:HG2	1.95	0.47
22:BB:887:G:C4	43:BW:167:THR:HG22	2.47	0.47
43:BW:19:ILE:HG23	43:BW:20:ALA:N	2.24	0.47
44:BX:4:LYS:HE3	44:BX:11:LYS:HG2	1.96	0.47
45:BY:51:ALA:C	45:BY:53:LEU:N	2.68	0.47
1:CA:1210:C:H2'	1:CA:1211:U:O4'	2.15	0.47
1:CA:1442:G:O6	1:CA:1461:G:H1'	2.15	0.47
1:CA:1392:G:C4'	1:CA:1531:A:H5''	2.44	0.47
1:CA:35:G:H21	12:CL:118:SER:HG	1.62	0.47
1:CA:666:G:N2	15:CO:49:ASP:OD2	2.48	0.47
1:CA:854:G:H3'	1:CA:871:U:O4	2.14	0.47
1:CA:585:G:O2'	1:CA:879:C:H5'	2.14	0.47
1:CA:929:G:H2'	1:CA:930:C:C6	2.50	0.47
2:CB:8:LYS:HD2	2:CB:8:LYS:H	1.80	0.47
3:CC:3:ASN:H	3:CC:3:ASN:HD22	1.61	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:CD:13:ARG:NH1	4:CD:36:ARG:HD3	2.29	0.47
4:CD:21:LEU:HD21	4:CD:67:ILE:HG23	1.95	0.47
7:CG:136:LYS:HE3	7:CG:137:LYS:HG3	1.97	0.47
10:CJ:46:ARG:HD3	10:CJ:64:GLU:HB3	1.95	0.47
10:CJ:63:PHE:CZ	14:CN:58:LYS:HD3	2.49	0.47
13:CM:97:PRO:HA	13:CM:110:ARG:NH1	2.29	0.47
15:CO:7:GLU:O	15:CO:10:LYS:HG2	2.15	0.47
15:CO:67:LEU:HB3	15:CO:71:GLN:NE2	2.29	0.47
16:CP:71:ARG:HE	16:CP:74:LEU:HD12	1.80	0.47
18:CR:68:LYS:O	18:CR:72:ARG:HG3	2.14	0.47
47:D1:30:GLU:HG3	47:D1:32:HIS:CE1	2.49	0.47
40:DT:52:ASP:OD1	48:D2:29:ASN:ND2	2.48	0.47
50:D4:21:ARG:HB2	50:D4:31:LEU:HD22	1.95	0.47
53:D7:34:LEU:CD2	53:D7:203:ILE:HA	2.45	0.47
22:DB:1595:A:H2'	22:DB:1595:A:N3	2.29	0.47
22:DB:162:C:H2'	22:DB:163:A:C8	2.49	0.47
22:DB:1672:A:H3'	22:DB:1673:C:C6	2.49	0.47
22:DB:1813:A:H2'	22:DB:1814:G:C8	2.49	0.47
22:DB:1816:G:C2	24:DD:252:LYS:HD3	2.50	0.47
22:DB:1878:C:H2'	22:DB:1879:G:H5'	1.96	0.47
22:DB:1923:U:O2'	22:DB:1924:C:H6	1.97	0.47
22:DB:1685:A:H2	22:DB:1976:U:H1'	1.79	0.47
22:DB:2310:G:O2'	22:DB:2311:U:H5'	2.15	0.47
22:DB:2619:G:N2	22:DB:2755:A:H1'	2.29	0.47
22:DB:456:C:C5'	38:DR:2:PRO:O	2.63	0.47
22:DB:530:G:H2'	22:DB:531:G:O4'	2.15	0.47
22:DB:596:C:H5''	33:DM:28:LYS:HZ2	1.77	0.47
22:DB:716:U:C2	22:DB:717:G:H1'	2.49	0.47
22:DB:869:C:C2	44:DX:24:LYS:CG	2.98	0.47
22:DB:872:G:H1'	22:DB:2247:A:N3	2.25	0.47
22:DB:1816:G:OP2	24:DD:54:ILE:HD11	2.13	0.47
22:DB:2590:U:H5'	25:DE:132:LYS:NZ	2.29	0.47
25:DE:33:ILE:HG22	25:DE:34:VAL:HG13	1.97	0.47
30:DJ:55:VAL:HB	30:DJ:69:THR:OG1	2.15	0.47
31:DK:116:ARG:HA	31:DK:116:ARG:NE	2.29	0.47
32:DL:25:LEU:HD13	32:DL:26:ASN:N	2.30	0.47
33:DM:46:GLY:O	33:DM:47:ALA:HB3	2.14	0.47
35:DO:54:THR:O	35:DO:62:SER:HB3	2.15	0.47
36:DP:88:VAL:HG12	36:DP:89:PHE:N	2.30	0.47
23:DA:51:G:OP1	36:DP:97:HIS:O	2.33	0.47
38:DR:24:PHE:HB3	38:DR:28:ARG:HE	1.76	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:DT:34:SER:O	40:DT:38:VAL:HG23	2.15	0.47
40:DT:90:LEU:HD12	40:DT:128:VAL:HB	1.97	0.47
34:DN:61:ARG:CA	43:DW:112:LEU:CD2	2.90	0.47
45:DY:49:GLU:OE1	45:DY:50:VAL:HG23	2.14	0.47
46:DZ:53:VAL:HG13	46:DZ:54:GLN:N	2.29	0.47
46:DZ:5:LEU:CD1	46:DZ:31:SER:HB3	2.44	0.47
1:EA:110:C:O2'	16:EP:27:LYS:HA	2.15	0.47
1:EA:1185:G:C2'	9:EI:110:GLU:CD	2.83	0.47
1:EA:1228:C:H3'	13:EM:105:THR:CG2	2.45	0.47
1:EA:1288:A:H2'	1:EA:1289:A:O4'	2.14	0.47
1:EA:215:C:H2'	1:EA:216:C:C6	2.49	0.47
1:EA:287:U:H2'	1:EA:288:A:C8	2.50	0.47
1:EA:289:G:H2'	1:EA:290:C:C6	2.50	0.47
1:EA:333:G:H2'	1:EA:334:C:H6	1.80	0.47
1:EA:48:C:H4'	1:EA:49:U:OP1	2.14	0.47
1:EA:545:C:O2	1:EA:549:C:H5'	2.15	0.47
1:EA:706:A:C4'	11:EK:29:ILE:HG21	2.45	0.47
1:EA:913:A:H4'	1:EA:914:A:O5'	2.15	0.47
2:EB:115:LEU:HG	2:EB:153:ARG:NH2	2.29	0.47
2:EB:8:LYS:HD2	2:EB:8:LYS:H	1.80	0.47
4:ED:11:LEU:HD13	4:ED:66:ARG:HB3	1.97	0.47
17:EQ:9:VAL:HA	17:EQ:55:ASP:O	2.14	0.47
47:F1:30:GLU:HG3	47:F1:32:HIS:CE1	2.50	0.47
50:F4:21:ARG:HB2	50:F4:31:LEU:HD22	1.94	0.47
22:FB:1005:U:OP1	38:FR:50:ARG:O	2.32	0.47
22:FB:1043:A:C4'	52:F6:23:VAL:HG23	2.44	0.47
22:FB:1468:A:OP1	22:FB:1469:U:H5''	2.14	0.47
22:FB:1782:A:O2'	24:FD:205:VAL:CG2	2.62	0.47
22:FB:2229:G:H5'	22:FB:2230:G:OP1	2.14	0.47
22:FB:2264:C:O5'	49:F3:28:ARG:CG	2.60	0.47
22:FB:2310:G:O2'	22:FB:2311:U:H5'	2.15	0.47
22:FB:2448:A:H1'	34:FN:57:ARG:HD3	0.65	0.47
22:FB:2607:C:H3'	22:FB:2608:A:H5'	1.96	0.47
22:FB:459:A:C6	22:FB:484:G:H1'	2.50	0.47
22:FB:683:A:H5''	22:FB:684:C:O5'	2.15	0.47
22:FB:687:G:C5'	26:FF:70:GLY:CA	2.93	0.47
30:FJ:100:ASN:HB3	30:FJ:103:GLN:CB	2.44	0.47
30:FJ:125:ASN:ND2	30:FJ:126:THR:N	2.62	0.47
34:FN:67:ILE:HG13	34:FN:102:ARG:CA	2.43	0.47
35:FO:84:ALA:N	35:FO:85:PRO:HD2	2.30	0.47
38:FR:35:ALA:O	38:FR:39:LEU:HD23	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:FS:69:ILE:HD13	39:FS:90:PHE:HB3	1.97	0.47
42:FV:48:VAL:HG13	42:FV:49:GLU:N	2.29	0.47
44:FX:4:LYS:HE3	44:FX:11:LYS:HG2	1.96	0.47
46:FZ:53:VAL:HG13	46:FZ:54:GLN:N	2.29	0.47
46:FZ:4:LYS:CD	46:FZ:5:LEU:H	2.20	0.47
1:GA:1040:U:H2'	1:GA:1041:A:C8	2.49	0.47
1:GA:1389:C:H2'	1:GA:1390:U:C6	2.50	0.47
1:GA:1405:G:H2'	1:GA:1406:U:C6	2.49	0.47
1:GA:16:A:C4'	5:GE:15:ARG:CB	2.92	0.47
1:GA:345:C:H5''	1:GA:346:G:C2	2.50	0.47
1:GA:737:A:H2'	1:GA:738:C:C5	2.49	0.47
1:GA:876:G:O2'	8:GH:4:ASP:HB2	2.12	0.47
1:GA:940:C:H2'	1:GA:941:G:C8	2.50	0.47
13:GM:91:ARG:HB3	13:GM:96:LEU:O	2.14	0.47
19:GS:29:ARG:N	19:GS:29:ARG:HD2	2.30	0.47
1:GA:323:U:O4'	20:GT:19:SER:HB2	2.12	0.47
47:H1:12:CYS:O	47:H1:13:LYS:HG2	2.13	0.47
47:H1:61:LYS:HD3	47:H1:61:LYS:O	2.14	0.47
22:HB:1288:A:C2	35:HO:15:SER:HB3	2.49	0.47
22:HB:1401:G:H2'	22:HB:1402:G:H8	1.79	0.47
22:HB:1479:G:H2'	22:HB:1480:G:C8	2.50	0.47
22:HB:1650:A:H2'	22:HB:1652:G:N7	2.29	0.47
22:HB:644:A:C1'	22:HB:2382:C:O2'	2.44	0.47
22:HB:2608:A:N6	22:HB:2869:U:O2	2.48	0.47
22:HB:418:C:H6	53:H7:191:GLU:CG	2.28	0.47
22:HB:505:G:H4'	40:HT:83:ASP:CB	2.33	0.47
22:HB:513:A:H1'	22:HB:515:A:N7	2.30	0.47
22:HB:567:G:H5'	31:HK:73:ASN:C	2.35	0.47
22:HB:637:G:N2	33:HM:74:VAL:HG22	2.30	0.47
24:HD:31:LYS:HB3	24:HD:83:GLU:HG3	1.95	0.47
25:HE:52:ALA:CB	37:HQ:5:ILE:CD1	2.93	0.47
26:HF:140:ASN:OD1	26:HF:142:LEU:HD23	2.14	0.47
26:HF:58:MET:CG	26:HF:69:HIS:HB3	2.44	0.47
27:HG:72:LYS:HG2	27:HG:81:GLN:HE22	1.79	0.47
27:HG:95:ARG:NH1	27:HG:98:VAL:HG11	2.29	0.47
31:HK:116:ARG:NE	31:HK:116:ARG:HA	2.29	0.47
32:HL:29:ILE:HG22	32:HL:30:GLY:H	1.80	0.47
32:HL:73:VAL:HG11	32:HL:99:ILE:HB	1.96	0.47
22:HB:1264:C:OP1	38:HR:6:THR:CB	2.62	0.47
44:HX:11:LYS:HB2	44:HX:11:LYS:NZ	2.30	0.47
22:HB:95:G:H4'	45:HY:45:GLN:CG	2.42	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:IA:1040:U:H2'	1:IA:1041:A:C8	2.49	0.47
1:IA:1484:C:O4'	22:JB:1943:A:O2'	2.31	0.47
1:IA:215:C:H2'	1:IA:216:C:C6	2.49	0.47
1:IA:737:A:H2'	1:IA:738:C:C5	2.49	0.47
1:IA:854:G:H3'	1:IA:871:U:O4	2.14	0.47
1:IA:865:A:C2	1:IA:918:A:H4'	2.49	0.47
2:IB:31:TYR:CE2	2:IB:202:PRO:HG3	2.49	0.47
3:IC:125:GLU:HB3	3:IC:126:ARG:HD2	1.96	0.47
8:IH:97:VAL:HG13	8:IH:98:LYS:H	1.79	0.47
1:IA:966:G:O2'	9:II:128:ARG:N	2.48	0.47
9:II:95:LYS:C	9:II:98:PRO:HD2	2.35	0.47
15:IO:21:ASP:OD1	15:IO:24:SER:HB2	2.14	0.47
17:IQ:62:SER:HB3	17:IQ:72:ARG:HG3	1.96	0.47
19:IS:29:ARG:HD2	19:IS:29:ARG:N	2.30	0.47
53:J7:155:VAL:HG11	53:J7:169:ILE:HA	1.97	0.47
23:JA:96:C:H2'	23:JA:97:C:C6	2.49	0.47
22:JB:1030:U:OP1	22:JB:1046:U:O4'	2.32	0.47
22:JB:138:G:H2'	22:JB:139:A:H8	1.79	0.47
22:JB:1433:A:H2'	22:JB:1434:U:C5	2.49	0.47
22:JB:1650:A:H2'	22:JB:1652:G:N7	2.29	0.47
22:JB:1759:A:H2'	22:JB:1760:G:H8	1.79	0.47
22:JB:1878:C:H2'	22:JB:1879:G:H5'	1.96	0.47
22:JB:2202:G:H2'	22:JB:2203:G:O4'	2.14	0.47
22:JB:530:G:H2'	22:JB:531:G:O4'	2.15	0.47
22:JB:57:G:OP2	41:JU:74:ASP:N	2.48	0.47
22:JB:647:G:C6	33:JM:128:ALA:CB	2.98	0.47
22:JB:66:U:C2	22:JB:87:G:C2	3.02	0.47
22:JB:843:G:H1'	22:JB:956:A:C2	2.50	0.47
24:JD:48:ARG:O	24:JD:49:ILE:HD13	2.14	0.47
25:JE:13:GLN:H	25:JE:22:PRO:HG2	1.79	0.47
28:JH:140:LEU:HB3	28:JH:144:VAL:HG13	1.97	0.47
33:JM:91:ASP:HB3	33:JM:121:HIS:ND1	2.30	0.47
34:JN:67:ILE:HG13	34:JN:102:ARG:CA	2.43	0.47
35:JO:84:ALA:N	35:JO:85:PRO:HD2	2.30	0.47
35:JO:99:ARG:HB3	35:JO:109:THR:HG21	1.97	0.47
37:JQ:63:ARG:HA	37:JQ:63:ARG:NE	2.27	0.47
38:JR:37:GLN:CA	38:JR:40:LEU:HD23	2.45	0.47
22:JB:1203:A:P	39:JS:81:ARG:NH2	2.77	0.47
22:JB:530:G:H4'	40:JT:94:GLU:HG2	1.97	0.47
41:JU:92:ALA:O	45:JY:27:GLU:OE2	2.32	0.47
1:AA:1026:G:H3'	1:AA:1035:A:H61	1.79	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:545:C:O2	1:AA:549:C:H5'	2.15	0.47
1:AA:560:U:C2	5:AE:88:LYS:NZ	2.78	0.47
1:AA:618:C:H2'	1:AA:620:C:N4	2.26	0.47
1:AA:697:U:H2'	1:AA:698:G:H5'	1.97	0.47
1:AA:957:U:H2'	1:AA:959:A:OP2	2.14	0.47
2:AB:104:ASN:HD22	2:AB:108:ILE:HD11	1.78	0.47
2:AB:31:TYR:CE2	2:AB:202:PRO:HG3	2.49	0.47
2:AB:17:PHE:HB2	2:AB:41:ILE:HG21	1.96	0.47
2:AB:80:ILE:HA	2:AB:83:MET:HG2	1.96	0.47
3:AC:18:TRP:HE1	14:AN:53:LEU:N	2.11	0.47
15:AO:71:GLN:HB3	15:AO:78:TYR:CE1	2.50	0.47
17:AQ:12:SER:HB3	17:AQ:20:THR:CB	2.45	0.47
1:AA:735:C:C2	18:AR:75:ILE:HD13	2.49	0.47
1:AA:1320:C:C5	19:AS:36:ARG:O	2.68	0.47
19:AS:40:ILE:HG13	19:AS:71:LEU:HD21	1.96	0.47
51:B5:15:LYS:HD3	51:B5:64:ARG:HH12	1.80	0.47
23:BA:79:U:H2'	23:BA:80:A:H8	1.79	0.47
22:BB:1141:U:C5'	22:BB:2494:C:O2'	2.62	0.47
22:BB:1173:G:H2'	22:BB:1174:G:C8	2.50	0.47
22:BB:785:U:H4'	22:BB:1368:G:O3'	2.15	0.47
22:BB:138:G:H2'	22:BB:139:A:H8	1.79	0.47
22:BB:1585:A:N7	22:BB:1587:A:N1	2.62	0.47
22:BB:1613:G:C5'	22:BB:1614:C:P	3.03	0.47
22:BB:1813:A:H2'	22:BB:1814:G:C8	2.50	0.47
22:BB:1878:C:H2'	22:BB:1879:G:H5'	1.96	0.47
22:BB:1831:G:C5'	22:BB:1910:A:H4'	2.42	0.47
22:BB:425:A:C6	22:BB:2391:A:H1'	2.50	0.47
22:BB:2621:G:H2'	22:BB:2622:G:H8	1.78	0.47
22:BB:2653:A:H2'	22:BB:2654:A:C8	2.50	0.47
22:BB:2619:G:N2	22:BB:2755:A:H1'	2.29	0.47
22:BB:3128:G:C2	22:BB:3161:C:H1'	2.50	0.47
22:BB:3867:G:N7	22:BB:3875:A:N6	2.63	0.47
22:BB:525:A:H3'	22:BB:526:C:H6	1.79	0.47
22:BB:598:U:H4'	26:BF:89:ARG:HH21	1.79	0.47
22:BB:648:A:N1	33:BM:109:LEU:O	2.48	0.47
22:BB:477:A:H2	22:BB:695:G:N2	2.13	0.47
22:BB:6:A:H2'	22:BB:7:G:O4'	2.15	0.47
22:BB:719:A:H61	22:BB:739:G:C4'	2.28	0.47
22:BB:762:A:H2'	22:BB:763:A:C4	2.50	0.47
22:BB:818:G:H5'	22:BB:819:C:OP2	2.14	0.47
24:BD:118:ASN:HB3	24:BD:123:ALA:HB1	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:BF:147:LYS:O	26:BF:167:VAL:HG12	2.14	0.47
27:BG:86:GLY:C	27:BG:87:ILE:HG13	2.34	0.47
28:BH:160:LYS:HZ2	28:BH:160:LYS:N	2.13	0.47
30:BJ:91:PRO:O	30:BJ:92:ASN:CB	2.63	0.47
34:BN:68:ARG:HB2	34:BN:101:GLY:O	2.15	0.47
35:BO:103:ARG:HH11	35:BO:108:VAL:HG11	1.79	0.47
37:BQ:13:LEU:O	37:BQ:13:LEU:HD13	2.15	0.47
38:BR:22:LYS:HZ2	38:BR:24:PHE:HE2	1.62	0.47
40:BT:27:VAL:CG2	40:BT:125:THR:H	2.28	0.47
40:BT:90:LEU:HD12	40:BT:128:VAL:HB	1.97	0.47
41:BU:46:PHE:CE1	41:BU:91:LEU:HD21	2.50	0.47
42:BV:48:VAL:HG13	42:BV:49:GLU:N	2.29	0.47
23:BA:107:C:C5'	43:BW:89:GLY:C	2.50	0.47
44:BX:11:LYS:NZ	44:BX:11:LYS:HB2	2.30	0.47
1:CA:279:A:OP1	1:CA:281:G:H5'	2.14	0.47
1:CA:48:C:H4'	1:CA:49:U:OP1	2.14	0.47
1:CA:954:G:O4'	13:CM:123:ALA:HB2	2.14	0.47
1:CA:980:C:H2'	1:CA:981:U:O4'	2.15	0.47
2:CB:166:ASP:HB2	2:CB:205:ASP:CB	2.45	0.47
9:CI:121:ARG:NH1	9:CI:121:ARG:HG2	2.30	0.47
1:CA:1254:C:P	10:CJ:45:ARG:NH1	2.88	0.47
10:CJ:30:SER:CB	10:CJ:80:LYS:HE2	2.38	0.47
11:CK:102:GLY:O	11:CK:103:LEU:HD23	2.14	0.47
11:CK:27:ASN:CG	11:CK:28:THR:H	2.18	0.47
13:CM:17:VAL:O	13:CM:21:TYR:HB2	2.14	0.47
13:CM:56:LEU:HA	13:CM:60:VAL:HG23	1.96	0.47
17:CQ:12:SER:HB3	17:CQ:20:THR:CB	2.45	0.47
17:CQ:63:ARG:HG2	17:CQ:64:PRO:HD2	1.95	0.47
18:CR:73:ALA:CB	18:CR:78:LEU:HB3	2.45	0.47
20:CT:13:LEU:HD23	20:CT:16:HIS:HB3	1.96	0.47
47:D1:49:PHE:H	47:D1:69:ARG:CG	2.23	0.47
53:D7:47:LYS:HG2	53:D7:159:THR:CB	2.43	0.47
22:DB:561:U:O5'	22:DB:1233:A:N1	2.48	0.47
22:DB:1923:U:H2'	22:DB:1925:C:H41	1.79	0.47
22:DB:2261:G:H4'	22:DB:2262:C:OP2	2.13	0.47
22:DB:2615:U:H5'	25:DE:79:ARG:HB2	1.96	0.47
22:DB:2645:C:H2'	28:DH:109:TYR:OH	2.15	0.47
22:DB:2646:C:C6	28:DH:109:TYR:CD2	3.03	0.47
22:DB:2720:A:H2'	22:DB:2721:A:O4'	2.14	0.47
22:DB:2825:A:C4	22:DB:2844:G:H1'	2.50	0.47
22:DB:571:U:C2'	22:DB:572:G:H5''	2.45	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:DB:644:A:H2'	22:DB:645:G:O4'	2.15	0.47
22:DB:923:A:H1'	22:DB:2243:C:C4'	2.39	0.47
24:DD:177:LEU:HD21	24:DD:183:ARG:HG3	1.97	0.47
24:DD:215:LEU:N	24:DD:215:LEU:HD12	2.29	0.47
24:DD:87:ASN:HB3	24:DD:217:ARG:NH2	2.30	0.47
25:DE:23:VAL:HG12	25:DE:24:THR:N	2.30	0.47
22:DB:2736:U:C2	28:DH:67:LEU:HD23	2.44	0.47
30:DJ:70:LYS:O	30:DJ:72:PRO:HD3	2.14	0.47
32:DL:76:ARG:HB3	32:DL:90:ARG:NH2	2.28	0.47
22:DB:1469:U:H3	35:DO:60:LEU:HD12	1.69	0.47
35:DO:84:ALA:N	35:DO:85:PRO:HD2	2.30	0.47
39:DS:56:VAL:HG12	39:DS:57:GLN:HG2	1.96	0.47
43:DW:18:MET:N	43:DW:36:ARG:HH12	2.11	0.47
34:DN:131:LYS:OXT	43:DW:43:PHE:CE2	2.68	0.47
22:DB:2335:U:C5'	44:DX:17:ASN:OD1	2.56	0.47
45:DY:51:ALA:C	45:DY:53:LEU:N	2.68	0.47
1:EA:1205:U:H4'	3:EC:195:VAL:H	1.79	0.47
1:EA:278:G:N2	17:EQ:96:GLN:CG	2.73	0.47
1:EA:345:C:H5''	1:EA:346:G:C2	2.50	0.47
1:EA:697:U:H2'	1:EA:698:G:H5'	1.97	0.47
1:EA:854:G:H3'	1:EA:871:U:O4	2.14	0.47
3:EC:22:TRP:CZ2	3:EC:33:LEU:HG	2.50	0.47
6:EF:71:ARG:O	6:EF:75:LEU:HB2	2.15	0.47
12:EL:45:PRO:HD2	12:EL:49:ASN:O	2.15	0.47
15:EO:79:ARG:HG2	15:EO:82:ILE:HD12	1.97	0.47
6:EF:49:ALA:HB3	18:ER:80:PRO:CD	2.39	0.47
22:FB:111:G:O3'	22:FB:112:U:P	2.72	0.47
22:FB:1223:G:H5''	22:FB:1224:A:C8	2.50	0.47
22:FB:1478:U:H2'	22:FB:1479:G:H5'	1.97	0.47
22:FB:1672:A:H3'	22:FB:1673:C:C6	2.49	0.47
22:FB:1674:C:H5''	25:FE:134:TRP:CB	2.45	0.47
22:FB:1827:G:H1	22:FB:1913:G:N2	2.12	0.47
22:FB:1878:C:H2'	22:FB:1879:G:H5'	1.96	0.47
22:FB:226:C:H5	47:F1:28:ARG:HH22	1.59	0.47
22:FB:2292:C:H2'	22:FB:2293:G:C8	2.50	0.47
22:FB:236:C:O2'	22:FB:632:A:O4'	2.32	0.47
22:FB:2765:C:O2	25:FE:65:GLY:HA3	2.15	0.47
22:FB:37:C:H2'	22:FB:38:G:H8	1.75	0.47
22:FB:525:A:H3'	22:FB:526:C:H6	1.79	0.47
22:FB:571:U:C2'	22:FB:572:G:H5''	2.45	0.47
22:FB:477:A:H2	22:FB:695:G:N2	2.13	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:FB:59:G:C5	22:FB:73:A:N1	2.83	0.47
22:FB:762:A:H2'	22:FB:763:A:C4	2.50	0.47
24:FD:225:ALA:HB1	24:FD:227:ASN:OD1	2.14	0.47
24:FD:48:ARG:O	24:FD:49:ILE:HD13	2.14	0.47
25:FE:23:VAL:HG12	25:FE:24:THR:N	2.30	0.47
26:FF:150:LEU:HD13	26:FF:158:ARG:NH2	2.29	0.47
30:FJ:55:VAL:HB	30:FJ:69:THR:OG1	2.15	0.47
31:FK:42:VAL:HA	31:FK:166:LEU:HD23	1.95	0.47
31:FK:49:VAL:HG12	31:FK:87:GLN:HG3	1.97	0.47
32:FL:2:ILE:HD13	32:FL:2:ILE:N	2.30	0.47
32:FL:77:THR:H	32:FL:90:ARG:HH22	1.61	0.47
35:FO:36:THR:O	35:FO:40:LYS:HB3	2.15	0.47
40:FT:73:ASN:N	40:FT:73:ASN:HD22	2.11	0.47
22:FB:312:G:C3'	42:FV:89:GLY:H	2.21	0.47
22:FB:868:U:H1'	44:FX:25:LYS:HE3	1.60	0.47
45:FY:39:GLN:N	45:FY:40:PRO:HD3	2.28	0.47
46:FZ:5:LEU:CD1	46:FZ:31:SER:HB3	2.44	0.47
1:GA:1116:C:H2'	1:GA:1117:G:H5''	1.96	0.47
1:GA:1528:U:C5'	1:GA:1529:G:H21	2.28	0.47
1:GA:1393:U:OP1	1:GA:1530:G:OP1	2.32	0.47
1:GA:333:G:H2'	1:GA:334:C:H6	1.80	0.47
1:GA:500:G:H1'	1:GA:547:A:N1	2.30	0.47
1:GA:947:G:H2'	1:GA:948:C:O4'	2.14	0.47
2:GB:104:ASN:HD22	2:GB:108:ILE:HD11	1.78	0.47
1:GA:1190:G:H3'	3:GC:3:ASN:HB2	1.97	0.47
4:GD:18:LYS:NZ	4:GD:26:CYS:HB2	2.30	0.47
7:GG:46:ALA:HB2	7:GG:120:ILE:HD13	1.96	0.47
1:GA:1367:C:C4	9:GI:112:LYS:NZ	2.80	0.47
13:GM:89:GLY:C	13:GM:91:ARG:N	2.66	0.47
17:GQ:12:SER:HB3	17:GQ:20:THR:CB	2.45	0.47
18:GR:68:LYS:O	18:GR:72:ARG:HG3	2.14	0.47
20:GT:53:LEU:HD12	20:GT:54:LYS:N	2.30	0.47
22:HB:2064:U:OP1	47:H1:16:TYR:HE2	1.97	0.47
47:H1:72:LYS:HB2	47:H1:72:LYS:NZ	2.30	0.47
51:H5:12:ARG:NH2	51:H5:12:ARG:HB3	2.30	0.47
53:H7:121:GLY:O	53:H7:126:PRO:HD2	2.15	0.47
22:HB:1325:U:H5	41:HU:61:LYS:CB	2.05	0.47
22:HB:162:C:H2'	22:HB:163:A:C8	2.49	0.47
22:HB:1878:C:H2'	22:HB:1879:G:H5'	1.97	0.47
22:HB:1923:U:H2'	22:HB:1925:C:H41	1.79	0.47
22:HB:2343:C:H2'	22:HB:2344:G:O4'	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:HB:2577:A:OP1	24:HD:236:GLY:HA3	2.12	0.47
22:HB:525:A:H3'	22:HB:526:C:H6	1.80	0.47
22:HB:567:G:H4'	31:HK:73:ASN:CA	2.41	0.47
22:HB:683:A:H5''	22:HB:684:C:O5'	2.15	0.47
27:HG:35:VAL:HG12	27:HG:36:VAL:N	2.22	0.47
28:HH:73:ALA:O	28:HH:77:LYS:HD2	2.14	0.47
22:HB:2494:C:OP1	31:HK:109:GLY:N	2.46	0.47
31:HK:167:LYS:HD3	31:HK:167:LYS:N	2.29	0.47
32:HL:25:LEU:HD13	32:HL:26:ASN:N	2.30	0.47
33:HM:18:ARG:HG2	33:HM:19:VAL:H	1.80	0.47
36:HP:94:TYR:CD1	36:HP:95:LYS:HG2	2.49	0.47
37:HQ:55:ILE:HG21	37:HQ:69:ARG:NH1	2.30	0.47
38:HR:35:ALA:O	38:HR:39:LEU:HD23	2.14	0.47
44:HX:74:LYS:HD2	44:HX:75:GLY:N	2.30	0.47
41:HU:4:TYR:HE1	45:HY:18:ILE:CG2	1.85	0.47
1:IA:1157:A:N6	1:IA:1178:G:H1'	2.30	0.47
1:IA:532:A:C4	1:IA:1207:G:C5'	2.97	0.47
1:IA:1442:G:O6	1:IA:1461:G:H1'	2.15	0.47
1:IA:22:G:O2'	1:IA:913:A:C6	2.59	0.47
1:IA:309:G:H2'	1:IA:310:G:H8	1.80	0.47
1:IA:345:C:H5''	1:IA:346:G:C2	2.50	0.47
1:IA:815:A:C6	1:IA:1508:G:N3	2.83	0.47
1:IA:835:U:P	18:IR:64:ARG:NH2	2.88	0.47
1:IA:845:A:H4'	18:IR:23:LYS:NZ	2.29	0.47
1:IA:892:A:C1'	1:IA:1415:G:H4'	2.44	0.47
1:IA:1102:A:H4'	2:IB:98:LEU:HD22	1.96	0.47
3:IC:12:LEU:HD13	14:IN:51:GLY:HA2	1.96	0.47
4:ID:103:ASN:HD21	4:ID:107:ARG:NE	2.13	0.47
1:IA:619:U:C6	4:ID:133:VAL:HG13	2.49	0.47
4:ID:18:LYS:NZ	4:ID:26:CYS:HB2	2.30	0.47
6:IF:6:VAL:HG22	6:IF:90:VAL:HG13	1.97	0.47
1:IA:1373:G:H5'	7:IG:35:LYS:CA	2.44	0.47
1:IA:1290:G:C3'	7:IG:35:LYS:HZ1	2.27	0.47
1:IA:1349:A:C4'	9:II:121:ARG:NH2	2.78	0.47
13:IM:110:ARG:HH11	13:IM:110:ARG:HG2	1.79	0.47
13:IM:17:VAL:O	13:IM:21:TYR:HB2	2.13	0.47
18:IR:68:LYS:O	18:IR:72:ARG:HG3	2.15	0.47
47:J1:72:LYS:HB2	47:J1:72:LYS:NZ	2.30	0.47
22:JB:124:A:H8	50:J4:19:ARG:NE	2.10	0.47
22:JB:3122:U:H5''	53:J7:133:LYS:HE3	1.96	0.47
22:JB:1261:G:C6	26:JF:44:SER:HB3	2.47	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:JB:2229:G:H5'	22:JB:2230:G:OP1	2.14	0.47
22:JB:2308:A:H2'	22:JB:2309:G:C8	2.50	0.47
22:JB:838:A:C5'	22:JB:2407:G:C5	2.96	0.47
22:JB:2491:C:O2	25:JE:141:ILE:CA	2.61	0.47
22:JB:2601:C:C1'	22:JB:2799:C:H42	2.27	0.47
22:JB:2716:G:N2	22:JB:2749:A:H1'	2.23	0.47
22:JB:6:A:N6	22:JB:2870:C:H42	2.12	0.47
22:JB:39:C:H2'	22:JB:40:U:C6	2.50	0.47
22:JB:525:A:H3'	22:JB:526:C:H6	1.80	0.47
22:JB:644:A:H2'	22:JB:645:G:O4'	2.15	0.47
24:JD:145:LEU:O	24:JD:154:GLN:HB2	2.14	0.47
24:JD:177:LEU:HD21	24:JD:183:ARG:HG3	1.97	0.47
24:JD:260:ARG:HB3	24:JD:261:ARG:H	1.51	0.47
27:JG:13:ARG:CB	27:JG:14:PRO:HD3	2.40	0.47
28:JH:103:LEU:HD22	28:JH:123:PHE:CZ	2.50	0.47
28:JH:89:LEU:HD22	28:JH:161:GLY:HA2	1.97	0.47
22:JB:846:A:C4'	33:JM:53:ARG:CA	2.69	0.47
33:JM:88:PHE:HA	33:JM:93:LEU:HD23	1.96	0.47
35:JO:55:ALA:HB1	35:JO:79:VAL:HG22	1.97	0.47
22:JB:1173:G:OP1	39:JS:23:GLU:HB3	2.15	0.47
39:JS:69:ILE:HD11	39:JS:88:GLN:NE2	2.26	0.47
39:JS:62:GLU:HB2	39:JS:97:GLY:H	1.79	0.47
1:AA:1141:C:H2'	1:AA:1142:G:C8	2.50	0.47
1:AA:15:G:C5	5:AE:19:MET:CB	2.91	0.47
1:AA:564:C:C1'	8:AH:91:ARG:NH2	2.78	0.47
1:AA:709:G:H2'	1:AA:710:G:C8	2.49	0.47
1:AA:980:C:H2'	1:AA:981:U:O4'	2.15	0.47
2:AB:97:TRP:CE3	2:AB:172:ILE:HB	2.50	0.47
6:AF:5:GLU:HB2	6:AF:93:SER:OG	2.15	0.47
8:AH:88:LYS:HB3	8:AH:89:PRO:HD2	1.97	0.47
13:AM:13:LYS:CE	13:AM:17:VAL:HG21	2.44	0.47
17:AQ:43:LEU:HB3	17:AQ:69:LYS:HZ1	1.79	0.47
17:AQ:63:ARG:HG2	17:AQ:64:PRO:HD2	1.95	0.47
22:BB:1148:G:H4'	31:BK:132:PHE:C	2.35	0.47
22:BB:1239:A:P	39:BS:73:LYS:CG	2.85	0.47
22:BB:1356:G:H4'	22:BB:1613:G:H3'	1.96	0.47
22:BB:1416:A:H5''	22:BB:1485:U:O2'	2.14	0.47
22:BB:1478:U:H2'	22:BB:1479:G:H5'	1.97	0.47
22:BB:1479:G:H2'	22:BB:1480:G:C8	2.50	0.47
22:BB:3877:A:C6	22:BB:1862:C:C4	3.03	0.47
22:BB:1685:A:H2	22:BB:1976:U:H1'	1.79	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:BB:2377:U:H4'	22:BB:2378:G:OP1	2.14	0.47
22:BB:2457:A:N7	22:BB:2508:G:C5	2.83	0.47
22:BB:2515:G:H2'	22:BB:2516:U:C6	2.50	0.47
22:BB:2598:C:H2'	22:BB:2599:U:C6	2.49	0.47
22:BB:2825:A:C4	22:BB:2844:G:H1'	2.50	0.47
22:BB:3115:G:N7	22:BB:3118:U:H5''	2.30	0.47
22:BB:457:C:H5''	38:BR:3:ARG:CB	2.45	0.47
22:BB:683:A:H5''	22:BB:684:C:O5'	2.15	0.47
22:BB:690:A:O3'	22:BB:2054:A:H4'	2.15	0.47
24:BD:69:ARG:CB	24:BD:130:ALA:HB2	2.44	0.47
24:BD:69:ARG:HD2	24:BD:72:LYS:CD	2.45	0.47
22:BB:2615:U:HO2'	25:BE:79:ARG:NH2	2.07	0.47
25:BE:8:LYS:CB	37:BQ:3:THR:CG2	2.93	0.47
26:BF:132:ASN:CA	26:BF:135:SER:HB3	2.38	0.47
26:BF:150:LEU:HD13	26:BF:158:ARG:NH2	2.29	0.47
32:BL:2:ILE:HD13	32:BL:2:ILE:N	2.30	0.47
34:BN:98:VAL:CG1	34:BN:99:LYS:H	2.05	0.47
35:BO:55:ALA:HB1	35:BO:79:VAL:HG22	1.97	0.47
36:BP:88:VAL:HG12	36:BP:89:PHE:N	2.30	0.47
37:BQ:36:ASP:CG	37:BQ:37:THR:N	2.67	0.47
40:BT:39:ARG:CZ	40:BT:95:ALA:HB3	2.45	0.47
22:BB:2236:U:P	44:BX:4:LYS:HG2	2.48	0.47
22:BB:94:C:H4'	45:BY:40:PRO:HG2	1.96	0.47
45:BY:25:LEU:HD11	45:BY:42:ARG:O	2.15	0.47
1:CA:1026:G:H3'	1:CA:1035:A:H61	1.79	0.47
1:CA:1032:G:H2'	1:CA:1032:G:N3	2.29	0.47
1:CA:286:G:H2'	1:CA:287:U:O4'	2.14	0.47
1:CA:436:C:H1'	4:CD:157:LEU:CG	2.45	0.47
1:CA:579:G:O2'	1:CA:580:U:H5'	2.15	0.47
1:CA:598:U:C6	8:CH:94:TYR:CZ	2.86	0.47
1:CA:618:C:H2'	1:CA:620:C:N4	2.26	0.47
1:CA:709:G:H2'	1:CA:710:G:C8	2.49	0.47
1:CA:957:U:H2'	1:CA:959:A:OP2	2.15	0.47
4:CD:114:ARG:HA	4:CD:117:ALA:HB3	1.97	0.47
1:CA:436:C:H4'	4:CD:156:GLU:CA	2.44	0.47
4:CD:18:LYS:NZ	4:CD:26:CYS:HB2	2.30	0.47
1:CA:1350:A:C2'	7:CG:33:ASP:HA	2.42	0.47
8:CH:85:ARG:CZ	8:CH:89:PRO:HD3	2.44	0.47
8:CH:8:ASP:O	8:CH:12:ARG:HG3	2.15	0.47
9:CI:95:LYS:C	9:CI:98:PRO:HD2	2.35	0.47
12:CL:33:ARG:HD3	12:CL:60:LEU:HB3	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:275:G:H4'	17:CQ:14:LYS:N	2.29	0.47
17:CQ:60:ILE:HG22	17:CQ:72:ARG:HB2	1.97	0.47
48:D2:16:ARG:NH2	48:D2:19:ARG:HG3	2.29	0.47
48:D2:19:ARG:HH11	48:D2:19:ARG:HA	1.79	0.47
22:DB:1173:G:H2'	22:DB:1174:G:C8	2.50	0.47
22:DB:1296:G:O2'	22:DB:1297:A:H3'	2.15	0.47
22:DB:1327:C:H2'	22:DB:1328:C:O4'	2.15	0.47
22:DB:1399:C:N4	22:DB:1415:C:N3	2.63	0.47
22:DB:1882:G:O2'	22:DB:1883:A:H5''	2.15	0.47
22:DB:2292:C:H2'	22:DB:2293:G:C8	2.50	0.47
22:DB:2463:G:C2	34:DN:120:ARG:CD	2.71	0.47
22:DB:2653:A:H2'	22:DB:2654:A:C8	2.50	0.47
22:DB:3167:U:H2'	22:DB:3168:G:C8	2.50	0.47
22:DB:319:G:H5'	22:DB:511:A:H1'	1.97	0.47
22:DB:356:A:H2'	22:DB:357:A:C8	2.50	0.47
22:DB:3867:G:N7	22:DB:3875:A:N6	2.63	0.47
22:DB:631:G:H4'	22:DB:632:A:C2	2.49	0.47
22:DB:477:A:H2	22:DB:695:G:N2	2.13	0.47
22:DB:79:G:C1'	22:DB:356:A:H2	2.26	0.47
24:DD:13:ARG:HD3	24:DD:16:MET:SD	2.55	0.47
22:DB:1790:G:H22	24:DD:180:GLY:CA	2.28	0.47
24:DD:80:ALA:HB3	24:DD:96:HIS:NE2	2.30	0.47
25:DE:2:LYS:HB3	25:DE:3:GLY:H	1.50	0.47
26:DF:163:ASN:ND2	26:DF:166:TRP:HB2	2.29	0.47
26:DF:58:MET:CG	26:DF:69:HIS:HB3	2.44	0.47
27:DG:95:ARG:NH1	27:DG:98:VAL:HG11	2.29	0.47
30:DJ:100:ASN:HB3	30:DJ:103:GLN:CB	2.44	0.47
32:DL:21:CYS:HA	32:DL:53:ALA:HA	1.97	0.47
34:DN:68:ARG:HD2	34:DN:101:GLY:HA3	1.95	0.47
34:DN:105:PHE:HE1	34:DN:115:ALA:HB2	1.80	0.47
34:DN:71:PRO:HA	34:DN:95:VAL:HG12	1.97	0.47
37:DQ:55:ILE:HG21	37:DQ:69:ARG:NH1	2.30	0.47
40:DT:52:ASP:OD1	48:D2:29:ASN:CG	2.51	0.47
22:DB:1412:C:H5''	41:DU:81:ARG:HH11	1.80	0.47
22:DB:308:C:O3'	42:DV:93:ARG:HD3	2.15	0.47
34:DN:131:LYS:NZ	43:DW:43:PHE:CD1	2.75	0.47
45:DY:28:LEU:O	45:DY:34:ALA:HB1	2.15	0.47
1:EA:1389:C:H2'	1:EA:1390:U:C6	2.50	0.47
1:EA:1405:G:H2'	1:EA:1406:U:C6	2.49	0.47
1:EA:271:C:H2'	1:EA:272:C:C6	2.49	0.47
1:EA:286:G:H2'	1:EA:287:U:O4'	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:EA:45:U:H2'	1:EA:46:G:C8	2.49	0.47
1:EA:521:G:O5'	12:EL:72:GLY:N	2.47	0.47
1:EA:626:U:OP1	16:EP:35:LYS:CE	2.60	0.47
1:EA:933:G:OP2	7:EG:3:ARG:HD2	2.15	0.47
4:ED:29:PRO:HG3	4:ED:34:GLU:HG2	1.97	0.47
8:EH:48:TYR:HB3	8:EH:61:VAL:HA	1.96	0.47
1:EA:1185:G:O2'	9:EI:110:GLU:CB	2.62	0.47
9:EI:46:ALA:HB1	9:EI:77:ILE:CD1	2.44	0.47
1:EA:973:G:C2'	10:EJ:54:PHE:CZ	2.97	0.47
10:EJ:7:LYS:HA	10:EJ:71:LEU:HA	1.97	0.47
16:EP:67:THR:H	16:EP:70:ALA:HB3	1.79	0.47
16:EP:71:ARG:HE	16:EP:74:LEU:HD12	1.80	0.47
17:EQ:36:ILE:HG13	17:EQ:37:LYS:H	1.79	0.47
1:EA:1439:C:OP2	20:ET:34:LYS:HD3	2.11	0.47
20:ET:53:LEU:HD12	20:ET:54:LYS:N	2.30	0.47
47:F1:72:LYS:NZ	47:F1:72:LYS:HB2	2.30	0.47
48:F2:19:ARG:HA	48:F2:19:ARG:HH11	1.79	0.47
22:FB:1004:A:H1'	22:FB:1173:G:N2	2.29	0.47
22:FB:785:U:H4'	22:FB:1368:G:O3'	2.15	0.47
22:FB:138:G:H2'	22:FB:139:A:H8	1.79	0.47
22:FB:1650:A:H2'	22:FB:1652:G:N7	2.29	0.47
22:FB:1813:A:H2'	22:FB:1814:G:C8	2.50	0.47
22:FB:1923:U:O2'	22:FB:1924:C:H6	1.97	0.47
22:FB:1998:A:O2'	48:F2:3:LYS:NZ	2.48	0.47
22:FB:226:C:O2'	22:FB:2373:C:H1'	2.15	0.47
22:FB:2240:C:H1'	22:FB:2367:A:O4'	2.14	0.47
22:FB:2377:U:H4'	22:FB:2378:G:OP1	2.14	0.47
22:FB:3093:C:C5'	29:FI:21:LYS:CB	2.77	0.47
22:FB:3867:G:N7	22:FB:3875:A:N6	2.63	0.47
22:FB:547:U:H5'	31:FK:30:LYS:HG2	1.85	0.47
22:FB:644:A:H2'	22:FB:645:G:O4'	2.15	0.47
22:FB:1810:U:P	24:FD:155:LEU:HA	2.55	0.47
25:FE:33:ILE:HG22	25:FE:34:VAL:HG13	1.97	0.47
27:FG:35:VAL:HG12	27:FG:36:VAL:N	2.22	0.47
27:FG:72:LYS:HB2	27:FG:80:ARG:O	2.14	0.47
27:FG:67:ILE:HG12	27:FG:84:PRO:HB2	1.97	0.47
31:FK:33:ILE:HG13	31:FK:35:LYS:N	2.29	0.47
31:FK:64:GLY:HA2	31:FK:70:PHE:CZ	2.50	0.47
22:FB:680:U:O3'	33:FM:48:PHE:HE1	1.98	0.47
34:FN:27:TYR:CE2	34:FN:36:ILE:HG21	2.49	0.47
38:FR:37:GLN:CA	38:FR:40:LEU:HD23	2.45	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:FR:87:ASN:HB2	39:FS:52:GLY:N	2.29	0.47
39:FS:93:ILE:HG22	39:FS:94:LYS:N	2.25	0.47
40:FT:34:SER:C	40:FT:36:ARG:H	2.17	0.47
40:FT:38:VAL:HG11	40:FT:97:VAL:HG11	1.97	0.47
41:FU:13:SER:O	41:FU:16:ALA:HB3	2.15	0.47
22:FB:2240:C:C3'	44:FX:14:ARG:HG3	2.45	0.47
1:GA:1060:C:O3'	10:GJ:58:ASP:HB2	2.15	0.47
1:GA:1192:C:OP1	3:GC:4:LYS:NZ	2.41	0.47
1:GA:1442:G:O6	1:GA:1461:G:H1'	2.15	0.47
1:GA:215:C:H2'	1:GA:216:C:C6	2.49	0.47
1:GA:235:C:N3	17:GQ:4:LYS:CE	2.78	0.47
1:GA:545:C:O2	1:GA:549:C:H5'	2.15	0.47
1:GA:697:U:H2'	1:GA:698:G:H5'	1.97	0.47
1:GA:808:C:H1'	24:HD:5:LYS:HZ3	1.79	0.47
1:GA:854:G:H3'	1:GA:871:U:O4	2.14	0.47
7:GG:70:LYS:HG2	7:GG:96:GLN:OE1	2.15	0.47
13:GM:8:GLU:OE1	13:GM:22:ILE:HG23	2.14	0.47
1:GA:265:G:C8	17:GQ:64:PRO:O	2.68	0.47
17:GQ:9:VAL:HA	17:GQ:55:ASP:O	2.14	0.47
18:GR:32:ARG:NH2	18:GR:69:THR:HG23	2.29	0.47
19:GS:28:LYS:HG2	19:GS:29:ARG:N	2.29	0.47
13:GM:86:CYS:C	19:GS:74:PHE:CD2	2.83	0.47
47:H1:17:GLN:HA	47:H1:33:VAL:O	2.13	0.47
23:HA:48:A:H2'	23:HA:48:A:N3	2.29	0.47
22:HB:1398:G:N1	22:HB:1416:A:N6	2.63	0.47
22:HB:1433:A:H2'	22:HB:1434:U:C5	2.49	0.47
22:HB:1636:G:C5'	50:H4:1:MET:HE1	2.45	0.47
22:HB:1759:A:H2'	22:HB:1760:G:H8	1.79	0.47
22:HB:1975:G:H4'	22:HB:1976:U:H5	1.80	0.47
22:HB:1996:A:H4'	40:HT:116:ILE:HG21	1.92	0.47
22:HB:2229:G:H5'	22:HB:2230:G:OP1	2.14	0.47
22:HB:2343:C:H4'	44:HX:40:GLN:CG	2.44	0.47
22:HB:2358:C:H5'	36:HP:19:THR:HG23	1.95	0.47
22:HB:2404:A:H4'	22:HB:2405:A:OP2	2.15	0.47
22:HB:2494:C:C4'	31:HK:107:GLN:HG2	2.38	0.47
22:HB:3128:G:C2	22:HB:3161:C:H1'	2.50	0.47
22:HB:37:C:O2'	26:HF:45:THR:CB	2.63	0.47
22:HB:39:C:H2'	22:HB:40:U:C6	2.50	0.47
22:HB:544:U:H2'	22:HB:545:C:C6	2.49	0.47
22:HB:58:C:H3'	22:HB:59:G:H5''	1.95	0.47
22:HB:603:C:H2'	22:HB:604:U:C2	2.49	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:HB:9:U:C5'	31:HK:35:LYS:O	2.63	0.47
24:HD:96:HIS:O	24:HD:97:TYR:HB2	2.15	0.47
31:HK:104:THR:OG1	31:HK:110:LEU:HD22	2.15	0.47
31:HK:33:ILE:HG13	31:HK:35:LYS:N	2.29	0.47
32:HL:2:ILE:N	32:HL:2:ILE:HD13	2.30	0.47
35:HO:55:ALA:HB1	35:HO:79:VAL:HG22	1.97	0.47
36:HP:29:LEU:HD22	36:HP:31:VAL:HG23	1.96	0.47
37:HQ:40:ARG:NE	37:HQ:91:VAL:HG23	2.28	0.47
39:HS:56:VAL:HG12	39:HS:57:GLN:HG2	1.96	0.47
40:HT:34:SER:O	40:HT:38:VAL:HG23	2.15	0.47
41:HU:13:SER:O	41:HU:16:ALA:HB3	2.15	0.47
1:IA:1001:A:N6	1:IA:1003:G:H21	2.13	0.47
1:IA:1187:G:N2	14:IN:60:SER:HG	2.11	0.47
1:IA:1375:A:H2'	1:IA:1376:U:O4'	2.14	0.47
1:IA:1389:C:H2'	1:IA:1390:U:C6	2.50	0.47
1:IA:927:G:H2'	1:IA:1532:U:H1'	1.95	0.47
1:IA:243:A:H1'	1:IA:244:U:OP2	2.14	0.47
1:IA:333:G:H2'	1:IA:334:C:H6	1.80	0.47
1:IA:435:C:HO2'	4:ID:156:GLU:CD	2.18	0.47
1:IA:545:C:O2	1:IA:549:C:H5'	2.15	0.47
1:IA:697:U:H2'	1:IA:698:G:H5'	1.97	0.47
1:IA:936:C:H2'	1:IA:937:A:C8	2.48	0.47
2:IB:115:LEU:HG	2:IB:153:ARG:NH2	2.29	0.47
7:IG:46:ALA:HB1	7:IG:120:ILE:HG21	1.95	0.47
8:IH:17:THR:HB	8:IH:65:TYR:HE2	1.80	0.47
9:II:29:ASN:HD21	9:II:64:THR:CG2	2.23	0.47
12:IL:33:ARG:HD3	12:IL:60:LEU:HB3	1.97	0.47
48:J2:16:ARG:NH2	48:J2:19:ARG:HG3	2.30	0.47
53:J7:148:ILE:O	53:J7:152:LYS:HG3	2.15	0.47
22:JB:1174:G:C8	39:JS:89:ASN:CB	2.93	0.47
22:JB:1366:A:N3	22:JB:1366:A:H2'	2.29	0.47
22:JB:1629:G:H5'	22:JB:1630:A:H5''	1.96	0.47
22:JB:1644:G:N2	22:JB:1645:U:H3	2.12	0.47
22:JB:1943:A:H2'	22:JB:1944:C:H6	1.78	0.47
22:JB:219:G:N1	51:J5:4:MET:HB2	1.92	0.47
22:JB:23:G:C1'	40:JT:96:TYR:CZ	2.74	0.47
22:JB:2619:G:N2	22:JB:2755:A:H1'	2.29	0.47
22:JB:3134:A:H1'	22:JB:3159:G:H21	1.80	0.47
22:JB:3128:G:C2	22:JB:3161:C:H1'	2.50	0.47
22:JB:333:A:O2'	22:JB:350:U:H2'	2.15	0.47
22:JB:58:C:H3'	22:JB:59:G:H5''	1.95	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:JB:671:A:H2	26:JF:96:PRO:HG2	1.75	0.47
24:JD:157:ARG:HB3	24:JD:202:LYS:NZ	2.28	0.47
24:JD:95:LEU:HB3	24:JD:105:ILE:HB	1.96	0.47
25:JE:29:GLY:HA2	25:JE:90:SER:HB2	1.97	0.47
26:JF:140:ASN:OD1	26:JF:142:LEU:HD23	2.14	0.47
31:JK:156:HIS:CB	31:JK:157:PRO:HD2	2.44	0.47
32:JL:21:CYS:HA	32:JL:53:ALA:HA	1.97	0.47
37:JQ:100:ARG:HH12	37:JQ:121:ARG:NH1	2.13	0.47
37:JQ:55:ILE:HG21	37:JQ:69:ARG:NH1	2.30	0.47
22:JB:1996:A:C2'	40:JT:116:ILE:H	2.26	0.47
40:JT:27:VAL:HG21	40:JT:123:HIS:CE1	2.50	0.47
40:JT:34:SER:O	40:JT:38:VAL:HG23	2.15	0.47
22:JB:1406:A:N6	41:JU:15:LYS:CG	2.67	0.47
43:JW:51:LEU:HB3	43:JW:128:ARG:NH1	2.19	0.47
44:JX:49:GLN:CB	44:JX:73:GLY:HA3	2.45	0.47
1:AA:1386:G:H2'	1:AA:1387:G:C8	2.50	0.47
1:AA:1439:C:H2'	1:AA:1440:C:H6	1.80	0.47
1:AA:536:C:H2'	1:AA:537:G:C8	2.46	0.47
1:AA:300:A:H4'	1:AA:564:C:N4	2.30	0.47
1:AA:579:G:O2'	1:AA:580:U:H5'	2.15	0.47
4:AD:11:LEU:HD13	4:AD:66:ARG:HB3	1.96	0.47
1:AA:1080:A:H4'	5:AE:17:ALA:O	2.15	0.47
8:AH:26:VAL:O	8:AH:59:LEU:HD12	2.14	0.47
9:AI:11:LYS:HA	9:AI:104:ARG:NH2	2.25	0.47
1:AA:1128:C:C4'	9:AI:16:ARG:HH11	2.26	0.47
10:AJ:12:ASP:OD2	10:AJ:14:LYS:HD3	2.15	0.47
10:AJ:79:ARG:HD3	10:AJ:80:LYS:N	2.29	0.47
12:AL:45:PRO:HD2	12:AL:49:ASN:O	2.15	0.47
1:AA:954:G:C8	13:AM:123:ALA:HB2	2.49	0.47
17:AQ:60:ILE:HG22	17:AQ:72:ARG:HB2	1.97	0.47
17:AQ:62:SER:HB3	17:AQ:72:ARG:HG3	1.96	0.47
22:BB:1479:G:O2'	22:BB:1543:G:O2'	2.02	0.47
22:BB:1507:A:O3'	24:BD:100:GLY:HA2	2.14	0.47
22:BB:1650:A:H2'	22:BB:1652:G:N7	2.29	0.47
22:BB:2058:U:H2'	22:BB:2217:G:O6	2.14	0.47
22:BB:2404:A:H4'	22:BB:2405:A:OP2	2.15	0.47
22:BB:1309:G:OP1	22:BB:2688:G:H1'	2.15	0.47
22:BB:2723:C:H1'	28:BH:150:LYS:CG	2.36	0.47
22:BB:3134:A:H1'	22:BB:3159:G:H21	1.80	0.47
22:BB:3167:U:H2'	22:BB:3168:G:C8	2.50	0.47
22:BB:528:G:H1'	40:BT:96:TYR:CB	2.35	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:BB:648:A:N6	33:BM:77:LEU:O	2.48	0.47
22:BB:763:A:N7	40:BT:111:ARG:NH2	2.50	0.47
22:BB:827:C:OP1	39:BS:84:THR:O	2.33	0.47
22:BB:967:G:C1'	22:BB:970:A:H62	2.26	0.47
24:BD:13:ARG:HD3	24:BD:16:MET:SD	2.55	0.47
22:BB:2557:G:C1'	25:BE:133:LYS:CD	2.44	0.47
22:BB:2557:G:C1'	25:BE:133:LYS:CE	2.91	0.47
25:BE:29:GLY:HA2	25:BE:90:SER:HB2	1.97	0.47
26:BF:163:ASN:ND2	26:BF:166:TRP:HB2	2.29	0.47
27:BG:70:ALA:O	27:BG:71:LYS:HG2	2.14	0.47
27:BG:69:LYS:HZ1	27:BG:72:LYS:N	2.12	0.47
28:BH:25:LYS:H	28:BH:35:VAL:CG1	2.28	0.47
30:BJ:111:LYS:HD3	30:BJ:123:ALA:O	2.15	0.47
35:BO:54:THR:O	35:BO:62:SER:HB3	2.15	0.47
40:BT:27:VAL:HG21	40:BT:123:HIS:CE1	2.50	0.47
22:BB:1993:G:OP2	40:BT:62:ARG:NH2	2.48	0.47
22:BB:24:G:N3	40:BT:98:ASP:OD1	2.47	0.47
42:BV:56:LYS:HE3	42:BV:67:GLY:HA3	1.96	0.47
43:BW:64:ALA:C	43:BW:65:LEU:HD22	2.34	0.47
22:BB:94:C:C2'	45:BY:41:HIS:HD2	2.27	0.47
1:CA:1067:A:N1	1:CA:1109:C:H5'	2.30	0.47
1:CA:1386:G:H2'	1:CA:1387:G:C8	2.50	0.47
1:CA:1389:C:H2'	1:CA:1390:U:C6	2.50	0.47
1:CA:1405:G:H2'	1:CA:1406:U:C6	2.49	0.47
1:CA:435:C:C2'	4:CD:156:GLU:HB3	2.45	0.47
1:CA:445:G:H2'	1:CA:446:G:O4'	2.15	0.47
1:CA:729:A:H2'	1:CA:730:G:H8	1.80	0.47
1:CA:8:A:C4	4:CD:209:ARG:HD3	2.50	0.47
1:CA:9:G:OP2	5:CE:121:LYS:NZ	2.45	0.47
2:CB:31:TYR:OH	2:CB:50:GLU:HG2	2.15	0.47
2:CB:17:PHE:HB2	2:CB:41:ILE:HG21	1.96	0.47
3:CC:148:GLY:HA2	3:CC:170:GLN:O	2.15	0.47
3:CC:55:VAL:HG13	3:CC:68:VAL:HG22	1.97	0.47
1:CA:546:G:C5	4:CD:2:GLY:HA2	2.49	0.47
6:CF:7:ASN:HB3	6:CF:62:TRP:HD1	1.80	0.47
8:CH:25:ASP:HB3	8:CH:58:TYR:HD2	1.80	0.47
1:CA:1349:A:P	9:CI:118:LYS:HB3	2.55	0.47
16:CP:39:TYR:O	16:CP:41:PRO:HD3	2.14	0.47
20:CT:40:ALA:HA	20:CT:55:ILE:HD13	1.97	0.47
22:DB:1256:C:C2	33:DM:14:LYS:NZ	2.82	0.47
22:DB:1650:A:H2'	22:DB:1652:G:N7	2.29	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:DB:1846:A:C2	22:DB:2211:U:O2'	2.66	0.47
22:DB:2229:G:H5'	22:DB:2230:G:OP1	2.14	0.47
22:DB:2236:U:O3'	44:DX:10:SER:OG	2.32	0.47
22:DB:2492:G:O5'	22:DB:2493:U:P	2.73	0.47
22:DB:2515:G:H2'	22:DB:2516:U:C6	2.50	0.47
22:DB:2562:G:H3'	22:DB:2563:U:H6	1.79	0.47
22:DB:2598:C:H2'	22:DB:2599:U:C6	2.49	0.47
22:DB:2607:C:H3'	22:DB:2608:A:H5'	1.96	0.47
22:DB:2771:C:H2'	22:DB:2781:G:N2	2.30	0.47
22:DB:3115:G:N7	22:DB:3118:U:H5''	2.30	0.47
22:DB:3128:G:C2	22:DB:3161:C:H1'	2.50	0.47
22:DB:201:G:N7	22:DB:433:G:H5'	2.29	0.47
22:DB:525:A:H3'	22:DB:526:C:H6	1.79	0.47
22:DB:869:C:H5''	44:DX:57:HIS:H	1.79	0.47
22:DB:887:G:O2'	43:DW:149:ALA:CA	2.63	0.47
24:DD:225:ALA:HB1	24:DD:227:ASN:OD1	2.14	0.47
22:DB:2218:G:C4'	24:DD:230:ASP:CA	2.91	0.47
24:DD:263:ARG:HG2	24:DD:264:LYS:N	2.30	0.47
22:DB:2554:C:H1'	25:DE:142:GLY:O	2.15	0.47
22:DB:2035:G:C4	25:DE:150:VAL:HG22	2.50	0.47
27:DG:86:GLY:C	27:DG:87:ILE:HG13	2.34	0.47
28:DH:89:LEU:HD22	28:DH:161:GLY:HA2	1.97	0.47
22:DB:566:U:C1'	31:DK:73:ASN:ND2	2.78	0.47
32:DL:90:ARG:O	37:DQ:79:ARG:CD	2.60	0.47
33:DM:22:GLY:H	33:DM:23:PRO:HD2	1.80	0.47
34:DN:12:LYS:HB3	34:DN:12:LYS:HZ2	1.80	0.47
23:DA:92:G:C4	34:DN:21:ASP:HB3	2.50	0.47
43:DW:84:TYR:CZ	43:DW:128:ARG:HG2	2.48	0.47
1:EA:1098:C:OP1	2:EB:144:ARG:CB	2.63	0.47
1:EA:1141:C:H2'	1:EA:1142:G:C8	2.50	0.47
1:EA:1205:U:OP1	3:EC:190:ARG:NE	2.39	0.47
1:EA:1385:G:H2'	1:EA:1386:G:H5'	1.97	0.47
1:EA:1386:G:H2'	1:EA:1387:G:C8	2.50	0.47
1:EA:1439:C:H2'	1:EA:1440:C:H6	1.79	0.47
1:EA:445:G:H2'	1:EA:446:G:O4'	2.15	0.47
1:EA:709:G:H2'	1:EA:710:G:C8	2.49	0.47
2:EB:97:TRP:CE3	2:EB:172:ILE:HB	2.50	0.47
4:ED:18:LYS:NZ	4:ED:26:CYS:HB2	2.30	0.47
5:EE:139:LEU:HA	5:EE:142:LEU:HD12	1.97	0.47
1:EA:1373:G:H4'	7:EG:31:MET:SD	2.55	0.47
1:EA:644:G:C5'	8:EH:132:GLU:OE1	2.59	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:EH:97:VAL:HG13	8:EH:98:LYS:H	1.79	0.47
9:EI:116:LYS:HZ3	9:EI:121:ARG:N	2.13	0.47
9:EI:14:VAL:HG12	9:EI:15:ALA:N	2.30	0.47
12:EL:124:LYS:HG3	12:EL:125:PRO:HD2	1.96	0.47
13:EM:16:ASP:HB3	13:EM:41:PRO:HB3	1.97	0.47
15:EO:21:ASP:OD1	15:EO:24:SER:HB2	2.14	0.47
15:EO:71:GLN:HB3	15:EO:78:TYR:CE1	2.50	0.47
1:EA:392:G:H5''	16:EP:12:LYS:CD	2.44	0.47
1:EA:279:A:H2'	17:EQ:95:TYR:HA	1.93	0.47
19:ES:49:ILE:HD12	19:ES:60:VAL:HG12	1.97	0.47
22:FB:1635:G:C2	50:F4:1:MET:N	2.81	0.47
22:FB:3876:A:C5	53:F7:199:ASN:ND2	2.83	0.47
23:FA:44:C:H4'	27:FG:64:LYS:NZ	2.29	0.47
22:FB:1327:C:H2'	22:FB:1328:C:O4'	2.15	0.47
22:FB:1805:G:H21	24:FD:51:SER:HB3	1.79	0.47
22:FB:3197:U:N3	22:FB:2204:A:N6	2.63	0.47
22:FB:2240:C:C5'	22:FB:2366:U:C2'	2.93	0.47
22:FB:2313:G:H2'	36:FP:15:ARG:HH12	1.80	0.47
22:FB:2562:G:H3'	22:FB:2563:U:H6	1.79	0.47
22:FB:2598:C:H2'	22:FB:2599:U:C6	2.49	0.47
22:FB:2745:A:C5	22:FB:2746:G:C8	3.03	0.47
22:FB:2745:A:N3	22:FB:2746:G:C1'	2.70	0.47
22:FB:201:G:N7	22:FB:433:G:H5'	2.29	0.47
22:FB:631:G:H4'	22:FB:632:A:C2	2.49	0.47
22:FB:693:A:H2'	22:FB:694:G:O4'	2.15	0.47
22:FB:772:G:H2'	22:FB:773:G:C8	2.49	0.47
22:FB:818:G:H5'	22:FB:819:C:OP2	2.15	0.47
22:FB:967:G:C1'	22:FB:970:A:H62	2.26	0.47
24:FD:69:ARG:HD2	24:FD:72:LYS:CD	2.44	0.47
24:FD:80:ALA:HB3	24:FD:96:HIS:NE2	2.30	0.47
25:FE:176:ARG:NH2	37:FQ:16:ILE:CG1	2.75	0.47
28:FH:127:GLU:HB3	28:FH:130:ARG:NH1	2.29	0.47
28:FH:140:LEU:HB3	28:FH:144:VAL:HG13	1.97	0.47
31:FK:100:TYR:O	31:FK:101:THR:HG22	2.15	0.47
33:FM:88:PHE:HA	33:FM:93:LEU:HD23	1.96	0.47
22:FB:1308:C:OP1	35:FO:71:HIS:CB	2.63	0.47
22:FB:544:U:P	38:FR:22:LYS:NZ	2.88	0.47
40:FT:27:VAL:CG2	40:FT:125:THR:H	2.27	0.47
40:FT:48:LYS:HB3	40:FT:51:GLN:HB2	1.97	0.47
1:GA:1047:G:O2'	1:GA:1048:G:H5'	2.15	0.47
1:GA:1157:A:N6	1:GA:1178:G:H1'	2.30	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:GA:1419:G:N2	1:GA:1482:G:H1'	2.30	0.47
1:GA:729:A:H2'	1:GA:730:G:H8	1.79	0.47
1:GA:824:C:H1'	8:GH:2:LEU:HB3	1.96	0.47
1:GA:966:G:H2'	1:GA:967:C:C6	2.50	0.47
4:GD:97:LEU:HA	4:GD:100:ARG:CD	2.45	0.47
6:GF:4:TYR:CE1	6:GF:92:LYS:HG2	2.50	0.47
6:GF:5:GLU:HB2	6:GF:93:SER:OG	2.15	0.47
7:GG:46:ALA:HB1	7:GG:120:ILE:HG21	1.95	0.47
8:GH:97:VAL:HG13	8:GH:98:LYS:H	1.79	0.47
12:GL:5:PRO:HB3	12:GL:10:LEU:HA	1.97	0.47
12:GL:19:ARG:C	12:GL:21:LYS:N	2.68	0.47
14:GN:22:THR:HG23	14:GN:35:ARG:HD3	1.96	0.47
14:GN:46:GLU:O	14:GN:50:LYS:HG3	2.14	0.47
1:GA:61:G:C6	20:GT:14:LYS:NZ	2.83	0.47
22:HB:2339:A:P	51:H5:49:VAL:C	2.94	0.47
22:HB:603:C:C5'	51:H5:62:LEU:HD21	2.34	0.47
22:HB:420:C:OP1	53:H7:198:THR:CG2	2.63	0.47
22:HB:1271:C:H2'	22:HB:1272:G:H8	1.80	0.47
22:HB:1401:G:O2'	22:HB:1541:G:C5'	2.57	0.47
22:HB:1542:G:H2'	22:HB:1560:A:N6	2.26	0.47
22:HB:1572:C:C2'	22:HB:1573:G:H5''	2.44	0.47
22:HB:1699:A:H1'	22:HB:1748:U:O4	2.15	0.47
22:HB:2308:A:H2'	22:HB:2309:G:C8	2.50	0.47
22:HB:2550:C:C2	22:HB:2553:G:O4'	2.68	0.47
22:HB:2562:G:H3'	22:HB:2563:U:H6	1.79	0.47
22:HB:2859:U:C5	48:H2:45:ILE:HG12	2.50	0.47
22:HB:3115:G:N7	22:HB:3118:U:H5''	2.30	0.47
22:HB:3134:A:H1'	22:HB:3159:G:H21	1.80	0.47
22:HB:3167:U:H2'	22:HB:3168:G:C8	2.50	0.47
22:HB:236:C:C1'	22:HB:632:A:C4'	2.93	0.47
22:HB:811:G:OP2	26:HF:56:ARG:HD3	2.14	0.47
22:HB:828:C:H5'	39:HS:86:HIS:NE2	2.30	0.47
24:HD:87:ASN:HB3	24:HD:217:ARG:NH2	2.30	0.47
22:HB:1803:G:C1'	24:HD:48:ARG:NH1	2.77	0.47
1:GA:808:C:C1'	24:HD:5:LYS:NZ	2.77	0.47
24:HD:68:LYS:HE3	24:HD:191:ALA:HA	1.97	0.47
24:HD:69:ARG:HD2	24:HD:72:LYS:CD	2.45	0.47
25:HE:29:GLY:HA2	25:HE:90:SER:HB2	1.97	0.47
27:HG:127:ASN:HD22	27:HG:127:ASN:C	2.18	0.47
27:HG:97:TYR:C	27:HG:99:PHE:H	2.18	0.47
28:HH:103:LEU:HD22	28:HH:123:PHE:CZ	2.50	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:HJ:129:GLY:HA3	30:HJ:132:ARG:NH1	2.21	0.47
31:HK:126:VAL:O	31:HK:128:GLU:N	2.48	0.47
31:HK:77:GLY:CA	31:HK:147:ARG:HH22	2.20	0.47
31:HK:64:GLY:HA2	31:HK:70:PHE:CZ	2.50	0.47
22:HB:818:G:C4'	33:HM:41:SER:CB	2.69	0.47
33:HM:46:GLY:O	33:HM:47:ALA:HB3	2.15	0.47
35:HO:54:THR:O	35:HO:62:SER:HB3	2.15	0.47
35:HO:84:ALA:N	35:HO:85:PRO:HD2	2.30	0.47
35:HO:96:ARG:HD2	35:HO:96:ARG:H	1.78	0.47
22:HB:1630:A:H62	40:HT:114:ALA:HB1	1.57	0.47
42:HV:107:ALA:HB3	42:HV:111:GLY:HA3	1.96	0.47
44:HX:49:GLN:CB	44:HX:73:GLY:HA3	2.45	0.47
1:EA:1265:G:H4'	1:IA:1273:G:H8	1.74	0.47
1:IA:925:G:C2	1:IA:1503:A:P	3.08	0.47
1:IA:562:C:OP2	12:IL:17:LYS:CA	2.50	0.47
1:IA:764:C:H5''	15:IO:50:HIS:HB3	1.96	0.47
1:IA:929:G:H2'	1:IA:930:C:C6	2.49	0.47
2:IB:166:ASP:HB2	2:IB:205:ASP:CB	2.44	0.47
2:IB:8:LYS:H	2:IB:8:LYS:HD2	1.80	0.47
7:IG:21:VAL:HG23	7:IG:22:LEU:HD12	1.97	0.47
1:IA:1123:A:H1'	10:IJ:38:ILE:CB	2.44	0.47
13:IM:13:LYS:CE	13:IM:17:VAL:HG21	2.44	0.47
13:IM:8:GLU:OE1	13:IM:22:ILE:HG23	2.14	0.47
15:IO:71:GLN:HB3	15:IO:78:TYR:CE1	2.50	0.47
17:IQ:12:SER:HB3	17:IQ:20:THR:CB	2.45	0.47
17:IQ:60:ILE:HG22	17:IQ:72:ARG:HB2	1.97	0.47
49:J3:39:LYS:NZ	49:J3:39:LYS:HB2	2.30	0.47
53:J7:34:LEU:CD2	53:J7:203:ILE:HA	2.45	0.47
22:JB:1139:A:N6	22:JB:2469:G:H5'	2.30	0.47
22:JB:1145:C:H3'	22:JB:1147:G:OP1	2.15	0.47
22:JB:1271:C:H2'	22:JB:1272:G:H8	1.80	0.47
22:JB:1378:A:OP2	47:J1:3:LYS:HE2	2.12	0.47
22:JB:48:A:C2	22:JB:154:U:O4	2.64	0.47
22:JB:1836:C:H2'	22:JB:1837:G:O4'	2.15	0.47
22:JB:1872:A:H2'	22:JB:1872:A:N3	2.30	0.47
22:JB:1888:C:HO3'	22:JB:1889:G:C5'	2.25	0.47
1:IA:1517:G:C4	22:JB:1902:A:C2'	2.98	0.47
22:JB:1826:U:HO2'	22:JB:1952:A:H2'	1.74	0.47
22:JB:1999:U:C4'	48:J2:3:LYS:HB3	2.45	0.47
22:JB:2241:U:H1'	22:JB:2307:A:C2'	2.45	0.47
22:JB:873:U:H5	22:JB:2247:A:O5'	1.98	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:JB:2404:A:H4'	22:JB:2405:A:OP2	2.15	0.47
22:JB:2562:G:H3'	22:JB:2563:U:H6	1.80	0.47
22:JB:2653:A:H2'	22:JB:2654:A:C8	2.50	0.47
22:JB:2842:C:H42	37:JQ:28:ARG:C	2.09	0.47
22:JB:3876:A:OP2	53:J7:43:LYS:HE2	2.02	0.47
22:JB:588:G:H8	22:JB:2000:U:N3	2.11	0.47
22:JB:648:A:N1	33:JM:111:SER:HB2	2.29	0.47
22:JB:683:A:H5''	22:JB:684:C:O5'	2.15	0.47
24:JD:11:PRO:O	24:JD:13:ARG:HG3	2.14	0.47
24:JD:13:ARG:HD3	24:JD:16:MET:SD	2.54	0.47
27:JG:127:ASN:HD22	27:JG:127:ASN:C	2.18	0.47
30:JJ:111:LYS:HD3	30:JJ:123:ALA:O	2.15	0.47
22:JB:954:U:H6	33:JM:39:SER:HG	1.55	0.47
33:JM:46:GLY:O	33:JM:47:ALA:HB3	2.14	0.47
35:JO:112:LEU:HD13	35:JO:113:ILE:N	2.23	0.47
36:JP:94:TYR:CD1	36:JP:95:LYS:HG2	2.49	0.47
37:JQ:80:VAL:HG23	37:JQ:111:ARG:NH2	2.26	0.47
22:JB:1265:G:C1'	38:JR:32:TYR:CZ	2.97	0.47
44:JX:74:LYS:HD2	44:JX:75:GLY:N	2.30	0.47
1:AA:1157:A:N6	1:AA:1178:G:H1'	2.30	0.47
1:AA:1342:C:H5'	9:AI:125:TYR:HB2	1.96	0.47
1:AA:1375:A:H1'	7:AG:29:LYS:HE3	1.97	0.47
1:AA:1389:C:H2'	1:AA:1390:U:C6	2.50	0.47
1:AA:1528:U:C5'	1:AA:1529:G:H21	2.28	0.47
1:AA:208:U:O2'	1:AA:215:C:H5'	2.14	0.47
1:AA:371:G:H2'	1:AA:372:C:C4'	2.39	0.47
1:AA:59:A:C5'	1:AA:387:U:H5''	2.45	0.47
3:AC:55:VAL:HG13	3:AC:68:VAL:HG22	1.97	0.47
4:AD:97:LEU:HA	4:AD:100:ARG:CD	2.46	0.47
6:AF:6:VAL:HG22	6:AF:90:VAL:HG13	1.97	0.47
9:AI:121:ARG:NH1	9:AI:121:ARG:HG2	2.30	0.47
12:AL:33:ARG:HD3	12:AL:60:LEU:HB3	1.97	0.47
13:AM:48:LEU:HA	13:AM:52:GLU:OE2	2.15	0.47
13:AM:82:MET:O	13:AM:89:GLY:HA2	2.13	0.47
19:AS:46:GLY:N	19:AS:62:ILE:HG23	2.27	0.47
47:B1:61:LYS:HD3	47:B1:61:LYS:O	2.14	0.47
47:B1:72:LYS:NZ	47:B1:72:LYS:HB2	2.30	0.47
22:BB:699:G:H2'	50:B4:5:TYR:C	2.34	0.47
51:B5:12:ARG:NH2	51:B5:12:ARG:HB3	2.30	0.47
22:BB:1045:G:OP2	52:B6:16:VAL:HG22	1.97	0.47
22:BB:2562:G:H3'	22:BB:2563:U:H6	1.79	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:BB:1681:A:C6	22:BB:2706:U:C4	3.02	0.47
22:BB:2795:A:P	35:BO:6:ALA:H	2.38	0.47
22:BB:2814:G:H5'	35:BO:46:PRO:N	2.29	0.47
22:BB:201:G:N7	22:BB:433:G:H5'	2.29	0.47
22:BB:571:U:C2'	22:BB:572:G:H5''	2.45	0.47
22:BB:863:C:H4'	46:BZ:18:LYS:CD	2.35	0.47
22:BB:917:U:H5'	43:BW:122:ILE:HB	1.97	0.47
22:BB:2192:U:H5'	24:BD:39:LYS:CE	2.44	0.47
27:BG:108:LEU:C	27:BG:110:ARG:H	2.19	0.47
28:BH:89:LEU:HD22	28:BH:161:GLY:HA2	1.97	0.47
29:BI:4:ILE:HA	29:BI:16:GLU:H	1.80	0.47
29:BI:30:ILE:N	29:BI:31:PRO:CD	2.68	0.47
22:BB:6:A:C1'	31:BK:163:PRO:CD	2.91	0.47
22:BB:7:G:HO2'	31:BK:41:TRP:HH2	1.62	0.47
34:BN:71:PRO:HA	34:BN:95:VAL:HG12	1.97	0.47
22:BB:1165:G:OP1	38:BR:58:ARG:HD3	2.15	0.47
44:BX:74:LYS:HD2	44:BX:75:GLY:N	2.30	0.47
1:CA:1146:A:C2	9:CI:18:PHE:CZ	3.03	0.47
1:CA:1127:G:N2	1:CA:1147:C:H42	2.13	0.47
1:CA:1157:A:N6	1:CA:1178:G:H1'	2.30	0.47
1:CA:1163:C:H2'	1:CA:1164:G:H8	1.77	0.47
1:CA:1254:C:N4	10:CJ:43:ARG:CZ	2.74	0.47
1:CA:208:U:O2'	1:CA:215:C:H5'	2.14	0.47
1:CA:345:C:H5''	1:CA:346:G:C2	2.50	0.47
1:CA:45:U:H2'	1:CA:46:G:C8	2.49	0.47
1:CA:521:G:O6	12:CL:49:ASN:CG	2.49	0.47
1:CA:59:A:C5'	1:CA:387:U:H5''	2.45	0.47
1:CA:657:G:H21	15:CO:22:THR:HB	1.79	0.47
1:CA:940:C:H2'	1:CA:941:G:C8	2.50	0.47
3:CC:23:TYR:CD2	10:CJ:94:VAL:HA	2.49	0.47
6:CF:71:ARG:O	6:CF:75:LEU:HB2	2.15	0.47
1:CA:949:A:C5'	13:CM:102:ARG:NH2	2.76	0.47
13:CM:13:LYS:CE	13:CM:17:VAL:HG21	2.44	0.47
1:CA:975:A:C5	14:CN:34:TYR:HE1	2.33	0.47
1:CA:582:U:C4'	15:CO:68:ARG:HH22	2.17	0.47
1:CA:229:U:H5''	16:CP:33:ILE:CD1	2.45	0.47
53:D7:155:VAL:HG11	53:D7:169:ILE:HA	1.97	0.47
53:D7:174:MSE:HG2	53:D7:175:LYS:HD2	1.96	0.47
22:DB:2404:A:H4'	22:DB:2405:A:OP2	2.15	0.47
22:DB:2261:G:N1	22:DB:2406:C:C2	2.81	0.47
22:DB:2406:C:H5''	22:DB:2408:G:H1'	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:DB:2717:G:H2'	22:DB:2718:A:O4'	2.15	0.47
22:DB:2772:U:N3	22:DB:2780:A:N1	2.58	0.47
22:DB:297:A:H2'	22:DB:298:C:O4'	2.14	0.47
22:DB:487:G:O2'	22:DB:489:A:N6	2.39	0.47
22:DB:693:A:H2'	22:DB:694:G:O4'	2.15	0.47
22:DB:756:C:H5'	25:DE:129:HIS:HA	1.96	0.47
22:DB:772:G:H2'	22:DB:773:G:C8	2.50	0.47
24:DD:145:LEU:O	24:DD:154:GLN:HB2	2.14	0.47
26:DF:125:ILE:HG13	26:DF:126:ALA:N	2.25	0.47
34:DN:66:TYR:CB	43:DW:118:HIS:N	2.72	0.47
39:DS:63:HIS:CE1	39:DS:93:ILE:HD13	2.49	0.47
41:DU:61:LYS:HA	41:DU:72:ARG:NH2	2.30	0.47
43:DW:67:LYS:CG	43:DW:128:ARG:NH1	2.77	0.47
43:DW:67:LYS:HD3	43:DW:83:PHE:N	2.30	0.47
44:DX:4:LYS:HE3	44:DX:11:LYS:HG2	1.96	0.47
22:DB:75:C:H1'	45:DY:48:ARG:NH1	2.30	0.47
1:EA:1442:G:O6	1:EA:1461:G:H1'	2.15	0.47
1:EA:208:U:O2'	1:EA:215:C:H5'	2.14	0.47
1:EA:309:G:H2'	1:EA:310:G:H8	1.80	0.47
1:EA:668:G:O2'	15:EO:46:HIS:CD2	2.67	0.47
1:EA:833:U:H2'	1:EA:834:C:C5	2.50	0.47
1:EA:980:C:H2'	1:EA:981:U:O4'	2.15	0.47
1:EA:1100:C:C6	2:EB:98:LEU:CG	2.97	0.47
6:EF:4:TYR:CE1	6:EF:92:LYS:HG2	2.50	0.47
7:EG:131:LYS:O	7:EG:131:LYS:HG3	2.15	0.47
7:EG:13:GLN:HG3	9:EI:42:ARG:CZ	2.27	0.47
9:EI:85:LEU:HD21	9:EI:92:TYR:HB3	1.97	0.47
13:EM:65:LYS:NZ	13:EM:72:ALA:HB3	2.31	0.47
16:EP:39:TYR:O	16:EP:41:PRO:HD3	2.14	0.47
1:EA:450:G:C2	16:EP:42:ARG:NH1	2.71	0.47
8:EH:91:ARG:CZ	17:EQ:34:LYS:HZ1	2.27	0.47
22:FB:2040:A:N1	48:F2:2:ALA:HA	2.30	0.47
53:F7:21:ASN:ND2	53:F7:22:VAL:H	2.13	0.47
22:FB:1173:G:H2'	22:FB:1174:G:C8	2.50	0.47
22:FB:1797:C:O2'	24:FD:49:ILE:CG1	2.59	0.47
22:FB:1912:G:C2'	22:FB:1913:G:P	3.02	0.47
22:FB:1923:U:H2'	22:FB:1925:C:H41	1.79	0.47
22:FB:2515:G:H2'	22:FB:2516:U:C6	2.50	0.47
22:FB:2619:G:N2	22:FB:2755:A:H1'	2.29	0.47
22:FB:2653:A:H2'	22:FB:2654:A:C8	2.50	0.47
22:FB:2720:A:H2'	22:FB:2721:A:O4'	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:FB:39:C:H2'	22:FB:40:U:C6	2.50	0.47
22:FB:698:A:H5'	22:FB:801:A:N1	2.30	0.47
24:FD:13:ARG:HD3	24:FD:16:MET:SD	2.55	0.47
24:FD:87:ASN:HB3	24:FD:217:ARG:NH2	2.30	0.47
24:FD:49:ILE:HG22	24:FD:50:THR:N	2.30	0.47
25:FE:59:VAL:HG12	25:FE:60:ASN:H	1.80	0.47
28:FH:103:LEU:HD22	28:FH:123:PHE:CZ	2.50	0.47
32:FL:24:VAL:HG23	32:FL:51:ILE:CD1	2.44	0.47
33:FM:59:ARG:O	33:FM:60:LEU:CB	2.51	0.47
22:FB:2372:A:H5'	33:FM:60:LEU:HA	1.96	0.47
33:FM:90:ARG:HG3	33:FM:93:LEU:H	1.80	0.47
35:FO:37:THR:H	35:FO:110:MET:HG2	1.80	0.47
35:FO:54:THR:O	35:FO:62:SER:HB3	2.15	0.47
41:FU:61:LYS:HA	41:FU:72:ARG:NH2	2.30	0.47
1:GA:1234:C:O4'	1:GA:1364:U:H1'	2.15	0.47
1:GA:1429:C:H2'	1:GA:1430:C:C6	2.49	0.47
1:GA:814:A:C5'	1:GA:1511:G:H5'	2.44	0.47
1:GA:192:U:H2'	20:GT:60:GLU:OE1	2.15	0.47
1:GA:243:A:H1'	1:GA:244:U:OP2	2.14	0.47
1:GA:279:A:OP1	1:GA:281:G:H5'	2.14	0.47
1:GA:287:U:H2'	1:GA:288:A:C8	2.50	0.47
1:GA:929:G:H2'	1:GA:930:C:C6	2.49	0.47
7:GG:131:LYS:O	7:GG:131:LYS:HG3	2.15	0.47
8:GH:31:PHE:O	8:GH:32:LYS:HG3	2.15	0.47
8:GH:8:ASP:O	8:GH:12:ARG:HG3	2.15	0.47
7:GG:153:HIS:HE1	11:GK:59:TYR:CB	2.27	0.47
1:GA:1226:C:H6	13:GM:111:LYS:NZ	2.13	0.47
13:GM:65:LYS:NZ	13:GM:72:ALA:HB3	2.30	0.47
1:GA:1115:C:C1'	14:GN:61:TRP:HD1	2.17	0.47
15:GO:71:GLN:HB3	15:GO:78:TYR:CE1	2.50	0.47
1:GA:235:C:N3	17:GQ:4:LYS:HE3	2.29	0.47
19:GS:40:ILE:HG13	19:GS:71:LEU:HD21	1.96	0.47
22:HB:600:G:N3	51:H5:2:PRO:CD	2.78	0.47
53:H7:111:LEU:HD13	53:H7:148:ILE:HA	1.96	0.47
22:HB:1007:A:N6	22:HB:1171:A:C5	2.82	0.47
22:HB:124:A:O5'	50:H4:18:PHE:CD1	2.66	0.47
22:HB:138:G:H2'	22:HB:139:A:H8	1.80	0.47
22:HB:1629:G:H5'	22:HB:1630:A:H5''	1.96	0.47
22:HB:1644:G:N2	22:HB:1645:U:H3	2.13	0.47
22:HB:1750:A:H2	22:HB:2676:G:C4	2.33	0.47
22:HB:2285:U:H5	22:HB:2290:A:H61	1.63	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:HB:2457:A:N7	22:HB:2508:G:C5	2.83	0.47
22:HB:2602:G:H2'	48:H2:22:HIS:CE1	2.49	0.47
22:HB:691:C:O2'	22:HB:692:C:H5'	2.15	0.47
24:HD:118:ASN:HB3	24:HD:123:ALA:HB1	1.97	0.47
22:HB:1835:C:C4'	24:HD:255:LYS:NZ	2.77	0.47
22:HB:1805:G:C4'	24:HD:44:ASN:C	2.79	0.47
24:HD:49:ILE:HG22	24:HD:50:THR:N	2.30	0.47
24:HD:43:ARG:CZ	24:HD:60:ARG:HB3	2.45	0.47
25:HE:33:ILE:HG22	25:HE:34:VAL:HG13	1.97	0.47
28:HH:140:LEU:HB3	28:HH:144:VAL:HG13	1.97	0.47
33:HM:88:PHE:HA	33:HM:93:LEU:HD23	1.96	0.47
34:HN:30:PHE:HE2	34:HN:101:GLY:HA3	1.80	0.47
22:HB:2254:C:HO2'	34:HN:86:LYS:HG3	1.77	0.47
36:HP:88:VAL:HG12	36:HP:89:PHE:N	2.30	0.47
37:HQ:13:LEU:HD13	37:HQ:13:LEU:O	2.15	0.47
39:HS:21:ARG:HD2	39:HS:22:VAL:HG23	1.96	0.47
22:HB:1996:A:H1'	40:HT:116:ILE:HB	1.97	0.47
40:HT:38:VAL:HG11	40:HT:97:VAL:HG11	1.97	0.47
44:HX:41:ARG:NE	44:HX:41:ARG:N	2.63	0.47
1:IA:1047:G:O2'	1:IA:1048:G:H5'	2.15	0.47
1:IA:1439:C:OP1	20:IT:38:LYS:NZ	2.44	0.47
1:IA:1528:U:C5'	1:IA:1529:G:H21	2.28	0.47
1:IA:500:G:H1'	1:IA:547:A:N1	2.30	0.47
1:IA:587:G:H5''	8:IH:89:PRO:HB3	1.97	0.47
1:IA:702:A:H5'	1:IA:703:G:C8	2.49	0.47
1:IA:1104:G:O4'	2:IB:111:ARG:HD2	2.15	0.47
3:IC:191:THR:HG22	3:IC:193:TYR:H	1.81	0.47
8:IH:25:ASP:HB3	8:IH:58:TYR:HD2	1.80	0.47
1:IA:877:C:C5'	8:IH:88:LYS:CG	2.91	0.47
1:IA:669:U:H5'	15:IO:46:HIS:CE1	2.49	0.47
40:JT:56:LEU:HA	48:J2:28:PRO:HD2	1.97	0.47
53:J7:13:LYS:HZ1	53:J7:177:GLU:HA	1.80	0.47
22:JB:1067:G:H21	22:JB:1114:A:H61	1.63	0.47
22:JB:1358:C:H2'	22:JB:1359:G:H5''	1.96	0.47
22:JB:1411:C:H3'	22:JB:1412:C:C5	2.50	0.47
22:JB:1469:U:H2'	35:JO:63:ARG:HH11	1.68	0.47
22:JB:1572:C:C2'	22:JB:1573:G:H5''	2.44	0.47
22:JB:162:C:H2'	22:JB:163:A:C8	2.49	0.47
22:JB:1699:A:H1'	22:JB:1748:U:O4	2.15	0.47
22:JB:1827:G:N2	22:JB:1913:G:C2	2.82	0.47
22:JB:1923:U:H2'	22:JB:1925:C:H41	1.79	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:JB:226:C:C4	22:JB:2374:C:C5'	2.97	0.47
22:JB:2284:U:C1'	27:JG:152:MET:HA	2.45	0.47
22:JB:2446:C:H2'	22:JB:2447:G:H8	1.79	0.47
22:JB:2629:U:H5''	32:JL:29:ILE:HG23	1.97	0.47
22:JB:544:U:H2'	22:JB:545:C:C6	2.50	0.47
22:JB:844:G:H2'	22:JB:845:U:O4'	2.15	0.47
24:JD:221:GLN:N	24:JD:222:ARG:NH1	2.62	0.47
26:JF:150:LEU:HD13	26:JF:158:ARG:NH2	2.29	0.47
26:JF:181:LEU:HD11	33:JM:16:ARG:HG3	1.97	0.47
31:JK:111:LYS:HB2	31:JK:111:LYS:NZ	2.29	0.47
32:JL:23:ARG:NH2	32:JL:24:VAL:HG12	2.30	0.47
33:JM:18:ARG:HG2	33:JM:19:VAL:H	1.80	0.47
34:JN:65:ILE:HG22	34:JN:106:GLU:OE1	2.15	0.47
34:JN:71:PRO:HA	34:JN:95:VAL:HG12	1.97	0.47
35:JO:103:ARG:HH11	35:JO:108:VAL:HG11	1.79	0.47
22:JB:1173:G:H5''	39:JS:23:GLU:HG3	1.97	0.47
22:JB:512:A:H5'	40:JT:16:GLN:CA	2.41	0.47
40:JT:39:ARG:CZ	40:JT:95:ALA:HB3	2.45	0.47
40:JT:55:ASP:H	40:JT:58:ARG:CB	2.28	0.47
44:JX:11:LYS:NZ	44:JX:11:LYS:HB2	2.30	0.47
1:AA:1032:G:N3	1:AA:1032:G:H2'	2.30	0.46
1:AA:1047:G:O2'	1:AA:1048:G:H5'	2.15	0.46
1:AA:1163:C:H2'	1:AA:1164:G:H8	1.77	0.46
1:AA:1097:C:H1'	1:AA:1169:A:C8	2.49	0.46
1:AA:45:U:H2'	1:AA:46:G:C8	2.49	0.46
1:AA:864:A:OP1	5:AE:86:ALA:CB	2.31	0.46
1:AA:877:C:C4'	8:AH:89:PRO:HG2	2.45	0.46
2:AB:119:GLU:C	2:AB:121:LEU:H	2.19	0.46
3:AC:59:ARG:C	10:AJ:92:THR:HG23	2.35	0.46
4:AD:102:ASP:HA	4:AD:118:ARG:HB3	1.97	0.46
1:AA:1080:A:OP2	5:AE:47:LYS:HD3	2.15	0.46
5:AE:72:GLN:C	5:AE:74:GLY:H	2.18	0.46
7:AG:70:LYS:HG2	7:AG:96:GLN:OE1	2.15	0.46
8:AH:25:ASP:HB3	8:AH:58:TYR:HD2	1.80	0.46
8:AH:8:ASP:O	8:AH:12:ARG:HG3	2.15	0.46
9:AI:14:VAL:HG12	9:AI:15:ALA:N	2.30	0.46
11:AK:102:GLY:O	11:AK:103:LEU:HD23	2.14	0.46
1:AA:43:C:H6	16:AP:12:LYS:HZ1	1.63	0.46
17:AQ:59:ILE:CG2	17:AQ:71:PHE:HB3	2.46	0.46
47:B1:57:ASP:CB	47:B1:60:ASN:HB2	2.45	0.46
23:BA:95:U:OP1	43:BW:14:LEU:HG	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:BB:1007:A:N1	22:BB:1171:A:N3	2.64	0.46
22:BB:111:G:H3'	22:BB:112:U:OP1	2.15	0.46
22:BB:1140:A:C2	22:BB:2549:G:O2'	2.62	0.46
22:BB:1271:C:H2'	22:BB:1272:G:H8	1.80	0.46
22:BB:2048:C:C5'	22:BB:2231:G:H4'	2.45	0.46
22:BB:2292:C:H2'	22:BB:2293:G:C8	2.50	0.46
22:BB:2338:C:C5'	51:B5:50:LEU:HD22	2.45	0.46
22:BB:2563:U:H2'	22:BB:2564:U:H3'	1.96	0.46
22:BB:2789:U:C5	22:BB:2790:C:H1'	2.50	0.46
22:BB:2813:G:O2'	35:BO:45:ARG:CG	2.58	0.46
22:BB:6:A:N6	22:BB:2871:U:N3	2.58	0.46
22:BB:297:A:H2'	22:BB:298:C:O4'	2.15	0.46
22:BB:39:C:H2'	22:BB:40:U:C6	2.50	0.46
22:BB:693:A:H2'	22:BB:694:G:O4'	2.15	0.46
22:BB:916:U:O2	43:BW:166:LEU:N	2.48	0.46
24:BD:49:ILE:HG22	24:BD:50:THR:N	2.30	0.46
24:BD:80:ALA:HB3	24:BD:96:HIS:NE2	2.30	0.46
22:BB:627:A:P	26:BF:100:ARG:NH2	2.85	0.46
27:BG:127:ASN:HD22	27:BG:127:ASN:C	2.18	0.46
27:BG:14:PRO:CB	27:BG:18:GLN:HE22	2.23	0.46
27:BG:95:ARG:NH1	27:BG:98:VAL:HG11	2.29	0.46
28:BH:140:LEU:HB3	28:BH:144:VAL:HG13	1.97	0.46
31:BK:104:THR:OG1	31:BK:110:LEU:HD22	2.15	0.46
31:BK:33:ILE:HG13	31:BK:35:LYS:N	2.29	0.46
31:BK:49:VAL:HG12	31:BK:87:GLN:HG3	1.97	0.46
32:BL:29:ILE:HG22	32:BL:30:GLY:H	1.80	0.46
35:BO:37:THR:H	35:BO:110:MET:HG2	1.80	0.46
40:BT:48:LYS:HB3	40:BT:51:GLN:HB2	1.97	0.46
41:BU:13:SER:O	41:BU:16:ALA:HB3	2.15	0.46
43:BW:121:GLN:O	43:BW:123:VAL:HG22	2.15	0.46
45:BY:48:ARG:HD3	45:BY:51:ALA:CB	2.44	0.46
1:CA:1141:C:H2'	1:CA:1142:G:C8	2.51	0.46
1:CA:1097:C:H1'	1:CA:1169:A:C8	2.49	0.46
1:CA:1320:C:O2	19:CS:72:GLY:C	2.53	0.46
1:CA:1475:G:H2'	1:CA:1476:G:C8	2.50	0.46
1:CA:1528:U:C5'	1:CA:1529:G:H21	2.28	0.46
1:CA:271:C:H2'	1:CA:272:C:C6	2.49	0.46
1:CA:309:G:H2'	1:CA:310:G:H8	1.80	0.46
1:CA:333:G:H2'	1:CA:334:C:H6	1.80	0.46
1:CA:564:C:C5	17:CQ:32:TYR:OH	2.63	0.46
1:CA:697:U:H2'	1:CA:698:G:H5'	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:739:C:O2	15:CO:46:HIS:HD2	1.97	0.46
1:CA:833:U:H2'	1:CA:834:C:C5	2.50	0.46
1:CA:1104:G:HO2'	2:CB:111:ARG:NH1	1.93	0.46
2:CB:119:GLU:C	2:CB:121:LEU:H	2.18	0.46
2:CB:97:TRP:CE3	2:CB:172:ILE:HB	2.50	0.46
4:CD:97:LEU:HA	4:CD:100:ARG:CD	2.45	0.46
1:CA:1343:G:O2'	9:CI:120:ARG:O	2.34	0.46
9:CI:14:VAL:HG12	9:CI:15:ALA:N	2.30	0.46
13:CM:48:LEU:HA	13:CM:52:GLU:OE2	2.15	0.46
14:CN:46:GLU:O	14:CN:50:LYS:HG3	2.15	0.46
1:CA:994:A:C2	14:CN:5:ALA:HA	2.49	0.46
16:CP:34:GLU:HG3	16:CP:35:LYS:N	2.30	0.46
1:CA:720:C:C4'	18:CR:52:PRO:CA	2.67	0.46
19:CS:49:ILE:HD12	19:CS:60:VAL:HG12	1.97	0.46
33:DM:58:ALA:HB3	51:D5:9:MET:SD	2.35	0.46
22:DB:3123:G:N2	53:D7:31:GLU:OE1	2.48	0.46
23:DA:48:A:N3	23:DA:48:A:H2'	2.29	0.46
23:DA:77:G:H1'	43:DW:29:ASN:ND2	2.30	0.46
22:DB:1143:A:H5''	22:DB:1144:U:OP2	2.15	0.46
22:DB:1271:C:H2'	22:DB:1272:G:H8	1.80	0.46
22:DB:785:U:H4'	22:DB:1368:G:O3'	2.15	0.46
22:DB:1613:G:P	22:DB:1614:C:OP1	2.73	0.46
22:DB:1887:G:N7	22:DB:1888:C:C4	2.81	0.46
22:DB:2058:U:H2'	22:DB:2217:G:O6	2.14	0.46
22:DB:2182:A:C6	22:DB:2204:A:N3	2.83	0.46
22:DB:2377:U:H4'	22:DB:2378:G:OP1	2.14	0.46
22:DB:331:U:O4	26:DF:134:ILE:HD11	2.15	0.46
22:DB:39:C:H2'	22:DB:40:U:C6	2.50	0.46
22:DB:652:C:C3'	22:DB:653:G:H5'	2.45	0.46
22:DB:690:A:O3'	22:DB:2054:A:H4'	2.15	0.46
22:DB:891:A:H61	22:DB:909:C:H2'	1.80	0.46
24:DD:47:GLY:HA2	24:DD:48:ARG:CZ	2.45	0.46
24:DD:48:ARG:O	24:DD:49:ILE:HD13	2.14	0.46
24:DD:49:ILE:HG22	24:DD:50:THR:N	2.31	0.46
24:DD:72:LYS:HG2	24:DD:119:ALA:O	2.16	0.46
24:DD:96:HIS:O	24:DD:97:TYR:HB2	2.15	0.46
22:DB:2658:A:O2'	25:DE:188:ILE:C	2.53	0.46
25:DE:61:LYS:N	25:DE:62:PRO:CD	2.71	0.46
22:DB:627:A:H5''	26:DF:100:ARG:CD	2.44	0.46
22:DB:2725:C:C1'	28:DH:139:GLN:CA	2.54	0.46
28:DH:140:LEU:HB3	28:DH:144:VAL:HG13	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:DB:2638:G:OP2	28:DH:179:THR:HG23	2.15	0.46
22:DB:1290:A:O2'	35:DO:24:GLN:O	2.25	0.46
35:DO:36:THR:O	35:DO:40:LYS:HB3	2.15	0.46
37:DQ:44:ARG:HG2	37:DQ:45:THR:H	1.79	0.46
38:DR:95:LEU:CD1	39:DS:4:ILE:HG21	2.46	0.46
41:DU:13:SER:O	41:DU:16:ALA:HB3	2.15	0.46
42:DV:48:VAL:HG13	42:DV:49:GLU:N	2.30	0.46
23:DA:105:G:O2'	43:DW:91:PRO:CG	2.63	0.46
44:DX:45:PHE:H	44:DX:76:ALA:CA	2.27	0.46
1:EA:1060:C:H2'	1:EA:1061:G:H8	1.80	0.46
1:EA:1116:C:H2'	1:EA:1117:G:H5''	1.96	0.46
1:EA:1234:C:H1'	1:EA:1364:U:H1'	1.97	0.46
1:EA:579:G:O2'	1:EA:580:U:H5'	2.15	0.46
1:EA:697:U:H3	1:EA:798:G:HO2'	1.63	0.46
1:EA:890:G:H1'	1:EA:906:G:O6	2.15	0.46
2:EB:140:HIS:HA	2:EB:143:GLU:CG	2.46	0.46
2:EB:16:HIS:CE1	2:EB:213:LEU:HB3	2.51	0.46
2:EB:80:ILE:HA	2:EB:83:MET:HG2	1.96	0.46
1:EA:545:C:P	4:ED:65:ARG:NH2	2.88	0.46
5:EE:149:GLU:OE2	5:EE:152:ARG:HD3	2.14	0.46
5:EE:72:GLN:C	5:EE:74:GLY:H	2.19	0.46
10:EJ:12:ASP:OD2	10:EJ:14:LYS:HD3	2.15	0.46
10:EJ:75:ILE:HG22	10:EJ:76:ASN:ND2	2.31	0.46
13:EM:2:ALA:N	13:EM:9:ILE:HA	2.31	0.46
47:F1:61:LYS:HD3	47:F1:61:LYS:O	2.14	0.46
48:F2:33:CYS:H	48:F2:40:LYS:HB2	1.79	0.46
49:F3:16:ALA:HB2	49:F3:50:PHE:CD1	2.50	0.46
51:F5:23:MET:HA	51:F5:48:PHE:CD1	2.50	0.46
51:F5:24:ALA:HB3	51:F5:48:PHE:HA	1.97	0.46
22:FB:1290:A:C2	35:FO:27:ALA:CB	2.76	0.46
22:FB:1595:A:N3	22:FB:1595:A:H2'	2.30	0.46
22:FB:2058:U:H2'	22:FB:2217:G:O6	2.14	0.46
22:FB:2752:C:H5'	25:FE:166:THR:CB	2.46	0.46
22:FB:297:A:H2'	22:FB:298:C:O4'	2.14	0.46
22:FB:3167:U:H2'	22:FB:3168:G:C8	2.51	0.46
22:FB:574:C:O5'	39:FS:82:ARG:NH1	2.36	0.46
22:FB:690:A:O3'	22:FB:2054:A:H4'	2.15	0.46
22:FB:691:C:O2'	22:FB:692:C:H5'	2.15	0.46
24:FD:11:PRO:O	24:FD:13:ARG:HG3	2.14	0.46
24:FD:40:THR:HB	24:FD:61:LEU:CD2	2.44	0.46
24:FD:47:GLY:HA2	24:FD:48:ARG:CZ	2.45	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:FD:43:ARG:CZ	24:FD:60:ARG:HB3	2.45	0.46
22:FB:1674:C:C5'	25:FE:134:TRP:HB3	2.44	0.46
27:FG:179:LYS:CD	1:IA:1021:G:C5'	2.80	0.46
28:FH:103:LEU:HD22	28:FH:123:PHE:CE2	2.49	0.46
32:FL:71:LYS:HE3	32:FL:101:ASN:ND2	2.30	0.46
32:FL:19:ILE:HA	32:FL:57:ASP:OD1	2.14	0.46
32:FL:25:LEU:HD13	32:FL:26:ASN:N	2.30	0.46
36:FP:88:VAL:HG12	36:FP:89:PHE:N	2.30	0.46
23:FA:49:C:O3'	36:FP:95:LYS:HG3	2.15	0.46
37:FQ:100:ARG:HH12	37:FQ:121:ARG:NH1	2.13	0.46
22:FB:589:C:O3'	38:FR:32:TYR:HB3	2.08	0.46
39:FS:21:ARG:HD2	39:FS:22:VAL:HG23	1.96	0.46
39:FS:69:ILE:HD11	39:FS:88:GLN:NE2	2.26	0.46
43:FW:103:ARG:HG2	43:FW:103:ARG:O	2.15	0.46
44:FX:74:LYS:HD2	44:FX:75:GLY:N	2.30	0.46
1:GA:330:C:H2'	1:GA:331:G:C8	2.42	0.46
1:GA:430:A:P	4:GD:8:VAL:HG23	2.55	0.46
2:GB:97:TRP:CE3	2:GB:172:ILE:HB	2.50	0.46
3:GC:77:ILE:HG23	3:GC:84:ILE:HB	1.97	0.46
9:GI:48:GLU:H	9:GI:78:LYS:NZ	2.13	0.46
11:GK:27:ASN:CG	11:GK:28:THR:H	2.18	0.46
7:GG:153:HIS:HD2	11:GK:93:GLN:HG2	1.75	0.46
15:GO:21:ASP:OD1	15:GO:24:SER:HB2	2.14	0.46
16:GP:71:ARG:HE	16:GP:74:LEU:HD12	1.80	0.46
17:GQ:36:ILE:HG13	17:GQ:37:LYS:H	1.79	0.46
17:GQ:62:SER:HB3	17:GQ:72:ARG:HG3	1.96	0.46
1:GA:663:A:O3'	18:GR:64:ARG:NH2	2.48	0.46
47:H1:30:GLU:HG3	47:H1:32:HIS:CE1	2.49	0.46
23:HA:92:G:C6	34:HN:39:GLU:CG	2.98	0.46
22:HB:1082:G:OP1	22:HB:1082:G:H3'	2.15	0.46
22:HB:1668:G:OP1	35:HO:11:ASN:OD1	2.31	0.46
22:HB:181:A:H4'	22:HB:182:G:C4'	2.42	0.46
22:HB:1872:A:N3	22:HB:1872:A:H2'	2.30	0.46
22:HB:18:U:H1'	22:HB:564:U:OP1	2.16	0.46
22:HB:2265:A:OP1	22:HB:2266:A:H5'	2.15	0.46
22:HB:2339:A:OP1	51:H5:49:VAL:CG2	2.63	0.46
22:HB:2398:U:O4	51:H5:31:HIS:CE1	2.58	0.46
22:HB:2747:C:O2'	31:HK:119:LEU:CA	2.63	0.46
22:HB:2619:G:N2	22:HB:2755:A:H1'	2.29	0.46
22:HB:2789:U:C5	22:HB:2790:C:H1'	2.50	0.46
22:HB:3109:U:H3	22:HB:3180:U:H3	1.63	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:HB:644:A:H2'	22:HB:645:G:O4'	2.15	0.46
22:HB:652:C:C3'	22:HB:653:G:H5'	2.45	0.46
22:HB:794:A:H5'	22:HB:795:A:C2	2.49	0.46
26:HF:16:GLU:CG	26:HF:17:LEU:H	2.23	0.46
22:HB:2282:G:H21	27:HG:129:ASN:ND2	2.13	0.46
33:HM:91:ASP:HB3	33:HM:121:HIS:ND1	2.30	0.46
37:HQ:72:SER:HB2	37:HQ:78:GLU:C	2.34	0.46
38:HR:37:GLN:CA	38:HR:40:LEU:HD23	2.45	0.46
22:HB:1236:G:O6	39:HS:71:ILE:CG1	2.63	0.46
40:HT:106:LEU:HA	40:HT:117:ILE:CD1	2.42	0.46
40:HT:127:ILE:HD13	40:HT:128:VAL:N	2.30	0.46
22:HB:887:G:H5'	43:HW:170:SER:CB	2.45	0.46
44:HX:32:LYS:HA	44:HX:66:LYS:NZ	2.25	0.46
45:HY:50:VAL:CG1	45:HY:54:ASN:HD21	2.27	0.46
1:IA:1234:C:O4'	1:IA:1364:U:H1'	2.15	0.46
1:IA:1368:G:OP1	9:II:113:LYS:O	2.32	0.46
1:IA:925:G:N3	1:IA:1502:A:H4'	2.29	0.46
1:IA:330:C:H2'	1:IA:331:G:C8	2.42	0.46
1:IA:742:G:H5'	15:IO:58:MET:SD	2.55	0.46
2:IB:140:HIS:HA	2:IB:143:GLU:CG	2.46	0.46
2:IB:80:ILE:HA	2:IB:83:MET:HG2	1.96	0.46
3:IC:22:TRP:CZ2	3:IC:33:LEU:HG	2.50	0.46
3:IC:43:LEU:O	3:IC:46:GLU:HB2	2.14	0.46
3:IC:77:ILE:HG23	3:IC:84:ILE:HB	1.97	0.46
1:IA:412:A:C2	4:ID:30:LYS:HA	2.50	0.46
1:IA:642:A:C6	8:IH:131:GLY:CA	2.91	0.46
9:II:118:LYS:HZ2	9:II:118:LYS:HB3	1.80	0.46
1:IA:1147:C:CI'	9:II:16:ARG:HE	2.29	0.46
1:IA:1308:U:H3'	13:IM:99:ARG:HH11	0.74	0.46
10:IJ:46:ARG:NH1	14:IN:59:ALA:CB	2.56	0.46
15:IO:79:ARG:HG2	15:IO:82:ILE:HD12	1.97	0.46
16:IP:81:ARG:HA	16:IP:81:ARG:NE	2.30	0.46
20:IT:13:LEU:HD23	20:IT:16:HIS:HB3	1.96	0.46
22:JB:16:G:O2'	48:J2:14:SER:C	2.50	0.46
22:JB:1999:U:H2'	48:J2:6:VAL:HG21	1.42	0.46
22:JB:10:A:C4	22:JB:2608:A:C2	3.03	0.46
22:JB:785:U:H4'	22:JB:1368:G:O3'	2.15	0.46
22:JB:1908:C:C2'	22:JB:1909:U:H4'	2.44	0.46
22:JB:2057:U:C2'	22:JB:2576:G:H21	2.27	0.46
22:JB:2721:A:O3'	52:J6:36:GLN:OXT	2.32	0.46
22:JB:3109:U:H2'	22:JB:3110:G:H5'	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:JB:3176:A:H2'	53:J7:162:GLN:HB3	1.97	0.46
22:JB:571:U:C2'	22:JB:572:G:H5''	2.45	0.46
22:JB:642:A:N1	22:JB:2394:G:N2	2.62	0.46
22:JB:794:A:H5'	22:JB:795:A:C2	2.49	0.46
24:JD:102:LYS:O	24:JD:103:ARG:HB2	2.14	0.46
24:JD:87:ASN:HB3	24:JD:217:ARG:NH2	2.30	0.46
27:JG:67:ILE:HG12	27:JG:84:PRO:HB2	1.97	0.46
22:JB:2494:C:H4'	31:JK:107:GLN:OE1	2.14	0.46
22:JB:547:U:O2'	31:JK:32:TYR:HD2	1.98	0.46
32:JL:24:VAL:HG23	32:JL:51:ILE:CD1	2.45	0.46
32:JL:73:VAL:CG2	32:JL:99:ILE:HB	2.44	0.46
37:JQ:87:LEU:HG	37:JQ:89:ASN:H	1.81	0.46
22:JB:592:G:C3'	38:JR:5:LYS:HE2	2.44	0.46
39:JS:21:ARG:HD2	39:JS:22:VAL:HG23	1.96	0.46
1:AA:1067:A:N1	1:AA:1109:C:H5'	2.31	0.46
1:AA:1116:C:H2'	1:AA:1117:G:H5''	1.96	0.46
1:AA:1127:G:N2	1:AA:1147:C:H42	2.13	0.46
1:AA:1176:A:H61	1:AA:1181:G:H1	1.64	0.46
1:AA:136:C:H1'	16:AP:63:GLY:CA	2.37	0.46
1:AA:1369:C:H2'	1:AA:1370:G:O4'	2.15	0.46
1:AA:1442:G:O6	1:AA:1461:G:H1'	2.15	0.46
1:AA:179:A:C2	20:GT:99:LEU:CB	2.63	0.46
1:AA:333:G:H2'	1:AA:334:C:H6	1.80	0.46
1:AA:445:G:H2'	1:AA:446:G:O4'	2.15	0.46
1:AA:729:A:H2'	1:AA:730:G:H8	1.80	0.46
4:AD:114:ARG:HA	4:AD:117:ALA:HB3	1.97	0.46
4:AD:169:LYS:HD2	4:AD:169:LYS:H	1.80	0.46
5:AE:11:ILE:HG13	5:AE:31:LEU:HB2	1.97	0.46
6:AF:99:ALA:CA	18:AR:62:GLU:OE2	2.63	0.46
7:AG:138:LYS:O	7:AG:142:GLU:HG3	2.15	0.46
1:AA:932:C:C1'	7:AG:3:ARG:HD3	2.45	0.46
8:AH:97:VAL:HG13	8:AH:98:LYS:H	1.78	0.46
10:AJ:75:ILE:HG22	10:AJ:76:ASN:ND2	2.30	0.46
19:AS:49:ILE:HD12	19:AS:60:VAL:HG12	1.97	0.46
20:AT:15:ARG:HD3	20:AT:15:ARG:O	2.16	0.46
22:BB:2040:A:HO2'	48:B2:6:VAL:HG13	1.80	0.46
49:B3:39:LYS:NZ	49:B3:39:LYS:HB2	2.31	0.46
22:BB:123:A:O4'	50:B4:13:ALA:HB1	2.14	0.46
51:B5:23:MET:HA	51:B5:48:PHE:CD1	2.50	0.46
22:BB:1082:G:OP1	22:BB:1082:G:H3'	2.15	0.46
22:BB:1327:C:H2'	22:BB:1328:C:O4'	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:BB:140:G:H2'	22:BB:140:G:N3	2.30	0.46
22:BB:1481:U:O4'	22:BB:1561:A:N1	2.47	0.46
22:BB:1683:G:C1'	32:BL:3:MET:CG	2.93	0.46
22:BB:1950:C:H5'	22:BB:2572:U:OP1	2.15	0.46
22:BB:2249:U:O3'	44:BX:18:PRO:HD2	2.15	0.46
22:BB:698:A:H5'	22:BB:801:A:N1	2.31	0.46
22:BB:772:G:H2'	22:BB:773:G:C8	2.50	0.46
22:BB:677:G:C2'	22:BB:951:G:H5'	2.41	0.46
24:BD:95:LEU:HB3	24:BD:105:ILE:HB	1.97	0.46
24:BD:177:LEU:HD21	24:BD:183:ARG:HG3	1.97	0.46
25:BE:23:VAL:HG12	25:BE:24:THR:N	2.30	0.46
27:BG:120:ASN:O	27:BG:121:ALA:HB3	2.15	0.46
28:BH:25:LYS:HZ3	28:BH:32:GLU:HA	1.80	0.46
22:BB:1074:G:N2	30:BJ:88:SER:HB2	2.27	0.46
22:BB:1188:A:H4'	33:BM:19:VAL:HA	1.98	0.46
34:BN:105:PHE:HE1	34:BN:115:ALA:HB2	1.80	0.46
22:BB:2465:G:C5'	34:BN:123:GLY:C	2.81	0.46
22:BB:2255:G:H5'	34:BN:86:LYS:CD	2.41	0.46
35:BO:70:ILE:O	35:BO:75:VAL:HG21	2.16	0.46
38:BR:37:GLN:CA	38:BR:40:LEU:HD23	2.45	0.46
38:BR:35:ALA:O	38:BR:39:LEU:HD23	2.14	0.46
40:BT:34:SER:O	40:BT:38:VAL:HG23	2.15	0.46
40:BT:85:MET:HA	40:BT:89:ARG:NH2	2.31	0.46
22:BB:2332:G:N2	44:BX:30:VAL:HB	2.29	0.46
45:BY:44:ARG:HA	45:BY:47:ARG:CB	2.38	0.46
1:CA:1116:C:H2'	1:CA:1117:G:H5''	1.96	0.46
1:CA:1308:U:OP1	13:CM:109:THR:HG23	2.15	0.46
1:CA:1369:C:H2'	1:CA:1370:G:O4'	2.15	0.46
1:CA:332:G:OP1	20:CT:8:ARG:CA	2.62	0.46
1:CA:631:G:H5''	1:CA:632:A:OP1	2.15	0.46
7:CG:138:LYS:O	7:CG:142:GLU:HG3	2.15	0.46
10:CJ:7:LYS:HA	10:CJ:71:LEU:HA	1.97	0.46
12:CL:124:LYS:HG3	12:CL:125:PRO:HD2	1.96	0.46
47:D1:72:LYS:NZ	47:D1:72:LYS:HB2	2.30	0.46
51:D5:23:MET:HA	51:D5:48:PHE:CD1	2.50	0.46
22:DB:1257:U:H2'	22:DB:1258:G:C8	2.51	0.46
22:DB:1398:G:N1	22:DB:1416:A:C6	2.84	0.46
22:DB:140:G:N3	22:DB:140:G:H2'	2.31	0.46
22:DB:2039:G:N2	48:D2:3:LYS:CA	2.67	0.46
22:DB:227:G:P	33:DM:59:ARG:HH22	2.29	0.46
22:DB:2717:G:C6	22:DB:2748:C:C4	3.02	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:DB:545:C:H2'	22:DB:546:A:C8	2.51	0.46
22:DB:583:C:H4'	22:DB:584:A:O5'	2.15	0.46
22:DB:638:A:H61	22:DB:647:G:C2'	2.29	0.46
22:DB:691:C:O2'	22:DB:692:C:H5'	2.16	0.46
22:DB:698:A:H5'	22:DB:801:A:N1	2.31	0.46
22:DB:917:U:O3'	43:DW:121:GLN:O	2.32	0.46
22:DB:935:C:C4'	44:DX:26:PHE:CD2	2.96	0.46
22:DB:965:G:OP1	34:DN:18:MET:C	2.46	0.46
22:DB:967:G:C1'	22:DB:970:A:H62	2.27	0.46
22:DB:973:U:H4'	22:DB:2475:C:O2'	2.15	0.46
24:DD:157:ARG:HD2	24:DD:202:LYS:HZ1	1.81	0.46
22:DB:1805:G:H4'	24:DD:44:ASN:CA	2.44	0.46
22:DB:705:C:OP1	24:DD:57:GLY:O	2.32	0.46
22:DB:2034:A:O4'	25:DE:141:ILE:HD11	2.13	0.46
25:DE:59:VAL:HG12	25:DE:60:ASN:H	1.80	0.46
26:DF:147:LYS:O	26:DF:167:VAL:HG12	2.14	0.46
27:DG:14:PRO:CB	27:DG:18:GLN:HE22	2.23	0.46
31:DK:104:THR:OG1	31:DK:110:LEU:HD22	2.15	0.46
31:DK:139:ARG:HB3	31:DK:140:GLN:H	1.54	0.46
35:DO:37:THR:H	35:DO:110:MET:HG2	1.81	0.46
35:DO:70:ILE:O	35:DO:75:VAL:HG21	2.16	0.46
37:DQ:36:ASP:O	37:DQ:38:LYS:HE2	2.16	0.46
39:DS:21:ARG:HD2	39:DS:22:VAL:HG23	1.96	0.46
38:DR:47:TYR:HB2	39:DS:74:TYR:HB3	1.93	0.46
22:DB:504:G:C2'	40:DT:25:PHE:HD2	2.29	0.46
40:DT:48:LYS:HB3	40:DT:51:GLN:HB2	1.97	0.46
1:EA:1026:G:H3'	1:EA:1035:A:H61	1.79	0.46
1:EA:1057:G:O2'	3:EC:197:GLY:N	2.48	0.46
1:EA:1067:A:N1	1:EA:1109:C:H5'	2.31	0.46
1:EA:1157:A:N6	1:EA:1178:G:H1'	2.30	0.46
1:EA:1176:A:H61	1:EA:1181:G:H1	1.63	0.46
1:EA:127:G:H2'	1:EA:128:G:C8	2.47	0.46
1:EA:1408:A:H1'	1:EA:1494:G:H22	1.79	0.46
1:EA:59:A:C5'	1:EA:387:U:H5''	2.45	0.46
1:EA:618:C:H2'	1:EA:620:C:N4	2.26	0.46
1:EA:932:C:OP1	7:EG:3:ARG:HB2	2.16	0.46
7:EG:138:LYS:O	7:EG:142:GLU:HG3	2.16	0.46
7:EG:70:LYS:HG2	7:EG:96:GLN:OE1	2.15	0.46
1:EA:1114:C:O4'	14:EN:60:SER:O	2.30	0.46
6:EF:52:ILE:CD1	18:ER:77:GLY:HA2	2.45	0.46
53:F7:147:TYR:O	53:F7:151:PHE:HB2	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:FB:1009:C:OP1	38:FR:80:ILE:CG2	2.40	0.46
22:FB:1072:U:C4	30:FJ:11:GLN:CG	2.98	0.46
22:FB:1271:C:H2'	22:FB:1272:G:H8	1.80	0.46
22:FB:1373:G:N7	22:FB:1384:G:N2	2.63	0.46
22:FB:1398:G:H21	22:FB:1415:C:H2'	1.71	0.46
22:FB:1781:C:C4'	24:FD:209:ALA:CB	2.93	0.46
22:FB:3877:A:C2	22:FB:1862:C:C2	3.01	0.46
22:FB:2048:C:C5'	22:FB:2231:G:H4'	2.45	0.46
22:FB:2254:C:O3'	34:FN:86:LYS:HG2	2.15	0.46
22:FB:846:A:H2	22:FB:2337:A:H62	1.61	0.46
22:FB:2717:G:H2'	22:FB:2718:A:O4'	2.15	0.46
22:FB:3093:C:C1'	22:FB:2181:A:N1	2.78	0.46
22:FB:3109:U:H2'	22:FB:3110:G:H5'	1.97	0.46
22:FB:3178:C:H5'	53:F7:36:PHE:N	2.30	0.46
22:FB:3866:A:C4	53:F7:195:LYS:CB	2.85	0.46
22:FB:578:U:H2'	22:FB:579:G:O4'	2.15	0.46
22:FB:638:A:H61	22:FB:647:G:C2'	2.29	0.46
24:FD:221:GLN:N	24:FD:222:ARG:NH1	2.62	0.46
22:FB:1885:C:HO2'	24:FD:242:ALA:HA	1.77	0.46
24:FD:260:ARG:HB3	24:FD:261:ARG:H	1.51	0.46
27:FG:120:ASN:O	27:FG:121:ALA:HB3	2.15	0.46
27:FG:87:ILE:O	27:FG:88:LYS:HB2	2.14	0.46
27:FG:97:TYR:C	27:FG:99:PHE:H	2.18	0.46
28:FH:25:LYS:H	28:FH:35:VAL:CG1	2.28	0.46
32:FL:132:GLU:HG2	37:FQ:75:GLU:HB3	1.96	0.46
33:FM:18:ARG:HG2	33:FM:19:VAL:H	1.80	0.46
34:FN:68:ARG:HB2	34:FN:101:GLY:O	2.15	0.46
38:FR:88:ILE:CG1	39:FS:52:GLY:CA	2.68	0.46
22:FB:1173:G:C1'	39:FS:90:PHE:CE1	2.97	0.46
22:FB:869:C:H1'	44:FX:24:LYS:CB	2.45	0.46
1:GA:1060:C:H2'	1:GA:1061:G:H8	1.80	0.46
1:GA:1214:C:H5''	1:GA:1215:G:OP2	2.16	0.46
1:GA:1234:C:H1'	1:GA:1364:U:H1'	1.97	0.46
1:GA:1239:A:H2'	1:GA:1298:C:N4	2.30	0.46
1:GA:1440:C:C4	1:GA:1441:G:H1'	2.50	0.46
1:GA:925:G:N3	1:GA:1502:A:O3'	2.48	0.46
1:GA:1517:G:C8	22:HB:1902:A:C3'	2.87	0.46
1:GA:865:A:C2	1:GA:918:A:H4'	2.49	0.46
2:GB:115:LEU:HD13	2:GB:145:LEU:HB2	1.96	0.46
2:GB:31:TYR:CE2	2:GB:202:PRO:HG3	2.49	0.46
3:GC:191:THR:HG22	3:GC:193:TYR:H	1.81	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:GC:69:HIS:HB3	3:GC:106:VAL:CG2	2.44	0.46
4:GD:21:LEU:HD21	4:GD:67:ILE:HG23	1.95	0.46
7:GG:136:LYS:HE3	7:GG:137:LYS:HG3	1.97	0.46
9:GI:46:ALA:HB1	9:GI:77:ILE:CD1	2.44	0.46
10:GJ:79:ARG:HD3	10:GJ:80:LYS:N	2.29	0.46
13:GM:16:ASP:HB3	13:GM:41:PRO:HB3	1.96	0.46
1:GA:127:G:C3'	17:GQ:2:PRO:O	2.61	0.46
18:GR:73:ALA:CB	18:GR:78:LEU:HB3	2.45	0.46
1:GA:193:C:O2'	20:GT:64:ASP:O	2.32	0.46
1:GA:222:U:C1'	20:GT:68:LYS:HE2	2.45	0.46
1:AA:180:U:C1'	20:GT:98:PRO:CB	2.93	0.46
22:HB:1217:U:C2	33:HM:14:LYS:CE	2.98	0.46
22:HB:1217:U:C2	33:HM:14:LYS:NZ	2.81	0.46
22:HB:1555:A:H2'	22:HB:1556:A:H5'	1.98	0.46
22:HB:1805:G:O3'	24:HD:44:ASN:CA	2.63	0.46
22:HB:1836:C:H2'	22:HB:1837:G:O4'	2.15	0.46
22:HB:2057:U:C2'	22:HB:2576:G:H21	2.27	0.46
22:HB:2310:G:O2'	22:HB:2311:U:H5'	2.15	0.46
22:HB:423:G:N2	22:HB:2386:G:N3	2.64	0.46
22:HB:2446:C:H2'	22:HB:2447:G:H8	1.80	0.46
22:HB:2451:G:N2	22:HB:2508:G:C6	2.83	0.46
22:HB:2515:G:H2'	22:HB:2516:U:C6	2.50	0.46
22:HB:2614:A:O2'	25:HE:79:ARG:NE	2.43	0.46
22:HB:2814:G:C5'	35:HO:46:PRO:CG	2.83	0.46
22:HB:571:U:C2'	22:HB:572:G:H5''	2.45	0.46
22:HB:818:G:H5'	22:HB:819:C:OP2	2.15	0.46
30:HJ:125:ASN:ND2	30:HJ:126:THR:N	2.62	0.46
32:HL:23:ARG:NH2	32:HL:24:VAL:HG12	2.30	0.46
34:HN:68:ARG:HB2	34:HN:101:GLY:O	2.15	0.46
35:HO:103:ARG:HH11	35:HO:108:VAL:HG11	1.79	0.46
22:HB:1470:G:C1'	35:HO:60:LEU:HD11	2.20	0.46
39:HS:93:ILE:HG22	39:HS:94:LYS:N	2.25	0.46
40:HT:55:ASP:H	40:HT:58:ARG:CB	2.29	0.46
22:HB:2335:U:H5'	44:HX:19:LYS:HG3	1.97	0.46
22:HB:2333:A:O2'	44:HX:31:VAL:HG13	2.14	0.46
41:HU:92:ALA:O	45:HY:27:GLU:HG3	2.09	0.46
1:IA:1060:C:H2'	1:IA:1061:G:H8	1.80	0.46
1:IA:1132:C:O2'	1:IA:1133:G:H5'	2.16	0.46
1:IA:1151:A:O4'	10:IJ:41:PRO:HA	2.15	0.46
1:IA:1239:A:H2'	1:IA:1298:C:N4	2.30	0.46
1:IA:287:U:H2'	1:IA:288:A:C8	2.50	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:IA:562:C:OP1	12:IL:17:LYS:NZ	2.37	0.46
2:IB:16:HIS:CE1	2:IB:213:LEU:HB3	2.50	0.46
4:ID:128:VAL:HG12	4:ID:129:ASN:N	2.30	0.46
4:ID:179:GLU:O	4:ID:181:MET:HG3	2.16	0.46
5:IE:139:LEU:HA	5:IE:142:LEU:HD12	1.97	0.46
5:IE:87:SER:OG	5:IE:133:TYR:HB2	2.15	0.46
7:IG:136:LYS:HE3	7:IG:137:LYS:HG3	1.96	0.46
8:IH:88:LYS:HB3	8:IH:89:PRO:HD2	1.97	0.46
9:II:9:ARG:HG2	9:II:10:ARG:N	2.28	0.46
10:IJ:75:ILE:HG22	10:IJ:76:ASN:ND2	2.30	0.46
11:IK:48:ILE:HG22	11:IK:49:GLY:H	1.79	0.46
53:J7:121:GLY:O	53:J7:126:PRO:HD2	2.15	0.46
22:JB:3176:A:C4'	53:J7:33:ILE:HD13	2.42	0.46
22:JB:1555:A:H2'	22:JB:1556:A:H5'	1.98	0.46
22:JB:1813:A:H2'	22:JB:1814:G:C8	2.49	0.46
22:JB:181:A:H4'	22:JB:182:G:C4'	2.42	0.46
22:JB:2075:U:H1'	22:JB:2204:A:H2'	1.96	0.46
22:JB:2260:C:O2'	22:JB:2368:G:N9	2.48	0.46
22:JB:2515:G:H2'	22:JB:2516:U:C6	2.50	0.46
22:JB:2789:U:C5	22:JB:2790:C:H1'	2.50	0.46
22:JB:2823:G:C2	37:JQ:105:TYR:CE2	3.03	0.46
22:JB:691:C:O2'	22:JB:692:C:H5'	2.16	0.46
24:JD:43:ARG:CZ	24:JD:60:ARG:HB3	2.46	0.46
26:JF:16:GLU:CG	26:JF:17:LEU:H	2.22	0.46
29:JI:4:ILE:HA	29:JI:16:GLU:H	1.79	0.46
30:JJ:106:GLU:O	30:JJ:107:ILE:HD13	2.15	0.46
30:JJ:91:PRO:O	30:JJ:92:ASN:CB	2.63	0.46
31:JK:126:VAL:O	31:JK:128:GLU:N	2.49	0.46
32:JL:29:ILE:HG22	32:JL:30:GLY:H	1.79	0.46
35:JO:67:ALA:HB3	35:JO:68:GLN:NE2	2.31	0.46
39:JS:93:ILE:HG22	39:JS:94:LYS:N	2.25	0.46
40:JT:38:VAL:HG11	40:JT:97:VAL:HG11	1.97	0.46
42:JV:48:VAL:HG13	42:JV:49:GLU:N	2.29	0.46
22:JB:493:A:C3'	42:JV:56:LYS:HB2	2.39	0.46
43:JW:95:SER:N	43:JW:130:ILE:HD13	2.24	0.46
1:AA:1132:C:O2'	1:AA:1133:G:H5'	2.16	0.46
1:AA:1348:U:OP1	9:AI:110:GLU:N	2.47	0.46
1:AA:265:G:C1'	17:AQ:65:ILE:N	2.70	0.46
1:AA:309:G:H2'	1:AA:310:G:H8	1.80	0.46
1:AA:345:C:H5''	1:AA:346:G:C2	2.50	0.46
1:AA:833:U:H2'	1:AA:834:C:C5	2.51	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:AG:136:LYS:HE3	7:AG:137:LYS:HG3	1.97	0.46
9:AI:85:LEU:HD21	9:AI:92:TYR:HB3	1.97	0.46
1:AA:1224:G:HO2'	13:AM:102:ARG:HB3	1.77	0.46
1:AA:668:G:C4	15:AO:46:HIS:N	2.81	0.46
18:AR:73:ALA:CB	18:AR:78:LEU:HB3	2.45	0.46
22:BB:176:A:C6	47:B1:32:HIS:HE1	2.31	0.46
22:BB:760:U:H5	48:B2:3:LYS:HZ2	1.58	0.46
52:B6:17:VAL:HG12	52:B6:19:ARG:HG3	1.98	0.46
53:B7:13:LYS:HD3	53:B7:177:GLU:OE2	2.15	0.46
22:BB:1004:A:H61	22:BB:1171:A:N6	2.13	0.46
22:BB:1143:A:H5''	22:BB:1144:U:OP2	2.15	0.46
22:BB:123:A:O5'	50:B4:13:ALA:HB1	2.16	0.46
22:BB:1373:G:N7	22:BB:1384:G:N2	2.63	0.46
22:BB:1817:U:H5''	24:BD:224:SER:CB	2.44	0.46
22:BB:2297:G:H2'	22:BB:2299:A:N3	2.29	0.46
22:BB:1949:A:N3	22:BB:2572:U:C1'	2.77	0.46
22:BB:1309:G:OP1	22:BB:2688:G:O4'	2.32	0.46
22:BB:2717:G:H2'	22:BB:2718:A:O4'	2.15	0.46
22:BB:3140:G:H2'	22:BB:3141:G:C8	2.51	0.46
22:BB:356:A:H2'	22:BB:357:A:C8	2.50	0.46
22:BB:545:C:H2'	22:BB:546:A:C8	2.51	0.46
22:BB:583:C:H4'	22:BB:584:A:O5'	2.15	0.46
22:BB:215:G:C1'	22:BB:618:A:O4'	2.62	0.46
22:BB:638:A:H61	22:BB:647:G:C2'	2.29	0.46
22:BB:648:A:H5'	22:BB:649:G:O5'	2.15	0.46
22:BB:683:A:P	33:BM:46:GLY:N	2.89	0.46
22:BB:691:C:O2'	22:BB:692:C:H5'	2.16	0.46
22:BB:686:C:H42	22:BB:821:A:H61	1.63	0.46
24:BD:251:GLY:CA	24:BD:255:LYS:HE3	2.46	0.46
25:BE:59:VAL:HG12	25:BE:60:ASN:H	1.80	0.46
22:BB:2619:G:OP1	31:BK:122:HIS:CD2	2.69	0.46
32:BL:25:LEU:HD13	32:BL:26:ASN:N	2.30	0.46
32:BL:77:THR:OG1	32:BL:78:SER:N	2.48	0.46
22:BB:613:A:N1	33:BM:97:ARG:CZ	2.78	0.46
36:BP:104:ALA:HA	36:BP:107:ALA:HB2	1.96	0.46
37:BQ:38:LYS:HD3	37:BQ:50:PHE:HB2	1.97	0.46
38:BR:6:THR:HB	38:BR:9:VAL:HG12	1.98	0.46
39:BS:93:ILE:HG22	39:BS:94:LYS:N	2.25	0.46
1:CA:1015:A:OP1	19:CS:14:HIS:CB	2.61	0.46
1:CA:1047:G:O2'	1:CA:1048:G:H5'	2.15	0.46
1:CA:1060:C:H2'	1:CA:1061:G:H8	1.80	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:1060:C:H5''	10:CJ:52:GLY:CA	2.42	0.46
1:CA:1132:C:O2'	1:CA:1133:G:H5'	2.16	0.46
1:CA:1176:A:H61	1:CA:1181:G:H1	1.64	0.46
1:CA:1187:G:H1'	14:CN:61:TRP:H	1.81	0.46
1:CA:1348:U:P	9:CI:109:VAL:CA	2.94	0.46
1:CA:781:A:P	1:CA:1523:G:C5'	2.96	0.46
1:CA:546:G:N3	4:CD:2:GLY:CA	2.62	0.46
1:CA:666:G:H1	15:CO:52:SER:HG	1.61	0.46
1:CA:736:C:H4'	6:CF:91:VAL:HG22	1.97	0.46
1:CA:981:U:H5''	14:CN:6:LEU:CD1	2.42	0.46
2:CB:178:ARG:HD3	2:CB:196:LEU:HD22	1.96	0.46
6:CF:4:TYR:CE1	6:CF:92:LYS:HG2	2.50	0.46
9:CI:47:LEU:HG	9:CI:51:ARG:NH1	2.31	0.46
9:CI:65:VAL:HG22	9:CI:73:GLN:NE2	2.31	0.46
9:CI:85:LEU:HD21	9:CI:92:TYR:HB3	1.98	0.46
10:CJ:75:ILE:HG22	10:CJ:76:ASN:ND2	2.30	0.46
1:CA:35:G:N2	12:CL:118:SER:HG	2.12	0.46
12:CL:45:PRO:HD2	12:CL:49:ASN:O	2.15	0.46
13:CM:11:ARG:HH21	13:CM:46:LYS:HA	1.79	0.46
1:CA:658:G:OP1	15:CO:8:LYS:NZ	2.48	0.46
17:CQ:36:ILE:HG13	17:CQ:37:LYS:H	1.80	0.46
1:CA:108:G:C8	20:CT:12:ALA:HB1	2.50	0.46
20:CT:53:LEU:HD12	20:CT:54:LYS:N	2.30	0.46
49:D3:39:LYS:HB2	49:D3:39:LYS:NZ	2.31	0.46
51:D5:62:LEU:O	51:D5:63:PRO:C	2.54	0.46
23:DA:10:U:H1'	36:DP:49:GLN:CB	2.43	0.46
23:DA:9:G:O3'	36:DP:32:TYR:OH	2.32	0.46
22:DB:1142:G:O4'	31:DK:111:LYS:HB3	2.15	0.46
22:DB:1366:A:N3	22:DB:1366:A:H2'	2.29	0.46
22:DB:1373:G:N7	22:DB:1384:G:N2	2.63	0.46
22:DB:1394:G:O2'	22:DB:1588:A:N6	2.43	0.46
22:DB:1397:A:C4	22:DB:1418:C:C4	3.03	0.46
22:DB:1773:C:H2'	22:DB:1774:A:O4'	2.15	0.46
22:DB:2019:C:H2'	22:DB:2020:G:H8	1.80	0.46
22:DB:2048:C:C5'	22:DB:2231:G:H4'	2.45	0.46
22:DB:2563:U:H2'	22:DB:2564:U:H3'	1.96	0.46
22:DB:2612:G:C4	25:DE:62:PRO:CG	2.80	0.46
22:DB:2735:C:H42	52:D6:35:ARG:HH21	0.47	0.46
22:DB:2745:A:N9	22:DB:2746:G:C8	2.83	0.46
22:DB:425:A:N1	22:DB:2391:A:H1'	2.31	0.46
22:DB:788:G:H5'	22:DB:790:A:N9	2.30	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:DD:258:LYS:HE2	24:DD:258:LYS:HA	1.97	0.46
27:DG:120:ASN:O	27:DG:121:ALA:HB3	2.15	0.46
27:DG:133:LYS:O	27:DG:151:GLY:HA2	2.15	0.46
27:DG:70:ALA:O	27:DG:71:LYS:HG2	2.14	0.46
27:DG:72:LYS:HG2	27:DG:81:GLN:HE22	1.78	0.46
28:DH:141:VAL:HG23	28:DH:142:GLY:H	1.81	0.46
30:DJ:106:GLU:O	30:DJ:107:ILE:HD13	2.15	0.46
31:DK:116:ARG:HH12	31:DK:126:VAL:HG11	1.80	0.46
22:DB:549:G:P	31:DK:32:TYR:HE2	2.37	0.46
22:DB:827:C:H41	33:DM:32:ARG:NH1	2.07	0.46
39:DS:93:ILE:HG22	39:DS:94:LYS:N	2.25	0.46
42:DV:107:ALA:HB3	42:DV:111:GLY:HA3	1.96	0.46
1:EA:1047:G:O2'	1:EA:1048:G:H5'	2.15	0.46
1:EA:1097:C:H1'	1:EA:1169:A:C8	2.49	0.46
1:EA:1226:C:H4'	1:EA:1227:A:OP1	2.16	0.46
1:EA:1273:G:C1'	1:IA:1265:G:C5'	2.52	0.46
1:EA:130:A:OP1	17:EQ:63:ARG:CZ	2.63	0.46
1:EA:1419:G:N2	1:EA:1482:G:H1'	2.30	0.46
1:EA:597:G:O6	8:EH:115:SER:CA	2.63	0.46
1:EA:590:C:C3'	8:EH:30:ARG:CG	2.92	0.46
9:EI:95:LYS:C	9:EI:98:PRO:HD2	2.35	0.46
11:EK:62:GLN:CB	11:EK:93:GLN:HB3	2.46	0.46
15:EO:7:GLU:O	15:EO:10:LYS:HG2	2.14	0.46
18:ER:73:ALA:CB	18:ER:78:LEU:HB3	2.45	0.46
19:ES:29:ARG:HD2	19:ES:29:ARG:N	2.30	0.46
20:ET:23:ARG:HE	20:ET:30:LYS:NZ	2.12	0.46
53:F7:110:PHE:HE1	53:F7:133:LYS:HD3	1.78	0.46
22:FB:1072:U:C4	30:FJ:11:GLN:HA	2.50	0.46
22:FB:1143:A:H5''	22:FB:1144:U:OP2	2.15	0.46
22:FB:1257:U:H2'	22:FB:1258:G:C8	2.51	0.46
22:FB:1356:G:C5	22:FB:1417:C:N4	2.56	0.46
22:FB:1672:A:H2'	22:FB:1673:C:O4'	2.15	0.46
22:FB:1674:C:H5''	25:FE:134:TRP:HB2	1.98	0.46
22:FB:642:A:H61	22:FB:2394:G:H21	1.60	0.46
22:FB:2404:A:H4'	22:FB:2405:A:OP2	2.16	0.46
22:FB:2510:A:C4'	28:FH:157:TYR:CE2	2.84	0.46
22:FB:1949:A:N3	22:FB:2572:U:O4'	2.48	0.46
22:FB:2710:C:H4'	25:FE:169:ASN:CB	2.45	0.46
22:FB:2764:U:P	25:FE:36:ARG:HH22	2.38	0.46
22:FB:2:G:C2	22:FB:2875:C:C2	2.98	0.46
22:FB:356:A:H2'	22:FB:357:A:C8	2.50	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:FB:456:C:O5'	38:FR:2:PRO:CG	2.56	0.46
22:FB:545:C:H2'	22:FB:546:A:C8	2.51	0.46
22:FB:583:C:H4'	22:FB:584:A:O5'	2.15	0.46
24:FD:263:ARG:HG2	24:FD:264:LYS:N	2.30	0.46
30:FJ:106:GLU:O	30:FJ:107:ILE:HD13	2.15	0.46
22:FB:2618:A:C1'	31:FK:125:ARG:HH22	2.28	0.46
22:FB:1018:C:O2	31:FK:133:GLY:O	2.34	0.46
35:FO:99:ARG:HB3	35:FO:109:THR:HG21	1.97	0.46
37:FQ:38:LYS:HD3	37:FQ:50:PHE:HB2	1.98	0.46
38:FR:31:GLN:HG3	38:FR:34:ASN:HB2	1.96	0.46
42:FV:56:LYS:HE3	42:FV:67:GLY:HA3	1.96	0.46
43:FW:67:LYS:HD3	43:FW:83:PHE:N	2.30	0.46
43:FW:48:THR:OG1	43:FW:94:VAL:O	2.28	0.46
22:FB:2311:U:H5'	44:FX:70:ILE:HG22	1.82	0.46
1:GA:1176:A:H61	1:GA:1181:G:H1	1.63	0.46
1:GA:1342:C:O2'	9:GI:124:GLN:HA	2.16	0.46
1:GA:1386:G:H2'	1:GA:1387:G:C8	2.50	0.46
1:GA:1439:C:H2'	1:GA:1440:C:H6	1.79	0.46
1:GA:202:G:H2'	1:GA:203:A:O4'	2.15	0.46
1:GA:355:C:H2'	1:GA:356:A:O4'	2.15	0.46
1:GA:59:A:C5'	1:GA:387:U:H5''	2.45	0.46
1:GA:445:G:H2'	1:GA:446:G:O4'	2.15	0.46
1:GA:301:G:N2	1:GA:556:C:H4'	2.24	0.46
1:GA:616:G:H1	1:GA:624:C:N4	2.13	0.46
1:GA:702:A:H5'	1:GA:703:G:C8	2.49	0.46
1:GA:716:A:H2	11:GK:118:GLY:HA2	1.81	0.46
1:GA:738:C:OP1	6:GF:92:LYS:NZ	2.43	0.46
1:GA:13:U:O4'	1:GA:914:A:H5''	2.14	0.46
3:GC:22:TRP:CZ2	3:GC:33:LEU:HG	2.51	0.46
6:GF:6:VAL:HG22	6:GF:90:VAL:HG13	1.97	0.46
9:GI:65:VAL:HG22	9:GI:73:GLN:NE2	2.31	0.46
10:GJ:75:ILE:HG22	10:GJ:76:ASN:ND2	2.31	0.46
12:GL:34:ARG:HA	12:GL:85:ILE:HD12	1.98	0.46
12:GL:83:VAL:O	12:GL:85:ILE:HG13	2.16	0.46
15:GO:67:LEU:HB3	15:GO:71:GLN:NE2	2.30	0.46
16:GP:7:ALA:O	16:GP:17:TYR:HA	2.15	0.46
53:H7:21:ASN:ND2	53:H7:22:VAL:H	2.13	0.46
22:HB:10:A:N6	22:HB:2608:A:C1'	2.78	0.46
22:HB:1166:A:C5	22:HB:1168:G:C4	3.03	0.46
22:HB:1373:G:N7	22:HB:1384:G:N2	2.63	0.46
22:HB:1773:C:H2'	22:HB:1774:A:O4'	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:HB:1789:U:H5'	24:HD:257:LEU:HB2	1.88	0.46
22:HB:1813:A:H2'	22:HB:1814:G:C8	2.49	0.46
22:HB:2202:G:H2'	22:HB:2203:G:O4'	2.15	0.46
22:HB:234:C:N3	33:HM:104:ARG:NH2	2.63	0.46
22:HB:514:G:C5	40:HT:14:ARG:NE	2.77	0.46
22:HB:637:G:H21	33:HM:74:VAL:CG2	2.29	0.46
22:HB:700:C:H42	22:HB:800:U:C4'	2.27	0.46
22:HB:65:C:C2	22:HB:87:G:N2	2.83	0.46
24:HD:145:LEU:O	24:HD:154:GLN:HB2	2.14	0.46
24:HD:263:ARG:HG2	24:HD:264:LYS:N	2.30	0.46
27:HG:127:ASN:ND2	27:HG:127:ASN:H	2.13	0.46
28:HH:25:LYS:H	28:HH:35:VAL:CG1	2.28	0.46
31:HK:42:VAL:HA	31:HK:166:LEU:HD23	1.95	0.46
35:HO:36:THR:O	35:HO:40:LYS:HB3	2.15	0.46
22:HB:2344:G:H4'	44:HX:66:LYS:HG2	1.96	0.46
45:HY:41:HIS:HD1	45:HY:45:GLN:CB	2.28	0.46
1:IA:1176:A:H61	1:IA:1181:G:H1	1.64	0.46
1:IA:1186:G:H1'	9:II:113:LYS:HZ3	1.80	0.46
1:IA:1210:C:H2'	1:IA:1211:U:O4'	2.14	0.46
1:IA:129(A):G:H3'	17:IQ:63:ARG:CD	2.37	0.46
1:IA:1440:C:C4	1:IA:1441:G:H1'	2.51	0.46
1:IA:202:G:H2'	1:IA:203:A:O4'	2.16	0.46
1:IA:279:A:OP1	1:IA:281:G:H5'	2.14	0.46
1:IA:59:A:C5'	1:IA:387:U:H5"	2.45	0.46
1:IA:48:C:H4'	1:IA:49:U:OP1	2.14	0.46
1:IA:589:C:H5"	8:IH:30:ARG:C	2.28	0.46
1:IA:616:G:H1	1:IA:624:C:N4	2.13	0.46
1:IA:671:G:H2'	1:IA:672:U:O4'	2.15	0.46
1:IA:816:A:OP1	1:IA:1526:G:H1'	2.15	0.46
1:IA:947:G:H2'	1:IA:948:C:O4'	2.14	0.46
1:IA:980:C:H2'	1:IA:981:U:O4'	2.15	0.46
2:IB:99:GLY:H	2:IB:101:MET:CE	2.29	0.46
3:IC:69:HIS:HB3	3:IC:106:VAL:CG2	2.45	0.46
5:IE:72:GLN:C	5:IE:74:GLY:H	2.18	0.46
6:IF:7:ASN:HB3	6:IF:62:TRP:HD1	1.81	0.46
6:IF:4:TYR:CE1	6:IF:92:LYS:HG2	2.50	0.46
1:IA:640:A:N3	8:IH:116:LYS:CG	2.70	0.46
8:IH:1:MET:HG2	8:IH:2:LEU:HG	1.97	0.46
1:IA:600:C:H5"	8:IH:97:VAL:HG21	1.97	0.46
9:II:47:LEU:HG	9:II:51:ARG:NH1	2.31	0.46
12:IL:83:VAL:O	12:IL:85:ILE:HG13	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:IO:7:GLU:O	15:IO:10:LYS:HG2	2.14	0.46
1:IA:449:C:C2'	16:IP:42:ARG:NE	2.76	0.46
17:IQ:59:ILE:CG2	17:IQ:71:PHE:HB3	2.46	0.46
19:IS:40:ILE:HG13	19:IS:71:LEU:HD21	1.96	0.46
47:J1:30:GLU:HG3	47:J1:32:HIS:CE1	2.49	0.46
53:J7:21:ASN:ND2	53:J7:22:VAL:H	2.13	0.46
23:JA:48:A:N3	23:JA:48:A:H2'	2.30	0.46
22:JB:114:C:O4'	22:JB:124:A:C1'	2.30	0.46
22:JB:1152:C:H41	31:JK:51:LEU:N	2.13	0.46
22:JB:1223:G:H5''	22:JB:1224:A:C8	2.50	0.46
22:JB:1817:U:H1'	24:JD:252:LYS:CD	2.28	0.46
22:JB:2563:U:H2'	22:JB:2564:U:H3'	1.96	0.46
22:JB:2810:A:OP1	37:JQ:6:LYS:NZ	2.41	0.46
22:JB:3167:U:H2'	22:JB:3168:G:C8	2.50	0.46
22:JB:338:G:C2'	42:JV:77:HIS:NE2	2.71	0.46
22:JB:236:C:O2	22:JB:632:A:H1'	2.15	0.46
22:JB:64:C:C6	41:JU:70:GLY:N	2.83	0.46
22:JB:891:A:N1	22:JB:909:C:C4	2.79	0.46
24:JD:166:GLN:HE22	24:JD:175:VAL:C	2.19	0.46
22:JB:777:A:O2'	24:JD:214:TRP:HB2	2.14	0.46
24:JD:251:GLY:CA	24:JD:255:LYS:HE3	2.46	0.46
24:JD:46:ARG:HG3	24:JD:47:GLY:H	1.81	0.46
24:JD:80:ALA:HB3	24:JD:96:HIS:NE2	2.30	0.46
27:JG:133:LYS:O	27:JG:151:GLY:HA2	2.15	0.46
30:JJ:55:VAL:HB	30:JJ:69:THR:OG1	2.15	0.46
32:JL:25:LEU:HD13	32:JL:26:ASN:N	2.30	0.46
22:JB:1217:U:N1	33:JM:14:LYS:CE	2.73	0.46
33:JM:90:ARG:HG3	33:JM:93:LEU:H	1.80	0.46
34:JN:46:ASN:HA	34:JN:49:GLU:HB3	1.97	0.46
35:JO:70:ILE:O	35:JO:75:VAL:HG21	2.15	0.46
36:JP:20:THR:HG23	36:JP:46:SER:HB2	1.98	0.46
37:JQ:13:LEU:O	37:JQ:13:LEU:HD13	2.15	0.46
40:JT:48:LYS:HB3	40:JT:51:GLN:HB2	1.97	0.46
44:JX:41:ARG:NE	44:JX:41:ARG:N	2.63	0.46
45:JY:49:GLU:CD	45:JY:50:VAL:HG23	2.36	0.46
1:AA:1060:C:H2'	1:AA:1061:G:H8	1.80	0.46
1:AA:1374:A:C2'	7:AG:28:ASN:HB3	2.01	0.46
1:AA:1475:G:H2'	1:AA:1476:G:C8	2.50	0.46
1:AA:781:A:O2'	1:AA:1522:U:O2	2.29	0.46
1:AA:631:G:H5''	1:AA:632:A:OP1	2.15	0.46
1:AA:712:A:H4'	24:BD:182:LEU:HD13	1.77	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:940:C:H2'	1:AA:941:G:C8	2.50	0.46
1:AA:404:U:OP2	4:AD:3:ARG:NH2	2.48	0.46
5:AE:139:LEU:HA	5:AE:142:LEU:HD12	1.97	0.46
6:AF:7:ASN:HB3	6:AF:62:TRP:HD1	1.80	0.46
8:AH:31:PHE:O	8:AH:32:LYS:HG3	2.15	0.46
1:AA:1251:A:H5''	9:AI:12:GLU:OE2	2.10	0.46
9:AI:47:LEU:HG	9:AI:51:ARG:NH1	2.31	0.46
10:AJ:51:ARG:HA	14:AN:45:ARG:CZ	2.45	0.46
1:AA:36:C:H1'	12:AL:118:SER:HB2	1.26	0.46
12:AL:16:GLU:C	12:AL:17:LYS:CG	2.75	0.46
1:AA:520:A:OP2	12:AL:49:ASN:O	2.33	0.46
12:AL:34:ARG:HA	12:AL:85:ILE:HD12	1.98	0.46
1:AA:255:G:C5'	17:AQ:45:HIS:CE1	2.96	0.46
17:AQ:92:ARG:HA	17:AQ:92:ARG:NE	2.30	0.46
53:B7:121:GLY:O	53:B7:126:PRO:HD2	2.15	0.46
22:BB:1240:G:C6	39:BS:73:LYS:HE2	2.51	0.46
22:BB:1257:U:H2'	22:BB:1258:G:C8	2.51	0.46
22:BB:1348:C:H2'	22:BB:1349:A:C8	2.51	0.46
22:BB:1370:U:H2'	22:BB:1371:G:C8	2.47	0.46
22:BB:1479:G:H21	22:BB:1543:G:H21	1.56	0.46
22:BB:1289:A:OP2	22:BB:1662:G:N3	2.47	0.46
22:BB:1672:A:H2'	22:BB:1673:C:O4'	2.15	0.46
22:BB:1699:A:H1'	22:BB:1748:U:O4	2.15	0.46
22:BB:2444:C:C5'	52:B6:3:VAL:HG23	2.40	0.46
22:BB:2464:G:O3'	34:BN:123:GLY:CA	2.63	0.46
22:BB:509:U:H3	22:BB:513:A:H62	1.63	0.46
24:BD:166:GLN:HE22	24:BD:175:VAL:C	2.19	0.46
22:BB:2599:U:C1'	25:BE:156:MET:C	2.81	0.46
22:BB:2760:G:C5'	31:BK:146:THR:HG22	2.45	0.46
32:BL:83:ARG:NH2	37:BQ:81:PHE:CE2	2.82	0.46
34:BN:44:LYS:HB3	34:BN:44:LYS:HZ3	1.79	0.46
34:BN:44:LYS:O	34:BN:46:ASN:N	2.46	0.46
35:BO:36:THR:O	35:BO:40:LYS:HB3	2.15	0.46
37:BQ:36:ASP:O	37:BQ:38:LYS:HE2	2.16	0.46
39:BS:21:ARG:HD2	39:BS:22:VAL:HG23	1.96	0.46
40:BT:127:ILE:HD13	40:BT:128:VAL:N	2.30	0.46
1:CA:1108:G:OP1	3:CC:176:HIS:CA	2.64	0.46
2:CB:131:PRO:HD2	2:CB:134:GLU:OE1	2.16	0.46
2:CB:140:HIS:HA	2:CB:143:GLU:CG	2.45	0.46
3:CC:20:SER:O	14:CN:54:PRO:HB3	2.16	0.46
1:CA:439:A:C3'	4:CD:122:ARG:NH2	2.79	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:CE:11:ILE:HG13	5:CE:31:LEU:HB2	1.98	0.46
5:CE:72:GLN:C	5:CE:74:GLY:H	2.18	0.46
6:CF:5:GLU:HB2	6:CF:93:SER:OG	2.15	0.46
1:CA:860:A:OP1	8:CH:73:ASP:OD1	2.34	0.46
9:CI:86:VAL:HG11	9:CI:93:ARG:HG3	1.98	0.46
51:D5:24:ALA:HB3	51:D5:48:PHE:HA	1.97	0.46
52:D6:17:VAL:HG12	52:D6:19:ARG:HG3	1.98	0.46
22:DB:1861:G:H1	53:D7:199:ASN:CG	2.10	0.46
22:DB:1003:C:C4	22:DB:1174:G:N2	2.83	0.46
22:DB:1239:A:OP1	39:DS:73:LYS:NZ	2.27	0.46
22:DB:1348:C:H2'	22:DB:1349:A:C8	2.51	0.46
22:DB:15:G:H4'	48:D2:21:SER:HB2	1.93	0.46
22:DB:1672:A:H2'	22:DB:1673:C:O4'	2.15	0.46
22:DB:1883:A:C8	22:DB:1953:A:C8	3.02	0.46
22:DB:2000:U:O2'	48:D2:8:LYS:CA	2.63	0.46
22:DB:922:A:O2'	22:DB:2244:C:OP1	2.33	0.46
22:DB:2627:G:C2	32:DL:27:SER:O	2.69	0.46
22:DB:2710:C:O3'	25:DE:169:ASN:CB	2.63	0.46
22:DB:2715:C:C4	22:DB:2749:A:N1	2.82	0.46
22:DB:313:U:OP1	42:DV:88:THR:CB	2.60	0.46
22:DB:9:U:O4	22:DB:2607:C:O2'	2.30	0.46
24:DD:95:LEU:HB3	24:DD:105:ILE:HB	1.96	0.46
24:DD:43:ARG:CZ	24:DD:60:ARG:HB3	2.45	0.46
25:DE:31:CYS:O	25:DE:33:ILE:HD13	2.15	0.46
25:DE:30:PRO:HB2	25:DE:49:ILE:H	1.79	0.46
27:DG:108:LEU:C	27:DG:110:ARG:H	2.19	0.46
27:DG:127:ASN:C	27:DG:127:ASN:HD22	2.18	0.46
28:DH:114:ILE:O	28:DH:114:ILE:HG22	2.16	0.46
29:DI:4:ILE:HA	29:DI:16:GLU:H	1.80	0.46
31:DK:126:VAL:O	31:DK:128:GLU:N	2.49	0.46
32:DL:23:ARG:NH2	32:DL:24:VAL:HG12	2.30	0.46
36:DP:104:ALA:HA	36:DP:107:ALA:HB2	1.96	0.46
37:DQ:36:ASP:CG	37:DQ:37:THR:N	2.67	0.46
38:DR:37:GLN:CA	38:DR:40:LEU:HD23	2.45	0.46
22:DB:1008:G:P	38:DR:92:ARG:CD	3.03	0.46
40:DT:27:VAL:HG21	40:DT:123:HIS:CE1	2.50	0.46
22:DB:869:C:H5''	44:DX:56:ASP:OD2	1.99	0.46
1:EA:1032:G:H2'	1:EA:1032:G:N3	2.30	0.46
1:EA:1225:A:H5'	13:EM:102:ARG:N	2.22	0.46
1:EA:1369:C:H2'	1:EA:1370:G:O4'	2.15	0.46
1:EA:1475:G:H2'	1:EA:1476:G:C8	2.51	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:EB:99:GLY:H	2:EB:101:MET:CE	2.29	0.46
4:ED:149:ALA:HB3	4:ED:152:SER:HG	1.79	0.46
5:EE:11:ILE:HG13	5:EE:31:LEU:HB2	1.98	0.46
8:EH:8:ASP:O	8:EH:12:ARG:HG3	2.15	0.46
9:EI:118:LYS:O	9:EI:119:ALA:HB3	2.16	0.46
10:EJ:62:HIS:CE1	14:EN:61:TRP:HH2	2.33	0.46
12:EL:83:VAL:O	12:EL:85:ILE:HG13	2.16	0.46
1:EA:130:A:N7	17:EQ:63:ARG:HB2	2.29	0.46
51:F5:12:ARG:HB3	51:F5:12:ARG:NH2	2.30	0.46
22:FB:1004:A:C3'	22:FB:1005:U:P	3.03	0.46
22:FB:1042:G:O2'	52:F6:6:SER:CB	2.63	0.46
22:FB:1141:U:H5'	31:FK:107:GLN:HG3	1.97	0.46
22:FB:1268:U:H5'	22:FB:1269:G:C4'	2.46	0.46
22:FB:1398:G:C2	22:FB:1415:C:C2	3.04	0.46
22:FB:45:C:N4	22:FB:156:G:N1	2.58	0.46
22:FB:1586:A:C8	22:FB:1587:A:C8	3.03	0.46
22:FB:1773:C:H2'	22:FB:1774:A:O4'	2.15	0.46
22:FB:1836:C:H2'	22:FB:1837:G:O4'	2.15	0.46
22:FB:1:G:C6	22:FB:2876:C:C4	2.88	0.46
22:FB:2406:C:H5''	22:FB:2408:G:C1'	2.46	0.46
22:FB:973:U:H4'	22:FB:2475:C:O2'	2.15	0.46
22:FB:2492:G:C3'	22:FB:2493:U:C6	2.98	0.46
22:FB:2563:U:H2'	22:FB:2564:U:H3'	1.96	0.46
22:FB:500:G:OP1	22:FB:1297:A:O4'	2.33	0.46
22:FB:587:A:H2	38:FR:33:ARG:NH1	2.13	0.46
22:FB:63:A:N6	41:FU:64:ARG:HD2	2.30	0.46
22:FB:742:G:N7	24:FD:208:LYS:CD	2.78	0.46
22:FB:75:C:H4'	45:FY:48:ARG:HG2	1.98	0.46
22:FB:788:G:H5'	22:FB:790:A:N9	2.30	0.46
22:FB:7:G:C1'	31:FK:162:LYS:HZ1	2.23	0.46
24:FD:95:LEU:HB3	24:FD:105:ILE:HB	1.97	0.46
24:FD:251:GLY:CA	24:FD:255:LYS:HE3	2.45	0.46
22:FB:2600:A:C4'	25:FE:158:GLY:CA	2.91	0.46
22:FB:2766:U:C2'	25:FE:64:GLN:CD	2.84	0.46
27:FG:108:LEU:C	27:FG:110:ARG:H	2.19	0.46
27:FG:127:ASN:ND2	27:FG:127:ASN:H	2.13	0.46
27:FG:14:PRO:CB	27:FG:18:GLN:HE22	2.23	0.46
31:FK:126:VAL:O	31:FK:128:GLU:N	2.49	0.46
22:FB:1203:A:P	33:FM:35:LYS:HA	2.55	0.46
22:FB:1291:G:C4'	35:FO:33:ARG:O	2.62	0.46
35:FO:70:ILE:O	35:FO:75:VAL:HG21	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:FQ:55:ILE:HG21	37:FQ:69:ARG:NH1	2.30	0.46
40:FT:85:MET:HA	40:FT:89:ARG:NH2	2.31	0.46
22:FB:1351:G:H4'	41:FU:15:LYS:H	1.80	0.46
43:FW:121:GLN:O	43:FW:123:VAL:HG22	2.15	0.46
43:FW:88:TYR:N	43:FW:90:GLU:CA	2.60	0.46
45:FY:49:GLU:CD	45:FY:50:VAL:HG23	2.36	0.46
1:GA:1210:C:H2'	1:GA:1211:U:O4'	2.14	0.46
1:GA:1355:G:H2'	1:GA:1356:G:H8	1.80	0.46
1:GA:1369:C:H2'	1:GA:1370:G:O4'	2.15	0.46
1:GA:555:C:C6	12:GL:20:LYS:NZ	2.69	0.46
1:GA:671:G:H2'	1:GA:672:U:O4'	2.15	0.46
1:GA:23:C:O4'	1:GA:913:A:N6	2.47	0.46
1:GA:929:G:H5'	1:GA:1533:C:C4	2.49	0.46
3:GC:18:TRP:HE1	14:GN:53:LEU:N	2.08	0.46
9:GI:95:LYS:C	9:GI:98:PRO:HD2	2.35	0.46
12:GL:5:PRO:CA	12:GL:10:LEU:HA	2.45	0.46
3:GC:18:TRP:HE1	14:GN:52:GLN:N	2.12	0.46
22:HB:2378:G:C1'	49:H3:20:PHE:CZ	2.98	0.46
22:HB:1223:G:H5''	22:HB:1224:A:C8	2.50	0.46
22:HB:1296:G:O2'	22:HB:1297:A:H3'	2.15	0.46
22:HB:1338:G:C2	40:HT:107:ILE:N	2.63	0.46
22:HB:140:G:H2'	22:HB:140:G:N3	2.31	0.46
22:HB:1566:G:N1	22:HB:1567:A:C6	2.84	0.46
22:HB:15:G:OP1	48:H2:20:ARG:NH2	2.48	0.46
22:HB:1943:A:H2'	22:HB:1944:C:H6	1.79	0.46
22:HB:2407:G:OP1	22:HB:2408:G:OP1	2.34	0.46
22:HB:2563:U:H2'	22:HB:2564:U:H3'	1.96	0.46
22:HB:2754:C:H2'	22:HB:2755:A:O4'	2.15	0.46
22:HB:648:A:C2	33:HM:110:ALA:CA	2.98	0.46
22:HB:648:A:H5'	22:HB:649:G:O5'	2.15	0.46
22:HB:693:A:H2'	22:HB:694:G:O4'	2.15	0.46
22:HB:6:A:H2'	22:HB:7:G:O4'	2.15	0.46
22:HB:762:A:H2'	22:HB:763:A:C4	2.50	0.46
22:HB:788:G:H5'	22:HB:790:A:N9	2.30	0.46
24:HD:251:GLY:CA	24:HD:255:LYS:HE3	2.46	0.46
24:HD:64:ILE:HG22	24:HD:65:ILE:N	2.31	0.46
24:HD:72:LYS:HG2	24:HD:119:ALA:O	2.16	0.46
25:HE:53:PRO:HA	37:HQ:5:ILE:HB	1.97	0.46
22:HB:2637:C:OP2	28:HH:180:GLY:O	2.34	0.46
30:HJ:91:PRO:O	30:HJ:92:ASN:CB	2.63	0.46
32:HL:73:VAL:CG2	32:HL:99:ILE:HB	2.44	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:HM:35:LYS:HZ2	33:HM:35:LYS:HB2	1.80	0.46
33:HM:90:ARG:HG3	33:HM:93:LEU:H	1.80	0.46
34:HN:65:ILE:HG22	34:HN:106:GLU:OE1	2.16	0.46
34:HN:46:ASN:HA	34:HN:49:GLU:HB3	1.97	0.46
35:HO:67:ALA:HB3	35:HO:68:GLN:NE2	2.31	0.46
40:HT:27:VAL:CG2	40:HT:125:THR:H	2.27	0.46
40:HT:85:MET:HA	40:HT:89:ARG:NH2	2.30	0.46
1:IA:1141:C:H2'	1:IA:1142:G:C8	2.51	0.46
1:IA:1221:G:H5'	19:IS:36:ARG:NH1	2.30	0.46
1:IA:1355:G:H2'	1:IA:1356:G:H8	1.80	0.46
1:IA:1234:C:H1'	1:IA:1364:U:H1'	1.98	0.46
1:IA:1374:A:N3	7:IG:29:LYS:HE3	2.30	0.46
1:IA:252:U:H2'	1:IA:253:U:C6	2.50	0.46
1:IA:445:G:H2'	1:IA:446:G:O4'	2.15	0.46
3:IC:148:GLY:HA2	3:IC:170:GLN:O	2.15	0.46
3:IC:189:ALA:HB3	3:IC:196:LEU:H	1.81	0.46
7:IG:138:LYS:O	7:IG:142:GLU:HG3	2.15	0.46
1:IA:1146:A:C2	9:II:16:ARG:HD3	2.50	0.46
10:IJ:12:ASP:OD2	10:IJ:14:LYS:HD3	2.15	0.46
18:IR:73:ALA:CB	18:IR:78:LEU:HB3	2.45	0.46
48:J2:9:LYS:CB	48:J2:9:LYS:HZ2	2.29	0.46
22:JB:3168:G:O6	53:J7:101:LYS:CG	2.63	0.46
23:JA:31:A:H2'	23:JA:32:C:H6	1.80	0.46
22:JB:1265:G:C4'	38:JR:14:HIS:CE1	2.61	0.46
22:JB:1326:U:OP1	22:JB:1345:G:H4'	2.15	0.46
22:JB:1385:C:N4	22:JB:1386:A:N6	2.63	0.46
22:JB:1388:C:H2'	22:JB:1389:C:C4'	2.46	0.46
22:JB:140:G:H2'	22:JB:140:G:N3	2.31	0.46
22:JB:1888:C:O3'	22:JB:1889:G:OP1	2.33	0.46
22:JB:2265:A:OP1	22:JB:2266:A:H5'	2.15	0.46
22:JB:2310:G:O2'	22:JB:2311:U:H5'	2.15	0.46
22:JB:2611:A:H4'	22:JB:2786:G:N3	2.31	0.46
22:JB:3166:G:H3'	53:J7:99:PRO:HD3	1.97	0.46
22:JB:356:A:H2'	22:JB:357:A:C8	2.50	0.46
22:JB:410:A:C4'	47:J1:58:LYS:CD	2.93	0.46
22:JB:474:G:H3'	50:J4:5:TYR:CD2	2.51	0.46
22:JB:818:G:H5'	22:JB:819:C:OP2	2.15	0.46
22:JB:923:A:H1'	22:JB:2243:C:C2'	2.45	0.46
22:JB:2568:A:C5'	24:JD:226:MET:SD	2.97	0.46
24:JD:22:SER:HA	24:JD:207:GLY:N	2.31	0.46
24:JD:257:LEU:HB3	24:JD:258:LYS:H	1.43	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:JD:64:ILE:HG22	24:JD:65:ILE:N	2.31	0.46
25:JE:30:PRO:HB2	25:JE:49:ILE:H	1.79	0.46
25:JE:31:CYS:O	25:JE:33:ILE:HD13	2.15	0.46
22:JB:2615:U:O4'	25:JE:79:ARG:CZ	2.63	0.46
34:JN:105:PHE:HE1	34:JN:115:ALA:HB2	1.80	0.46
35:JO:54:THR:O	35:JO:62:SER:HB3	2.15	0.46
22:JB:1747:G:C8	37:JQ:126:LYS:O	2.68	0.46
37:JQ:38:LYS:HD3	37:JQ:50:PHE:HB2	1.97	0.46
38:JR:54:LYS:HE2	38:JR:93:LYS:HZ3	1.79	0.46
41:JU:13:SER:O	41:JU:16:ALA:HB3	2.15	0.46
43:JW:67:LYS:HD3	43:JW:83:PHE:N	2.30	0.46
45:JY:28:LEU:O	45:JY:34:ALA:HB1	2.14	0.46
45:JY:51:ALA:C	45:JY:53:LEU:N	2.68	0.46
1:AA:1350:A:C4	7:AG:33:ASP:O	2.68	0.46
1:AA:1356:G:O2'	1:AA:1357:A:H5'	2.16	0.46
1:AA:53:A:H2'	1:AA:54:C:O4'	2.15	0.46
1:AA:664:G:OP1	18:AR:64:ARG:HB3	2.15	0.46
1:AA:735:C:C2	18:AR:75:ILE:CD1	2.99	0.46
1:AA:760:G:O3'	17:AQ:102:GLY:N	2.44	0.46
1:AA:966:G:H2'	1:AA:967:C:C6	2.50	0.46
8:AH:48:TYR:HB3	8:AH:61:VAL:HA	1.96	0.46
9:AI:86:VAL:HG11	9:AI:93:ARG:HG3	1.98	0.46
1:AA:965:A:H5'	10:AJ:55:LYS:CE	2.43	0.46
1:AA:43:C:C3'	16:AP:12:LYS:CE	2.45	0.46
20:AT:40:ALA:HA	20:AT:55:ILE:HD13	1.97	0.46
22:BB:1043:A:C3'	52:B6:16:VAL:HA	2.45	0.46
22:BB:1149:G:O5'	31:BK:55:ALA:HB1	2.16	0.46
22:BB:1268:U:H5'	22:BB:1269:G:C4'	2.46	0.46
22:BB:174:A:H3'	22:BB:175:C:C6	2.51	0.46
22:BB:1773:C:H2'	22:BB:1774:A:O4'	2.15	0.46
22:BB:2006:G:N2	22:BB:2024:U:H1'	2.31	0.46
22:BB:2662:C:H42	22:BB:2708:U:C4'	2.27	0.46
22:BB:2725:C:H5'	28:BH:142:GLY:O	2.04	0.46
22:BB:2739:G:H21	28:BH:139:GLN:CD	2.16	0.46
22:BB:2858:A:O3'	48:B2:52:TYR:CE1	2.69	0.46
22:BB:505:G:H1'	40:BT:82:ASN:ND2	2.31	0.46
22:BB:544:U:C5'	38:BR:46:GLU:CG	2.92	0.46
22:BB:6:A:C5'	31:BK:162:LYS:HZ3	2.19	0.46
22:BB:788:G:H5'	22:BB:790:A:N9	2.30	0.46
25:BE:31:CYS:O	25:BE:33:ILE:HD13	2.15	0.46
25:BE:4:ILE:O	25:BE:4:ILE:HG23	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:BB:2423:G:OP1	26:BF:62:LYS:HE2	2.14	0.46
27:BG:127:ASN:ND2	27:BG:127:ASN:H	2.14	0.46
27:BG:72:LYS:HG2	27:BG:81:GLN:HE22	1.79	0.46
30:BJ:125:ASN:ND2	30:BJ:126:THR:N	2.62	0.46
31:BK:116:ARG:HH12	31:BK:126:VAL:HG11	1.80	0.46
32:BL:73:VAL:HG11	32:BL:99:ILE:HB	1.96	0.46
33:BM:91:ASP:HB3	33:BM:121:HIS:ND1	2.30	0.46
33:BM:22:GLY:H	33:BM:23:PRO:HD2	1.79	0.46
35:BO:67:ALA:HB3	35:BO:68:GLN:NE2	2.30	0.46
35:BO:84:ALA:N	35:BO:85:PRO:HD2	2.30	0.46
36:BP:13:THR:O	36:BP:17:VAL:HG12	2.16	0.46
1:CA:1342:C:O2'	9:CI:123:PRO:O	2.33	0.46
1:CA:1356:G:O2'	1:CA:1357:A:H5'	2.16	0.46
1:CA:1481:U:H2'	1:CA:1482:G:C8	2.50	0.46
1:CA:332:G:H2'	1:CA:333:G:C8	2.51	0.46
1:CA:523:A:H61	12:CL:92:ASP:N	2.14	0.46
1:CA:546:G:C6	4:CD:2:GLY:HA2	2.49	0.46
1:CA:671:G:H2'	1:CA:672:U:O4'	2.15	0.46
1:CA:718:G:O4'	11:CK:116:HIS:C	2.52	0.46
1:CA:759:A:C2'	1:CA:760:G:H5'	2.42	0.46
1:CA:966:G:H2'	1:CA:967:C:C6	2.50	0.46
1:CA:509:A:C8	4:CD:54:TYR:HE2	2.33	0.46
6:CF:6:VAL:HG22	6:CF:90:VAL:HG13	1.97	0.46
8:CH:17:THR:HB	8:CH:65:TYR:HE2	1.80	0.46
8:CH:63:LEU:HD23	8:CH:65:TYR:OH	2.16	0.46
1:CA:1344:C:O4'	9:CI:120:ARG:HB3	2.16	0.46
10:CJ:80:LYS:C	10:CJ:84:GLN:HB2	2.36	0.46
12:CL:102:ARG:HB2	12:CL:110:VAL:CG2	2.41	0.46
15:CO:89:GLY:CA	22:DB:729:A:P	3.01	0.46
48:D2:33:CYS:H	48:D2:40:LYS:HB2	1.80	0.46
23:DA:10:U:O2'	36:DP:28:ARG:NH1	2.48	0.46
22:DB:1164:C:H5''	38:DR:76:TYR:CZ	2.50	0.46
22:DB:1254:G:H2'	22:DB:1255:A:C4	2.49	0.46
22:DB:1268:U:H5'	22:DB:1269:G:C4'	2.46	0.46
22:DB:1805:G:H5'	24:DD:43:ARG:HA	1.97	0.46
22:DB:1908:C:C2'	22:DB:1909:U:H4'	2.44	0.46
22:DB:2395:C:H2'	22:DB:2396:C:H5'	1.97	0.46
22:DB:2432:A:H61	22:DB:2479:U:H3	1.61	0.46
22:DB:648:A:H5'	22:DB:649:G:O5'	2.15	0.46
26:DF:97:ARG:HD2	26:DF:100:ARG:NH2	2.31	0.46
27:DG:127:ASN:H	27:DG:127:ASN:ND2	2.14	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:DH:25:LYS:H	28:DH:35:VAL:CG1	2.28	0.46
30:DJ:91:PRO:O	30:DJ:92:ASN:CB	2.63	0.46
22:DB:1018:C:C1'	31:DK:134:MET:HA	2.46	0.46
22:DB:1682:A:H4'	32:DL:78:SER:O	2.15	0.46
33:DM:26:THR:HG22	33:DM:27:ASP:H	1.80	0.46
33:DM:90:ARG:HG3	33:DM:93:LEU:H	1.80	0.46
34:DN:65:ILE:HG22	34:DN:106:GLU:OE1	2.15	0.46
35:DO:99:ARG:HB3	35:DO:109:THR:HG21	1.97	0.46
22:DB:1263:G:N3	38:DR:13:ARG:CZ	2.78	0.46
22:DB:1008:G:P	38:DR:92:ARG:HD3	2.52	0.46
43:DW:121:GLN:O	43:DW:123:VAL:HG22	2.15	0.46
1:EA:1017:G:H2'	1:EA:1018:C:C6	2.51	0.46
1:EA:1127:G:N2	1:EA:1147:C:H42	2.13	0.46
1:EA:1262:C:H2'	1:EA:1263:C:H6	1.79	0.46
1:EA:128:G:O2'	17:EQ:61:GLU:CB	2.63	0.46
1:EA:1356:G:O2'	1:EA:1357:A:H5'	2.16	0.46
1:EA:1484:C:O2'	22:FB:1944:C:H5'	2.16	0.46
1:EA:374:A:H5''	1:EA:452:A:N1	2.31	0.46
1:EA:523:A:N1	12:EL:90:VAL:CB	2.78	0.46
1:EA:544:G:H2'	1:EA:545:C:C6	2.51	0.46
1:EA:631:G:H5''	1:EA:632:A:OP1	2.15	0.46
1:EA:673:G:H4'	18:ER:75:ILE:HG23	1.96	0.46
1:EA:729:A:H2'	1:EA:730:G:H8	1.80	0.46
1:EA:833:U:H2'	1:EA:834:C:C6	2.51	0.46
1:EA:966:G:H2'	1:EA:967:C:C6	2.50	0.46
3:EC:10:PHE:CZ	14:EN:58:LYS:HE3	2.49	0.46
4:ED:128:VAL:HG12	4:ED:129:ASN:N	2.30	0.46
1:EA:8:A:H2'	4:ED:209:ARG:CD	2.33	0.46
6:EF:50:TYR:CE1	18:ER:79:LEU:O	2.68	0.46
6:EF:7:ASN:HB3	6:EF:62:TRP:HD1	1.81	0.46
7:EG:21:VAL:HG23	7:EG:22:LEU:HD12	1.97	0.46
8:EH:25:ASP:HB3	8:EH:58:TYR:HD2	1.80	0.46
7:EG:13:GLN:HG3	9:EI:42:ARG:HH22	0.50	0.46
9:EI:48:GLU:H	9:EI:78:LYS:NZ	2.14	0.46
9:EI:65:VAL:HG22	9:EI:73:GLN:NE2	2.30	0.46
1:EA:538:G:C3'	12:EL:114:LYS:HE2	2.36	0.46
1:EA:1329:A:P	13:EM:28:ALA:HB3	2.55	0.46
1:EA:391:G:C5'	16:EP:8:ARG:HE	2.12	0.46
17:EQ:59:ILE:CG2	17:EQ:71:PHE:HB3	2.46	0.46
1:EA:1015:A:OP1	19:ES:14:HIS:HB2	2.16	0.46
22:FB:2399:C:C2'	51:F5:32:GLN:CD	2.62	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
53:F7:121:GLY:O	53:F7:126:PRO:HD2	2.15	0.46
53:F7:58:PRO:HD2	53:F7:153:ARG:HB2	1.97	0.46
23:FA:31:A:H2'	23:FA:32:C:H6	1.80	0.46
23:FA:78:A:H4'	43:FW:13:LYS:HD3	0.55	0.46
22:FB:1004:A:OP2	38:FR:51:ARG:CB	2.63	0.46
22:FB:1021:A:C5'	38:FR:66:ASN:HD21	2.29	0.46
22:FB:1145:C:N1	22:FB:1147:G:OP2	2.49	0.46
22:FB:1199:U:O2'	46:FZ:26:ARG:NH1	2.48	0.46
22:FB:1370:U:H2'	22:FB:1371:G:C8	2.47	0.46
22:FB:1680:U:O4	22:FB:1975:G:H2'	2.16	0.46
22:FB:1699:A:H1'	22:FB:1748:U:O4	2.15	0.46
22:FB:1810:U:H2'	24:FD:154:GLN:OE1	2.16	0.46
22:FB:1872:A:N3	22:FB:1872:A:H2'	2.29	0.46
22:FB:2297:G:H2'	22:FB:2299:A:N3	2.30	0.46
22:FB:2716:G:C5	22:FB:2748:C:C4	2.97	0.46
22:FB:1856:U:O2'	22:FB:3865:A:P	2.74	0.46
22:FB:430:C:O2	22:FB:2386:G:N2	2.47	0.46
22:FB:648:A:H5'	22:FB:649:G:O5'	2.15	0.46
22:FB:704:G:H4'	24:FD:44:ASN:CG	2.35	0.46
15:EO:89:GLY:CA	22:FB:729:A:OP1	2.53	0.46
22:FB:686:C:H42	22:FB:821:A:H61	1.63	0.46
25:FE:29:GLY:HA2	25:FE:90:SER:HB2	1.98	0.46
27:FG:133:LYS:O	27:FG:151:GLY:HA2	2.15	0.46
22:FB:2638:G:C5	28:FH:180:GLY:CA	2.98	0.46
31:FK:111:LYS:HB2	31:FK:111:LYS:NZ	2.29	0.46
34:FN:46:ASN:HA	34:FN:49:GLU:HB3	1.97	0.46
37:FQ:5:ILE:CD1	37:FQ:6:LYS:H	2.29	0.46
22:FB:1004:A:OP2	38:FR:51:ARG:HB2	2.16	0.46
40:FT:127:ILE:HD13	40:FT:128:VAL:N	2.31	0.46
40:FT:39:ARG:CZ	40:FT:95:ALA:HB3	2.45	0.46
22:FB:1412:C:C4'	41:FU:22:ARG:NH2	2.78	0.46
42:FV:107:ALA:HB3	42:FV:111:GLY:HA3	1.96	0.46
43:FW:147:ILE:O	43:FW:147:ILE:HG23	2.16	0.46
45:FY:28:LEU:O	45:FY:34:ALA:HB1	2.15	0.46
45:FY:51:ALA:C	45:FY:53:LEU:N	2.68	0.46
1:GA:26:A:H61	4:GD:209:ARG:HH22	1.60	0.46
1:GA:126:G:C5'	1:GA:604:G:N2	2.74	0.46
1:GA:692:U:H2'	1:GA:693:G:H3'	1.97	0.46
1:GA:891:U:H2'	1:GA:892:A:C8	2.51	0.46
1:GA:913:A:H4'	1:GA:914:A:O5'	2.14	0.46
1:GA:918:A:H2'	1:GA:919:A:O4'	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:GE:104:ALA:HA	5:GE:107:ARG:CZ	2.45	0.46
8:GH:1:MET:HG2	8:GH:2:LEU:HG	1.97	0.46
8:GH:25:ASP:HB3	8:GH:58:TYR:HD2	1.80	0.46
8:GH:63:LEU:HD23	8:GH:65:TYR:OH	2.16	0.46
9:GI:47:LEU:HG	9:GI:51:ARG:NH1	2.30	0.46
9:GI:85:LEU:HD21	9:GI:92:TYR:HB3	1.98	0.46
14:GN:23:ARG:C	14:GN:33:VAL:HG11	2.36	0.46
1:GA:278:G:OP2	17:GQ:41:LYS:HE3	2.14	0.46
22:HB:1040:A:C8	22:HB:2465:G:C1'	2.98	0.46
22:HB:1070:G:H5'	30:HJ:115:LEU:HD22	1.97	0.46
22:HB:1326:U:OP1	22:HB:1345:G:H4'	2.15	0.46
22:HB:785:U:H4'	22:HB:1368:G:O3'	2.15	0.46
22:HB:1385:C:N4	22:HB:1386:A:N6	2.63	0.46
22:HB:1388:C:H2'	22:HB:1389:C:C4'	2.46	0.46
22:HB:133:C:N3	22:HB:138:G:N1	2.64	0.46
22:HB:1945:C:O2'	22:HB:1946:U:H3'	2.16	0.46
22:HB:2075:U:H1'	22:HB:2204:A:H2'	1.96	0.46
22:HB:2236:U:P	44:HX:9:SER:HA	2.55	0.46
22:HB:430:C:C2	22:HB:2386:G:N2	2.83	0.46
22:HB:2448:A:O5'	34:HN:58:HIS:CE1	2.68	0.46
22:HB:2717:G:H2'	22:HB:2718:A:O4'	2.15	0.46
22:HB:2802:C:O2'	22:HB:2803:C:H5'	2.15	0.46
22:HB:3106:U:H2'	22:HB:3107:G:O2'	2.16	0.46
22:HB:700:C:H5''	50:H4:4:THR:N	2.21	0.46
22:HB:952:A:H2'	22:HB:953:G:O4'	2.16	0.46
24:HD:80:ALA:HB3	24:HD:96:HIS:NE2	2.30	0.46
26:HF:40:ARG:NH1	26:HF:40:ARG:HB3	2.31	0.46
27:HG:108:LEU:C	27:HG:110:ARG:H	2.19	0.46
27:HG:133:LYS:O	27:HG:151:GLY:HA2	2.15	0.46
34:HN:102:ARG:HB3	34:HN:102:ARG:HH11	1.80	0.46
36:HP:20:THR:HG23	36:HP:46:SER:HB2	1.98	0.46
38:HR:6:THR:HB	38:HR:9:VAL:HG12	1.98	0.46
40:HT:27:VAL:HG21	40:HT:123:HIS:CE1	2.50	0.46
41:HU:92:ALA:HB2	45:HY:24:GLU:CD	2.35	0.46
43:HW:147:ILE:HG23	43:HW:147:ILE:O	2.16	0.46
22:HB:2342:U:C3'	44:HX:38:VAL:O	2.63	0.46
1:IA:1017:G:H2'	1:IA:1018:C:C6	2.51	0.46
1:IA:1032:G:N3	1:IA:1032:G:H2'	2.30	0.46
1:IA:1386:G:H2'	1:IA:1387:G:C8	2.50	0.46
1:IA:1517:G:H1'	22:JB:1902:A:C3'	2.46	0.46
1:IA:276:G:H2'	1:IA:277:C:O4'	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:IA:331:G:H5''	1:IA:332:G:H5'	1.98	0.46
1:IA:631:G:H5''	1:IA:632:A:OP1	2.15	0.46
1:IA:768:A:H2'	1:IA:769:G:H8	1.81	0.46
1:IA:918:A:H2'	1:IA:919:A:O4'	2.16	0.46
2:IB:31:TYR:OH	2:IB:50:GLU:HG2	2.16	0.46
1:IA:17:U:O2'	5:IE:14:ARG:NH2	2.49	0.46
6:IF:5:GLU:HB2	6:IF:93:SER:OG	2.15	0.46
9:II:86:VAL:HG11	9:II:93:ARG:HG3	1.98	0.46
11:IK:62:GLN:CB	11:IK:93:GLN:HB3	2.46	0.46
14:IN:23:ARG:C	14:IN:33:VAL:HG11	2.36	0.46
1:IA:449:C:H1'	16:IP:42:ARG:NE	2.31	0.46
17:IQ:3:LYS:O	17:IQ:5:VAL:HG23	2.13	0.46
22:JB:16:G:OP1	48:J2:17:ASP:HB3	2.14	0.46
49:J3:16:ALA:HB2	49:J3:50:PHE:CD1	2.51	0.46
51:J5:23:MET:HA	51:J5:48:PHE:CD1	2.50	0.46
53:J7:58:PRO:HD2	53:J7:153:ARG:HB2	1.97	0.46
23:JA:44:C:O4'	27:JG:66:ILE:CG1	2.64	0.46
22:JB:1074:G:C2	30:JJ:88:SER:C	2.89	0.46
22:JB:1296:G:O2'	22:JB:1297:A:H3'	2.15	0.46
22:JB:1373:G:N7	22:JB:1384:G:N2	2.63	0.46
22:JB:1542:G:H2'	22:JB:1560:A:N6	2.26	0.46
22:JB:1945:C:O2'	22:JB:1946:U:H3'	2.16	0.46
22:JB:2505:G:H2'	22:JB:2506:C:O4'	2.15	0.46
22:JB:2717:G:H2'	22:JB:2718:A:O4'	2.15	0.46
22:JB:2606:G:H1'	22:JB:2757:G:N2	2.31	0.46
22:JB:541:C:H4'	38:JR:25:TRP:NE1	2.29	0.46
22:JB:63:A:O4'	41:JU:62:ARG:CG	2.59	0.46
22:JB:648:A:H5'	22:JB:649:G:O5'	2.15	0.46
22:JB:788:G:H5'	22:JB:790:A:N9	2.30	0.46
22:JB:6:A:H2'	22:JB:7:G:O4'	2.15	0.46
26:JF:40:ARG:HB3	26:JF:40:ARG:NH1	2.31	0.46
30:JJ:111:LYS:HB3	30:JJ:111:LYS:HZ3	1.81	0.46
31:JK:93:LYS:N	31:JK:93:LYS:HD2	2.31	0.46
32:JL:2:ILE:N	32:JL:2:ILE:HD13	2.30	0.46
22:JB:2815:C:H4'	35:JO:91:PRO:HB3	1.98	0.46
41:JU:61:LYS:HA	41:JU:72:ARG:NH2	2.31	0.46
42:JV:106:VAL:HG22	42:JV:113:THR:HB	1.96	0.46
22:JB:1010:U:O2	46:JZ:7:ARG:NH1	2.48	0.46
1:AA:1017:G:H2'	1:AA:1018:C:C6	2.51	0.46
1:AA:1262:C:H2'	1:AA:1263:C:H6	1.80	0.46
1:AA:1234:C:H1'	1:AA:1364:U:H1'	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1408:A:H1'	1:AA:1494:G:H22	1.79	0.46
1:AA:759:A:C2'	1:AA:760:G:H5'	2.42	0.46
1:AA:975:A:O2'	1:AA:976:G:OP2	2.31	0.46
4:AD:179:GLU:O	4:AD:181:MET:HG3	2.16	0.46
6:AF:4:TYR:CE1	6:AF:92:LYS:HG2	2.50	0.46
7:AG:131:LYS:HG3	7:AG:131:LYS:O	2.15	0.46
5:AE:150:ARG:CZ	8:AH:77:GLU:OE2	2.63	0.46
1:AA:1343:G:O4'	9:AI:122:ALA:HB3	2.10	0.46
13:AM:2:ALA:N	13:AM:9:ILE:HA	2.30	0.46
13:AM:16:ASP:HB3	13:AM:41:PRO:HB3	1.96	0.46
13:AM:65:LYS:NZ	13:AM:72:ALA:HB3	2.30	0.46
1:AA:331:G:N1	20:AT:8:ARG:O	2.44	0.46
48:B2:33:CYS:CA	48:B2:40:LYS:HB2	2.45	0.46
51:B5:62:LEU:O	51:B5:63:PRO:C	2.54	0.46
22:BB:2444:C:H5''	52:B6:3:VAL:CG2	2.43	0.46
22:BB:1135:C:HO2'	52:B6:4:ARG:HA	1.80	0.46
53:B7:147:TYR:O	53:B7:151:PHE:HB2	2.16	0.46
53:B7:21:ASN:ND2	53:B7:22:VAL:H	2.13	0.46
22:BB:1044:U:H5''	52:B6:16:VAL:HG22	1.88	0.46
22:BB:1366:A:H2'	22:BB:1366:A:N3	2.29	0.46
22:BB:119:G:H4'	22:BB:143:A:OP1	2.16	0.46
22:BB:1490:U:O2'	22:BB:1534:A:C8	2.68	0.46
22:BB:177:U:O5'	47:B1:31:ILE:CG2	2.58	0.46
22:BB:1790:G:OP2	24:BD:258:LYS:CB	2.63	0.46
22:BB:1908:C:C2'	22:BB:1909:U:H4'	2.44	0.46
22:BB:2019:C:H2'	22:BB:2020:G:H8	1.80	0.46
22:BB:2182:A:C6	22:BB:2204:A:N3	2.84	0.46
22:BB:2075:U:H1'	22:BB:2204:A:H2'	1.97	0.46
22:BB:2340:C:C6	51:B5:26:LYS:NZ	2.84	0.46
22:BB:2505:G:H2'	22:BB:2506:C:O4'	2.15	0.46
22:BB:578:U:H2'	22:BB:579:G:O4'	2.15	0.46
22:BB:59:G:N2	22:BB:86:U:O4	2.49	0.46
22:BB:7:G:O2'	31:BK:41:TRP:CH2	2.69	0.46
22:BB:973:U:H4'	22:BB:2475:C:O2'	2.15	0.46
24:BD:246:PRO:CG	24:BD:247:VAL:N	2.77	0.46
25:BE:181:LEU:CB	37:BQ:12:LEU:HD21	2.46	0.46
25:BE:33:ILE:HG22	25:BE:34:VAL:HG13	1.97	0.46
22:BB:38:G:N3	26:BF:42:THR:CB	2.79	0.46
28:BH:141:VAL:HG23	28:BH:142:GLY:H	1.81	0.46
29:BI:4:ILE:HG22	29:BI:5:LEU:N	2.31	0.46
31:BK:126:VAL:O	31:BK:128:GLU:N	2.49	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BO:99:ARG:H	35:BO:99:ARG:HD2	1.81	0.46
36:BP:20:THR:HG23	36:BP:46:SER:HB2	1.98	0.46
40:BT:38:VAL:HG11	40:BT:97:VAL:HG11	1.97	0.46
43:BW:103:ARG:O	43:BW:103:ARG:HG2	2.15	0.46
1:CA:1108:G:C5'	3:CC:176:HIS:HB2	2.46	0.46
1:CA:1226:C:H4'	1:CA:1227:A:OP1	2.16	0.46
1:CA:1262:C:H2'	1:CA:1263:C:H6	1.79	0.46
1:CA:1234:C:H1'	1:CA:1364:U:H1'	1.98	0.46
1:CA:301:G:N2	1:CA:556:C:H4'	2.24	0.46
1:CA:561:U:OP2	1:CA:562:C:H5''	2.15	0.46
1:CA:588:G:O5'	8:CH:2:LEU:CG	2.62	0.46
1:CA:702:A:H2	22:DB:1839:A:C4'	2.28	0.46
2:CB:74:LYS:HG2	2:CB:205:ASP:O	2.16	0.46
4:CD:29:PRO:HG3	4:CD:34:GLU:HG2	1.97	0.46
5:CE:139:LEU:HA	5:CE:142:LEU:HD12	1.97	0.46
5:CE:88:LYS:HG2	5:CE:123:LEU:O	2.16	0.46
9:CI:46:ALA:HB1	9:CI:77:ILE:CD1	2.44	0.46
10:CJ:12:ASP:OD2	10:CJ:14:LYS:HD3	2.15	0.46
1:CA:689:C:N1	11:CK:51:LYS:NZ	2.51	0.46
13:CM:65:LYS:NZ	13:CM:72:ALA:HB3	2.31	0.46
15:CO:79:ARG:HG2	15:CO:82:ILE:HD12	1.97	0.46
16:CP:3:LYS:H	16:CP:24:ALA:HB2	1.81	0.46
17:CQ:59:ILE:CG2	17:CQ:71:PHE:HB3	2.46	0.46
17:CQ:92:ARG:HA	17:CQ:92:ARG:NE	2.31	0.46
23:DA:79:U:H2'	23:DA:80:A:H8	1.80	0.46
22:DB:1082:G:OP1	22:DB:1082:G:H3'	2.15	0.46
22:DB:124:A:H2'	22:DB:125:A:C2	2.50	0.46
22:DB:124:A:N6	50:D4:45:SER:CB	2.71	0.46
22:DB:119:G:H4'	22:DB:143:A:OP1	2.16	0.46
22:DB:1698:C:H1'	22:DB:1754:G:N7	2.31	0.46
22:DB:1699:A:H1'	22:DB:1748:U:O4	2.15	0.46
22:DB:177:U:C5'	47:D1:30:GLU:O	2.63	0.46
22:DB:1680:U:O4	22:DB:1975:G:H2'	2.16	0.46
22:DB:2229:G:H2'	34:DN:84:MET:C	2.36	0.46
22:DB:2297:G:H2'	22:DB:2299:A:N3	2.30	0.46
22:DB:2789:U:C5	22:DB:2790:C:H1'	2.50	0.46
22:DB:3140:G:H2'	22:DB:3141:G:C8	2.50	0.46
22:DB:333:A:O2'	22:DB:350:U:H2'	2.15	0.46
22:DB:578:U:H2'	22:DB:579:G:O4'	2.15	0.46
22:DB:718:A:H61	22:DB:739:G:H1'	1.80	0.46
22:DB:810:U:C4	26:DF:56:ARG:NH2	2.82	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:DB:886:A:C8	43:DW:167:THR:CG2	2.98	0.46
22:DB:777:A:O4'	24:DD:210:GLY:HA3	2.16	0.46
22:DB:1808:C:P	24:DD:87:ASN:ND2	2.88	0.46
30:DJ:41:PHE:HA	30:DJ:45:THR:OG1	2.15	0.46
31:DK:93:LYS:HD2	31:DK:93:LYS:N	2.31	0.46
40:DT:55:ASP:HA	40:DT:59:PHE:H	1.80	0.46
42:DV:56:LYS:HE3	42:DV:67:GLY:HA3	1.96	0.46
43:DW:84:TYR:CE2	43:DW:128:ARG:CD	2.93	0.46
45:DY:41:HIS:ND1	45:DY:45:GLN:HB2	2.31	0.46
45:DY:49:GLU:CD	45:DY:50:VAL:HG23	2.36	0.46
1:EA:1190:G:H5'	3:EC:176:HIS:ND1	2.30	0.46
1:EA:1367:C:C1'	10:EJ:60:ARG:NH2	2.55	0.46
1:EA:1447:A:N6	1:EA:1457:A:N7	2.64	0.46
1:EA:294:U:OP1	1:EA:610:G:H1'	2.15	0.46
1:EA:599:C:O3'	8:EH:97:VAL:C	2.49	0.46
5:EE:88:LYS:HG2	5:EE:123:LEU:O	2.16	0.46
9:EI:86:VAL:HG11	9:EI:93:ARG:HG3	1.98	0.46
10:EJ:63:PHE:CE2	14:EN:58:LYS:CG	2.86	0.46
17:EQ:92:ARG:NE	17:EQ:92:ARG:HA	2.30	0.46
47:F1:57:ASP:CB	47:F1:60:ASN:HB2	2.45	0.46
49:F3:39:LYS:HB2	49:F3:39:LYS:NZ	2.30	0.46
51:F5:15:LYS:HD3	51:F5:64:ARG:HH12	1.80	0.46
23:FA:29:C:OP2	36:FP:36:LYS:HG2	2.14	0.46
22:FB:1366:A:N3	22:FB:1366:A:H2'	2.29	0.46
22:FB:140:G:N3	22:FB:140:G:H2'	2.31	0.46
22:FB:1752:U:C3'	22:FB:1753:A:OP2	2.58	0.46
22:FB:1828:C:O2'	22:FB:1912:G:OP1	2.33	0.46
22:FB:2003:A:C8	48:F2:9:LYS:CB	2.98	0.46
22:FB:2006:G:N2	22:FB:2024:U:H1'	2.31	0.46
22:FB:2241:U:C2	22:FB:2306:A:C2	3.04	0.46
22:FB:2308:A:H2'	22:FB:2309:G:C8	2.50	0.46
22:FB:1140:A:C2	22:FB:2549:G:O3'	2.69	0.46
22:FB:2767:C:H1'	25:FE:61:LYS:HZ1	1.81	0.46
22:FB:513:A:H1'	22:FB:515:A:N7	2.30	0.46
22:FB:552:C:H2'	22:FB:553:C:C4'	2.17	0.46
22:FB:776:G:H5'	24:FD:211:ARG:HH22	1.78	0.46
22:FB:1817:U:P	24:FD:223:GLY:HA2	2.56	0.46
24:FD:22:SER:HA	24:FD:207:GLY:N	2.31	0.46
24:FD:68:LYS:HE3	24:FD:191:ALA:HA	1.97	0.46
24:FD:72:LYS:HG2	24:FD:119:ALA:O	2.16	0.46
22:FB:2742:G:N3	28:FH:150:LYS:HE3	2.31	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:FI:4:ILE:HA	29:FI:16:GLU:H	1.80	0.46
32:FL:21:CYS:HA	32:FL:53:ALA:HA	1.97	0.46
32:FL:29:ILE:HG22	32:FL:30:GLY:H	1.79	0.46
33:FM:28:LYS:HG3	33:FM:28:LYS:O	2.16	0.46
38:FR:44:THR:N	39:FS:75:LYS:CB	2.79	0.46
39:FS:36:LYS:HZ3	39:FS:36:LYS:HA	1.78	0.46
39:FS:56:VAL:HG12	39:FS:57:GLN:HG2	1.96	0.46
40:FT:27:VAL:HG21	40:FT:123:HIS:CE1	2.50	0.46
40:FT:55:ASP:HA	40:FT:59:PHE:H	1.80	0.46
44:FX:45:PHE:H	44:FX:76:ALA:CA	2.27	0.46
1:GA:1017:G:H2'	1:GA:1018:C:C6	2.51	0.46
1:GA:1032:G:H2'	1:GA:1032:G:N3	2.30	0.46
1:GA:106:C:H42	20:GT:14:LYS:HD3	1.79	0.46
1:GA:1141:C:H2'	1:GA:1142:G:C8	2.51	0.46
1:GA:1250:A:OP1	9:GI:67:GLY:CA	2.60	0.46
1:AA:191:G:OP1	1:GA:191:G:C5	2.68	0.46
1:GA:265:G:H1'	17:GQ:70:ARG:NH1	2.25	0.46
1:GA:276:G:H2'	1:GA:277:C:O4'	2.15	0.46
1:GA:833:U:H2'	1:GA:834:C:C6	2.51	0.46
2:GB:155:LEU:HD13	2:GB:158:LEU:HA	1.98	0.46
2:GB:8:LYS:H	2:GB:8:LYS:HD2	1.80	0.46
4:GD:179:GLU:O	4:GD:181:MET:HG3	2.16	0.46
7:GG:89:MET:HB2	7:GG:90:GLU:H	1.61	0.46
8:GH:64:LYS:HZ2	8:GH:79:VAL:HG21	1.81	0.46
9:GI:11:LYS:HA	9:GI:104:ARG:NH2	2.25	0.46
10:GJ:65:LEU:HB2	14:GN:56:VAL:HG11	1.69	0.46
10:GJ:7:LYS:HA	10:GJ:71:LEU:HA	1.97	0.46
12:GL:124:LYS:HG3	12:GL:125:PRO:HD2	1.95	0.46
1:GA:740:U:O4'	15:GO:42:HIS:ND1	2.47	0.46
17:GQ:59:ILE:CG2	17:GQ:71:PHE:HB3	2.46	0.46
1:GA:278:G:C5	17:GQ:95:TYR:HD2	2.34	0.46
22:HB:2788:C:C2	48:H2:30:LEU:HD22	2.40	0.46
52:H6:17:VAL:HG12	52:H6:19:ARG:HG3	1.98	0.46
23:HA:31:A:H2'	23:HA:32:C:H6	1.81	0.46
22:HB:1142:G:C6	31:HK:105:GLY:HA2	2.50	0.46
22:HB:1840:A:H2'	22:HB:1841:G:O4'	2.15	0.46
22:HB:1908:C:C2'	22:HB:1909:U:H4'	2.44	0.46
22:HB:424:G:O5'	22:HB:2386:G:OP2	2.33	0.46
22:HB:2505:G:H2'	22:HB:2506:C:O4'	2.15	0.46
22:HB:2647:G:H4'	28:HH:111:HIS:CE1	2.51	0.46
22:HB:3871:A:H2'	22:HB:3872:A:H8	1.81	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:HB:638:A:H62	33:HM:109:LEU:CD1	2.21	0.46
22:HB:642:A:C6	22:HB:2394:G:N2	2.74	0.46
22:HB:760:U:O3'	40:HT:111:ARG:O	2.33	0.46
24:HD:95:LEU:HB3	24:HD:105:ILE:HB	1.97	0.46
29:HI:34:LEU:HB3	29:HI:35:ALA:H	1.45	0.46
30:HJ:41:PHE:HA	30:HJ:45:THR:OG1	2.15	0.46
31:HK:74:MET:HE3	31:HK:75:ILE:H	1.80	0.46
32:HL:77:THR:OG1	32:HL:78:SER:N	2.48	0.46
35:HO:70:ILE:O	35:HO:75:VAL:HG21	2.16	0.46
37:HQ:87:LEU:HG	37:HQ:89:ASN:H	1.81	0.46
22:HB:1249:G:OP2	40:HT:15:LYS:HD3	2.15	0.46
43:HW:103:ARG:HG2	43:HW:103:ARG:O	2.15	0.46
43:HW:67:LYS:HD3	43:HW:83:PHE:N	2.31	0.46
22:HB:2335:U:C5'	44:HX:19:LYS:CD	2.90	0.46
44:HX:45:PHE:H	44:HX:76:ALA:CA	2.27	0.46
44:HX:4:LYS:HE3	44:HX:11:LYS:HG2	1.96	0.46
45:HY:51:ALA:C	45:HY:53:LEU:N	2.68	0.46
46:HZ:51:LEU:CD2	46:HZ:52:GLU:H	2.29	0.46
1:IA:1214:C:H5''	1:IA:1215:G:OP2	2.16	0.46
1:IA:355:C:H2'	1:IA:356:A:O4'	2.15	0.46
1:IA:692:U:H2'	1:IA:693:G:H3'	1.97	0.46
3:IC:137:ALA:C	3:IC:140:ARG:HH21	2.19	0.46
3:IC:20:SER:HB2	14:IN:52:GLN:C	2.36	0.46
4:ID:29:PRO:HG3	4:ID:34:GLU:HG2	1.97	0.46
5:IE:11:ILE:HG13	5:IE:31:LEU:HB2	1.98	0.46
1:IA:1078:U:P	5:IE:84:PHE:CZ	3.09	0.46
8:IH:8:ASP:O	8:IH:12:ARG:HG3	2.15	0.46
9:II:65:VAL:HG22	9:II:73:GLN:NE2	2.31	0.46
9:II:85:LEU:HD21	9:II:92:TYR:HB3	1.98	0.46
10:IJ:64:GLU:HB3	14:IN:59:ALA:CB	2.24	0.46
10:IJ:30:SER:CB	10:IJ:80:LYS:HE2	2.38	0.46
12:IL:11:VAL:CB	17:IQ:36:ILE:CB	2.72	0.46
13:IM:48:LEU:HA	13:IM:52:GLU:OE2	2.15	0.46
13:IM:91:ARG:HB3	13:IM:96:LEU:O	2.14	0.46
15:IO:89:GLY:C	22:JB:730:C:C4	2.89	0.46
19:IS:16:LEU:HA	19:IS:19:VAL:CG1	2.42	0.46
20:IT:15:ARG:HD3	20:IT:15:ARG:O	2.16	0.46
22:JB:52:A:H2	50:J4:28:ARG:CG	2.29	0.46
51:J5:62:LEU:O	51:J5:63:PRO:C	2.54	0.46
23:JA:92:G:N2	34:JN:22:ALA:C	2.68	0.46
22:JB:1268:U:C4	26:JF:66:ASN:ND2	2.84	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:JB:133:C:N3	22:JB:138:G:N1	2.64	0.46
22:JB:1773:C:H2'	22:JB:1774:A:O4'	2.16	0.46
22:JB:1807:A:H4'	24:JD:63:ARG:CD	2.46	0.46
22:JB:1908:C:H2'	22:JB:1909:U:C4'	2.45	0.46
22:JB:1912:G:N3	22:JB:1912:G:C2'	2.79	0.46
22:JB:1995:G:OP1	40:JT:117:ILE:HD12	2.15	0.46
22:JB:2395:C:H2'	22:JB:2396:C:H5'	1.97	0.46
22:JB:2636:A:HO2'	28:JH:158:HIS:CE1	2.33	0.46
22:JB:2701:A:C5	22:JB:2848:A:C6	3.03	0.46
22:JB:2802:C:O2'	22:JB:2803:C:H5'	2.16	0.46
22:JB:2821:G:OP2	37:JQ:105:TYR:CZ	2.63	0.46
22:JB:3115:G:N7	22:JB:3118:U:H5''	2.30	0.46
22:JB:3175:C:O2'	53:J7:33:ILE:CD1	2.63	0.46
22:JB:512:A:H4'	40:JT:15:LYS:HB3	1.98	0.46
22:JB:583:C:H4'	22:JB:584:A:O5'	2.15	0.46
22:JB:693:A:H2'	22:JB:694:G:O4'	2.16	0.46
22:JB:762:A:H2'	22:JB:763:A:C4	2.50	0.46
24:JD:144:ALA:CB	24:JD:192:THR:HG22	2.46	0.46
27:JG:19:GLN:HE21	27:JG:19:GLN:HB3	1.54	0.46
31:JK:56:THR:C	31:JK:58:ILE:H	2.18	0.46
31:JK:64:GLY:HA2	31:JK:70:PHE:CZ	2.50	0.46
22:JB:1217:U:O2'	33:JM:12:SER:HB2	2.15	0.46
22:JB:846:A:C4'	33:JM:52:GLY:O	2.61	0.46
33:JM:72:TYR:HE2	51:J5:64:ARG:CD	2.20	0.46
39:JS:56:VAL:HG12	39:JS:57:GLN:HG2	1.96	0.46
39:JS:63:HIS:CE1	39:JS:93:ILE:HD13	2.49	0.46
1:AA:1239:A:H2'	1:AA:1298:C:N4	2.30	0.46
1:AA:26:A:N1	4:AD:209:ARG:NH2	2.64	0.46
1:AA:332:G:H2'	1:AA:333:G:C8	2.51	0.46
1:AA:374:A:H5''	1:AA:452:A:N1	2.31	0.46
1:AA:301:G:N2	1:AA:556:C:H4'	2.24	0.46
1:AA:671:G:H2'	1:AA:672:U:O4'	2.15	0.46
1:AA:833:U:H2'	1:AA:834:C:C6	2.51	0.46
2:AB:131:PRO:HD2	2:AB:134:GLU:OE1	2.16	0.46
2:AB:140:HIS:HA	2:AB:143:GLU:CG	2.45	0.46
2:AB:155:LEU:HD13	2:AB:158:LEU:HA	1.98	0.46
2:AB:55:PHE:CD1	2:AB:221:LEU:HG	2.51	0.46
2:AB:74:LYS:HG2	2:AB:205:ASP:O	2.16	0.46
4:AD:105:VAL:O	4:AD:110:PHE:HB2	2.16	0.46
4:AD:201:GLN:HE22	5:AE:100:VAL:H	1.61	0.46
8:AH:17:THR:HB	8:AH:65:TYR:HE2	1.81	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:AH:1:MET:HG2	8:AH:2:LEU:HG	1.97	0.46
1:AA:1128:C:C4'	9:AI:16:ARG:NH1	2.78	0.46
12:AL:5:PRO:CA	12:AL:10:LEU:HA	2.45	0.46
18:AR:68:LYS:O	18:AR:72:ARG:HG3	2.15	0.46
19:AS:36:ARG:HH21	19:AS:53:ASN:ND2	2.14	0.46
1:AA:1441:G:C6	20:AT:27:LYS:HE3	2.51	0.46
50:B4:6:GLN:CD	50:B4:7:PRO:HD2	2.35	0.46
22:BB:1433:A:H2'	22:BB:1434:U:H5	1.81	0.46
22:BB:1440:G:N2	22:BB:1588:A:OP2	2.48	0.46
22:BB:1660:G:H2'	22:BB:1661:C:O4'	2.16	0.46
22:BB:1673:C:H3'	25:BE:136:ARG:NH2	2.30	0.46
22:BB:1836:C:H2'	22:BB:1837:G:O4'	2.15	0.46
22:BB:1680:U:O4	22:BB:1975:G:H2'	2.16	0.46
22:BB:2265:A:OP1	22:BB:2266:A:H5'	2.15	0.46
22:BB:2285:U:H5	22:BB:2290:A:H61	1.63	0.46
22:BB:3109:U:H3	22:BB:3180:U:H3	1.63	0.46
22:BB:552:C:H2'	22:BB:553:C:C4'	2.16	0.46
22:BB:543:G:C5	22:BB:570:G:N1	2.83	0.46
22:BB:845:U:O2'	22:BB:846:A:H5'	2.16	0.46
24:BD:133:LEU:HD23	24:BD:189:CYS:O	2.16	0.46
24:BD:151:LYS:HA	24:BD:151:LYS:HE2	1.98	0.46
24:BD:43:ARG:CZ	24:BD:60:ARG:HB3	2.45	0.46
22:BB:755:C:C2'	25:BE:129:HIS:CE1	2.99	0.46
25:BE:30:PRO:HB2	25:BE:49:ILE:H	1.79	0.46
27:BG:133:LYS:O	27:BG:151:GLY:HA2	2.15	0.46
31:BK:116:ARG:HH22	31:BK:126:VAL:CG1	2.26	0.46
33:BM:18:ARG:HG2	33:BM:19:VAL:H	1.80	0.46
35:BO:28:LEU:HA	35:BO:32:GLY:CA	2.45	0.46
37:BQ:100:ARG:HH12	37:BQ:121:ARG:NH1	2.13	0.46
38:BR:94:VAL:O	38:BR:97:ASP:HB2	2.16	0.46
1:CA:1082:G:O2'	1:CA:1083:U:H5'	2.16	0.46
1:CA:1148:U:C1'	9:CI:66:ARG:NH2	2.79	0.46
1:CA:127:G:H2'	1:CA:128:G:C8	2.47	0.46
1:CA:1447:A:N6	1:CA:1457:A:N7	2.64	0.46
1:CA:374:A:H5''	1:CA:452:A:N1	2.31	0.46
1:CA:620:C:C4'	4:CD:138:TYR:CD1	2.82	0.46
1:CA:833:U:H2'	1:CA:834:C:C6	2.51	0.46
3:CC:22:TRP:CZ2	3:CC:33:LEU:HG	2.51	0.46
4:CD:179:GLU:O	4:CD:181:MET:HG3	2.16	0.46
7:CG:131:LYS:O	7:CG:131:LYS:HG3	2.15	0.46
12:CL:83:VAL:O	12:CL:85:ILE:HG13	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:CJ:62:HIS:CA	14:CN:59:ALA:HB3	2.44	0.46
1:CA:741:G:C3'	15:CO:55:GLY:CA	2.94	0.46
18:CR:32:ARG:NH2	18:CR:69:THR:HG23	2.29	0.46
19:CS:29:ARG:HD2	19:CS:29:ARG:N	2.30	0.46
22:DB:176:A:C1'	47:D1:30:GLU:HB2	2.46	0.46
22:DB:475:U:H5'	50:D4:5:TYR:CB	2.42	0.46
50:D4:6:GLN:CD	50:D4:7:PRO:HD2	2.35	0.46
23:DA:96:C:P	43:DW:14:LEU:HB3	2.55	0.46
22:DB:1007:A:N1	22:DB:1171:A:C5	2.84	0.46
22:DB:1145:C:H3'	22:DB:1147:G:P	2.56	0.46
22:DB:1326:U:OP1	22:DB:1345:G:H4'	2.15	0.46
22:DB:1370:U:H2'	22:DB:1371:G:C8	2.47	0.46
22:DB:1433:A:H2'	22:DB:1434:U:H5	1.81	0.46
22:DB:1436:G:H2'	22:DB:1508:G:H21	1.81	0.46
22:DB:1660:G:H2'	22:DB:1661:C:O4'	2.16	0.46
22:DB:1836:C:H2'	22:DB:1837:G:O4'	2.15	0.46
22:DB:1872:A:H2'	22:DB:1872:A:N3	2.30	0.46
22:DB:2285:U:H5	22:DB:2290:A:H61	1.63	0.46
22:DB:2733:A:H1'	52:D6:15:LYS:HZ3	1.74	0.46
22:DB:2753:C:H4'	25:DE:163:GLU:CA	2.46	0.46
22:DB:2802:C:O2'	22:DB:2803:C:H5'	2.15	0.46
22:DB:419:G:OP2	53:D7:197:GLU:CD	2.52	0.46
22:DB:607:C:O2'	33:DM:21:ARG:O	2.34	0.46
22:DB:6:A:O3'	31:DK:160:ALA:O	2.33	0.46
22:DB:686:C:H42	22:DB:821:A:H61	1.63	0.46
22:DB:964:A:O2'	22:DB:965:G:H5'	2.16	0.46
24:DD:246:PRO:CG	24:DD:247:VAL:N	2.77	0.46
24:DD:251:GLY:CA	24:DD:255:LYS:HE3	2.46	0.46
25:DE:4:ILE:O	25:DE:4:ILE:HG23	2.16	0.46
22:DB:625:A:C2	26:DF:176:ASN:CB	2.98	0.46
22:DB:809:C:P	26:DF:57:LYS:HG3	2.48	0.46
36:DP:13:THR:O	36:DP:17:VAL:HG12	2.16	0.46
37:DQ:100:ARG:HH12	37:DQ:121:ARG:NH1	2.13	0.46
37:DQ:13:LEU:O	37:DQ:13:LEU:HD13	2.15	0.46
37:DQ:38:LYS:HD3	37:DQ:50:PHE:HB2	1.98	0.46
38:DR:6:THR:HB	38:DR:9:VAL:HG12	1.98	0.46
38:DR:94:VAL:O	38:DR:97:ASP:HB2	2.16	0.46
34:DN:36:ILE:CB	43:DW:74:ARG:HA	2.38	0.46
46:DZ:51:LEU:CD2	46:DZ:52:GLU:H	2.29	0.46
1:EA:1001:A:N6	1:EA:1003:G:H21	2.13	0.46
1:EA:1050:G:H2'	1:EA:1051:C:C6	2.51	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:EA:526:C:H2'	1:EA:527:G:C4'	2.46	0.46
1:EA:301:G:N2	1:EA:556:C:H4'	2.23	0.46
1:EA:620:C:HO2'	4:ED:138:TYR:HD1	1.57	0.46
1:EA:671:G:H2'	1:EA:672:U:O4'	2.15	0.46
1:EA:759:A:C2'	1:EA:760:G:H5'	2.42	0.46
1:EA:768:A:H2'	1:EA:769:G:H8	1.81	0.46
1:EA:910:C:H2'	1:EA:911:U:H6	1.81	0.46
3:EC:77:ILE:HG23	3:EC:84:ILE:HB	1.97	0.46
1:EA:429:U:H3'	4:ED:8:VAL:HG21	1.98	0.46
1:EA:559:A:OP2	5:EE:121:LYS:HE3	2.15	0.46
3:EC:135:LYS:HZ2	5:EE:52:PRO:CB	2.28	0.46
6:EF:5:GLU:HB2	6:EF:93:SER:OG	2.15	0.46
9:EI:121:ARG:NH1	9:EI:121:ARG:HG2	2.30	0.46
9:EI:47:LEU:HG	9:EI:51:ARG:NH1	2.30	0.46
1:EA:970:C:P	10:EJ:55:LYS:NZ	2.88	0.46
1:EA:537:G:O5'	12:EL:113:ARG:NH2	2.44	0.46
10:EJ:62:HIS:CD2	14:EN:61:TRP:CZ3	3.03	0.46
20:ET:40:ALA:HA	20:ET:55:ILE:HD13	1.97	0.46
1:EA:258:G:OP2	20:ET:83:ARG:CB	2.63	0.46
22:FB:2074:U:O2	47:F1:43:TRP:HB2	2.15	0.46
22:FB:2040:A:N1	48:F2:2:ALA:CA	2.74	0.46
22:FB:477:A:H5'	50:F4:16:HIS:HE1	0.61	0.46
22:FB:124:A:C4'	50:F4:19:ARG:HB3	2.46	0.46
23:FA:77:G:C5	43:FW:24:TYR:OH	2.68	0.46
23:FA:92:G:H21	34:FN:22:ALA:C	2.06	0.46
22:FB:124:A:H2'	22:FB:125:A:C2	2.50	0.46
22:FB:1254:G:H2'	22:FB:1255:A:C4	2.49	0.46
22:FB:1433:A:H2'	22:FB:1434:U:H5	1.81	0.46
22:FB:1660:G:H2'	22:FB:1661:C:O4'	2.16	0.46
22:FB:174:A:H3'	22:FB:175:C:C6	2.51	0.46
22:FB:1908:C:C2'	22:FB:1909:U:H4'	2.44	0.46
22:FB:2019:C:H2'	22:FB:2020:G:H8	1.81	0.46
22:FB:2043:A:OP1	26:FF:62:LYS:CD	2.52	0.46
22:FB:2282:G:N3	27:FG:129:ASN:HB3	2.27	0.46
22:FB:2550:C:H2'	22:FB:2553:G:O4'	2.16	0.46
22:FB:339:U:O2'	42:FV:76:LEU:C	2.53	0.46
22:FB:47:G:H1'	22:FB:155:G:N2	2.30	0.46
24:FD:144:ALA:CB	24:FD:192:THR:HG22	2.46	0.46
22:FB:1803:G:N2	24:FD:47:GLY:HA3	2.31	0.46
24:FD:78:LYS:HB3	24:FD:78:LYS:NZ	2.30	0.46
27:FG:127:ASN:HD22	27:FG:127:ASN:C	2.18	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:FH:62:ARG:HA	28:FH:65:HIS:O	2.15	0.46
31:FK:41:TRP:CD2	31:FK:79:PHE:HB2	2.51	0.46
31:FK:93:LYS:HD2	31:FK:93:LYS:N	2.31	0.46
33:FM:75:VAL:HG23	33:FM:109:LEU:HD23	1.97	0.46
33:FM:79:GLN:HB3	33:FM:80:LEU:HD22	1.97	0.46
34:FN:127:PRO:HB2	34:FN:129:GLN:NE2	2.31	0.46
22:FB:1670:G:N3	35:FO:11:ASN:ND2	2.59	0.46
35:FO:55:ALA:HB1	35:FO:79:VAL:HG22	1.97	0.46
37:FQ:13:LEU:O	37:FQ:13:LEU:HD13	2.15	0.46
40:FT:49:SER:O	40:FT:51:GLN:HG3	2.16	0.46
36:FP:47:ARG:HD3	44:FX:78:PHE:CD1	2.51	0.46
45:FY:41:HIS:ND1	45:FY:45:GLN:HB2	2.31	0.46
1:GA:1124:G:H2'	1:GA:1126:U:O4	2.15	0.46
1:GA:1373:G:H5'	7:GG:35:LYS:CA	2.45	0.46
1:GA:1433:A:H2'	1:GA:1434:A:O4'	2.16	0.46
1:GA:814:A:H5'	1:GA:1511:G:H4'	1.97	0.46
1:GA:826:C:O3'	8:GH:12:ARG:HD2	2.15	0.46
1:GA:894:G:H2'	1:GA:895:G:C8	2.51	0.46
1:GA:933:G:OP2	7:GG:2:ALA:HA	2.16	0.46
1:GA:980:C:H2'	1:GA:981:U:O4'	2.16	0.46
2:GB:122:PHE:O	2:GB:127:ILE:HD11	2.16	0.46
2:GB:16:HIS:CE1	2:GB:213:LEU:HB3	2.51	0.46
3:GC:137:ALA:C	3:GC:140:ARG:HH21	2.19	0.46
3:GC:148:GLY:HA2	3:GC:170:GLN:O	2.15	0.46
3:GC:189:ALA:HB3	3:GC:196:LEU:H	1.81	0.46
4:GD:102:ASP:HA	4:GD:118:ARG:HB3	1.97	0.46
4:GD:29:PRO:HG3	4:GD:34:GLU:HG2	1.97	0.46
7:GG:138:LYS:O	7:GG:142:GLU:HG3	2.15	0.46
9:GI:118:LYS:HB3	9:GI:118:LYS:NZ	2.31	0.46
10:GJ:47:PHE:HB2	10:GJ:63:PHE:CB	2.39	0.46
13:GM:2:ALA:N	13:GM:9:ILE:HA	2.31	0.46
16:GP:81:ARG:NE	16:GP:81:ARG:HA	2.31	0.46
1:GA:719:C:HO2'	18:GR:49:LYS:CB	2.11	0.46
1:GA:720:C:C4'	18:GR:52:PRO:HG3	2.46	0.46
22:HB:2183:C:O3'	47:H1:43:TRP:HZ3	1.94	0.46
49:H3:39:LYS:NZ	49:H3:39:LYS:HB2	2.30	0.46
22:HB:2338:C:H4'	51:H5:52:LYS:HD2	1.85	0.46
22:HB:3167:U:C6	53:H7:98:ARG:HD3	2.37	0.46
22:HB:1358:C:H2'	22:HB:1359:G:H5''	1.97	0.46
22:HB:1532:A:H3'	22:HB:1533:G:P	2.55	0.46
22:HB:1595:A:N3	22:HB:1595:A:H2'	2.30	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:HB:1908:C:H2'	22:HB:1909:U:C4'	2.45	0.46
22:HB:2565:C:H2'	22:HB:2566:A:N3	2.30	0.46
22:HB:2613:A:H2'	22:HB:2614:A:C8	2.47	0.46
22:HB:2846:G:N3	22:HB:2846:G:H2'	2.31	0.46
22:HB:2862:G:N2	48:H2:30:LEU:CD1	2.64	0.46
22:HB:3140:G:H2'	22:HB:3141:G:C8	2.51	0.46
22:HB:356:A:H2'	22:HB:357:A:C8	2.50	0.46
22:HB:3867:G:N7	22:HB:3875:A:N6	2.63	0.46
22:HB:545:C:H2'	22:HB:546:A:C8	2.50	0.46
22:HB:583:C:H4'	22:HB:584:A:O5'	2.16	0.46
22:HB:638:A:H61	22:HB:647:G:C2'	2.29	0.46
22:HB:648:A:N6	33:HM:78:SER:HB2	2.30	0.46
22:HB:828:C:C5'	39:HS:86:HIS:NE2	2.78	0.46
24:HD:177:LEU:HD21	24:HD:183:ARG:HG3	1.97	0.46
24:HD:222:ARG:HH11	24:HD:222:ARG:HG2	1.81	0.46
24:HD:27:LYS:HB3	24:HD:27:LYS:HZ2	1.81	0.46
22:HB:1797:C:H1'	24:HD:49:ILE:HG13	1.98	0.46
25:HE:195:LEU:HD21	37:HQ:2:GLN:HB2	1.97	0.46
25:HE:59:VAL:HG12	25:HE:60:ASN:H	1.80	0.46
27:HG:86:GLY:O	27:HG:87:ILE:HG23	2.16	0.46
22:HB:2725:C:C4'	28:HH:142:GLY:HA3	2.46	0.46
28:HH:50:LEU:CG	28:HH:69:ARG:HD2	2.46	0.46
31:HK:93:LYS:N	31:HK:93:LYS:HD2	2.31	0.46
22:HB:1143:A:HO2'	31:HK:99:VAL:HG13	1.76	0.46
33:HM:79:GLN:HB3	33:HM:80:LEU:HD22	1.97	0.46
40:HT:49:SER:O	40:HT:51:GLN:HG3	2.16	0.46
41:HU:17:TYR:N	41:HU:20:MET:HB2	2.30	0.46
41:HU:61:LYS:HA	41:HU:72:ARG:NH2	2.30	0.46
1:IA:1206:G:H4'	3:IC:192:THR:C	2.36	0.46
1:IA:532:A:N6	1:IA:1206:G:HO2'	2.13	0.46
1:IA:1238:A:C2'	1:IA:1239:A:H5'	2.46	0.46
1:IA:1369:C:H2'	1:IA:1370:G:O4'	2.15	0.46
1:IA:1433:A:H2'	1:IA:1434:A:O4'	2.16	0.46
1:IA:927:G:C5'	1:IA:1503:A:P	3.03	0.46
1:IA:589:C:H4'	8:IH:30:ARG:CA	2.45	0.46
1:IA:729:A:H2'	1:IA:730:G:H8	1.80	0.46
1:IA:833:U:H2'	1:IA:834:C:C5	2.50	0.46
1:IA:891:U:H2'	1:IA:892:A:C8	2.51	0.46
1:IA:894:G:H2'	1:IA:895:G:C8	2.51	0.46
1:IA:955:U:H5'	13:IM:120:LYS:CE	2.46	0.46
1:IA:966:G:H2'	1:IA:967:C:C6	2.50	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:IB:121:LEU:HA	2:IB:124:SER:OG	2.16	0.46
3:IC:59:ARG:HA	3:IC:64:VAL:HA	1.98	0.46
1:IA:543:C:OP2	4:ID:10:ARG:HD2	2.16	0.46
4:ID:97:LEU:HA	4:ID:100:ARG:CD	2.45	0.46
6:IF:71:ARG:O	6:IF:75:LEU:HB2	2.15	0.46
1:IA:1115:C:H5'	10:IJ:46:ARG:NH2	2.30	0.46
12:IL:45:PRO:HD2	12:IL:49:ASN:O	2.15	0.46
1:IA:127:G:C4'	17:IQ:4:LYS:NZ	2.70	0.46
13:IM:87:TYR:HB2	19:IS:76:PRO:HD3	1.97	0.46
50:J4:21:ARG:HG3	50:J4:31:LEU:HB2	1.98	0.46
51:J5:24:ALA:HB3	51:J5:48:PHE:HA	1.97	0.46
52:J6:17:VAL:HG12	52:J6:19:ARG:HG3	1.98	0.46
53:J7:47:LYS:HG2	53:J7:159:THR:CB	2.43	0.46
22:JB:1364:C:O4'	22:JB:1587:A:O2'	2.33	0.46
22:JB:1698:C:H1'	22:JB:1754:G:C8	2.50	0.46
22:JB:2261:G:N2	22:JB:2404:A:C8	2.83	0.46
22:JB:2406:C:OP1	22:JB:2408:G:O5'	2.33	0.46
22:JB:2479:U:H2'	22:JB:2483:U:O4	2.16	0.46
22:JB:2486:C:H4'	22:JB:2552:C:H42	1.80	0.46
22:JB:2565:C:H2'	22:JB:2566:A:N3	2.30	0.46
22:JB:545:C:H2'	22:JB:546:A:C8	2.50	0.46
22:JB:57:G:OP2	41:JU:73:ASN:C	2.54	0.46
22:JB:63:A:C4	41:JU:62:ARG:CG	2.65	0.46
22:JB:690:A:O2'	22:JB:2054:A:H5'	2.16	0.46
22:JB:1790:G:H22	24:JD:180:GLY:N	2.14	0.46
22:JB:2578:G:C8	24:JD:235:GLY:O	2.53	0.46
22:JB:2490:U:C4'	25:JE:124:GLY:HA3	2.36	0.46
35:JO:45:ARG:O	35:JO:47:PHE:N	2.43	0.46
35:JO:99:ARG:HD2	35:JO:99:ARG:H	1.81	0.46
40:JT:127:ILE:HD13	40:JT:128:VAL:N	2.31	0.46
41:JU:46:PHE:CE1	41:JU:91:LEU:HD21	2.50	0.46
44:JX:30:VAL:HG12	44:JX:66:LYS:CE	2.44	0.46
44:JX:30:VAL:HG22	44:JX:64:ASP:N	2.31	0.46
45:JY:48:ARG:HD3	45:JY:51:ALA:CB	2.45	0.46
1:AA:1226:C:H4'	1:AA:1227:A:OP1	2.16	0.46
1:AA:1277:C:O2'	1:AA:1278:U:H5'	2.16	0.46
1:AA:407:G:H1'	4:AD:116:GLN:NE2	2.30	0.46
1:AA:544:G:H2'	1:AA:545:C:C6	2.51	0.46
1:AA:616:G:H1	1:AA:624:C:N4	2.13	0.46
1:AA:891:U:H2'	1:AA:892:A:C8	2.51	0.46
1:AA:959:A:H2'	1:AA:960:U:H4'	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AB:31:TYR:OH	2:AB:50:GLU:HG2	2.16	0.46
2:AB:99:GLY:H	2:AB:101:MET:CE	2.29	0.46
3:AC:189:ALA:HB3	3:AC:196:LEU:H	1.81	0.46
3:AC:22:TRP:CZ2	3:AC:33:LEU:HG	2.51	0.46
1:AA:1350:A:C8	9:AI:118:LYS:HD3	2.49	0.46
9:AI:95:LYS:C	9:AI:98:PRO:HD2	2.35	0.46
1:AA:1279:A:N6	10:AJ:43:ARG:CZ	2.79	0.46
10:AJ:7:LYS:HA	10:AJ:71:LEU:HA	1.97	0.46
12:AL:102:ARG:HB2	12:AL:110:VAL:CG2	2.40	0.46
1:AA:1228:C:H6	13:AM:117:VAL:CG1	2.29	0.46
13:AM:89:GLY:H	13:AM:90:LEU:N	2.14	0.46
1:AA:659:U:C5'	15:AO:5:LYS:HE3	2.45	0.46
19:AS:16:LEU:CA	19:AS:19:VAL:HG12	2.43	0.46
1:AA:1320:C:C1'	19:AS:73:GLU:N	2.51	0.46
20:AT:13:LEU:HD23	20:AT:16:HIS:HB3	1.96	0.46
48:B2:6:VAL:HB	48:B2:7:PRO:HD2	1.98	0.46
49:B3:16:ALA:HB2	49:B3:50:PHE:CD1	2.51	0.46
51:B5:24:ALA:HB3	51:B5:48:PHE:HA	1.97	0.46
53:B7:155:VAL:HG11	53:B7:169:ILE:HA	1.97	0.46
53:B7:64:VAL:HG12	53:B7:65:LEU:N	2.31	0.46
22:BB:1041:G:C4	52:B6:6:SER:O	2.50	0.46
22:BB:1042:G:H21	52:B6:22:ARG:C	2.19	0.46
22:BB:105:G:N2	22:BB:356:A:C2	2.84	0.46
22:BB:124:A:H2'	22:BB:125:A:C2	2.51	0.46
22:BB:1254:G:H2'	22:BB:1255:A:C4	2.49	0.46
22:BB:1333:G:H2'	22:BB:1334:A:H5''	1.98	0.46
22:BB:147:G:C2'	22:BB:147:G:N3	2.71	0.46
22:BB:1652:G:H21	22:BB:1752:U:C4'	2.27	0.46
22:BB:3093:C:C1'	22:BB:2181:A:H61	2.26	0.46
22:BB:971:A:H4'	22:BB:2435:C:O2'	2.16	0.46
22:BB:2462:C:HO2'	34:BN:50:ALA:CB	1.25	0.46
22:BB:2479:U:H2'	22:BB:2483:U:O4	2.16	0.46
22:BB:2802:C:O2'	22:BB:2803:C:H5'	2.16	0.46
22:BB:2826:C:HO2'	35:BO:60:LEU:CD2	1.94	0.46
22:BB:333:A:O2'	22:BB:350:U:H2'	2.15	0.46
22:BB:422:C:H2'	22:BB:423:G:H8	1.80	0.46
22:BB:513:A:H1'	22:BB:515:A:N7	2.30	0.46
22:BB:797:A:P	22:BB:2567:G:H5''	2.56	0.46
22:BB:964:A:O2'	22:BB:965:G:H5'	2.16	0.46
22:BB:968:C:C6	34:BN:77:LYS:HE2	2.50	0.46
22:BB:971:A:H2'	22:BB:973:U:C6	2.51	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BD:166:GLN:HB2	24:BD:174:ILE:HA	1.98	0.46
24:BD:64:ILE:HG22	24:BD:65:ILE:N	2.31	0.46
22:BB:2557:G:C2'	25:BE:133:LYS:CE	2.94	0.46
26:BF:97:ARG:HD2	26:BF:100:ARG:NH2	2.31	0.46
28:BH:62:ARG:HA	28:BH:65:HIS:O	2.15	0.46
30:BJ:106:GLU:O	30:BJ:107:ILE:HD13	2.15	0.46
33:BM:90:ARG:HG3	33:BM:93:LEU:H	1.80	0.46
25:BE:181:LEU:CA	37:BQ:12:LEU:HD21	2.46	0.46
37:BQ:5:ILE:CD1	37:BQ:6:LYS:H	2.29	0.46
40:BT:49:SER:O	40:BT:51:GLN:HG3	2.16	0.46
43:BW:147:ILE:HG23	43:BW:147:ILE:O	2.16	0.46
43:BW:67:LYS:HD3	43:BW:83:PHE:N	2.31	0.46
1:CA:1001:A:N6	1:CA:1003:G:H21	2.13	0.46
1:CA:1017:G:H2'	1:CA:1018:C:C6	2.51	0.46
1:CA:544:G:H2'	1:CA:545:C:C6	2.51	0.46
1:CA:768:A:H2'	1:CA:769:G:H8	1.81	0.46
1:CA:891:U:H2'	1:CA:892:A:C8	2.51	0.46
1:CA:894:G:H2'	1:CA:895:G:C8	2.51	0.46
2:CB:122:PHE:O	2:CB:127:ILE:HD11	2.16	0.46
7:CG:70:LYS:HG2	7:CG:96:GLN:OE1	2.15	0.46
9:CI:48:GLU:H	9:CI:78:LYS:NZ	2.13	0.46
13:CM:83:ASP:HB3	22:DB:900(A):A:P	2.55	0.46
16:CP:81:ARG:HA	16:CP:81:ARG:NE	2.31	0.46
19:CS:36:ARG:HH21	19:CS:53:ASN:ND2	2.13	0.46
1:CA:186:C:O4'	20:CT:78:ALA:HB2	2.16	0.46
22:DB:225:G:C2'	47:D1:28:ARG:HG2	2.39	0.46
22:DB:1042:G:OP1	52:D6:8:LYS:HE2	2.15	0.46
53:D7:58:PRO:HD2	53:D7:153:ARG:HB2	1.97	0.46
22:DB:931:G:H4'	23:DA:83:C:C4'	2.46	0.46
22:DB:1698:C:H1'	22:DB:1754:G:C8	2.51	0.46
22:DB:174:A:H3'	22:DB:175:C:C6	2.51	0.46
22:DB:2006:G:N2	22:DB:2024:U:H1'	2.31	0.46
22:DB:2505:G:H2'	22:DB:2506:C:O4'	2.15	0.46
22:DB:38:G:H1'	26:DF:42:THR:HB	1.94	0.46
22:DB:340:G:O5'	22:DB:488:A:H1'	2.16	0.46
22:DB:696:U:C3'	50:D4:16:HIS:HD1	2.28	0.46
22:DB:916:U:O4'	43:DW:163:ASP:CA	2.63	0.46
22:DB:934:G:N3	44:DX:23:VAL:HB	2.30	0.46
22:DB:2598:C:H5''	25:DE:152:LYS:CE	2.44	0.46
25:DE:29:GLY:HA2	25:DE:90:SER:HB2	1.98	0.46
22:DB:628:A:OP1	26:DF:100:ARG:NH1	2.47	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:DF:40:ARG:NH1	26:DF:40:ARG:HB3	2.31	0.46
22:DB:2291:U:C5'	27:DG:85:VAL:HG23	2.36	0.46
30:DJ:111:LYS:HD3	30:DJ:123:ALA:O	2.15	0.46
31:DK:77:GLY:CA	31:DK:147:ARG:HH22	2.20	0.46
33:DM:18:ARG:HG2	33:DM:19:VAL:H	1.80	0.46
22:DB:675:C:H4'	33:DM:26:THR:CA	2.13	0.46
34:DN:127:PRO:HB2	43:DW:74:ARG:HH11	1.81	0.46
34:DN:30:PHE:HE2	34:DN:101:GLY:HA3	1.80	0.46
37:DQ:23:GLN:HE21	37:DQ:23:GLN:HB3	1.52	0.46
40:DT:49:SER:O	40:DT:51:GLN:HG3	2.16	0.46
40:DT:56:LEU:O	40:DT:56:LEU:HD23	2.16	0.46
44:DX:74:LYS:HD2	44:DX:75:GLY:N	2.30	0.46
1:EA:1132:C:O2'	1:EA:1133:G:H5'	2.16	0.46
1:EA:1239:A:H2'	1:EA:1298:C:N4	2.30	0.46
1:EA:1382:C:C3'	7:EG:79:ARG:CZ	2.94	0.46
1:EA:1440:C:C4	1:EA:1441:G:H1'	2.51	0.46
1:EA:332:G:H2'	1:EA:333:G:C8	2.51	0.46
1:EA:959:A:H2'	1:EA:960:U:H4'	1.98	0.46
1:EA:968:A:H2'	9:EI:128:ARG:CD	2.46	0.46
2:EB:166:ASP:HB2	2:EB:205:ASP:CB	2.44	0.46
4:ED:61:LYS:HZ1	4:ED:62:GLN:CA	2.28	0.46
5:EE:104:ALA:HA	5:EE:107:ARG:CZ	2.45	0.46
5:EE:121:LYS:HG3	5:EE:123:LEU:HG	1.98	0.46
7:EG:13:GLN:CG	9:EI:42:ARG:CZ	2.88	0.46
7:EG:16:LEU:CB	9:EI:41:VAL:CA	2.94	0.46
10:EJ:33:GLN:O	10:EJ:33:GLN:HG2	2.16	0.46
51:F5:62:LEU:O	51:F5:63:PRO:C	2.54	0.46
52:F6:17:VAL:HG12	52:F6:19:ARG:HG3	1.98	0.46
53:F7:47:LYS:HG2	53:F7:159:THR:CB	2.43	0.46
23:FA:48:A:H2'	23:FA:48:A:N3	2.29	0.46
22:FB:1139:A:H61	22:FB:2469:G:C5'	2.28	0.46
22:FB:1175:A:C4'	39:FS:89:ASN:HD22	2.22	0.46
22:FB:1326:U:OP1	22:FB:1345:G:H4'	2.15	0.46
22:FB:1348:C:H2'	22:FB:1349:A:C8	2.51	0.46
22:FB:119:G:H4'	22:FB:143:A:OP1	2.16	0.46
22:FB:116:A:H5'	22:FB:155:G:H4'	1.98	0.46
22:FB:1583:A:H4'	22:FB:1584:G:C2	2.51	0.46
22:FB:2293:G:O2'	27:FG:33:LYS:NZ	2.32	0.46
22:FB:2260:C:C4'	22:FB:2368:G:C2	2.82	0.46
22:FB:2395:C:H2'	22:FB:2396:C:H5'	1.97	0.46
22:FB:2637:C:C5	28:FH:180:GLY:O	2.69	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:FB:422:C:H2'	22:FB:423:G:H8	1.80	0.46
22:FB:470:U:O2'	41:FU:68:PHE:CZ	2.55	0.46
22:FB:687:G:H5''	26:FF:70:GLY:CA	2.45	0.46
25:FE:32:PRO:O	25:FE:33:ILE:HB	2.16	0.46
25:FE:30:PRO:HB2	25:FE:49:ILE:H	1.79	0.46
26:FF:97:ARG:HD2	26:FF:100:ARG:NH2	2.31	0.46
27:FG:70:ALA:O	27:FG:71:LYS:HG2	2.15	0.46
28:FH:149:ARG:HD2	28:FH:149:ARG:N	2.31	0.46
28:FH:89:LEU:HD22	28:FH:161:GLY:HA2	1.97	0.46
30:FJ:41:PHE:HA	30:FJ:45:THR:OG1	2.16	0.46
30:FJ:72:PRO:C	30:FJ:74:MET:H	2.17	0.46
31:FK:104:THR:OG1	31:FK:110:LEU:HD22	2.15	0.46
31:FK:77:GLY:CA	31:FK:147:ARG:HH22	2.20	0.46
32:FL:23:ARG:NH2	32:FL:24:VAL:HG12	2.30	0.46
33:FM:114:ILE:HB	33:FM:135:ALA:HB1	1.98	0.46
34:FN:105:PHE:HE1	34:FN:115:ALA:HB2	1.81	0.46
34:FN:65:ILE:HG22	34:FN:106:GLU:OE1	2.15	0.46
34:FN:71:PRO:HA	34:FN:95:VAL:HG12	1.98	0.46
22:FB:2254:C:H1'	34:FN:86:LYS:CD	2.36	0.46
22:FB:29:U:C4'	38:FR:8:ILE:HD13	2.42	0.46
23:FA:84:G:C4'	46:FZ:46:THR:O	2.63	0.46
1:GA:102:G:H2'	1:GA:103:C:C6	2.51	0.46
1:GA:1127:G:N2	1:GA:1147:C:H42	2.13	0.46
1:GA:1374:A:H2'	7:GG:29:LYS:HE3	1.98	0.46
1:GA:252:U:H2'	1:GA:253:U:C6	2.50	0.46
1:GA:331:G:H5''	1:GA:332:G:H5'	1.98	0.46
1:GA:489:C:H2'	1:GA:490:G:C8	2.51	0.46
1:GA:719:C:O2'	18:GR:49:LYS:HG2	2.15	0.46
1:GA:768:A:H2'	1:GA:769:G:H8	1.81	0.46
1:GA:835:U:H5'	18:GR:64:ARG:NH2	2.30	0.46
2:GB:99:GLY:H	2:GB:101:MET:CE	2.29	0.46
3:GC:37:GLN:CD	3:GC:37:GLN:H	2.19	0.46
5:GE:72:GLN:C	5:GE:74:GLY:H	2.18	0.46
6:GF:71:ARG:O	6:GF:75:LEU:HB2	2.15	0.46
7:GG:150:ALA:HB1	11:GK:59:TYR:HB2	1.94	0.46
7:GG:21:VAL:HG23	7:GG:22:LEU:HD12	1.97	0.46
10:GJ:5:ARG:HB3	10:GJ:99:LYS:HB2	1.98	0.46
10:GJ:60:ARG:O	10:GJ:61:GLU:CB	2.64	0.46
17:GQ:64:PRO:HA	17:GQ:70:ARG:HG3	1.98	0.46
1:GA:1320:C:O2'	19:GS:73:GLU:CB	2.64	0.46
49:H3:16:ALA:HB2	49:H3:50:PHE:CD1	2.51	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
53:H7:13:LYS:HD3	53:H7:177:GLU:OE2	2.15	0.46
53:H7:148:ILE:O	53:H7:152:LYS:HG3	2.15	0.46
53:H7:47:LYS:HG2	53:H7:159:THR:CB	2.43	0.46
22:HB:1143:A:H5''	22:HB:1144:U:OP2	2.15	0.46
22:HB:1173:G:H2'	22:HB:1174:G:C8	2.51	0.46
22:HB:1268:U:H5'	22:HB:1269:G:C4'	2.46	0.46
22:HB:1423:A:H2'	22:HB:1424:U:C6	2.51	0.46
22:HB:2062:U:HO2'	47:H1:32:HIS:CG	2.07	0.46
22:HB:2343:C:H5''	44:HX:40:GLN:CG	2.41	0.46
22:HB:2344:G:C4'	44:HX:66:LYS:HG2	2.45	0.46
22:HB:2:G:N2	22:HB:2876:C:C5	2.76	0.46
22:HB:3109:U:H2'	22:HB:3110:G:H5'	1.98	0.46
22:HB:422:C:H2'	22:HB:423:G:H8	1.79	0.46
22:HB:578:U:H2'	22:HB:579:G:O4'	2.15	0.46
22:HB:677:G:C4	22:HB:678:G:C8	3.03	0.46
22:HB:690:A:O3'	22:HB:2054:A:H4'	2.15	0.46
24:HD:133:LEU:HD23	24:HD:189:CYS:O	2.16	0.46
24:HD:213:ARG:HE	24:HD:219:PRO:CA	2.24	0.46
24:HD:22:SER:HA	24:HD:207:GLY:N	2.31	0.46
28:HH:89:LEU:HD22	28:HH:161:GLY:HA2	1.97	0.46
29:HI:4:ILE:HA	29:HI:16:GLU:H	1.79	0.46
32:HL:88:THR:O	37:HQ:81:PHE:HD2	1.97	0.46
34:HN:73:LYS:HB3	34:HN:94:TRP:N	2.06	0.46
37:HQ:32:THR:H	37:HQ:56:ALA:HB1	1.81	0.46
43:HW:96:VAL:HA	43:HW:97:PRO:HD2	1.37	0.46
1:IA:1050:G:H2'	1:IA:1051:C:C6	2.51	0.46
1:IA:1124:G:H2'	1:IA:1126:U:O4	2.15	0.46
1:IA:1226:C:N4	13:IM:104:ARG:HD2	2.31	0.46
1:IA:1281:U:HO2'	1:IA:1282:C:P	2.39	0.46
1:IA:1475:G:H2'	1:IA:1476:G:C8	2.51	0.46
1:IA:332:G:H2'	1:IA:333:G:C8	2.51	0.46
1:IA:382:A:H2'	1:IA:383:A:C8	2.51	0.46
1:IA:451:A:H5'	16:IP:72:ARG:HH12	1.81	0.46
1:IA:53:A:H2'	1:IA:54:C:O4'	2.15	0.46
1:IA:658:G:N3	15:IO:22:THR:HG21	2.30	0.46
1:IA:691:G:P	11:IK:26:ASN:OD1	2.74	0.46
1:IA:826:C:H4'	8:IH:12:ARG:CA	2.22	0.46
1:IA:833:U:H2'	1:IA:834:C:C6	2.51	0.46
1:IA:959:A:H2'	1:IA:960:U:H4'	1.98	0.46
1:IA:968:A:C8	9:II:128:ARG:CG	2.96	0.46
4:ID:114:ARG:HA	4:ID:117:ALA:HB3	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:IA:620:C:H5'	4:ID:138:TYR:CZ	2.51	0.46
5:IE:92:LYS:C	5:IE:92:LYS:HD3	2.37	0.46
1:IA:1148:U:C5'	9:II:14:VAL:CB	2.69	0.46
11:IK:27:ASN:CG	11:IK:28:THR:H	2.18	0.46
22:JB:1143:A:H5''	22:JB:1144:U:OP2	2.15	0.46
22:JB:1309:G:O6	22:JB:1661:C:N4	2.39	0.46
22:JB:1470:G:N9	35:JO:60:LEU:CD1	2.40	0.46
22:JB:1790:G:H22	24:JD:180:GLY:H	1.64	0.46
22:JB:1840:A:H2'	22:JB:1841:G:O4'	2.15	0.46
22:JB:226:C:HO2'	22:JB:2373:C:C4'	2.29	0.46
22:JB:2015:G:OP2	22:JB:2433:G:O2'	2.33	0.46
22:JB:2491:C:O2	25:JE:141:ILE:HA	2.16	0.46
22:JB:2637:C:H2'	28:JH:178:ALA:O	2.15	0.46
22:JB:2754:C:H2'	22:JB:2755:A:O4'	2.16	0.46
22:JB:3867:G:N7	22:JB:3875:A:N6	2.63	0.46
22:JB:578:U:H2'	22:JB:579:G:O4'	2.15	0.46
22:JB:690:A:O3'	22:JB:2054:A:H4'	2.15	0.46
22:JB:700:C:H42	22:JB:800:U:C4'	2.27	0.46
22:JB:827:C:N4	33:JM:32:ARG:HD2	2.30	0.46
22:JB:912:A:H2'	22:JB:913:A:O4'	2.16	0.46
22:JB:941:U:C4'	46:JZ:24:GLY:H	2.28	0.46
24:JD:136:VAL:HG11	24:JD:165:VAL:HG21	1.98	0.46
22:JB:1809:G:C3'	24:JD:156:ALA:HB3	2.46	0.46
22:JB:2490:U:H5'	25:JE:124:GLY:C	2.35	0.46
25:JE:4:ILE:HG23	25:JE:4:ILE:O	2.16	0.46
25:JE:59:VAL:HG12	25:JE:60:ASN:H	1.81	0.46
27:JG:87:ILE:HB	27:JG:88:LYS:H	1.37	0.46
28:JH:62:ARG:HA	28:JH:65:HIS:O	2.15	0.46
31:JK:104:THR:OG1	31:JK:110:LEU:HD22	2.15	0.46
22:JB:884:C:C4'	34:JN:70:PHE:CD2	2.96	0.46
23:JA:48:A:H1'	36:JP:4:ALA:HB3	1.98	0.46
22:JB:543:G:C4'	38:JR:22:LYS:NZ	2.48	0.46
38:JR:31:GLN:OE1	38:JR:34:ASN:HB2	2.16	0.46
39:JS:65:ARG:C	39:JS:93:ILE:HG23	2.37	0.46
22:JB:1200:G:C5'	39:JS:84:THR:HG21	2.43	0.46
40:JT:55:ASP:HA	40:JT:59:PHE:H	1.80	0.46
34:JN:36:ILE:CD1	43:JW:74:ARG:NH2	2.78	0.46
22:JB:2364:C:C2'	44:JX:37:LEU:HD21	2.44	0.46
46:JZ:51:LEU:CD2	46:JZ:52:GLU:H	2.29	0.46
1:AA:1082:G:O2'	1:AA:1083:U:H5'	2.16	0.46
1:AA:1419:G:N2	1:AA:1482:G:H1'	2.30	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1447:A:N6	1:AA:1457:A:N7	2.64	0.46
1:AA:1451:A:H4'	1:AA:1452:C:OP2	2.16	0.46
1:AA:344:A:H4'	1:AA:345:C:OP2	2.16	0.46
1:AA:423:G:H2'	1:AA:424:G:O4'	2.16	0.46
1:AA:528:C:H41	12:AL:46:LYS:CD	2.29	0.46
1:AA:545:C:OP1	4:AD:72:GLU:HB2	2.16	0.46
1:AA:768:A:H2'	1:AA:769:G:H8	1.81	0.46
1:AA:894:G:H2'	1:AA:895:G:C8	2.51	0.46
2:AB:122:PHE:O	2:AB:127:ILE:HD11	2.16	0.46
3:AC:58:GLU:CB	10:AJ:92:THR:CB	2.89	0.46
4:AD:61:LYS:HZ3	4:AD:62:GLN:HE21	1.64	0.46
1:AA:19:C:P	5:AE:130:ASN:ND2	2.89	0.46
7:AG:21:VAL:HG23	7:AG:22:LEU:HD12	1.97	0.46
1:AA:1092:A:H5'	7:AG:4:ARG:HD2	1.83	0.46
8:AH:121:ASP:HA	8:AH:124:ALA:HB3	1.98	0.46
9:AI:48:GLU:H	9:AI:78:LYS:NZ	2.13	0.46
9:AI:65:VAL:HG22	9:AI:73:GLN:NE2	2.31	0.46
10:AJ:8:LEU:HB2	10:AJ:70:ARG:HG2	1.98	0.46
13:AM:88:ARG:HG2	13:AM:91:ARG:CG	2.46	0.46
1:AA:739:C:H4'	15:AO:41:GLU:CD	2.36	0.46
22:BB:1135:C:C2'	52:B6:36:GLN:HB2	2.46	0.46
53:B7:58:PRO:HD2	53:B7:153:ARG:HB2	1.97	0.46
23:BA:96:C:H2'	23:BA:97:C:H6	1.81	0.46
22:BB:1326:U:OP1	22:BB:1345:G:H4'	2.15	0.46
22:BB:133:C:N3	22:BB:138:G:N1	2.64	0.46
22:BB:1689:U:H2'	22:BB:1690:U:C5	2.51	0.46
22:BB:1804:U:H1'	24:BD:46:ARG:HB2	0.96	0.46
22:BB:1872:A:N3	22:BB:1872:A:H2'	2.30	0.46
22:BB:1883:A:C5	22:BB:1953:A:C5	3.03	0.46
22:BB:2481:G:H5''	22:BB:2482:A:C4'	2.46	0.46
22:BB:2537:C:O2'	22:BB:2538:C:H5'	2.16	0.46
22:BB:1727:C:C5'	22:BB:2833:C:O2	2.58	0.46
22:BB:3109:U:H2'	22:BB:3110:G:H5'	1.97	0.46
22:BB:3196:G:N2	22:BB:2181:A:N6	2.51	0.46
22:BB:3866:A:H8	53:B7:43:LYS:HG2	1.72	0.46
22:BB:51:A:N9	22:BB:155:G:N2	2.46	0.46
22:BB:82:G:O2'	22:BB:83:A:H5'	2.16	0.46
24:BD:185:VAL:HG12	24:BD:186:HIS:O	2.16	0.46
22:BB:1954:A:H8	24:BD:238:GLY:O	1.90	0.46
24:BD:263:ARG:HG2	24:BD:264:LYS:N	2.30	0.46
24:BD:48:ARG:N	24:BD:48:ARG:NE	2.64	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BD:72:LYS:HG2	24:BD:119:ALA:O	2.16	0.46
30:BJ:111:LYS:HD3	30:BJ:124:ALA:HA	1.98	0.46
22:BB:648:A:C2	33:BM:109:LEU:C	2.89	0.46
22:BB:1163:C:H5'	38:BR:80:ILE:HB	1.97	0.46
41:BU:88:ILE:CG2	41:BU:89:GLU:H	2.24	0.46
1:CA:1050:G:H2'	1:CA:1051:C:C6	2.51	0.46
1:CA:1239:A:H2'	1:CA:1298:C:N4	2.30	0.46
1:CA:1277:C:O2'	1:CA:1278:U:H5'	2.16	0.46
1:CA:1408:A:H1'	1:CA:1494:G:H22	1.79	0.46
1:CA:1433:A:H2'	1:CA:1434:A:O4'	2.16	0.46
1:CA:1440:C:C4	1:CA:1441:G:H1'	2.51	0.46
1:CA:252:U:H2'	1:CA:253:U:C6	2.50	0.46
1:CA:616:G:H1	1:CA:624:C:N4	2.13	0.46
3:CC:189:ALA:HB3	3:CC:196:LEU:H	1.81	0.46
4:CD:169:LYS:HD2	4:CD:169:LYS:H	1.80	0.46
4:CD:24:GLU:CG	4:CD:27:TYR:HB3	2.42	0.46
1:CA:1350:A:H62	9:CI:118:LYS:CE	2.26	0.46
14:CN:23:ARG:C	14:CN:33:VAL:HG11	2.37	0.46
20:CT:15:ARG:O	20:CT:15:ARG:HD3	2.16	0.46
47:D1:57:ASP:CB	47:D1:60:ASN:HB2	2.45	0.46
51:D5:12:ARG:HB3	51:D5:12:ARG:NH2	2.30	0.46
53:D7:121:GLY:O	53:D7:126:PRO:HD2	2.15	0.46
53:D7:21:ASN:ND2	53:D7:22:VAL:H	2.13	0.46
23:DA:31:A:H2'	23:DA:32:C:H6	1.80	0.46
22:DB:1163:C:C1'	38:DR:78:THR:CB	2.91	0.46
22:DB:1239:A:P	39:DS:73:LYS:CE	2.96	0.46
22:DB:1333:G:H2'	22:DB:1334:A:H5''	1.98	0.46
22:DB:139:A:H2'	22:DB:139:A:N3	2.31	0.46
22:DB:1463:A:N6	22:DB:1477:C:N4	2.64	0.46
22:DB:16:G:H4'	48:D2:17:ASP:HB2	1.95	0.46
22:DB:2265:A:OP1	22:DB:2266:A:H5'	2.15	0.46
22:DB:2308:A:H2'	22:DB:2309:G:C8	2.50	0.46
22:DB:2395:C:OP2	33:DM:62:LYS:O	2.33	0.46
22:DB:2479:U:H2'	22:DB:2483:U:O4	2.16	0.46
22:DB:2537:C:O2'	22:DB:2538:C:H5'	2.16	0.46
22:DB:2565:C:H2'	22:DB:2566:A:N3	2.30	0.46
22:DB:3106:U:H2'	22:DB:3107:G:O2'	2.15	0.46
22:DB:513:A:H1'	22:DB:515:A:N7	2.30	0.46
22:DB:552:C:H2'	22:DB:553:C:C4'	2.17	0.46
22:DB:69:G:HO3'	22:DB:70:A:P	2.34	0.46
22:DB:797:A:P	22:DB:2567:G:H5''	2.56	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:DD:133:LEU:HD23	24:DD:189:CYS:O	2.16	0.46
22:DB:1834:G:H4'	24:DD:244:ARG:CG	2.43	0.46
22:DB:3094:A:P	29:DI:20:VAL:O	2.72	0.46
29:DI:4:ILE:HG22	29:DI:5:LEU:N	2.31	0.46
31:DK:100:TYR:O	31:DK:101:THR:HG22	2.15	0.46
31:DK:56:THR:C	31:DK:58:ILE:H	2.18	0.46
32:DL:91:PHE:CG	37:DQ:79:ARG:CD	2.62	0.46
22:DB:2448:A:C5'	34:DN:58:HIS:HE1	2.24	0.46
22:DB:2856:U:C5'	35:DO:93:GLY:C	2.85	0.46
36:DP:20:THR:HG23	36:DP:46:SER:HB2	1.98	0.46
1:CA:1433:A:C4'	37:DQ:116:ARG:NH1	2.73	0.46
1:EA:1277:C:O2'	1:EA:1278:U:H5'	2.16	0.46
1:EA:252:U:H2'	1:EA:253:U:C6	2.50	0.46
1:EA:276:G:H2'	1:EA:277:C:O4'	2.15	0.46
1:EA:46:G:O2'	1:EA:365:U:H1'	2.16	0.46
1:EA:407:G:C1'	4:ED:116:GLN:CD	2.72	0.46
1:EA:778:G:H1'	11:EK:120:ARG:H	1.79	0.46
1:EA:891:U:H2'	1:EA:892:A:C8	2.51	0.46
1:EA:894:G:H2'	1:EA:895:G:C8	2.51	0.46
2:EB:92:TYR:O	2:EB:152:PHE:HB2	2.16	0.46
3:EC:8:ILE:HA	3:EC:11:ARG:CZ	2.46	0.46
3:EC:148:GLY:HA2	3:EC:170:GLN:O	2.15	0.46
14:EN:23:ARG:C	14:EN:33:VAL:HG11	2.36	0.46
17:EQ:64:PRO:HA	17:EQ:70:ARG:HG3	1.98	0.46
20:ET:15:ARG:O	20:ET:15:ARG:HD3	2.16	0.46
22:FB:2412:A:C2	47:F1:30:GLU:HA	2.50	0.46
22:FB:2591:C:O2	48:F2:2:ALA:C	2.55	0.46
22:FB:1628:C:O3'	50:F4:3:ARG:HG2	2.04	0.46
50:F4:6:GLN:CD	50:F4:7:PRO:HD2	2.35	0.46
51:F5:3:LYS:HE3	51:F5:62:LEU:HD12	1.98	0.46
53:F7:208:THR:HG22	53:F7:209:MSE:HG3	1.98	0.46
23:FA:79:U:H2'	23:FA:80:A:H8	1.79	0.46
22:FB:1003:C:N3	22:FB:1174:G:N2	2.63	0.46
22:FB:2372:A:N3	33:FM:59:ARG:CZ	2.79	0.46
22:FB:2479:U:H2'	22:FB:2483:U:O4	2.16	0.46
22:FB:2481:G:H5''	22:FB:2482:A:C4'	2.46	0.46
22:FB:2565:C:H2'	22:FB:2566:A:N3	2.30	0.46
22:FB:2773:G:N3	22:FB:2780:A:C2'	2.78	0.46
22:FB:2789:U:C5	22:FB:2790:C:H1'	2.50	0.46
22:FB:3140:G:H2'	22:FB:3141:G:C8	2.51	0.46
22:FB:340:G:C5	42:FV:28:LYS:CB	2.99	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:FB:416:U:H5'	22:FB:419:G:O2'	2.16	0.46
22:FB:4:C:N4	22:FB:2874:A:H61	2.13	0.46
22:FB:677:G:H4'	22:FB:951:G:H5'	1.96	0.46
22:FB:677:G:O3'	22:FB:678:G:O5'	2.31	0.46
22:FB:845:U:O2'	22:FB:846:A:H5'	2.16	0.46
24:FD:154:GLN:HB3	24:FD:155:LEU:H	1.50	0.46
22:FB:2033:C:O2	25:FE:156:MET:SD	2.73	0.46
25:FE:4:ILE:O	25:FE:4:ILE:HG23	2.16	0.46
26:FF:151:VAL:HG11	26:FF:188:ILE:HG23	1.98	0.46
28:FH:50:LEU:CG	28:FH:69:ARG:HD2	2.46	0.46
29:FI:4:ILE:HG22	29:FI:5:LEU:N	2.31	0.46
22:FB:1666:G:C2	35:FO:106:ASP:HB3	2.39	0.46
36:FP:13:THR:O	36:FP:17:VAL:HG12	2.16	0.46
37:FQ:36:ASP:O	37:FQ:38:LYS:HE2	2.16	0.46
22:FB:591:G:C4'	38:FR:11:ARG:NH1	2.78	0.46
22:FB:2003:A:H4'	38:FR:25:TRP:HZ2	1.79	0.46
39:FS:65:ARG:C	39:FS:93:ILE:HG23	2.37	0.46
40:FT:27:VAL:HB	40:FT:125:THR:HA	1.98	0.46
22:FB:497:C:C2'	40:FT:77:ALA:O	2.63	0.46
1:GA:1050:G:H2'	1:GA:1051:C:C6	2.51	0.46
1:GA:1067:A:N1	1:GA:1109:C:H5'	2.30	0.46
1:GA:1132:C:O2'	1:GA:1133:G:H5'	2.16	0.46
1:GA:1238:A:C2'	1:GA:1239:A:H5'	2.46	0.46
1:GA:1346:A:C5'	9:GI:120:ARG:HH12	2.28	0.46
1:GA:1356:G:O2'	1:GA:1357:A:H5'	2.16	0.46
1:GA:332:G:H2'	1:GA:333:G:C8	2.51	0.46
1:GA:631:G:H5''	1:GA:632:A:OP1	2.15	0.46
1:GA:833:U:H2'	1:GA:834:C:C5	2.50	0.46
2:GB:31:TYR:OH	2:GB:50:GLU:HG2	2.16	0.46
7:GG:73:MET:HG3	7:GG:144:MET:O	2.16	0.46
12:GL:18:VAL:HG12	12:GL:21:LYS:HE3	1.98	0.46
1:GA:951:G:N3	13:GM:126:LYS:HA	2.31	0.46
1:GA:740:U:H1'	15:GO:46:HIS:HD2	1.79	0.46
17:GQ:7:THR:HG22	17:GQ:56:VAL:HG12	1.98	0.46
20:GT:10:LEU:HD13	20:GT:11:SER:N	2.31	0.46
22:HB:2209:G:H4'	47:H1:39:VAL:HG21	1.97	0.46
48:H2:6:VAL:HB	48:H2:7:PRO:HD2	1.98	0.46
53:H7:147:TYR:O	53:H7:151:PHE:HB2	2.16	0.46
53:H7:174:MSE:HG2	53:H7:175:LYS:HD2	1.96	0.46
22:HB:1070:G:O2'	30:HJ:127:VAL:CG2	2.61	0.46
22:HB:1257:U:H2'	22:HB:1258:G:C8	2.51	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:HB:1141:U:H3	22:HB:2008:C:H5''	1.81	0.46
22:HB:2040:A:H4'	48:H2:8:LYS:HZ3	1.76	0.46
22:HB:205:A:H2'	22:HB:206:U:H5''	1.98	0.46
22:HB:2479:U:H2'	22:HB:2483:U:O4	2.16	0.46
22:HB:2727:G:C6	22:HB:2735:C:H5''	2.51	0.46
22:HB:941:U:OP1	46:HZ:23:LEU:N	2.41	0.46
24:HD:144:ALA:CB	24:HD:192:THR:HG22	2.46	0.46
24:HD:78:LYS:NZ	24:HD:78:LYS:HB3	2.31	0.46
25:HE:4:ILE:O	25:HE:4:ILE:HG23	2.16	0.46
25:HE:29:GLY:CA	25:HE:90:SER:H	2.28	0.46
27:HG:120:ASN:O	27:HG:121:ALA:HB3	2.15	0.46
31:HK:100:TYR:O	31:HK:101:THR:HG22	2.15	0.46
33:HM:104:ARG:H	33:HM:104:ARG:HD2	1.81	0.46
35:HO:99:ARG:H	35:HO:99:ARG:HD2	1.81	0.46
37:HQ:38:LYS:HD3	37:HQ:50:PHE:HB2	1.98	0.46
40:HT:78:ASN:C	40:HT:80:LEU:H	2.19	0.46
22:HB:2334:C:H4'	44:HX:21:LEU:CD2	2.46	0.46
44:HX:30:VAL:HG12	44:HX:66:LYS:CE	2.44	0.46
45:HY:28:LEU:O	45:HY:34:ALA:HB1	2.15	0.46
1:IA:1180:A:C5'	9:II:103:THR:HG21	2.44	0.46
1:IA:1180:A:H5'	9:II:103:THR:HG22	1.98	0.46
1:IA:1187:G:H2'	1:IA:1188:A:C8	2.51	0.46
1:EA:1264:C:H5'	1:IA:1263:C:H1'	1.97	0.46
1:IA:1356:G:O2'	1:IA:1357:A:H5'	2.16	0.46
1:IA:1378:C:H3'	1:IA:1379:G:C4'	2.46	0.46
1:IA:1408:A:H1'	1:IA:1494:G:H22	1.80	0.46
1:IA:926:G:H21	1:IA:1505:G:H1'	1.80	0.46
1:IA:423:G:H2'	1:IA:424:G:O4'	2.15	0.46
1:IA:489:C:H2'	1:IA:490:G:C8	2.51	0.46
2:IB:119:GLU:C	2:IB:121:LEU:H	2.18	0.46
2:IB:122:PHE:O	2:IB:127:ILE:HD11	2.16	0.46
1:IA:1097:C:C3'	2:IB:140:HIS:CE1	2.95	0.46
2:IB:90:MET:HA	2:IB:91:PRO:HD3	1.76	0.46
8:IH:63:LEU:HD23	8:IH:65:TYR:OH	2.16	0.46
9:II:118:LYS:O	9:II:119:ALA:HB3	2.16	0.46
9:II:28:VAL:HG13	9:II:63:ILE:CG2	2.46	0.46
9:II:48:GLU:H	9:II:78:LYS:NZ	2.13	0.46
9:II:56:LEU:O	9:II:58:ARG:N	2.49	0.46
10:IJ:7:LYS:HA	10:IJ:71:LEU:HA	1.97	0.46
12:IL:45:PRO:HB2	12:IL:49:ASN:HB2	1.98	0.46
13:IM:65:LYS:NZ	13:IM:72:ALA:HB3	2.31	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:IM:87:TYR:CB	19:IS:73:GLU:HA	2.46	0.46
16:IP:7:ALA:O	16:IP:17:TYR:HA	2.14	0.46
17:IQ:92:ARG:NE	17:IQ:92:ARG:HA	2.31	0.46
6:IF:43:LEU:CD2	18:IR:35:ARG:CG	2.69	0.46
19:IS:36:ARG:HH21	19:IS:53:ASN:ND2	2.14	0.46
20:IT:104:LEU:HB3	20:IT:105:SER:H	1.52	0.46
20:IT:40:ALA:HA	20:IT:55:ILE:HD13	1.97	0.46
47:J1:57:ASP:CB	47:J1:60:ASN:HB2	2.45	0.46
50:J4:26:SER:HA	50:J4:29:ASN:HD21	1.81	0.46
22:JB:2506:C:H5'	52:J6:33:LYS:H	1.78	0.46
22:JB:1268:U:H5'	22:JB:1269:G:C4'	2.46	0.46
22:JB:1423:A:H2'	22:JB:1424:U:C6	2.51	0.46
22:JB:1394:G:N2	22:JB:1588:A:C4	2.83	0.46
22:JB:2074:U:C2'	22:JB:2182:A:C1'	2.89	0.46
22:JB:2182:A:N6	22:JB:2204:A:N3	2.63	0.46
22:JB:430:C:H1'	22:JB:2386:G:H22	1.80	0.46
22:JB:402:A:C4	22:JB:2392:G:C5'	2.98	0.46
22:JB:2486:C:H4'	22:JB:2552:C:N4	2.31	0.46
22:JB:2613:A:H2'	22:JB:2614:A:C8	2.47	0.46
22:JB:2669:C:H41	35:JO:15:SER:HA	1.81	0.46
22:JB:638:A:H61	22:JB:647:G:C2'	2.29	0.46
22:JB:652:C:C3'	22:JB:653:G:H5'	2.45	0.46
22:JB:857:U:C3'	22:JB:858:G:O5'	2.47	0.46
22:JB:952:A:H2'	22:JB:953:G:O4'	2.16	0.46
24:JD:212:SER:HA	24:JD:215:LEU:HB2	1.98	0.46
24:JD:263:ARG:HG2	24:JD:264:LYS:N	2.30	0.46
24:JD:40:THR:HB	24:JD:61:LEU:CD2	2.43	0.46
24:JD:78:LYS:HB3	24:JD:78:LYS:NZ	2.30	0.46
22:JB:2751:C:O2'	25:JE:166:THR:HG21	2.16	0.46
26:JF:134:ILE:HG13	26:JF:135:SER:N	2.31	0.46
27:JG:125:ARG:HB2	27:JG:127:ASN:HD21	1.79	0.46
27:JG:86:GLY:O	27:JG:87:ILE:HG23	2.16	0.46
28:JH:50:LEU:CG	28:JH:69:ARG:HD2	2.46	0.46
30:JJ:41:PHE:HA	30:JJ:45:THR:OG1	2.15	0.46
33:JM:75:VAL:HG23	33:JM:109:LEU:HD23	1.97	0.46
23:JA:117:G:H5''	36:JP:52:ALA:CA	2.46	0.46
23:JA:49:C:P	36:JP:94:TYR:CZ	3.08	0.46
23:JA:51:G:H5''	36:JP:97:HIS:O	2.13	0.46
22:JB:1164:C:C5'	38:JR:76:TYR:OH	2.64	0.46
22:JB:57:G:H4'	41:JU:31:PRO:HG3	1.98	0.46
43:JW:103:ARG:O	43:JW:103:ARG:HG2	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1001:A:N6	1:AA:1003:G:H21	2.13	0.46
1:AA:1124:G:H2'	1:AA:1126:U:O4	2.15	0.46
1:AA:1238:A:C2'	1:AA:1239:A:H5'	2.46	0.46
1:AA:13:U:O2	1:AA:914:A:C3'	2.60	0.46
1:AA:252:U:H2'	1:AA:253:U:C6	2.50	0.46
5:AE:87:SER:OG	5:AE:133:TYR:HB2	2.15	0.46
7:AG:15:ASP:HB3	7:AG:20:ASP:N	2.31	0.46
1:AA:1373:G:O3'	7:AG:31:MET:SD	2.74	0.46
9:AI:28:VAL:HG13	9:AI:63:ILE:CG2	2.46	0.46
10:AJ:60:ARG:O	10:AJ:61:GLU:CB	2.64	0.46
10:AJ:80:LYS:C	10:AJ:84:GLN:HB2	2.36	0.46
14:AN:23:ARG:C	14:AN:33:VAL:HG11	2.37	0.46
14:AN:23:ARG:NH1	14:AN:30:ALA:H	2.14	0.46
16:AP:34:GLU:HG3	16:AP:35:LYS:N	2.29	0.46
20:AT:49:ALA:O	20:AT:53:LEU:HG	2.16	0.46
22:BB:2412:A:C2	47:B1:30:GLU:CA	2.92	0.46
22:BB:3123:G:H21	53:B7:206:LYS:HZ1	1.64	0.46
53:B7:47:LYS:HG2	53:B7:159:THR:CB	2.43	0.46
23:BA:92:G:H3'	23:BA:93:G:H8	1.81	0.46
22:BB:1166:A:N6	22:BB:1168:G:N3	2.64	0.46
22:BB:139:A:N3	22:BB:139:A:H2'	2.31	0.46
22:BB:1437:A:H62	22:BB:1439:G:H1	1.64	0.46
22:BB:1440:G:H3'	22:BB:1441:A:H5'	1.98	0.46
22:BB:1463:A:N6	22:BB:1477:C:N4	2.63	0.46
22:BB:1583:A:H4'	22:BB:1584:G:C2	2.51	0.46
22:BB:2308:A:H2'	22:BB:2309:G:C8	2.51	0.46
22:BB:2395:C:H2'	22:BB:2396:C:H5'	1.97	0.46
22:BB:2565:C:H2'	22:BB:2566:A:N3	2.30	0.46
22:BB:2662:C:N4	22:BB:2708:U:O4'	2.49	0.46
22:BB:416:U:H5'	22:BB:419:G:O2'	2.16	0.46
22:BB:887:G:H5''	43:BW:170:SER:HG	1.79	0.46
24:BD:47:GLY:HA2	24:BD:48:ARG:CZ	2.45	0.46
25:BE:32:PRO:O	25:BE:33:ILE:HB	2.16	0.46
26:BF:40:ARG:HB3	26:BF:40:ARG:NH1	2.31	0.46
27:BG:125:ARG:HB2	27:BG:127:ASN:HD21	1.79	0.46
32:BL:71:LYS:HE3	32:BL:101:ASN:ND2	2.31	0.46
35:BO:96:ARG:N	35:BO:96:ARG:HD2	2.31	0.46
37:BQ:31:ASP:HA	37:BQ:56:ALA:O	2.16	0.46
22:BB:525:A:C4'	38:BR:31:GLN:O	2.62	0.46
43:BW:124:ALA:CB	43:BW:160:LEU:H	2.29	0.46
1:CA:1124:G:H2'	1:CA:1126:U:O4	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:1350:A:OP2	9:CI:121:ARG:HG3	2.16	0.46
1:CA:378:G:C5'	16:CP:25:ARG:HG2	2.46	0.46
1:CA:589:C:H5	8:CH:1:MET:CE	2.28	0.46
2:CB:92:TYR:O	2:CB:152:PHE:HB2	2.16	0.46
1:CA:436:C:O4'	4:CD:157:LEU:HB2	2.15	0.46
7:CG:15:ASP:HB3	7:CG:20:ASP:N	2.31	0.46
9:CI:28:VAL:HG13	9:CI:63:ILE:CG2	2.46	0.46
13:CM:101:GLN:HA	13:CM:101:GLN:OE1	2.16	0.46
1:CA:378:G:H5''	16:CP:25:ARG:HG2	1.98	0.46
1:CA:227:G:N3	16:CP:62:VAL:CG1	2.79	0.46
19:CS:33:THR:HB	19:CS:51:VAL:HG13	1.98	0.46
19:CS:9:VAL:HG12	19:CS:39:THR:OG1	2.16	0.46
23:DA:117:G:H1'	36:DP:41:GLN:CD	2.36	0.46
23:DA:77:G:H21	43:DW:22:VAL:HG22	1.80	0.46
23:DA:94:G:OP1	34:DN:23:LYS:CE	2.63	0.46
22:DB:1440:G:H3'	22:DB:1441:A:H5'	1.98	0.46
22:DB:1481:U:O4'	22:DB:1561:A:C5	2.69	0.46
22:DB:1583:A:H4'	22:DB:1584:G:C2	2.51	0.46
22:DB:1706:A:H2'	22:DB:1707:A:C8	2.51	0.46
22:DB:1746:A:H2'	22:DB:1747:G:C5'	2.46	0.46
22:DB:1835:C:C5'	24:DD:255:LYS:CE	2.93	0.46
22:DB:1855:G:H1	22:DB:3877:A:H61	1.63	0.46
22:DB:1883:A:N7	22:DB:1953:A:C6	2.84	0.46
22:DB:1886:G:P	22:DB:1954:A:H61	2.38	0.46
22:DB:2329:C:OP2	51:D5:42:ARG:HB3	2.16	0.46
22:DB:2481:G:H5''	22:DB:2482:A:C4'	2.46	0.46
22:DB:3109:U:H2'	22:DB:3110:G:H5'	1.98	0.46
22:DB:82:G:O2'	22:DB:83:A:H5'	2.16	0.46
22:DB:845:U:O2'	22:DB:846:A:H5'	2.16	0.46
22:DB:952:A:H2'	22:DB:953:G:O4'	2.16	0.46
24:DD:118:ASN:HB3	24:DD:123:ALA:HB1	1.97	0.46
24:DD:78:LYS:NZ	24:DD:78:LYS:HB3	2.30	0.46
22:DB:2786:G:H5''	25:DE:58:LYS:O	2.16	0.46
28:DH:62:ARG:HA	28:DH:65:HIS:O	2.15	0.46
33:DM:91:ASP:HB3	33:DM:121:HIS:ND1	2.30	0.46
34:DN:30:PHE:CE2	34:DN:101:GLY:HA3	2.51	0.46
34:DN:44:LYS:HA	34:DN:94:TRP:CD1	2.51	0.46
35:DO:28:LEU:HA	35:DO:32:GLY:CA	2.46	0.46
35:DO:55:ALA:HB1	35:DO:79:VAL:HG22	1.97	0.46
39:DS:65:ARG:C	39:DS:93:ILE:HG23	2.36	0.46
40:DT:27:VAL:HB	40:DT:125:THR:HA	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:DU:4:TYR:CD1	45:DY:23:LYS:O	2.69	0.46
22:DB:1354:A:OP2	41:DU:56:MET:SD	2.74	0.46
43:DW:103:ARG:O	43:DW:103:ARG:HG2	2.15	0.46
1:EA:1104:G:O4'	2:EB:111:ARG:HB3	2.16	0.46
1:EA:1440:C:OP1	20:ET:38:LYS:NZ	2.35	0.46
1:EA:1451:A:H4'	1:EA:1452:C:OP2	2.16	0.46
1:EA:1481:U:H2'	1:EA:1482:G:C8	2.50	0.46
1:EA:927:G:N3	1:EA:1532:U:C5'	2.79	0.46
1:EA:202:G:H2'	1:EA:203:A:O4'	2.16	0.46
1:EA:338:A:C2	1:EA:339:C:H1'	2.51	0.46
1:EA:344:A:H4'	1:EA:345:C:OP2	2.16	0.46
1:EA:616:G:H1	1:EA:624:C:N4	2.13	0.46
1:EA:949:A:H2'	1:EA:950:U:C6	2.51	0.46
1:EA:995:C:N3	14:EN:4:LYS:CD	2.62	0.46
2:EB:122:PHE:O	2:EB:127:ILE:HD11	2.16	0.46
2:EB:31:TYR:OH	2:EB:50:GLU:HG2	2.16	0.46
2:EB:9:GLU:OE2	2:EB:11:LEU:HB2	2.16	0.46
3:EC:191:THR:HG22	3:EC:193:TYR:H	1.81	0.46
8:EH:88:LYS:HB3	8:EH:89:PRO:HD2	1.97	0.46
11:EK:66:LEU:O	11:EK:70:LYS:HE3	2.16	0.46
12:EL:5:PRO:CA	12:EL:10:LEU:HA	2.46	0.46
14:EN:22:THR:HG23	14:EN:35:ARG:HD3	1.96	0.46
19:ES:33:THR:HB	19:ES:51:VAL:HG13	1.98	0.46
29:FI:26:ARG:C	47:F1:73:LYS:O	2.54	0.46
22:FB:123:A:H4'	50:F4:14:LYS:HA	1.39	0.46
22:FB:1082:G:H3'	22:FB:1082:G:OP1	2.15	0.46
22:FB:1264:C:O3'	38:FR:36:PHE:HD1	1.84	0.46
22:FB:1309:G:OP1	22:FB:2688:G:O2'	2.19	0.46
22:FB:1333:G:H2'	22:FB:1334:A:H5''	1.98	0.46
22:FB:139:A:H2'	22:FB:139:A:N3	2.31	0.46
22:FB:1440:G:H3'	22:FB:1441:A:H5'	1.98	0.46
22:FB:1463:A:N6	22:FB:1477:C:N4	2.63	0.46
22:FB:1586:A:C5	22:FB:1587:A:N3	2.84	0.46
22:FB:2075:U:H1'	22:FB:2204:A:H2'	1.97	0.46
22:FB:2265:A:OP1	22:FB:2266:A:H5'	2.16	0.46
22:FB:2284:U:C1'	27:FG:152:MET:CA	2.93	0.46
22:FB:2285:U:H5	22:FB:2290:A:H61	1.63	0.46
22:FB:2505:G:H2'	22:FB:2506:C:O4'	2.15	0.46
22:FB:2537:C:O2'	22:FB:2538:C:H5'	2.16	0.46
22:FB:2499:C:O4'	22:FB:2546:G:H1'	2.16	0.46
22:FB:797:A:P	22:FB:2567:G:H5''	2.56	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:FB:2715:C:C4	22:FB:2749:A:C2	2.79	0.46
22:FB:3106:U:H2'	22:FB:3107:G:O2'	2.15	0.46
22:FB:676:G:H2'	22:FB:677:G:C8	2.51	0.46
22:FB:59:G:C4	22:FB:73:A:N1	2.83	0.46
22:FB:964:A:O2'	22:FB:965:G:H5'	2.16	0.46
22:FB:971:A:H2'	22:FB:973:U:C6	2.51	0.46
22:FB:2753:C:C4'	25:FE:164:ARG:N	2.53	0.46
25:FE:31:CYS:O	25:FE:33:ILE:HD13	2.15	0.46
22:FB:2041:A:O2'	26:FF:64:THR:HA	2.16	0.46
28:FH:141:VAL:HG23	28:FH:142:GLY:H	1.80	0.46
30:FJ:111:LYS:HD3	30:FJ:123:ALA:O	2.15	0.46
30:FJ:129:GLY:HA3	30:FJ:132:ARG:NH1	2.21	0.46
32:FL:73:VAL:CG2	32:FL:99:ILE:HB	2.43	0.46
35:FO:97:ILE:HD12	35:FO:97:ILE:H	1.81	0.46
37:FQ:70:LYS:HD2	37:FQ:106:TYR:HA	1.98	0.46
37:FQ:32:THR:H	37:FQ:56:ALA:HB1	1.81	0.46
37:FQ:55:ILE:N	37:FQ:55:ILE:HD13	2.16	0.46
38:FR:46:GLU:CG	39:FS:75:LYS:HG3	2.45	0.46
22:FB:502:A:C2	40:FT:28:ALA:HB1	2.51	0.46
41:FU:77:LYS:HZ1	41:FU:79:ILE:HD11	1.81	0.46
1:GA:1187:G:H2'	1:GA:1188:A:C8	2.51	0.46
1:GA:1347:G:O2'	1:GA:1348:U:H6	1.98	0.46
1:GA:1408:A:H1'	1:GA:1494:G:H22	1.80	0.46
1:GA:815:A:C2	1:GA:1527:C:C1'	2.95	0.46
1:GA:959:A:H2'	1:GA:960:U:H4'	1.98	0.46
2:GB:211:ILE:HA	2:GB:214:ILE:CG1	2.46	0.46
7:GG:93:PRO:HA	7:GG:96:GLN:HB2	1.99	0.46
1:GA:875:C:H1'	8:GH:11:THR:HB	1.97	0.46
8:GH:17:THR:HB	8:GH:65:TYR:HE2	1.80	0.46
8:GH:88:LYS:HB3	8:GH:89:PRO:HD2	1.97	0.46
9:GI:116:LYS:HZ3	9:GI:121:ARG:N	2.14	0.46
12:GL:45:PRO:HB2	12:GL:49:ASN:HB2	1.98	0.46
12:GL:83:VAL:HB	12:GL:107:ALA:CB	2.46	0.46
1:GA:668:G:P	15:GO:48:LYS:HZ1	2.38	0.46
1:GA:175:C:O3'	20:GT:29:LYS:HE2	2.16	0.46
48:H2:19:ARG:NH1	48:H2:19:ARG:HA	2.31	0.46
50:H4:6:GLN:CD	50:H4:7:PRO:HD2	2.35	0.46
51:H5:62:LEU:O	51:H5:63:PRO:C	2.54	0.46
23:HA:92:G:H3'	23:HA:93:G:H8	1.81	0.46
22:HB:10:A:N1	22:HB:2608:A:N3	2.64	0.46
22:HB:1141:U:H5"	22:HB:1142:G:OP1	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:HB:1148:G:C5	22:HB:1149:G:H1'	2.51	0.46
22:HB:1338:G:O4'	40:HT:106:LEU:C	2.55	0.46
22:HB:1436:G:N2	22:HB:1508:G:C4	2.80	0.46
22:HB:1660:G:H2'	22:HB:1661:C:O4'	2.15	0.46
22:HB:2357:A:O2'	36:HP:19:THR:CG2	2.64	0.46
22:HB:2395:C:H2'	22:HB:2396:C:H5'	1.97	0.46
22:HB:2448:A:H4'	34:HN:57:ARG:HG3	1.96	0.46
22:HB:459:A:H1'	22:HB:461:A:N6	2.31	0.46
22:HB:613:A:N1	33:HM:97:ARG:NH1	2.64	0.46
22:HB:912:A:H2'	22:HB:913:A:O4'	2.16	0.46
22:HB:971:A:H2'	22:HB:973:U:C6	2.51	0.46
24:HD:136:VAL:HG11	24:HD:165:VAL:HG21	1.98	0.46
24:HD:143:HIS:CD2	24:HD:196:VAL:HA	2.51	0.46
24:HD:166:GLN:HE22	24:HD:175:VAL:C	2.19	0.46
22:HB:1886:G:OP1	24:HD:241:GLY:HA2	2.16	0.46
25:HE:32:PRO:O	25:HE:33:ILE:HB	2.16	0.46
30:HJ:111:LYS:HD3	30:HJ:123:ALA:O	2.15	0.46
30:HJ:90:THR:O	30:HJ:91:PRO:O	2.34	0.46
32:HL:113:PRO:CG	37:HQ:76:GLY:N	2.79	0.46
32:HL:85:ASP:O	37:HQ:84:ALA:CA	2.64	0.46
37:HQ:5:ILE:CD1	37:HQ:6:LYS:H	2.29	0.46
34:HN:64:LYS:CG	43:HW:173:PRO:C	2.83	0.46
22:HB:2235:G:O3'	44:HX:9:SER:HA	2.16	0.46
41:HU:46:PHE:CG	45:HY:19:ASP:OD1	2.68	0.46
46:HZ:5:LEU:CD1	46:HZ:31:SER:HB3	2.44	0.46
1:IA:1067:A:N1	1:IA:1109:C:H5'	2.30	0.46
1:IA:1127:G:N2	1:IA:1147:C:H42	2.13	0.46
1:IA:1439:C:H2'	1:IA:1440:C:H6	1.80	0.46
1:IA:355:C:H5'	1:IA:389:A:OP2	2.16	0.46
1:IA:579:G:O2'	1:IA:580:U:H5'	2.15	0.46
1:IA:642:A:C4'	8:IH:118:VAL:HG23	2.46	0.46
1:IA:913:A:H4'	1:IA:914:A:O5'	2.15	0.46
1:IA:949:A:H2'	1:IA:950:U:C6	2.51	0.46
2:IB:55:PHE:CD1	2:IB:221:LEU:HG	2.51	0.46
5:IE:104:ALA:HA	5:IE:107:ARG:CZ	2.46	0.46
5:IE:88:LYS:HG2	5:IE:123:LEU:O	2.16	0.46
6:IF:22:GLU:O	6:IF:26:ILE:HG13	2.16	0.46
6:IF:42:GLU:HG2	6:IF:44:GLY:N	2.30	0.46
10:IJ:60:ARG:O	10:IJ:61:GLU:CB	2.64	0.46
11:IK:66:LEU:O	11:IK:70:LYS:HE3	2.16	0.46
13:IM:16:ASP:HB3	13:IM:41:PRO:HB3	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:J1:5:LEU:HB3	47:J1:56:VAL:O	2.16	0.46
22:JB:2370:G:C5	49:J3:2:ALA:HB2	2.02	0.46
22:JB:1629:G:C5'	50:J4:3:ARG:HG2	2.46	0.46
53:J7:13:LYS:HD3	53:J7:177:GLU:OE2	2.15	0.46
53:J7:111:LEU:HD13	53:J7:148:ILE:HA	1.96	0.46
22:JB:3177:C:OP1	53:J7:163:PRO:CA	2.63	0.46
22:JB:1007:A:H5''	38:JR:93:LYS:CD	2.45	0.46
22:JB:1148:G:C5	22:JB:1149:G:H1'	2.51	0.46
22:JB:1595:A:H2'	22:JB:1595:A:N3	2.30	0.46
22:JB:1660:G:H2'	22:JB:1661:C:O4'	2.15	0.46
22:JB:1141:U:H3	22:JB:2008:C:H5''	1.81	0.46
22:JB:2009:U:H2'	22:JB:2010:G:O4'	2.16	0.46
22:JB:2019:C:H2'	22:JB:2020:G:H8	1.80	0.46
22:JB:205:A:H2'	22:JB:206:U:H5''	1.98	0.46
22:JB:2241:U:C4'	22:JB:2307:A:N3	2.79	0.46
22:JB:2611:A:C5'	22:JB:2786:G:H21	2.29	0.46
22:JB:2503:G:O2'	22:JB:2721:A:C2	2.67	0.46
22:JB:3166:G:C3'	53:J7:99:PRO:HD3	2.44	0.46
22:JB:3871:A:H2'	22:JB:3872:A:H8	1.81	0.46
22:JB:539:A:H3'	22:JB:540:G:OP2	2.10	0.46
22:JB:698:A:H5'	22:JB:801:A:N1	2.31	0.46
22:JB:941:U:O4'	46:JZ:23:LEU:HA	2.15	0.46
22:JB:778:G:P	24:JD:214:TRP:CE2	3.09	0.46
24:JD:258:LYS:HE2	24:JD:258:LYS:HA	1.97	0.46
24:JD:72:LYS:HG2	24:JD:119:ALA:O	2.16	0.46
27:JG:17:MET:N	27:JG:17:MET:SD	2.89	0.46
27:JG:35:VAL:HG12	27:JG:36:VAL:N	2.22	0.46
28:JH:114:ILE:O	28:JH:114:ILE:HG22	2.16	0.46
29:JI:46:LEU:O	29:JI:47:GLU:HB2	2.16	0.46
31:JK:49:VAL:HG12	31:JK:87:GLN:HG3	1.97	0.46
32:JL:98:ILE:HG23	32:JL:106:ARG:O	2.16	0.46
33:JM:79:GLN:HB3	33:JM:80:LEU:HD22	1.97	0.46
34:JN:68:ARG:HB2	34:JN:101:GLY:O	2.15	0.46
35:JO:37:THR:H	35:JO:110:MET:HG2	1.81	0.46
35:JO:36:THR:O	35:JO:40:LYS:HB3	2.15	0.46
37:JQ:5:ILE:CD1	37:JQ:6:LYS:H	2.29	0.46
26:JF:43:ALA:CB	38:JR:2:PRO:CD	2.93	0.46
22:JB:514:G:N2	40:JT:15:LYS:CE	2.79	0.46
1:AA:1050:G:H2'	1:AA:1051:C:C6	2.51	0.45
1:AA:1214:C:H5''	1:AA:1215:G:OP2	2.16	0.45
1:AA:1311:G:C8	19:AS:2:PRO:N	2.84	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1481:U:H2'	1:AA:1482:G:C8	2.50	0.45
1:AA:1520:G:H2'	1:AA:1521:G:H8	1.81	0.45
1:AA:254:G:O2'	17:AQ:45:HIS:CE1	2.69	0.45
2:AB:215:LEU:HD23	2:AB:215:LEU:N	2.31	0.45
3:AC:42:LEU:O	3:AC:46:GLU:HG2	2.16	0.45
3:AC:77:ILE:HG23	3:AC:84:ILE:HB	1.97	0.45
7:AG:146:GLU:H	7:AG:149:ARG:HB2	1.81	0.45
8:AH:58:TYR:O	8:AH:59:LEU:HG	2.16	0.45
9:AI:118:LYS:O	9:AI:119:ALA:HB3	2.16	0.45
11:AK:62:GLN:CB	11:AK:93:GLN:HB3	2.46	0.45
20:AT:10:LEU:HD13	20:AT:11:SER:N	2.31	0.45
22:BB:1043:A:C4	52:B6:22:ARG:O	2.68	0.45
53:B7:34:LEU:HD22	53:B7:165:VAL:HG23	1.98	0.45
22:BB:1041:G:C4	52:B6:5:SER:HB2	2.44	0.45
22:BB:116:A:H5'	22:BB:155:G:H4'	1.98	0.45
22:BB:1491:C:H5''	22:BB:1533:G:C2	2.51	0.45
22:BB:1698:C:H1'	22:BB:1754:G:N7	2.31	0.45
22:BB:1742:G:H22	22:BB:1747:G:H1	1.63	0.45
22:BB:181:A:C4'	22:BB:182:G:H4'	2.44	0.45
22:BB:1936:A:C2	22:BB:2529:G:O4'	2.69	0.45
22:BB:1948:C:H41	22:BB:2571:G:C1'	2.15	0.45
22:BB:2063:A:P	47:B1:20:VAL:HG11	2.56	0.45
22:BB:3106:U:H2'	22:BB:3107:G:O2'	2.16	0.45
22:BB:416:U:H5''	22:BB:419:G:H1'	1.98	0.45
22:BB:677:G:H3'	22:BB:678:G:P	2.56	0.45
22:BB:719:A:N6	22:BB:739:G:H1'	2.30	0.45
22:BB:952:A:H2'	22:BB:953:G:O4'	2.16	0.45
24:BD:22:SER:HA	24:BD:207:GLY:N	2.31	0.45
24:BD:263:ARG:HH21	24:BD:264:LYS:HZ1	1.63	0.45
22:BB:755:C:C5'	25:BE:129:HIS:NE2	2.77	0.45
25:BE:181:LEU:CB	37:BQ:12:LEU:CD2	2.94	0.45
22:BB:2766:U:O2'	25:BE:64:GLN:OE1	2.34	0.45
27:BG:17:MET:SD	27:BG:17:MET:N	2.90	0.45
30:BJ:41:PHE:HA	30:BJ:45:THR:OG1	2.15	0.45
22:BB:2008:C:C2'	31:BK:103:TYR:CE2	2.91	0.45
31:BK:41:TRP:HE1	31:BK:164:GLN:CB	2.29	0.45
33:BM:140:VAL:CG1	33:BM:141:VAL:H	2.21	0.45
33:BM:79:GLN:HB3	33:BM:80:LEU:HD22	1.97	0.45
22:BB:613:A:N6	33:BM:97:ARG:CG	2.73	0.45
40:BT:55:ASP:H	40:BT:58:ARG:CB	2.29	0.45
44:BX:41:ARG:NE	44:BX:41:ARG:N	2.63	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:BY:41:HIS:ND1	45:BY:45:GLN:HB2	2.31	0.45
1:CA:1187:G:H2'	1:CA:1188:A:C8	2.51	0.45
1:CA:1214:C:H5''	1:CA:1215:G:OP2	2.16	0.45
1:CA:1265:G:OP1	1:GA:1273:G:O2'	2.16	0.45
1:CA:1419:G:N2	1:CA:1482:G:H1'	2.30	0.45
1:CA:1483:A:N3	22:DB:1942:G:N2	2.65	0.45
1:CA:276:G:H2'	1:CA:277:C:O4'	2.15	0.45
1:CA:344:A:H4'	1:CA:345:C:OP2	2.16	0.45
1:CA:46:G:O2'	1:CA:365:U:H1'	2.16	0.45
1:CA:423:G:H2'	1:CA:424:G:O4'	2.15	0.45
1:CA:526:C:H2'	1:CA:527:G:C4'	2.46	0.45
1:CA:53:A:H2'	1:CA:54:C:O4'	2.16	0.45
1:CA:760:G:O2'	17:CQ:97:SER:HB2	2.16	0.45
1:CA:910:C:H2'	1:CA:911:U:H6	1.81	0.45
1:CA:942:G:H2'	1:CA:943:U:C6	2.51	0.45
2:CB:121:LEU:HA	2:CB:124:SER:OG	2.16	0.45
2:CB:155:LEU:HD13	2:CB:158:LEU:HA	1.98	0.45
3:CC:42:LEU:O	3:CC:46:GLU:HG2	2.16	0.45
3:CC:77:ILE:HG23	3:CC:84:ILE:HB	1.97	0.45
7:CG:21:VAL:HG23	7:CG:22:LEU:HD12	1.97	0.45
9:CI:118:LYS:NZ	9:CI:118:LYS:HB3	2.31	0.45
9:CI:118:LYS:O	9:CI:119:ALA:HB3	2.16	0.45
1:CA:941:G:H21	9:CI:121:ARG:HH21	1.62	0.45
12:CL:5:PRO:CA	12:CL:10:LEU:HA	2.45	0.45
16:CP:8:ARG:NH2	16:CP:15:PRO:HB3	2.31	0.45
50:D4:21:ARG:HG3	50:D4:31:LEU:HB2	1.98	0.45
22:DB:1141:U:H3	22:DB:2008:C:H5''	1.81	0.45
22:DB:1148:G:C5	22:DB:1149:G:H1'	2.51	0.45
22:DB:116:A:H5'	22:DB:155:G:H4'	1.98	0.45
22:DB:1846:A:N6	22:DB:2070:G:N2	2.62	0.45
22:DB:2075:U:H1'	22:DB:2204:A:H2'	1.97	0.45
22:DB:2700:U:H3	22:DB:2848:A:H62	0.61	0.45
22:DB:2713:A:C2'	22:DB:2714:A:H5'	2.46	0.45
22:DB:422:C:H2'	22:DB:423:G:H8	1.80	0.45
22:DB:66:U:C2	22:DB:87:G:C2	3.04	0.45
22:DB:879:A:H1'	22:DB:2298:U:O4	2.16	0.45
24:DD:185:VAL:HG12	24:DD:186:HIS:O	2.17	0.45
24:DD:157:ARG:HD2	24:DD:202:LYS:NZ	2.31	0.45
24:DD:243:GLY:N	24:DD:244:ARG:NH2	2.65	0.45
22:DB:2590:U:OP1	25:DE:132:LYS:HD3	2.16	0.45
25:DE:32:PRO:O	25:DE:33:ILE:HB	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:DF:16:GLU:CG	26:DF:17:LEU:H	2.22	0.45
27:DG:17:MET:SD	27:DG:17:MET:N	2.90	0.45
22:DB:2292:C:C4'	27:DG:87:ILE:CD1	2.94	0.45
33:DM:114:ILE:HB	33:DM:135:ALA:HB1	1.98	0.45
23:DA:92:G:N2	34:DN:40:PRO:CD	2.78	0.45
37:DQ:31:ASP:HA	37:DQ:56:ALA:O	2.16	0.45
37:DQ:70:LYS:HD2	37:DQ:106:TYR:HA	1.98	0.45
22:DB:338:G:C4'	42:DV:9:HIS:HD2	2.30	0.45
1:EA:102:G:H2'	1:EA:103:C:C6	2.51	0.45
1:EA:1082:G:O2'	1:EA:1083:U:H5'	2.16	0.45
1:EA:1186:G:O2'	9:EI:111:ARG:CD	2.53	0.45
1:EA:1187:G:C2	14:EN:61:TRP:CA	2.99	0.45
1:EA:1187:G:H2'	1:EA:1188:A:C8	2.51	0.45
1:EA:489:C:H2'	1:EA:490:G:C8	2.51	0.45
1:EA:642:A:H5'	8:EH:118:VAL:HG23	1.41	0.45
4:ED:97:LEU:HA	4:ED:100:ARG:CD	2.45	0.45
4:ED:108:LEU:HA	4:ED:170:VAL:CG2	2.46	0.45
6:EF:6:VAL:HG22	6:EF:90:VAL:HG13	1.97	0.45
10:EJ:5:ARG:HB3	10:EJ:99:LYS:HB2	1.98	0.45
16:EP:81:ARG:NE	16:EP:81:ARG:HA	2.31	0.45
19:ES:16:LEU:HA	19:ES:19:VAL:CG1	2.42	0.45
53:F7:13:LYS:HD3	53:F7:177:GLU:OE2	2.15	0.45
22:FB:1148:G:C5	22:FB:1149:G:H1'	2.51	0.45
22:FB:133:C:N3	22:FB:138:G:N1	2.64	0.45
22:FB:1397:A:C3'	22:FB:1416:A:O2'	2.64	0.45
22:FB:1613:G:C4'	22:FB:1614:C:N1	2.66	0.45
22:FB:2399:C:C5	51:F5:31:HIS:HB3	2.49	0.45
22:FB:2767:C:O4'	25:FE:61:LYS:CA	2.60	0.45
22:FB:2802:C:O2'	22:FB:2803:C:H5'	2.15	0.45
22:FB:640:C:H4'	22:FB:660:G:N2	2.22	0.45
22:FB:940:G:O2'	46:FZ:35:SER:CA	2.63	0.45
24:FD:118:ASN:HB3	24:FD:123:ALA:HB1	1.97	0.45
24:FD:243:GLY:N	24:FD:244:ARG:NH2	2.64	0.45
24:FD:258:LYS:HE2	24:FD:258:LYS:HA	1.97	0.45
22:FB:331:U:O4	26:FF:131:LYS:HA	2.13	0.45
26:FF:58:MET:CG	26:FF:69:HIS:HB3	2.43	0.45
29:FI:1:MET:CB	47:F1:65:ASP:O	2.64	0.45
34:FN:12:LYS:HZ2	34:FN:12:LYS:HB3	1.82	0.45
22:FB:969:U:C2	34:FN:20:GLY:CA	2.88	0.45
36:FP:20:THR:HG23	36:FP:46:SER:HB2	1.98	0.45
22:FB:1264:C:C3'	38:FR:36:PHE:HE1	2.28	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:FB:1008:G:H5'	38:FR:92:ARG:HG3	0.47	0.45
45:FY:43:VAL:C	45:FY:45:GLN:H	2.20	0.45
46:FZ:51:LEU:CD2	46:FZ:52:GLU:H	2.29	0.45
1:GA:1101:A:H4'	1:GA:1102:A:O5'	2.16	0.45
1:GA:1239:A:H62	1:GA:1299:A:N6	1.94	0.45
1:GA:1475:G:H2'	1:GA:1476:G:C8	2.51	0.45
1:GA:439:A:H4'	4:GD:122:ARG:NH2	2.28	0.45
1:GA:579:G:O2'	1:GA:580:U:H5'	2.15	0.45
1:GA:612:C:O2'	4:GD:86:LYS:HE2	2.16	0.45
1:GA:876:G:O2'	8:GH:4:ASP:OD2	2.34	0.45
2:GB:116:GLU:HA	2:GB:153:ARG:HD3	1.99	0.45
2:GB:55:PHE:CD1	2:GB:221:LEU:HG	2.51	0.45
2:GB:51:LEU:C	2:GB:53:ARG:H	2.20	0.45
3:GC:42:LEU:O	3:GC:46:GLU:HG2	2.17	0.45
4:GD:24:GLU:CG	4:GD:27:TYR:HB3	2.42	0.45
6:GF:14:LEU:HD13	6:GF:18:GLN:CG	2.46	0.45
7:GG:15:ASP:HB3	7:GG:20:ASP:N	2.31	0.45
12:GL:33:ARG:HD3	12:GL:60:LEU:HB3	1.97	0.45
12:GL:36:VAL:O	12:GL:58:VAL:HA	2.16	0.45
19:GS:36:ARG:HH21	19:GS:53:ASN:ND2	2.14	0.45
20:GT:15:ARG:HD3	20:GT:15:ARG:O	2.16	0.45
22:HB:2064:U:C5'	47:H1:33:VAL:HG13	2.35	0.45
48:H2:33:CYS:CA	48:H2:40:LYS:HB2	2.46	0.45
51:H5:23:MET:HA	51:H5:48:PHE:CD1	2.50	0.45
53:H7:34:LEU:HA	53:H7:204:TYR:HB2	1.99	0.45
23:HA:26:G:H4'	23:HA:27:A:N7	2.31	0.45
23:HA:79:U:H2'	23:HA:80:A:H8	1.79	0.45
22:HB:1238:A:OP1	39:HS:87:ARG:CD	2.65	0.45
22:HB:1249:G:C5	40:HT:12:LYS:NZ	2.81	0.45
22:HB:124:A:H2'	22:HB:125:A:C2	2.51	0.45
22:HB:1398:G:C4	22:HB:1416:A:N1	2.84	0.45
22:HB:1398:G:O4'	22:HB:1416:A:N3	2.49	0.45
22:HB:1580:C:O2'	22:HB:1581:C:H5'	2.16	0.45
22:HB:1698:C:H1'	22:HB:1754:G:C8	2.51	0.45
22:HB:1786:C:H5'	22:HB:1884:A:OP1	2.16	0.45
22:HB:1934:U:H2'	22:HB:1935:A:C8	2.52	0.45
22:HB:2009:U:H2'	22:HB:2010:G:O4'	2.16	0.45
22:HB:2058:U:H2'	22:HB:2217:G:O6	2.14	0.45
22:HB:973:U:H4'	22:HB:2475:C:O2'	2.15	0.45
22:HB:797:A:P	22:HB:2567:G:H5''	2.56	0.45
22:HB:2591:C:C4	48:H2:4:HIS:ND1	2.84	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:HB:2851:G:H21	22:HB:2852:G:H1'	1.81	0.45
22:HB:2860:C:C2'	48:H2:33:CYS:O	2.64	0.45
22:HB:462:G:H2'	22:HB:463:C:H5'	1.97	0.45
22:HB:690:A:O2'	22:HB:2054:A:H5'	2.16	0.45
22:HB:698:A:H5'	22:HB:801:A:N1	2.31	0.45
22:HB:946:U:O3'	22:HB:947:C:P	2.74	0.45
24:HD:47:GLY:HA2	24:HD:48:ARG:CZ	2.45	0.45
22:HB:460:U:C2'	26:HF:78:VAL:HG22	2.39	0.45
28:HH:141:VAL:HG23	28:HH:142:GLY:H	1.80	0.45
28:HH:62:ARG:HA	28:HH:65:HIS:O	2.15	0.45
29:HI:46:LEU:O	29:HI:47:GLU:HB2	2.16	0.45
33:HM:114:ILE:HB	33:HM:135:ALA:HB1	1.98	0.45
37:HQ:70:LYS:HD2	37:HQ:106:TYR:HA	1.98	0.45
32:HL:91:PHE:CA	37:HQ:79:ARG:HH11	2.29	0.45
38:HR:76:TYR:O	38:HR:80:ILE:HG12	2.17	0.45
43:HW:121:GLN:O	43:HW:123:VAL:HG22	2.15	0.45
1:IA:1101:A:H4'	1:IA:1102:A:O5'	2.16	0.45
1:IA:1194:U:H5''	5:IE:22:GLY:C	2.36	0.45
1:IA:532:A:N6	1:IA:1206:G:O2'	2.49	0.45
1:IA:1220:G:H5'	19:IS:37:ARG:HD3	1.98	0.45
1:IA:536:C:H2'	1:IA:537:G:C8	2.46	0.45
1:IA:928:G:H1'	1:IA:1532:U:C2'	2.40	0.45
1:IA:1104:G:O2'	2:IB:111:ARG:CD	2.65	0.45
1:IA:1055:A:C2	3:IC:156:ARG:NH1	2.79	0.45
3:IC:37:GLN:CD	3:IC:37:GLN:H	2.20	0.45
4:ID:24:GLU:CG	4:ID:27:TYR:HB3	2.42	0.45
6:IF:14:LEU:HD13	6:IF:18:GLN:CG	2.46	0.45
7:IG:73:MET:HG3	7:IG:144:MET:O	2.16	0.45
1:IA:641:U:C3'	8:IH:117:GLY:N	2.79	0.45
9:II:14:VAL:HG12	9:II:15:ALA:N	2.30	0.45
10:IJ:47:PHE:HB2	10:IJ:63:PHE:CB	2.39	0.45
10:IJ:64:GLU:CG	14:IN:58:LYS:O	2.65	0.45
1:IA:718:G:C4	18:IR:81:PHE:CE2	2.93	0.45
22:JB:3877:A:C1'	53:J7:43:LYS:CD	2.88	0.45
22:JB:1141:U:H5''	22:JB:1142:G:OP1	2.17	0.45
22:JB:117:A:O3'	22:JB:118:U:H3'	2.17	0.45
22:JB:1257:U:H2'	22:JB:1258:G:C8	2.51	0.45
22:JB:1580:C:O2'	22:JB:1581:C:H5'	2.17	0.45
22:JB:16:G:H5'	48:J2:18:MET:H	1.78	0.45
22:JB:1742:G:O4'	22:JB:2835:A:C5	2.69	0.45
22:JB:1811:A:O2'	22:JB:1812:U:H5''	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:JB:1829:C:C5'	22:JB:1911:A:O5'	2.64	0.45
22:JB:1934:U:H2'	22:JB:1935:A:C8	2.52	0.45
22:JB:1982:C:H4'	22:JB:2702:G:N2	2.30	0.45
22:JB:2004:U:H6	38:JR:25:TRP:NE1	2.09	0.45
22:JB:231:G:O6	51:J5:4:MET:C	2.54	0.45
22:JB:797:A:P	22:JB:2567:G:H5''	2.56	0.45
22:JB:2615:U:O5'	25:JE:79:ARG:CD	2.65	0.45
22:JB:2851:G:H21	22:JB:2852:G:H1'	1.81	0.45
22:JB:459:A:H1'	22:JB:461:A:N6	2.31	0.45
22:JB:533:C:H4'	22:JB:550:C:O2	2.16	0.45
22:JB:535:U:H5'	22:JB:565:A:C5'	2.44	0.45
22:JB:547:U:OP1	31:JK:30:LYS:HD2	2.16	0.45
24:JD:118:ASN:HB3	24:JD:123:ALA:HB1	1.97	0.45
24:JD:166:GLN:HB2	24:JD:174:ILE:HA	1.98	0.45
24:JD:95:LEU:HD12	24:JD:104:TYR:O	2.17	0.45
25:JE:32:PRO:O	25:JE:33:ILE:HB	2.16	0.45
22:JB:2785:A:HO2'	25:JE:60:ASN:ND2	2.13	0.45
27:JG:120:ASN:O	27:JG:121:ALA:HB3	2.15	0.45
28:JH:142:GLY:O	28:JH:145:ALA:HB3	2.16	0.45
28:JH:149:ARG:HD2	28:JH:149:ARG:N	2.31	0.45
22:JB:954:U:C5	33:JM:39:SER:HB2	2.51	0.45
34:JN:127:PRO:HB2	34:JN:129:GLN:NE2	2.31	0.45
22:JB:2688:G:H5''	35:JO:19:ALA:HB2	1.97	0.45
38:JR:31:GLN:HG3	38:JR:34:ASN:HB2	1.96	0.45
38:JR:76:TYR:O	38:JR:80:ILE:HG12	2.17	0.45
40:JT:27:VAL:HB	40:JT:125:THR:HA	1.99	0.45
22:JB:1000:G:N9	46:JZ:10:ILE:HD11	2.20	0.45
1:AA:1171:G:H2'	1:AA:1172:C:H5	1.80	0.45
1:AA:1187:G:H2'	1:AA:1188:A:C8	2.51	0.45
1:AA:118:U:C2'	1:AA:119:A:H5'	2.46	0.45
1:AA:23:C:O4'	1:AA:913:A:N6	2.42	0.45
1:AA:276:G:H2'	1:AA:277:C:O4'	2.15	0.45
1:AA:46:G:O2'	1:AA:365:U:H1'	2.16	0.45
1:AA:355:C:H5'	1:AA:389:A:OP2	2.16	0.45
1:AA:658:G:O2'	15:AO:5:LYS:CG	2.51	0.45
1:AA:949:A:H2'	1:AA:950:U:C6	2.51	0.45
3:AC:85:ARG:HH12	3:AC:88:ARG:NH1	2.14	0.45
4:AD:29:PRO:HG3	4:AD:34:GLU:HG2	1.97	0.45
1:AA:1342:C:C1'	9:AI:124:GLN:HA	2.46	0.45
10:AJ:42:THR:HG23	10:AJ:67:THR:O	2.16	0.45
1:AA:981:U:H5''	14:AN:6:LEU:HD13	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:AP:8:ARG:NH2	16:AP:15:PRO:HB3	2.32	0.45
16:AP:3:LYS:H	16:AP:24:ALA:HB2	1.81	0.45
22:BB:177:U:C5'	47:B1:31:ILE:HD13	2.42	0.45
23:BA:96:C:OP1	43:BW:14:LEU:CB	2.47	0.45
22:BB:1070:G:C4	30:BJ:126:THR:HG21	2.45	0.45
22:BB:1135:C:C1'	52:B6:36:GLN:HE21	2.28	0.45
22:BB:1461:C:HO2'	22:BB:1561:A:C4'	2.24	0.45
22:BB:1746:A:H2'	22:BB:1747:G:C5'	2.46	0.45
22:BB:176:A:C6	47:B1:32:HIS:CE1	3.04	0.45
22:BB:2365:U:H4'	44:BX:37:LEU:HD12	1.96	0.45
22:BB:335:A:H2	22:BB:453:U:OP1	1.99	0.45
22:BB:807:A:H2'	22:BB:808:C:C6	2.51	0.45
24:BD:136:VAL:HG11	24:BD:165:VAL:HG21	1.98	0.45
24:BD:258:LYS:HA	24:BD:258:LYS:HE2	1.97	0.45
22:BB:2796:A:O3'	25:BE:110:GLY:HA2	2.16	0.45
26:BF:125:ILE:HG13	26:BF:126:ALA:N	2.25	0.45
26:BF:151:VAL:HG11	26:BF:188:ILE:HG23	1.98	0.45
28:BH:50:LEU:CG	28:BH:69:ARG:HD2	2.46	0.45
32:BL:21:CYS:HA	32:BL:53:ALA:HA	1.96	0.45
33:BM:104:ARG:H	33:BM:104:ARG:HD2	1.81	0.45
33:BM:75:VAL:HG23	33:BM:109:LEU:HD23	1.98	0.45
33:BM:28:LYS:HG3	33:BM:28:LYS:O	2.16	0.45
22:BB:1041:G:C5'	34:BN:119:PHE:HE2	2.14	0.45
34:BN:30:PHE:CE2	34:BN:101:GLY:HA3	2.52	0.45
34:BN:30:PHE:HE2	34:BN:101:GLY:HA3	1.80	0.45
34:BN:68:ARG:HH21	43:BW:117:VAL:CA	2.21	0.45
22:BB:2857:C:OP1	35:BO:96:ARG:CA	2.62	0.45
38:BR:31:GLN:OE1	38:BR:34:ASN:HB2	2.16	0.45
40:BT:27:VAL:HB	40:BT:125:THR:HA	1.98	0.45
41:BU:61:LYS:HA	41:BU:72:ARG:NH2	2.31	0.45
46:BZ:51:LEU:CD2	46:BZ:52:GLU:H	2.29	0.45
1:CA:1014:A:OP1	19:CS:34:TRP:CZ3	2.70	0.45
1:CA:1238:A:C2'	1:CA:1239:A:H5'	2.46	0.45
1:CA:1307:U:H4'	13:CM:109:THR:CG2	2.46	0.45
1:CA:1451:A:H4'	1:CA:1452:C:OP2	2.17	0.45
1:CA:202:G:H2'	1:CA:203:A:O4'	2.15	0.45
1:CA:489:C:H2'	1:CA:490:G:C8	2.51	0.45
1:CA:559:A:H5'	5:CE:124:GLY:H	1.79	0.45
1:CA:644:G:C1'	8:CH:92:ARG:CD	2.88	0.45
1:CA:949:A:H2'	1:CA:950:U:C6	2.52	0.45
2:CB:99:GLY:H	2:CB:101:MET:CE	2.29	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:403:C:O2'	4:CD:122:ARG:HG3	2.16	0.45
1:CA:413:G:N1	4:CD:31:CYS:HA	2.30	0.45
6:CF:74:ASP:O	6:CF:78:GLU:HB2	2.16	0.45
10:CJ:50:ILE:HG12	10:CJ:60:ARG:HD3	1.98	0.45
10:CJ:9:ARG:NH2	10:CJ:96:ILE:HA	2.31	0.45
12:CL:45:PRO:HB2	12:CL:49:ASN:HB2	1.98	0.45
13:CM:16:ASP:HB3	13:CM:41:PRO:HB3	1.97	0.45
1:CA:761:G:C5'	17:CQ:102:GLY:O	2.64	0.45
19:CS:16:LEU:CA	19:CS:19:VAL:HG12	2.43	0.45
20:CT:10:LEU:HD13	20:CT:11:SER:N	2.31	0.45
49:D3:16:ALA:HB2	49:D3:50:PHE:CD1	2.50	0.45
22:DB:930:A:N7	23:DA:83:C:H5'	2.31	0.45
23:DA:96:C:H2'	23:DA:97:C:H6	1.82	0.45
23:DA:98:C:H5	43:DW:11:LYS:HD2	1.15	0.45
22:DB:1176:U:H1'	22:DB:1198:C:O2'	2.16	0.45
22:DB:1450:G:H1'	22:DB:1493:A:H2	1.82	0.45
22:DB:1667:A:OP1	35:DO:12:ARG:NH2	2.41	0.45
22:DB:1840:A:H2'	22:DB:1841:G:O4'	2.15	0.45
22:DB:205:A:H2'	22:DB:206:U:H5''	1.98	0.45
22:DB:2240:C:P	44:DX:14:ARG:HG2	2.56	0.45
22:DB:2518:C:H2'	22:DB:2519:C:C6	2.51	0.45
22:DB:25:U:C4'	40:DT:100:GLY:C	2.85	0.45
22:DB:2653:A:H2'	22:DB:2654:A:N7	2.32	0.45
22:DB:807:A:H2'	22:DB:808:C:C6	2.51	0.45
22:DB:923:A:N3	22:DB:2243:C:C1'	2.77	0.45
24:DD:212:SER:HA	24:DD:215:LEU:HB2	1.98	0.45
22:DB:1143:A:H2	31:DK:101:THR:HG1	1.56	0.45
31:DK:156:HIS:CB	31:DK:157:PRO:HD2	2.44	0.45
31:DK:49:VAL:HG12	31:DK:87:GLN:HG3	1.97	0.45
31:DK:64:GLY:HA2	31:DK:70:PHE:CZ	2.51	0.45
32:DL:71:LYS:HE3	32:DL:101:ASN:ND2	2.31	0.45
37:DQ:5:ILE:CD1	37:DQ:6:LYS:H	2.29	0.45
37:DQ:87:LEU:HG	37:DQ:89:ASN:H	1.80	0.45
38:DR:76:TYR:O	38:DR:80:ILE:HG12	2.17	0.45
40:DT:127:ILE:HD13	40:DT:128:VAL:N	2.30	0.45
22:DB:502:A:O2'	40:DT:30:TYR:CZ	2.65	0.45
23:DA:97:C:OP1	43:DW:11:LYS:HB3	2.16	0.45
43:DW:123:VAL:C	43:DW:125:PRO:HD2	2.37	0.45
1:EA:118:U:C2'	1:EA:119:A:H5'	2.45	0.45
1:EA:1347:G:O2'	1:EA:1348:U:H6	1.98	0.45
1:EA:1433:A:O4'	37:FQ:116:ARG:NH1	2.50	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:EA:1392:G:C4'	1:EA:1531:A:P	3.04	0.45
1:EA:53:A:H2'	1:EA:54:C:O4'	2.16	0.45
1:EA:686:U:O4'	11:EK:42:TRP:CE2	2.68	0.45
1:EA:9:G:P	5:EE:121:LYS:HZ1	2.33	0.45
2:EB:131:PRO:HD2	2:EB:134:GLU:OE1	2.16	0.45
2:EB:155:LEU:HD13	2:EB:158:LEU:HA	1.98	0.45
2:EB:162:ILE:O	2:EB:184:VAL:HB	2.17	0.45
3:EC:12:LEU:HD13	14:EN:51:GLY:N	2.29	0.45
3:EC:42:LEU:O	3:EC:46:GLU:HG2	2.16	0.45
3:EC:59:ARG:HA	3:EC:64:VAL:HA	1.98	0.45
4:ED:10:ARG:HH21	4:ED:14:ARG:HE	1.63	0.45
5:EE:87:SER:OG	5:EE:133:TYR:HB2	2.15	0.45
5:EE:92:LYS:C	5:EE:92:LYS:HD3	2.37	0.45
6:EF:14:LEU:HD13	6:EF:18:GLN:CG	2.46	0.45
8:EH:31:PHE:O	8:EH:32:LYS:HG3	2.15	0.45
8:EH:58:TYR:O	8:EH:59:LEU:HG	2.16	0.45
8:EH:63:LEU:HD23	8:EH:65:TYR:OH	2.16	0.45
10:EJ:50:ILE:HG12	10:EJ:60:ARG:HD3	1.99	0.45
13:EM:71:ARG:HA	13:EM:74:VAL:HG23	1.99	0.45
22:FB:1498:G:H1	22:FB:1523:A:H1'	1.81	0.45
22:FB:1689:U:H2'	22:FB:1690:U:C5	2.52	0.45
22:FB:1698:C:H1'	22:FB:1754:G:N7	2.31	0.45
22:FB:1746:A:H2'	22:FB:1747:G:C5'	2.46	0.45
22:FB:1698:C:H1'	22:FB:1754:G:C8	2.51	0.45
22:FB:1810:U:OP2	24:FD:156:ALA:N	2.49	0.45
22:FB:1826:U:H4'	22:FB:1952:A:C2	2.51	0.45
22:FB:2240:C:O5'	44:FX:14:ARG:HG2	2.06	0.45
22:FB:2492:G:H3'	22:FB:2493:U:C6	2.50	0.45
22:FB:2518:C:H2'	22:FB:2519:C:C6	2.51	0.45
22:FB:2579:A:H62	24:FD:237:GLU:CD	2.18	0.45
22:FB:2662:C:C4	22:FB:2707:G:O2'	2.67	0.45
22:FB:3109:U:H3	22:FB:3180:U:H3	1.63	0.45
22:FB:537:C:H2'	31:FK:139:ARG:NH1	2.31	0.45
22:FB:841:G:H1	22:FB:2226:A:HO2'	1.64	0.45
22:FB:912:A:H2'	22:FB:913:A:O4'	2.16	0.45
22:FB:915:C:H2'	22:FB:916:U:C6	2.51	0.45
22:FB:944:A:H4'	46:FZ:21:GLN:HE21	1.76	0.45
22:FB:952:A:H2'	22:FB:953:G:O4'	2.16	0.45
22:FB:1811:A:OP1	24:FD:155:LEU:HB3	2.17	0.45
24:FD:222:ARG:HG2	24:FD:222:ARG:HH11	1.81	0.45
26:FF:125:ILE:HG13	26:FF:126:ALA:N	2.25	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:FF:134:ILE:HG13	26:FF:135:SER:N	2.31	0.45
28:FH:114:ILE:HG22	28:FH:114:ILE:O	2.16	0.45
22:FB:2637:C:O5'	28:FH:179:THR:CG2	2.64	0.45
33:FM:26:THR:HG22	33:FM:27:ASP:H	1.81	0.45
34:FN:102:ARG:HB3	34:FN:102:ARG:HH11	1.81	0.45
22:FB:1041:G:C5'	34:FN:119:PHE:HZ	2.06	0.45
34:FN:9:LYS:HD3	34:FN:93:TYR:CE2	2.51	0.45
35:FO:67:ALA:HB3	35:FO:68:GLN:NE2	2.30	0.45
39:FS:63:HIS:CE1	39:FS:93:ILE:HD13	2.49	0.45
34:FN:106:GLU:HB2	43:FW:115:ILE:CD1	2.31	0.45
44:FX:14:ARG:HG3	44:FX:15:ASP:N	2.31	0.45
22:FB:2315:A:N3	44:FX:70:ILE:HD11	2.25	0.45
45:FY:48:ARG:HD3	45:FY:51:ALA:CB	2.45	0.45
1:GA:1082:G:O2'	1:GA:1083:U:H5'	2.16	0.45
1:GA:1114:C:H5'	14:GN:57:ARG:CZ	2.38	0.45
1:GA:1517:G:C1'	22:HB:1902:A:C3'	2.94	0.45
1:GA:338:A:C2	1:GA:339:C:H1'	2.52	0.45
1:GA:382:A:H2'	1:GA:383:A:C8	2.51	0.45
1:GA:355:C:H5'	1:GA:389:A:OP2	2.16	0.45
1:GA:53:A:H2'	1:GA:54:C:O4'	2.16	0.45
1:GA:544:G:H2'	1:GA:545:C:C6	2.51	0.45
1:GA:949:A:H2'	1:GA:950:U:C6	2.51	0.45
3:GC:3:ASN:N	3:GC:3:ASN:HD22	2.15	0.45
3:GC:84:ILE:HG23	3:GC:85:ARG:N	2.32	0.45
5:GE:87:SER:OG	5:GE:133:TYR:HB2	2.15	0.45
7:GG:153:HIS:CE1	11:GK:59:TYR:CB	2.99	0.45
8:GH:121:ASP:HA	8:GH:124:ALA:HB3	1.98	0.45
10:GJ:9:ARG:NH2	10:GJ:96:ILE:HA	2.32	0.45
11:GK:62:GLN:CB	11:GK:93:GLN:HB3	2.46	0.45
12:GL:58:VAL:HB	12:GL:66:VAL:CG2	2.42	0.45
13:GM:16:ASP:HA	13:GM:19:LEU:HD12	1.98	0.45
16:GP:8:ARG:NH2	16:GP:15:PRO:HB3	2.32	0.45
48:H2:58:LEU:HD13	48:H2:59:ALA:N	2.31	0.45
51:H5:61:MET:O	51:H5:62:LEU:HG	2.17	0.45
51:H5:15:LYS:HD3	51:H5:64:ARG:HH12	1.80	0.45
22:HB:1140:A:N1	22:HB:2470:U:C5	2.84	0.45
22:HB:116:A:H5'	22:HB:155:G:H4'	1.98	0.45
22:HB:120:G:N3	22:HB:120:G:H2'	2.31	0.45
22:HB:1433:A:H2'	22:HB:1434:U:H5	1.81	0.45
22:HB:1982:C:H4'	22:HB:2702:G:N2	2.30	0.45
22:HB:1999:U:O2'	48:H2:8:LYS:CG	2.27	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:HB:1040:A:C1'	22:HB:2465:G:C5'	2.85	0.45
22:HB:2489:C:C4'	25:HE:126:PRO:CD	2.63	0.45
22:HB:2492:G:H2'	22:HB:2493:U:C2	2.51	0.45
22:HB:5:A:H1'	22:HB:2873:G:N2	2.30	0.45
22:HB:643:A:C2	22:HB:2382:C:O4'	2.68	0.45
24:HD:151:LYS:HE2	24:HD:151:LYS:HA	1.98	0.45
24:HD:212:SER:HA	24:HD:215:LEU:HB2	1.98	0.45
22:HB:1817:U:P	24:HD:223:GLY:CA	2.91	0.45
25:HE:59:VAL:HG12	25:HE:60:ASN:N	2.32	0.45
26:HF:104:LEU:CD2	26:HF:180:ILE:HG21	2.45	0.45
22:HB:625:A:C1'	26:HF:38:ARG:CD	2.94	0.45
27:HG:17:MET:N	27:HG:17:MET:SD	2.90	0.45
28:HH:142:GLY:O	28:HH:145:ALA:HB3	2.16	0.45
31:HK:116:ARG:HH12	31:HK:126:VAL:HG11	1.80	0.45
32:HL:122:ARG:HD3	32:HL:124:MET:HE3	1.98	0.45
33:HM:26:THR:HG22	33:HM:27:ASP:H	1.81	0.45
22:HB:2445:C:H1'	34:HN:120:ARG:HE	1.81	0.45
36:HP:13:THR:O	36:HP:17:VAL:HG12	2.16	0.45
38:HR:94:VAL:O	38:HR:97:ASP:HB2	2.16	0.45
43:HW:123:VAL:C	43:HW:125:PRO:HD2	2.36	0.45
1:IA:1517:G:H1'	22:JB:1902:A:C2'	2.46	0.45
1:IA:684:A:H1'	11:IK:38:ASN:CA	2.46	0.45
2:IB:215:LEU:HD23	2:IB:215:LEU:N	2.31	0.45
2:IB:74:LYS:HG2	2:IB:205:ASP:O	2.17	0.45
2:IB:92:TYR:O	2:IB:152:PHE:HB2	2.16	0.45
3:IC:23:TYR:CG	10:IJ:93:GLY:CA	2.65	0.45
4:ID:102:ASP:HA	4:ID:118:ARG:HB3	1.97	0.45
4:ID:169:LYS:HD2	4:ID:169:LYS:H	1.80	0.45
4:ID:85:LYS:HD3	4:ID:88:VAL:O	2.16	0.45
5:IE:102:ALA:HB1	5:IE:120:THR:HB	1.99	0.45
5:IE:79:GLU:CG	5:IE:93:PRO:HD2	2.45	0.45
7:IG:93:PRO:HA	7:IG:96:GLN:HB2	1.99	0.45
8:IH:31:PHE:O	8:IH:32:LYS:HG3	2.15	0.45
9:II:118:LYS:HB3	9:II:118:LYS:NZ	2.31	0.45
10:IJ:42:THR:HG23	10:IJ:67:THR:O	2.17	0.45
1:IA:684:A:C2'	11:IK:39:PRO:HG2	2.47	0.45
13:IM:101:GLN:OE1	13:IM:101:GLN:HA	2.16	0.45
48:J2:19:ARG:HA	48:J2:19:ARG:NH1	2.31	0.45
51:J5:12:ARG:HB3	51:J5:12:ARG:NH2	2.30	0.45
51:J5:3:LYS:HZ2	51:J5:5:LYS:HG3	1.81	0.45
22:JB:1197:U:C2'	22:JB:1198:C:C5'	2.94	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:JB:124:A:H2'	22:JB:125:A:C2	2.51	0.45
22:JB:1433:A:H2'	22:JB:1434:U:H5	1.81	0.45
22:JB:1583:A:H4'	22:JB:1584:G:C2	2.51	0.45
22:JB:1806:G:H3'	22:JB:1807:A:H8	1.79	0.45
22:JB:1680:U:O4	22:JB:1975:G:H2'	2.16	0.45
22:JB:2058:U:H2'	22:JB:2217:G:O6	2.15	0.45
22:JB:2241:U:C5'	22:JB:2307:A:C2	2.97	0.45
22:JB:2406:C:H4'	22:JB:2408:G:H1'	1.98	0.45
22:JB:2489:C:H1'	25:JE:125:GLY:HA2	1.98	0.45
22:JB:2662:C:N4	22:JB:2707:G:C2'	2.79	0.45
22:JB:2846:G:H2'	22:JB:2846:G:N3	2.31	0.45
22:JB:845:U:O2'	22:JB:846:A:H5'	2.16	0.45
22:JB:869:C:HO2'	44:JX:24:LYS:HE2	1.81	0.45
24:JD:133:LEU:HD23	24:JD:189:CYS:O	2.16	0.45
24:JD:68:LYS:HE3	24:JD:191:ALA:HA	1.97	0.45
24:JD:43:ARG:HB2	24:JD:44:ASN:H	1.37	0.45
24:JD:49:ILE:HG22	24:JD:50:THR:N	2.30	0.45
22:JB:610:G:C4'	26:JF:99:VAL:CG2	2.93	0.45
27:JG:127:ASN:H	27:JG:127:ASN:ND2	2.13	0.45
30:JJ:36:GLU:OE2	30:JJ:65:PHE:HB2	2.16	0.45
30:JJ:90:THR:O	30:JJ:91:PRO:O	2.34	0.45
31:JK:41:TRP:CD2	31:JK:79:PHE:HB2	2.51	0.45
33:JM:104:ARG:H	33:JM:104:ARG:HD2	1.81	0.45
34:JN:30:PHE:HE2	34:JN:101:GLY:HA3	1.80	0.45
1:IA:1462:G:H5''	37:JQ:119:SER:OG	2.15	0.45
22:JB:573:C:C5'	38:JR:40:LEU:HG	2.45	0.45
22:JB:64:C:C4	41:JU:70:GLY:CA	2.92	0.45
43:JW:121:GLN:O	43:JW:123:VAL:HG22	2.16	0.45
43:JW:51:LEU:CD1	43:JW:128:ARG:CG	2.83	0.45
22:JB:76:C:H5'	45:JY:56:VAL:CG1	2.46	0.45
1:AA:1016:A:H4'	1:AA:1217:C:O2'	2.17	0.45
1:AA:1187:G:C4	14:AN:61:TRP:C	2.80	0.45
1:AA:127:G:H2'	1:AA:128:G:C8	2.47	0.45
1:AA:1440:C:C4	1:AA:1441:G:H1'	2.50	0.45
1:AA:692:U:H2'	1:AA:693:G:H3'	1.97	0.45
1:AA:942:G:H2'	1:AA:943:U:C6	2.51	0.45
1:AA:619:U:C1'	4:AD:133:VAL:HG22	2.45	0.45
4:AD:169:LYS:HD2	4:AD:169:LYS:N	2.32	0.45
5:AE:143:ARG:CG	8:AH:138:TRP:CE3	3.00	0.45
9:AI:118:LYS:HB3	9:AI:118:LYS:NZ	2.31	0.45
1:AA:518:C:C4'	12:AL:49:ASN:C	2.52	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:AL:83:VAL:O	12:AL:85:ILE:HG13	2.15	0.45
13:AM:99:ARG:HH21	19:AS:2:PRO:HD3	1.80	0.45
1:AA:761:G:C5'	17:AQ:102:GLY:O	2.63	0.45
19:AS:29:ARG:HD2	19:AS:29:ARG:N	2.30	0.45
47:B1:5:LEU:HB3	47:B1:56:VAL:O	2.17	0.45
22:BB:2789:U:N1	48:B2:42:SER:HA	2.21	0.45
48:B2:45:ILE:HD11	48:B2:52:TYR:CD2	2.45	0.45
22:BB:1135:C:H1'	52:B6:36:GLN:HE21	1.81	0.45
23:BA:31:A:H2'	23:BA:32:C:H6	1.81	0.45
22:BB:1141:U:H1'	22:BB:1142:G:N7	2.24	0.45
22:BB:1148:G:C5	22:BB:1149:G:H1'	2.52	0.45
22:BB:120:G:N3	22:BB:120:G:H2'	2.31	0.45
22:BB:1388:C:H2'	22:BB:1389:C:C4'	2.46	0.45
22:BB:1706:A:H2'	22:BB:1707:A:C8	2.52	0.45
22:BB:2411:A:H1'	47:B1:27:THR:CG2	2.47	0.45
22:BB:2470:U:H3	22:BB:2548:G:C2'	2.28	0.45
22:BB:2518:C:H2'	22:BB:2519:C:C6	2.51	0.45
22:BB:2558:C:C5'	25:BE:132:LYS:CD	2.81	0.45
22:BB:553:C:N4	22:BB:556:A:O2'	2.49	0.45
22:BB:215:G:C1'	22:BB:618:A:H4'	2.46	0.45
22:BB:625:A:H5'	26:BF:38:ARG:HD2	1.93	0.45
22:BB:653:G:O3'	22:BB:654:A:H4'	2.17	0.45
22:BB:676:G:H2'	22:BB:677:G:C8	2.52	0.45
22:BB:841:G:H1	22:BB:2226:A:HO2'	1.64	0.45
22:BB:94:C:O2'	45:BY:41:HIS:CD2	2.69	0.45
24:BD:95:LEU:HD12	24:BD:104:TYR:O	2.17	0.45
25:BE:11:MET:HE3	25:BE:12:THR:H	1.80	0.45
25:BE:2:LYS:HB3	25:BE:3:GLY:H	1.50	0.45
27:BG:113:ASP:O	27:BG:115:ARG:HG3	2.16	0.45
27:BG:19:GLN:HE21	27:BG:19:GLN:HB3	1.54	0.45
34:BN:44:LYS:HA	34:BN:94:TRP:CD1	2.52	0.45
37:BQ:87:LEU:HG	37:BQ:89:ASN:H	1.81	0.45
38:BR:76:TYR:O	38:BR:80:ILE:HG12	2.16	0.45
22:BB:1240:G:O6	39:BS:73:LYS:CE	2.64	0.45
22:BB:319:G:OP1	40:BT:12:LYS:HB3	2.15	0.45
43:BW:123:VAL:C	43:BW:125:PRO:HD2	2.37	0.45
44:BX:45:PHE:H	44:BX:76:ALA:CA	2.27	0.45
45:BY:49:GLU:CD	45:BY:50:VAL:HG23	2.36	0.45
22:BB:71:A:C4'	45:BY:51:ALA:CB	2.94	0.45
1:CA:1016:A:H4'	1:CA:1217:C:O2'	2.17	0.45
1:CA:102:G:H2'	1:CA:103:C:C6	2.51	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:1063:C:H4'	1:CA:1386:G:OP1	2.15	0.45
1:CA:1171:G:H2'	1:CA:1172:C:H5	1.80	0.45
1:CA:1320:C:C2	19:CS:72:GLY:C	2.90	0.45
1:CA:1520:G:H2'	1:CA:1521:G:H8	1.81	0.45
1:CA:338:A:C2	1:CA:339:C:H1'	2.52	0.45
1:CA:619:U:H2'	1:CA:620:C:H5'	1.98	0.45
1:CA:959:A:H2'	1:CA:960:U:H4'	1.99	0.45
2:CB:106:LYS:O	2:CB:106:LYS:HD2	2.17	0.45
5:CE:102:ALA:HB1	5:CE:120:THR:HB	1.99	0.45
1:CA:16:A:H4'	5:CE:16:THR:N	2.31	0.45
8:CH:116:LYS:HD2	8:CH:127:LEU:O	2.17	0.45
13:CM:2:ALA:N	13:CM:9:ILE:HA	2.31	0.45
14:CN:23:ARG:NH1	14:CN:30:ALA:H	2.15	0.45
53:D7:147:TYR:O	53:D7:151:PHE:HB2	2.16	0.45
22:DB:1029:C:C2'	22:DB:1131:G:H21	2.29	0.45
22:DB:133:C:N3	22:DB:138:G:N1	2.64	0.45
22:DB:1742:G:H22	22:DB:1747:G:H1	1.63	0.45
22:DB:2522:G:H21	22:DB:2625:U:H5''	1.81	0.45
22:DB:416:U:H5'	22:DB:419:G:O2'	2.17	0.45
22:DB:585:U:H2'	22:DB:586:G:H8	1.81	0.45
22:DB:606:A:H2	33:DM:23:PRO:O	1.99	0.45
22:DB:719:A:N6	22:DB:739:G:H1'	2.32	0.45
22:DB:912:A:H2'	22:DB:913:A:O4'	2.16	0.45
22:DB:843:G:H1'	22:DB:956:A:C2	2.49	0.45
24:DD:22:SER:HA	24:DD:207:GLY:N	2.31	0.45
24:DD:23:GLY:HA3	24:DD:204:ILE:HG12	1.98	0.45
27:DG:125:ARG:HB2	27:DG:127:ASN:HD21	1.80	0.45
27:DG:175:LEU:HB2	27:DG:176:PRO:HD3	1.99	0.45
27:DG:53:ALA:HB1	27:DG:148:LYS:HD2	1.99	0.45
28:DH:142:GLY:O	28:DH:145:ALA:HB3	2.17	0.45
28:DH:149:ARG:N	28:DH:149:ARG:HD2	2.31	0.45
29:DI:46:LEU:O	29:DI:47:GLU:HB2	2.16	0.45
30:DJ:119:SER:H	30:DJ:123:ALA:HB2	1.82	0.45
31:DK:41:TRP:HE1	31:DK:164:GLN:CB	2.29	0.45
34:DN:33:TYR:CE2	34:DN:128:ILE:HD12	2.52	0.45
22:DB:1240:G:C5'	38:DR:16:LYS:HD3	2.42	0.45
38:DR:31:GLN:OE1	38:DR:34:ASN:HB2	2.16	0.45
22:DB:1235:C:N4	39:DS:71:ILE:HG21	2.31	0.45
40:DT:85:MET:HA	40:DT:89:ARG:NH2	2.31	0.45
40:DT:38:VAL:HG11	40:DT:97:VAL:HG11	1.97	0.45
45:DY:43:VAL:C	45:DY:45:GLN:H	2.20	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:EA:1092:A:H5'	7:EG:4:ARG:CD	2.46	0.45
1:EA:1092:A:H5''	7:EG:4:ARG:CZ	2.45	0.45
1:EA:1103:C:H1'	2:EB:108:ILE:HA	1.98	0.45
1:EA:1124:G:H2'	1:EA:1126:U:O4	2.15	0.45
1:EA:1433:A:H2'	1:EA:1434:A:O4'	2.16	0.45
1:EA:782:A:O3'	1:EA:1515:C:H4'	2.16	0.45
1:EA:423:G:H2'	1:EA:424:G:O4'	2.16	0.45
1:EA:546:G:C6	4:ED:2:GLY:CA	2.97	0.45
1:EA:599:C:O2	8:EH:129:VAL:N	2.48	0.45
1:EA:707:C:C5'	11:EK:85:ARG:NH2	2.66	0.45
1:EA:942:G:H2'	1:EA:943:U:C6	2.51	0.45
1:EA:966:G:H4'	9:EI:127:LYS:HE2	1.98	0.45
2:EB:121:LEU:HA	2:EB:124:SER:OG	2.16	0.45
3:EC:137:ALA:C	3:EC:140:ARG:HH21	2.19	0.45
4:ED:102:ASP:HA	4:ED:118:ARG:HB3	1.97	0.45
4:ED:179:GLU:O	4:ED:181:MET:HG3	2.16	0.45
9:EI:118:LYS:NZ	9:EI:118:LYS:HB3	2.31	0.45
10:EJ:60:ARG:O	10:EJ:61:GLU:CB	2.64	0.45
1:EA:452:A:O3'	16:EP:73:LEU:HD11	2.16	0.45
17:EQ:60:ILE:HG22	17:EQ:72:ARG:HB2	1.97	0.45
19:ES:16:LEU:HD12	19:ES:19:VAL:HG11	1.97	0.45
20:ET:11:SER:C	20:ET:13:LEU:H	2.20	0.45
50:F4:26:SER:HA	50:F4:29:ASN:HD21	1.82	0.45
22:FB:1682:A:H4'	32:FL:78:SER:OG	2.16	0.45
22:FB:1706:A:H2'	22:FB:1707:A:C8	2.52	0.45
22:FB:1141:U:H3	22:FB:2008:C:H5''	1.81	0.45
22:FB:2260:C:O2'	22:FB:2368:G:H1'	2.16	0.45
22:FB:24:G:H5'	40:FT:98:ASP:OD2	2.17	0.45
22:FB:2653:A:H2'	22:FB:2654:A:N7	2.32	0.45
22:FB:333:A:O2'	22:FB:350:U:H2'	2.15	0.45
22:FB:416:U:H5''	22:FB:419:G:H1'	1.99	0.45
22:FB:64:C:C5'	41:FU:71:GLN:OE1	2.65	0.45
22:FB:692:C:H2'	22:FB:693:A:C8	2.51	0.45
22:FB:82:G:O2'	22:FB:83:A:H5'	2.17	0.45
22:FB:875:G:H1'	23:FA:102:A:C2	2.51	0.45
22:FB:843:G:H1'	22:FB:956:A:C2	2.50	0.45
24:FD:136:VAL:HG11	24:FD:165:VAL:HG21	1.98	0.45
24:FD:72:LYS:HZ3	24:FD:75:VAL:HG11	1.81	0.45
24:FD:96:HIS:O	24:FD:97:TYR:HB2	2.16	0.45
29:FI:3:VAL:HG21	29:FI:18:VAL:O	2.17	0.45
30:FJ:90:THR:O	30:FJ:91:PRO:O	2.34	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:FB:548:G:O4'	31:FK:33:ILE:HG22	2.08	0.45
35:FO:97:ILE:HD12	35:FO:97:ILE:N	2.32	0.45
38:FR:28:ARG:HA	38:FR:31:GLN:HG3	1.99	0.45
22:FB:528:G:HO2'	40:FT:39:ARG:HD3	1.79	0.45
40:FT:56:LEU:HD23	40:FT:56:LEU:O	2.16	0.45
40:FT:55:ASP:H	40:FT:58:ARG:CB	2.28	0.45
40:FT:78:ASN:C	40:FT:80:LEU:H	2.19	0.45
44:FX:24:LYS:HB3	44:FX:25:LYS:H	1.50	0.45
1:GA:118:U:C2'	1:GA:119:A:H5'	2.46	0.45
1:GA:1392:G:H5''	1:GA:1530:G:O3'	2.12	0.45
1:GA:158:G:N2	1:GA:162:A:H61	2.15	0.45
1:GA:17:U:C1'	1:GA:1079:G:HO2'	2.29	0.45
1:GA:423:G:H2'	1:GA:424:G:O4'	2.15	0.45
2:GB:131:PRO:HD2	2:GB:134:GLU:OE1	2.16	0.45
2:GB:92:TYR:O	2:GB:152:PHE:HB2	2.16	0.45
3:GC:8:ILE:HG23	3:GC:11:ARG:NH2	2.31	0.45
6:GF:7:ASN:HB3	6:GF:62:TRP:HD1	1.81	0.45
11:GK:13:GLN:NE2	11:GK:75:TYR:HB3	2.29	0.45
12:GL:71:PRO:HG3	12:GL:101:VAL:HA	1.98	0.45
13:GM:48:LEU:HA	13:GM:52:GLU:OE2	2.15	0.45
16:GP:3:LYS:H	16:GP:24:ALA:HB2	1.82	0.45
17:GQ:92:ARG:NE	17:GQ:92:ARG:HA	2.30	0.45
1:GA:190:A:H2	20:GT:105:SER:HG	1.53	0.45
22:HB:2859:U:H3'	48:H2:52:TYR:O	2.14	0.45
50:H4:26:SER:HA	50:H4:29:ASN:HD21	1.81	0.45
33:HM:67:ASN:CB	51:H5:11:LYS:NZ	2.80	0.45
22:HB:3876:A:N6	53:H7:45:ASP:OD2	2.50	0.45
53:H7:58:PRO:HD2	53:H7:153:ARG:HB2	1.97	0.45
53:H7:64:VAL:HG12	53:H7:65:LEU:N	2.31	0.45
22:HB:1024:G:H2'	22:HB:1025:A:C8	2.52	0.45
22:HB:117:A:O3'	22:HB:118:U:H3'	2.17	0.45
22:HB:1583:A:H4'	22:HB:1584:G:C2	2.51	0.45
22:HB:1750:A:C2	22:HB:2676:G:C4	3.05	0.45
22:HB:1806:G:H3'	22:HB:1807:A:H8	1.79	0.45
22:HB:1811:A:O2'	22:HB:1812:U:H5''	2.16	0.45
22:HB:1828:C:HO2'	22:HB:1912:G:P	2.33	0.45
22:HB:1818:G:N2	22:HB:1883:A:H2	2.14	0.45
22:HB:1680:U:O4	22:HB:1975:G:H2'	2.16	0.45
22:HB:2194:A:O2'	47:H1:53:GLU:CD	2.54	0.45
22:HB:10:A:C4	22:HB:2608:A:N1	2.85	0.45
22:HB:3103:A:H2'	22:HB:3104:C:C6	2.52	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:HB:845:U:O2'	22:HB:846:A:H5'	2.16	0.45
22:HB:917:U:H1'	43:HW:167:THR:HG1	1.81	0.45
26:HF:125:ILE:HG13	26:HF:126:ALA:N	2.25	0.45
27:HG:113:ASP:O	27:HG:115:ARG:HG3	2.17	0.45
31:HK:139:ARG:HB3	31:HK:140:GLN:H	1.54	0.45
32:HL:71:LYS:HE3	32:HL:101:ASN:ND2	2.31	0.45
22:HB:648:A:OP1	33:HM:131:LYS:HE2	2.17	0.45
33:HM:28:LYS:HG3	33:HM:28:LYS:O	2.16	0.45
34:HN:105:PHE:HE1	34:HN:115:ALA:HB2	1.80	0.45
22:HB:2002:A:C1'	38:HR:33:ARG:HE	2.29	0.45
39:HS:65:ARG:C	39:HS:93:ILE:HG23	2.37	0.45
22:HB:1249:G:C6	40:HT:11:LYS:HB2	2.51	0.45
40:HT:48:LYS:HB3	40:HT:51:GLN:HB2	1.97	0.45
42:HV:59:LYS:HB3	42:HV:59:LYS:NZ	2.32	0.45
1:IA:1451:A:H4'	1:IA:1452:C:OP2	2.17	0.45
1:IA:619:U:H2'	1:IA:620:C:H5'	1.98	0.45
1:IA:778:G:N3	11:IK:120:ARG:HB3	2.26	0.45
3:IC:12:LEU:N	3:IC:16:ARG:HB3	2.32	0.45
3:IC:55:VAL:HG13	3:IC:68:VAL:HG22	1.97	0.45
4:ID:77:ASN:HA	4:ID:80:GLU:CG	2.46	0.45
6:IF:13:ASN:OD1	6:IF:14:LEU:HG	2.16	0.45
1:IA:674:G:P	6:IF:87:ARG:HH22	2.38	0.45
8:IH:13:ILE:C	8:IH:15:ASN:H	2.20	0.45
8:IH:78:GLN:HB3	8:IH:80:ILE:O	2.16	0.45
7:IG:16:LEU:HB2	9:II:41:VAL:C	2.37	0.45
13:IM:37:THR:HG22	13:IM:55:ARG:HE	1.82	0.45
1:IA:1321:C:C4'	13:IM:87:TYR:CG	2.99	0.45
15:IO:67:LEU:C	15:IO:71:GLN:HE21	2.20	0.45
1:IA:451:A:H4'	16:IP:72:ARG:CZ	2.47	0.45
19:IS:16:LEU:HD12	19:IS:19:VAL:HG11	1.98	0.45
1:IA:1320:C:C3'	19:IS:73:GLU:HB3	1.95	0.45
20:IT:10:LEU:HD13	20:IT:11:SER:N	2.31	0.45
1:IA:1439:C:P	20:IT:38:LYS:HE2	2.56	0.45
1:IA:192:U:C4'	20:IT:57:ARG:NH1	2.55	0.45
22:JB:2182:A:H5'	47:J1:44:THR:HG23	1.98	0.45
22:JB:2000:U:H6	48:J2:6:VAL:HG21	1.79	0.45
51:J5:15:LYS:HD3	51:J5:64:ARG:HH12	1.80	0.45
22:JB:1004:A:C2	22:JB:1172:U:C2	3.04	0.45
22:JB:1024:G:H2'	22:JB:1025:A:C8	2.52	0.45
22:JB:1082:G:H3'	22:JB:1082:G:OP1	2.15	0.45
22:JB:120:G:H2'	22:JB:120:G:N3	2.32	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:JB:119:G:H4'	22:JB:143:A:OP1	2.16	0.45
22:JB:1698:C:H1'	22:JB:1754:G:N7	2.31	0.45
22:JB:1781:C:C1'	24:JD:209:ALA:CB	2.94	0.45
22:JB:1791:C:H5'	24:JD:263:ARG:CZ	2.45	0.45
22:JB:2006:G:N2	22:JB:2024:U:H1'	2.31	0.45
22:JB:237:G:O4'	22:JB:618:A:N3	2.49	0.45
22:JB:973:U:H4'	22:JB:2475:C:O2'	2.15	0.45
22:JB:2617:G:H1	22:JB:2755:A:H2'	1.79	0.45
22:JB:3140:G:H2'	22:JB:3141:G:C8	2.51	0.45
22:JB:422:C:H2'	22:JB:423:G:H8	1.80	0.45
22:JB:573:C:C5'	38:JR:40:LEU:HB3	2.46	0.45
22:JB:891:A:H3'	22:JB:892:A:P	2.57	0.45
22:JB:971:A:H2'	22:JB:973:U:C6	2.51	0.45
22:JB:777:A:P	24:JD:210:GLY:O	2.74	0.45
24:JD:263:ARG:HH21	24:JD:264:LYS:HZ1	1.63	0.45
24:JD:48:ARG:N	24:JD:48:ARG:NE	2.65	0.45
24:JD:96:HIS:O	24:JD:97:TYR:HB2	2.15	0.45
25:JE:59:VAL:HG12	25:JE:60:ASN:N	2.32	0.45
27:JG:97:TYR:C	27:JG:99:PHE:H	2.18	0.45
28:JH:141:VAL:HG23	28:JH:142:GLY:H	1.81	0.45
22:JB:2635:U:OP2	28:JH:181:GLY:O	2.33	0.45
31:JK:116:ARG:HH12	31:JK:119:LEU:HD12	1.82	0.45
35:JO:28:LEU:HA	35:JO:32:GLY:CA	2.46	0.45
22:JB:2821:G:P	37:JQ:105:TYR:HH	2.17	0.45
22:JB:1744:G:N1	37:JQ:126:LYS:C	2.68	0.45
37:JQ:32:THR:H	37:JQ:56:ALA:HB1	1.81	0.45
40:JT:56:LEU:O	40:JT:56:LEU:HD23	2.16	0.45
22:JB:319:G:C4'	42:JV:28:LYS:HA	2.43	0.45
1:AA:1063:C:H4'	1:AA:1386:G:OP1	2.16	0.45
1:AA:1146:A:C2	9:AI:5:TYR:HE1	2.33	0.45
1:AA:1347:G:O2'	1:AA:1348:U:H6	1.98	0.45
1:AA:338:A:C2	1:AA:339:C:H1'	2.52	0.45
1:AA:554:C:N4	1:AA:555:C:H41	2.14	0.45
1:AA:709:G:H2'	1:AA:710:G:H8	1.82	0.45
1:AA:910:C:H2'	1:AA:911:U:H6	1.82	0.45
2:AB:51:LEU:C	2:AB:53:ARG:H	2.20	0.45
5:AE:88:LYS:HG2	5:AE:123:LEU:O	2.16	0.45
6:AF:14:LEU:HD13	6:AF:18:GLN:CG	2.46	0.45
10:AJ:50:ILE:HG12	10:AJ:60:ARG:HD3	1.98	0.45
16:AP:71:ARG:HG2	16:AP:75:ARG:NH2	2.31	0.45
1:AA:276:G:N3	17:AQ:68:ARG:NH1	2.63	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:846:C:P	18:AR:23:LYS:HZ1	2.31	0.45
1:AA:1320:C:C1'	19:AS:73:GLU:CA	2.82	0.45
48:B2:19:ARG:HA	48:B2:19:ARG:NH1	2.31	0.45
22:BB:1656:U:H2'	22:BB:1657:A:C4'	2.46	0.45
22:BB:1987:G:H2'	22:BB:1987:G:N3	2.32	0.45
22:BB:1141:U:H3	22:BB:2008:C:H5''	1.81	0.45
22:BB:205:A:H2'	22:BB:206:U:H5''	1.99	0.45
22:BB:2653:A:H2'	22:BB:2654:A:N7	2.32	0.45
22:BB:340:G:H1'	22:BB:488:A:N7	2.32	0.45
22:BB:424:G:H5'	22:BB:425:A:OP1	2.17	0.45
22:BB:648:A:H4'	22:BB:649:G:C4'	2.46	0.45
22:BB:912:A:H2'	22:BB:913:A:O4'	2.16	0.45
24:BD:143:HIS:CD2	24:BD:196:VAL:HA	2.52	0.45
24:BD:23:GLY:HA3	24:BD:204:ILE:HG12	1.99	0.45
24:BD:243:GLY:N	24:BD:244:ARG:NH2	2.65	0.45
27:BG:97:TYR:C	27:BG:99:PHE:H	2.17	0.45
31:BK:41:TRP:CD2	31:BK:79:PHE:HB2	2.51	0.45
33:BM:139:ARG:CZ	33:BM:141:VAL:HG21	2.47	0.45
33:BM:26:THR:HG22	33:BM:27:ASP:H	1.81	0.45
23:BA:91:A:N6	34:BN:21:ASP:OD1	2.49	0.45
23:BA:93:G:H4'	34:BN:23:LYS:HG3	1.98	0.45
34:BN:99:LYS:HZ1	43:BW:73:LYS:NZ	2.14	0.45
37:BQ:70:LYS:HD2	37:BQ:106:TYR:HA	1.98	0.45
22:BB:828:C:C4'	39:BS:86:HIS:NE2	2.78	0.45
43:BW:96:VAL:HA	43:BW:97:PRO:HD2	1.37	0.45
22:BB:2344:G:C5'	44:BX:41:ARG:C	2.82	0.45
45:BY:43:VAL:C	45:BY:45:GLN:H	2.20	0.45
1:CA:1187:G:H1'	14:CN:61:TRP:N	2.30	0.45
1:CA:1188:A:H5''	10:CJ:51:ARG:NH2	2.29	0.45
1:CA:1374:A:P	7:CG:36:LYS:HZ2	2.39	0.45
1:CA:160:A:N1	1:CA:343:U:H1'	2.31	0.45
1:CA:158:G:N2	1:CA:162:A:H61	2.15	0.45
1:CA:280:C:C6	17:CQ:88:TYR:OH	2.63	0.45
1:CA:355:C:H5'	1:CA:389:A:OP2	2.16	0.45
1:CA:396:G:H2'	1:CA:398:C:C5	2.51	0.45
1:CA:520:A:H5''	12:CL:52:LEU:C	2.28	0.45
1:CA:554:C:N4	1:CA:555:C:H41	2.14	0.45
1:CA:761:G:OP1	17:CQ:102:GLY:N	2.49	0.45
2:CB:116:GLU:HA	2:CB:153:ARG:HD3	1.98	0.45
3:CC:137:ALA:C	3:CC:140:ARG:HH21	2.19	0.45
5:CE:104:ALA:HA	5:CE:107:ARG:CZ	2.45	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:CE:107:ARG:O	5:CE:111:GLU:HG3	2.17	0.45
5:CE:121:LYS:HG3	5:CE:123:LEU:HG	1.99	0.45
5:CE:87:SER:OG	5:CE:133:TYR:HB2	2.16	0.45
5:CE:35:GLY:HA3	5:CE:41:VAL:HG12	1.98	0.45
5:CE:79:GLU:CG	5:CE:93:PRO:HD2	2.44	0.45
7:CG:31:MET:HE3	7:CG:34:GLY:HA2	1.97	0.45
13:CM:73:GLU:O	13:CM:73:GLU:HG2	2.17	0.45
13:CM:81:LEU:HD12	13:CM:92:HIS:CE1	2.52	0.45
1:CA:994:A:H2	14:CN:5:ALA:HB2	1.81	0.45
48:D2:6:VAL:HB	48:D2:7:PRO:HD2	1.99	0.45
22:DB:2325:A:C2	49:D3:25:THR:HB	2.51	0.45
53:D7:64:VAL:HG12	53:D7:65:LEU:N	2.31	0.45
22:DB:1312:G:H4'	22:DB:1314:A:C4	2.52	0.45
22:DB:1987:G:H2'	22:DB:1987:G:N3	2.32	0.45
22:DB:2007:G:H5'	25:DE:149:ARG:CG	2.44	0.45
22:DB:416:U:H5''	22:DB:419:G:H1'	1.99	0.45
22:DB:435:A:H3'	22:DB:436:A:O4'	2.16	0.45
22:DB:61:U:N3	22:DB:91:A:N1	2.64	0.45
22:DB:676:G:H2'	22:DB:677:G:C8	2.52	0.45
22:DB:7:G:O2'	31:DK:163:PRO:CG	2.53	0.45
22:DB:971:A:H2'	22:DB:973:U:C6	2.51	0.45
24:DD:11:PRO:CD	24:DD:24:LEU:H	2.29	0.45
25:DE:105:THR:HG22	25:DE:164:ARG:NH1	2.31	0.45
29:DI:3:VAL:HG21	29:DI:18:VAL:O	2.17	0.45
32:DL:98:ILE:HG23	32:DL:106:ARG:O	2.16	0.45
33:DM:104:ARG:H	33:DM:104:ARG:HD2	1.81	0.45
33:DM:75:VAL:HG23	33:DM:109:LEU:HD23	1.97	0.45
22:DB:2463:G:HO2'	34:DN:121:LEU:HA	1.82	0.45
34:DN:98:VAL:HG22	34:DN:99:LYS:H	1.82	0.45
35:DO:67:ALA:HB3	35:DO:68:GLN:NE2	2.30	0.45
22:DB:1162:A:C2	38:DR:78:THR:CG2	2.91	0.45
22:DB:507:A:P	40:DT:20:LEU:C	2.85	0.45
40:DT:55:ASP:H	40:DT:58:ARG:CB	2.29	0.45
1:EA:1063:C:H4'	1:EA:1386:G:OP1	2.16	0.45
1:EA:1171:G:H2'	1:EA:1172:C:H5	1.79	0.45
1:EA:1206:G:C2'	3:EC:193:TYR:HB2	2.46	0.45
1:EA:1016:A:H4'	1:EA:1217:C:O2'	2.17	0.45
1:EA:355:C:H5'	1:EA:389:A:OP2	2.16	0.45
1:EA:396:G:H2'	1:EA:398:C:C5	2.51	0.45
1:EA:554:C:N4	1:EA:555:C:H41	2.14	0.45
1:EA:707:C:O2'	11:EK:31:THR:HG21	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:EA:779:C:O2'	11:EK:120:ARG:NH2	2.50	0.45
2:EB:119:GLU:C	2:EB:121:LEU:H	2.19	0.45
2:EB:211:ILE:HA	2:EB:214:ILE:CG1	2.47	0.45
2:EB:215:LEU:HD23	2:EB:215:LEU:N	2.31	0.45
6:EF:22:GLU:O	6:EF:26:ILE:HG13	2.16	0.45
8:EH:17:THR:HB	8:EH:65:TYR:HE2	1.80	0.45
10:EJ:42:THR:HG23	10:EJ:67:THR:O	2.17	0.45
12:EL:33:ARG:HD3	12:EL:60:LEU:HB3	1.97	0.45
1:EA:1308:U:C3'	13:EM:99:ARG:HH11	1.92	0.45
23:FA:96:C:H2'	23:FA:97:C:H6	1.82	0.45
22:FB:1036:G:H2'	22:FB:1036:G:N3	2.31	0.45
22:FB:1167:A:H5''	22:FB:1168:G:N7	2.30	0.45
22:FB:120:G:H2'	22:FB:120:G:N3	2.31	0.45
22:FB:1987:G:N3	22:FB:1987:G:H2'	2.32	0.45
22:FB:205:A:H2'	22:FB:206:U:H5''	1.98	0.45
22:FB:3177:C:O2'	53:F7:163:PRO:HD2	2.17	0.45
22:FB:435:A:H3'	22:FB:436:A:O4'	2.16	0.45
22:FB:648:A:H4'	22:FB:649:G:C4'	2.46	0.45
22:FB:677:G:H2'	22:FB:678:G:O4'	2.15	0.45
24:FD:11:PRO:CD	24:FD:24:LEU:H	2.29	0.45
24:FD:143:HIS:CD2	24:FD:196:VAL:HA	2.52	0.45
22:FB:330:C:OP2	26:FF:131:LYS:CE	2.64	0.45
27:FG:17:MET:N	27:FG:17:MET:SD	2.90	0.45
30:FJ:54:PRO:HD2	30:FJ:72:PRO:CG	2.46	0.45
33:FM:139:ARG:CZ	33:FM:141:VAL:HG21	2.47	0.45
34:FN:12:LYS:HZ3	34:FN:13:GLN:N	2.14	0.45
34:FN:30:PHE:HE2	34:FN:101:GLY:HA3	1.80	0.45
22:FB:2463:G:C5'	34:FN:47:GLN:CG	2.92	0.45
35:FO:28:LEU:HA	35:FO:32:GLY:CA	2.46	0.45
25:FE:19:ARG:NE	37:FQ:65:SER:HA	2.10	0.45
22:FB:544:U:P	38:FR:22:LYS:HZ2	2.38	0.45
22:FB:1167:A:N7	38:FR:55:ARG:NH2	2.60	0.45
1:GA:1053:G:C3'	1:GA:1054:C:H5'	2.46	0.45
1:GA:1226:C:H5	13:GM:104:ARG:CB	2.28	0.45
1:GA:1443:G:H2'	1:GA:1445:U:O5'	2.17	0.45
1:GA:119:A:N6	1:GA:240:C:N3	2.65	0.45
1:GA:376:G:H2'	1:GA:377:G:H8	1.82	0.45
1:GA:694:A:C5'	11:GK:53:SER:CA	2.94	0.45
1:GA:741:G:H1'	15:GO:49:ASP:CG	2.36	0.45
1:GA:864:A:OP1	5:GE:86:ALA:CB	2.35	0.45
4:GD:19:LEU:HD13	4:GD:67:ILE:HG12	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:GD:77:ASN:HA	4:GD:80:GLU:CG	2.47	0.45
5:GE:107:ARG:O	5:GE:111:GLU:HG3	2.17	0.45
6:GF:13:ASN:OD1	6:GF:14:LEU:HG	2.16	0.45
10:GJ:42:THR:HG23	10:GJ:67:THR:O	2.16	0.45
10:GJ:8:LEU:HB2	10:GJ:70:ARG:HG2	1.98	0.45
15:GO:67:LEU:C	15:GO:71:GLN:HE21	2.20	0.45
17:GQ:60:ILE:HG22	17:GQ:72:ARG:HB2	1.97	0.45
19:GS:16:LEU:HD12	19:GS:19:VAL:HG11	1.97	0.45
20:GT:40:ALA:HA	20:GT:55:ILE:HD13	1.97	0.45
20:GT:49:ALA:O	20:GT:53:LEU:HG	2.17	0.45
22:HB:1041:G:H5''	34:HN:119:PHE:HZ	1.65	0.45
22:HB:1146:G:H1'	22:HB:2021:G:H5'	1.99	0.45
22:HB:1261:G:H3'	38:HR:3:ARG:N	2.25	0.45
22:HB:119:G:H4'	22:HB:143:A:OP1	2.16	0.45
22:HB:1672:A:H2'	22:HB:1673:C:O4'	2.15	0.45
22:HB:1912:G:N3	22:HB:1912:G:C2'	2.79	0.45
22:HB:1993:G:OP1	40:HT:33:MET:HB2	2.16	0.45
22:HB:2006:G:N2	22:HB:2024:U:H1'	2.31	0.45
22:HB:2334:C:C5'	44:HX:21:LEU:CG	2.94	0.45
22:HB:2481:G:H5''	22:HB:2482:A:C4'	2.46	0.45
22:HB:2662:C:H2'	32:HL:82:LYS:HZ2	1.79	0.45
22:HB:2797:G:H21	22:HB:2798:A:H4'	1.82	0.45
22:HB:490:A:C5'	42:HV:3:ARG:C	2.83	0.45
22:HB:767:G:H2'	22:HB:768:U:C6	2.52	0.45
22:HB:825:C:P	33:HM:33:GLY:HA3	2.56	0.45
22:HB:986:A:O2'	22:HB:987:G:H5'	2.16	0.45
24:HD:11:PRO:CD	24:HD:24:LEU:H	2.28	0.45
24:HD:258:LYS:HE2	24:HD:258:LYS:HA	1.97	0.45
26:HF:134:ILE:HG13	26:HF:135:SER:N	2.31	0.45
27:HG:125:ARG:HB2	27:HG:127:ASN:HD21	1.80	0.45
27:HG:5:LYS:HD2	27:HG:8:TYR:CD1	2.52	0.45
27:HG:67:ILE:HG23	27:HG:68:THR:O	2.17	0.45
31:HK:49:VAL:HG12	31:HK:87:GLN:HG3	1.97	0.45
35:HO:28:LEU:HA	35:HO:32:GLY:CA	2.46	0.45
37:HQ:100:ARG:HH12	37:HQ:121:ARG:NH1	2.13	0.45
38:HR:76:TYR:CG	38:HR:77:SER:N	2.84	0.45
22:HB:1237:G:H5''	39:HS:87:ARG:HB3	1.97	0.45
22:HB:510:G:H22	40:HT:19:LYS:N	2.14	0.45
40:HT:55:ASP:HA	40:HT:59:PHE:H	1.80	0.45
41:HU:4:TYR:OH	45:HY:18:ILE:HG22	2.09	0.45
1:IA:102:G:H2'	1:IA:103:C:C6	2.51	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:IA:864:A:C3'	1:IA:1078:U:O2	2.31	0.45
1:IA:1082:G:O2'	1:IA:1083:U:H5'	2.16	0.45
1:IA:118:U:C2'	1:IA:119:A:H5'	2.46	0.45
1:IA:1277:C:O2'	1:IA:1278:U:H5'	2.16	0.45
1:IA:1348:U:OP1	9:II:118:LYS:HB3	2.16	0.45
1:IA:1373:G:H5''	7:IG:36:LYS:CB	2.43	0.45
1:IA:1378:C:C5	1:IA:1379:G:H1'	2.52	0.45
1:IA:119:A:N6	1:IA:240:C:N3	2.65	0.45
1:IA:544:G:H2'	1:IA:545:C:C6	2.51	0.45
1:IA:554:C:N4	1:IA:555:C:H41	2.14	0.45
1:IA:927:G:N9	1:IA:1531:A:C2'	2.79	0.45
2:IB:131:PRO:HD2	2:IB:134:GLU:OE1	2.16	0.45
2:IB:51:LEU:C	2:IB:53:ARG:H	2.20	0.45
3:IC:184:TYR:OH	3:IC:198:VAL:HB	2.17	0.45
4:ID:19:LEU:HD13	4:ID:67:ILE:HG12	1.99	0.45
9:II:28:VAL:HB	9:II:31:GLN:O	2.17	0.45
10:IJ:33:GLN:O	10:IJ:33:GLN:HG2	2.16	0.45
14:IN:23:ARG:NH1	14:IN:30:ALA:H	2.14	0.45
1:IA:608:A:N3	16:IP:31:LYS:CD	2.68	0.45
19:IS:49:ILE:HD12	19:IS:60:VAL:HG12	1.97	0.45
22:JB:3167:U:N3	53:J7:98:ARG:HD2	2.31	0.45
23:JA:92:G:H3'	23:JA:93:G:H8	1.81	0.45
22:JB:1333:G:H2'	22:JB:1334:A:H5''	1.98	0.45
22:JB:1629:G:C5'	50:J4:3:ARG:CG	2.93	0.45
22:JB:1689:U:H2'	22:JB:1690:U:C5	2.52	0.45
22:JB:2186:G:O2'	24:JD:150:GLY:C	2.55	0.45
22:JB:2407:G:H3'	22:JB:2408:G:P	2.57	0.45
22:JB:2528:G:C6	22:JB:2539:C:C4	3.03	0.45
22:JB:2727:G:C6	22:JB:2735:C:H5''	2.52	0.45
22:JB:2795:A:N7	25:JE:192:ASN:CB	2.78	0.45
22:JB:3106:U:H2'	22:JB:3107:G:O2'	2.16	0.45
22:JB:648:A:H4'	22:JB:649:G:C4'	2.46	0.45
22:JB:800:U:C3'	22:JB:804:C:H41	2.28	0.45
24:JD:201:HIS:ND1	24:JD:204:ILE:HG21	2.32	0.45
24:JD:47:GLY:HA2	24:JD:48:ARG:CZ	2.46	0.45
22:JB:1087:C:H4'	30:JJ:90:THR:CG2	2.23	0.45
32:JL:71:LYS:HE3	32:JL:101:ASN:ND2	2.31	0.45
34:JN:30:PHE:CE2	34:JN:101:GLY:HA3	2.51	0.45
40:JT:73:ASN:H	40:JT:73:ASN:ND2	2.15	0.45
22:JB:510:G:OP1	42:JV:52:ASN:O	2.35	0.45
22:JB:338:G:H5'	42:JV:9:HIS:HB3	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:JW:123:VAL:C	43:JW:125:PRO:HD2	2.37	0.45
46:JZ:5:LEU:CD1	46:JZ:31:SER:HB3	2.44	0.45
1:AA:102:G:H2'	1:AA:103:C:C6	2.51	0.45
1:AA:1113:C:H2'	1:AA:1114:C:O4'	2.16	0.45
1:AA:1131:G:OP1	9:AI:3:GLN:HB2	2.16	0.45
1:AA:1433:A:H2'	1:AA:1434:A:O4'	2.16	0.45
1:AA:1443:G:H2'	1:AA:1445:U:O5'	2.17	0.45
1:AA:238:G:O2'	1:AA:239:U:H5'	2.17	0.45
1:AA:29:G:C4'	1:AA:295:C:H4'	2.33	0.45
1:AA:620:C:H4'	4:AD:138:TYR:CD1	2.40	0.45
2:AB:116:GLU:HA	2:AB:153:ARG:HD3	1.99	0.45
2:AB:8:LYS:H	2:AB:8:LYS:HD2	1.80	0.45
3:AC:137:ALA:C	3:AC:140:ARG:HH21	2.19	0.45
4:AD:97:LEU:HD23	4:AD:100:ARG:HD2	1.99	0.45
5:AE:79:GLU:CG	5:AE:93:PRO:HD2	2.45	0.45
6:AF:71:ARG:O	6:AF:75:LEU:HB2	2.15	0.45
1:AA:1129:C:O2'	9:AI:20:ARG:NH1	2.50	0.45
10:AJ:12:ASP:O	10:AJ:15:THR:HG22	2.16	0.45
10:AJ:9:ARG:NH2	10:AJ:96:ILE:HA	2.32	0.45
11:AK:66:LEU:O	11:AK:70:LYS:HE3	2.17	0.45
12:AL:71:PRO:HG3	12:AL:101:VAL:HA	1.98	0.45
15:AO:67:LEU:C	15:AO:71:GLN:HE21	2.20	0.45
1:AA:720:C:O3'	18:AR:52:PRO:HA	2.17	0.45
1:AA:734:G:C2'	18:AR:71:LYS:NZ	2.72	0.45
22:BB:2062:U:H4'	47:B1:32:HIS:NE2	2.31	0.45
50:B4:21:ARG:HG3	50:B4:31:LEU:HB2	1.98	0.45
50:B4:21:ARG:HG3	50:B4:31:LEU:HD13	1.99	0.45
50:B4:26:SER:HA	50:B4:29:ASN:HD21	1.82	0.45
50:B4:35:ARG:HG3	50:B4:42:LEU:HD11	1.99	0.45
51:B5:61:MET:O	51:B5:62:LEU:HG	2.16	0.45
53:B7:165:VAL:HG12	53:B7:167:VAL:CG2	2.47	0.45
22:BB:1236:G:O6	39:BS:73:LYS:HD2	2.17	0.45
22:BB:1698:C:H1'	22:BB:1754:G:C8	2.51	0.45
22:BB:1778:U:H2'	22:BB:1779:C:H6	1.81	0.45
22:BB:541:C:C2	22:BB:2002:A:H2	2.34	0.45
22:BB:2272:A:H2'	22:BB:2273:C:C6	2.51	0.45
22:BB:2370:G:O2'	22:BB:2371:A:P	2.75	0.45
22:BB:435:A:H3'	22:BB:436:A:O4'	2.16	0.45
22:BB:94:C:H2'	45:BY:41:HIS:CD2	2.51	0.45
22:BB:843:G:H1'	22:BB:956:A:C2	2.50	0.45
24:BD:212:SER:HA	24:BD:215:LEU:HB2	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BD:96:HIS:O	24:BD:97:TYR:HB2	2.15	0.45
27:BG:175:LEU:HB2	27:BG:176:PRO:HD3	1.99	0.45
22:BB:1018:C:H1'	31:BK:133:GLY:O	2.16	0.45
43:BW:67:LYS:HG3	43:BW:128:ARG:HH12	1.75	0.45
46:BZ:15:ASN:HA	46:BZ:18:LYS:HE3	1.99	0.45
1:CA:118:U:C2'	1:CA:119:A:H5'	2.46	0.45
1:CA:1234:C:O4'	1:CA:1364:U:H1'	2.15	0.45
1:CA:238:G:O2'	1:CA:239:U:H5'	2.17	0.45
1:CA:407:G:H1'	4:CD:116:GLN:HG3	1.80	0.45
1:CA:692:U:H2'	1:CA:693:G:H3'	1.97	0.45
2:CB:9:GLU:OE2	2:CB:11:LEU:HB2	2.17	0.45
3:CC:123:GLN:HB3	3:CC:128:PHE:HB2	1.99	0.45
4:CD:102:ASP:HA	4:CD:118:ARG:HB3	1.98	0.45
1:CA:407:G:O2'	4:CD:116:GLN:CB	2.65	0.45
4:CD:169:LYS:HD2	4:CD:169:LYS:N	2.32	0.45
6:CF:10:LEU:HB3	6:CF:85:VAL:CA	2.47	0.45
7:CG:73:MET:HG3	7:CG:144:MET:O	2.16	0.45
1:CA:1382:C:H5'	7:CG:79:ARG:CG	2.47	0.45
11:CK:105:VAL:HG12	11:CK:106:LYS:N	2.32	0.45
12:CL:36:VAL:O	12:CL:58:VAL:HA	2.17	0.45
13:CM:16:ASP:HA	13:CM:19:LEU:HD12	1.98	0.45
1:CA:741:G:C1'	15:CO:52:SER:HA	2.42	0.45
15:CO:71:GLN:HB3	15:CO:78:TYR:CE1	2.50	0.45
19:CS:9:VAL:O	19:CS:11:VAL:HG23	2.17	0.45
48:D2:19:ARG:NH1	48:D2:19:ARG:HA	2.31	0.45
22:DB:700:C:H5''	50:D4:4:THR:CA	2.47	0.45
51:D5:61:MET:O	51:D5:62:LEU:HG	2.17	0.45
53:D7:34:LEU:HA	53:D7:204:TYR:HB2	1.99	0.45
53:D7:208:THR:HG22	53:D7:209:MSE:HG3	1.99	0.45
22:DB:1166:A:C4	22:DB:1168:G:C8	3.05	0.45
22:DB:181:A:C4'	22:DB:182:G:H4'	2.44	0.45
22:DB:1887:G:N2	22:DB:1912:G:C4'	2.72	0.45
22:DB:1883:A:N7	22:DB:1953:A:N6	2.64	0.45
22:DB:2279:G:H2'	22:DB:2280:A:C8	2.52	0.45
22:DB:2525:U:H1'	22:DB:2544:A:C2	2.51	0.45
22:DB:2752:C:O4'	25:DE:166:THR:HG22	2.09	0.45
22:DB:2851:G:H21	22:DB:2852:G:H1'	1.81	0.45
22:DB:508:G:C8	40:DT:21:ARG:NH1	2.79	0.45
22:DB:508:G:N7	40:DT:21:ARG:NH1	2.61	0.45
22:DB:955:G:N3	22:DB:955:G:H2'	2.30	0.45
24:DD:143:HIS:CD2	24:DD:196:VAL:HA	2.51	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:DD:218:LYS:HA	24:DD:219:PRO:HD3	1.80	0.45
24:DD:64:ILE:HG22	24:DD:65:ILE:N	2.31	0.45
24:DD:95:LEU:HD12	24:DD:104:TYR:O	2.17	0.45
28:DH:50:LEU:CG	28:DH:69:ARG:HD2	2.46	0.45
30:DJ:36:GLU:OE2	30:DJ:65:PHE:HB2	2.16	0.45
33:DM:139:ARG:CZ	33:DM:141:VAL:HG21	2.47	0.45
34:DN:91:VAL:HG22	34:DN:91:VAL:O	2.17	0.45
22:DB:1008:G:P	38:DR:92:ARG:HH21	2.26	0.45
40:DT:73:ASN:HD22	40:DT:73:ASN:N	2.11	0.45
43:DW:124:ALA:CB	43:DW:160:LEU:H	2.29	0.45
44:DX:14:ARG:HG3	44:DX:15:ASP:N	2.31	0.45
1:EA:242:C:OP1	12:EL:16:GLU:CG	2.65	0.45
1:EA:709:G:H2'	1:EA:710:G:H8	1.82	0.45
1:EA:771:G:N2	24:FD:5:LYS:HD2	2.29	0.45
1:EA:973:G:C1'	10:EJ:54:PHE:HE2	2.27	0.45
2:EB:152:PHE:CZ	2:EB:155:LEU:HD12	2.52	0.45
2:EB:55:PHE:CD1	2:EB:221:LEU:HG	2.51	0.45
3:EC:189:ALA:HB3	3:EC:196:LEU:H	1.81	0.45
3:EC:55:VAL:HG13	3:EC:68:VAL:HG22	1.97	0.45
4:ED:169:LYS:H	4:ED:169:LYS:HD2	1.80	0.45
4:ED:19:LEU:HD13	4:ED:67:ILE:HG12	1.99	0.45
5:EE:35:GLY:HA3	5:EE:41:VAL:HG12	1.99	0.45
1:EA:966:G:C4'	9:EI:127:LYS:HE2	2.47	0.45
13:EM:16:ASP:HA	13:EM:19:LEU:HD12	1.98	0.45
13:EM:48:LEU:HA	13:EM:52:GLU:OE2	2.16	0.45
13:EM:89:GLY:O	13:EM:92:HIS:ND1	2.48	0.45
15:EO:67:LEU:C	15:EO:71:GLN:HE21	2.20	0.45
17:EQ:7:THR:HG22	17:EQ:56:VAL:HG12	1.98	0.45
20:ET:10:LEU:HD13	20:ET:11:SER:N	2.31	0.45
20:ET:49:ALA:O	20:ET:53:LEU:HG	2.17	0.45
51:F5:23:MET:HA	51:F5:48:PHE:CE1	2.52	0.45
53:F7:64:VAL:HG12	53:F7:65:LEU:N	2.31	0.45
22:FB:123:A:C3'	50:F4:14:LYS:HA	2.25	0.45
22:FB:1388:C:H2'	22:FB:1389:C:C4'	2.46	0.45
22:FB:1840:A:H2'	22:FB:1841:G:O4'	2.16	0.45
22:FB:1934:U:H2'	22:FB:1935:A:C8	2.51	0.45
22:FB:199:A:C2	22:FB:201:G:H1'	2.52	0.45
22:FB:2272:A:H2'	22:FB:2273:C:C6	2.51	0.45
22:FB:424:G:H5'	22:FB:425:A:OP1	2.17	0.45
22:FB:631:G:C2'	33:FM:101:ARG:HH21	2.30	0.45
22:FB:807:A:H2'	22:FB:808:C:C6	2.52	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:FD:133:LEU:HD23	24:FD:189:CYS:O	2.16	0.45
24:FD:95:LEU:HD12	24:FD:104:TYR:O	2.16	0.45
26:FF:104:LEU:CD2	26:FF:180:ILE:HG21	2.45	0.45
26:FF:40:ARG:HB3	26:FF:40:ARG:NH1	2.31	0.45
22:FB:1271:C:O2	26:FF:78:VAL:HG11	2.16	0.45
27:FG:53:ALA:HB1	27:FG:148:LYS:HD2	1.99	0.45
27:FG:5:LYS:HD2	27:FG:8:TYR:CD1	2.52	0.45
30:FJ:39:LYS:HB3	30:FJ:39:LYS:HZ2	1.80	0.45
38:FR:47:TYR:CA	39:FS:75:LYS:H	2.29	0.45
22:FB:489:A:H1'	42:FV:74:LEU:HD12	1.97	0.45
1:GA:1060:C:H1'	10:GJ:56:HIS:CG	2.50	0.45
1:GA:1397:C:O2'	1:GA:1398:A:OP2	2.32	0.45
1:GA:1451:A:H4'	1:GA:1452:C:OP2	2.17	0.45
1:GA:925:G:C2	1:GA:1503:A:OP1	2.67	0.45
1:GA:254:G:H2'	17:GQ:17:LYS:HD2	1.30	0.45
1:GA:688:G:H1'	1:GA:704:A:C2	2.51	0.45
1:GA:716:A:O2'	1:GA:717:C:H5'	2.17	0.45
1:GA:720:C:H2'	1:GA:721:G:N7	2.31	0.45
1:GA:13:U:O2	1:GA:914:A:C8	2.69	0.45
1:GA:951:G:N3	13:GM:126:LYS:HG3	2.20	0.45
2:GB:106:LYS:HD2	2:GB:106:LYS:O	2.17	0.45
3:GC:55:VAL:HG13	3:GC:68:VAL:HG22	1.97	0.45
4:GD:169:LYS:HD2	4:GD:169:LYS:N	2.32	0.45
5:GE:88:LYS:HG2	5:GE:123:LEU:O	2.16	0.45
5:GE:139:LEU:HA	5:GE:142:LEU:HD12	1.98	0.45
7:GG:119:ARG:O	7:GG:123:GLU:HB2	2.17	0.45
7:GG:153:HIS:O	7:GG:155:ARG:HG3	2.17	0.45
7:GG:95:ARG:HH11	7:GG:95:ARG:HG3	1.81	0.45
8:GH:58:TYR:O	8:GH:59:LEU:HG	2.17	0.45
9:GI:118:LYS:O	9:GI:119:ALA:HB3	2.16	0.45
11:GK:51:LYS:HG2	11:GK:55:LYS:NZ	2.32	0.45
1:GA:951:G:C2	13:GM:126:LYS:CG	2.94	0.45
22:HB:1381:G:C5	47:H1:1:MET:HB2	2.46	0.45
47:H1:5:LEU:N	47:H1:5:LEU:HD22	2.32	0.45
22:HB:1057:A:H3'	22:HB:1058:G:H5''	1.98	0.45
22:HB:1333:G:H2'	22:HB:1334:A:H5''	1.98	0.45
22:HB:1348:C:H2'	22:HB:1349:A:C8	2.51	0.45
22:HB:122:G:OP1	22:HB:1389:C:O3'	2.35	0.45
22:HB:167:A:H2	22:HB:692:C:H1'	1.81	0.45
22:HB:1689:U:H2'	22:HB:1690:U:C5	2.52	0.45
1:GA:1475:G:C5'	22:HB:1706:A:H4'	2.43	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:HB:1742:G:H22	22:HB:1747:G:H1	1.63	0.45
22:HB:1987:G:N3	22:HB:1987:G:H2'	2.32	0.45
22:HB:2019:C:H2'	22:HB:2020:G:H8	1.81	0.45
22:HB:2620:G:H5''	31:HK:102:ARG:CZ	2.44	0.45
22:HB:2768:C:O2	22:HB:2866:A:C2	2.68	0.45
22:HB:505:G:C3'	40:HT:83:ASP:HB2	2.42	0.45
22:HB:648:A:H4'	22:HB:649:G:C4'	2.46	0.45
22:HB:807:A:H2'	22:HB:808:C:C6	2.52	0.45
24:HD:23:GLY:HA3	24:HD:204:ILE:HG12	1.99	0.45
24:HD:48:ARG:N	24:HD:48:ARG:NE	2.65	0.45
22:HB:1805:G:C4	24:HD:51:SER:HB2	2.43	0.45
28:HH:149:ARG:N	28:HH:149:ARG:HD2	2.31	0.45
30:HJ:111:LYS:HD3	30:HJ:124:ALA:HA	1.98	0.45
22:HB:681:A:P	33:HM:48:PHE:CZ	3.09	0.45
33:HM:75:VAL:HG23	33:HM:109:LEU:HD23	1.97	0.45
32:HL:89:ILE:CA	37:HQ:81:PHE:HB3	2.44	0.45
39:HS:36:LYS:HA	39:HS:36:LYS:HZ3	1.79	0.45
40:HT:39:ARG:CZ	40:HT:95:ALA:HB3	2.45	0.45
34:HN:68:ARG:NH2	43:HW:117:VAL:HG13	2.18	0.45
41:HU:92:ALA:CA	45:HY:27:GLU:CG	2.76	0.45
45:HY:43:VAL:C	45:HY:45:GLN:H	2.20	0.45
1:IA:1393:U:O3'	1:IA:1394:A:OP2	2.20	0.45
1:IA:158:G:N2	1:IA:162:A:H61	2.15	0.45
1:IA:653:A:N6	8:IH:29:SER:HB2	2.08	0.45
1:IA:720:C:H2'	1:IA:721:G:N7	2.31	0.45
2:IB:155:LEU:HD13	2:IB:158:LEU:HA	1.98	0.45
3:IC:85:ARG:HH12	3:IC:88:ARG:NH1	2.14	0.45
4:ID:126:ILE:HG22	4:ID:127:THR:N	2.24	0.45
4:ID:169:LYS:N	4:ID:169:LYS:HD2	2.32	0.45
7:IG:15:ASP:HB3	7:IG:20:ASP:N	2.31	0.45
10:IJ:5:ARG:HB3	10:IJ:99:LYS:HB2	1.98	0.45
10:IJ:50:ILE:HG12	10:IJ:60:ARG:HD3	1.98	0.45
10:IJ:80:LYS:C	10:IJ:84:GLN:HB2	2.37	0.45
12:IL:71:PRO:HG3	12:IL:101:VAL:HA	1.98	0.45
12:IL:5:PRO:HB3	12:IL:10:LEU:HA	1.97	0.45
12:IL:36:VAL:O	12:IL:58:VAL:HA	2.16	0.45
13:IM:6:GLY:CA	27:JG:110:ARG:NH2	2.74	0.45
13:IM:73:GLU:HG2	13:IM:73:GLU:O	2.17	0.45
18:IR:78:LEU:HD23	18:IR:78:LEU:O	2.17	0.45
1:IA:1316:G:N1	19:IS:5:LEU:HA	2.31	0.45
20:IT:49:ALA:O	20:IT:53:LEU:HG	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
51:J5:23:MET:HA	51:J5:48:PHE:CE1	2.52	0.45
53:J7:165:VAL:HG12	53:J7:167:VAL:CG2	2.47	0.45
23:JA:92:G:H21	34:JN:22:ALA:C	2.18	0.45
22:JB:9:U:O2'	22:JB:10:A:H8	1.99	0.45
22:JB:1168:G:H2'	22:JB:1169:C:C6	2.51	0.45
22:JB:1672:A:H2'	22:JB:1673:C:O4'	2.15	0.45
22:JB:1742:G:H22	22:JB:1747:G:H1	1.63	0.45
22:JB:2407:G:OP1	22:JB:2408:G:P	2.74	0.45
22:JB:2505:G:N2	52:J6:2:LYS:NZ	2.54	0.45
22:JB:2797:G:H21	22:JB:2798:A:H4'	1.82	0.45
22:JB:2859:U:H2'	22:JB:2860:C:O4'	2.16	0.45
22:JB:3113:U:H2'	22:JB:3114:A:O4'	2.17	0.45
22:JB:3124:G:C4'	53:J7:62:LYS:CD	2.58	0.45
22:JB:765:C:OP2	50:J4:3:ARG:NH1	2.49	0.45
22:JB:767:G:H2'	22:JB:768:U:C6	2.52	0.45
22:JB:807:A:H2'	22:JB:808:C:C6	2.52	0.45
22:JB:955:G:N3	22:JB:955:G:H2'	2.31	0.45
24:JD:243:GLY:N	24:JD:244:ARG:NH2	2.65	0.45
24:JD:257:LEU:HD22	24:JD:258:LYS:HG2	1.98	0.45
24:JD:63:ARG:CZ	24:JD:87:ASN:HB2	2.47	0.45
26:JF:104:LEU:CD2	26:JF:180:ILE:HG21	2.46	0.45
26:JF:97:ARG:HD2	26:JF:100:ARG:NH2	2.31	0.45
27:JG:108:LEU:C	27:JG:110:ARG:H	2.19	0.45
27:JG:113:ASP:O	27:JG:115:ARG:HG3	2.17	0.45
22:JB:2284:U:OP1	27:JG:131:GLY:O	2.35	0.45
28:JH:25:LYS:H	28:JH:35:VAL:CG1	2.28	0.45
31:JK:116:ARG:HH12	31:JK:126:VAL:HG11	1.80	0.45
33:JM:26:THR:HG22	33:JM:27:ASP:H	1.81	0.45
22:JB:920:G:OP1	34:JN:26:ASP:OD2	2.35	0.45
35:JO:79:VAL:HG13	35:JO:80:MET:SD	2.57	0.45
38:JR:6:THR:HB	38:JR:9:VAL:HG12	1.98	0.45
38:JR:94:VAL:O	38:JR:97:ASP:HB2	2.16	0.45
40:JT:73:ASN:HD22	40:JT:73:ASN:N	2.10	0.45
40:JT:85:MET:HA	40:JT:89:ARG:NH2	2.31	0.45
44:JX:49:GLN:HB2	44:JX:74:LYS:NZ	2.32	0.45
1:AA:1101:A:H4'	1:AA:1102:A:O5'	2.16	0.45
1:AA:160:A:N1	1:AA:343:U:H1'	2.32	0.45
1:AA:158:G:N2	1:AA:162:A:H61	2.15	0.45
1:AA:202:G:H2'	1:AA:203:A:O4'	2.16	0.45
1:AA:921:U:O2	5:AE:19:MET:C	2.54	0.45
3:AC:12:LEU:N	3:AC:16:ARG:HB3	2.31	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AD:10:ARG:HH21	4:AD:14:ARG:HE	1.63	0.45
4:AD:24:GLU:CG	4:AD:27:TYR:HB3	2.42	0.45
5:AE:104:ALA:HA	5:AE:107:ARG:CZ	2.45	0.45
5:AE:102:ALA:HB1	5:AE:120:THR:HB	1.99	0.45
5:AE:35:GLY:HA3	5:AE:41:VAL:HG12	1.98	0.45
6:AF:22:GLU:O	6:AF:26:ILE:HG13	2.16	0.45
6:AF:74:ASP:O	6:AF:78:GLU:HB2	2.17	0.45
6:AF:99:ALA:HB2	18:AR:31:LEU:CD1	2.45	0.45
1:AA:1240:U:O4	7:AG:116:ALA:CA	2.65	0.45
8:AH:78:GLN:HB3	8:AH:80:ILE:O	2.17	0.45
9:AI:28:VAL:HB	9:AI:31:GLN:O	2.16	0.45
9:AI:46:ALA:HB1	9:AI:77:ILE:CD1	2.44	0.45
12:AL:5:PRO:HB3	12:AL:10:LEU:HA	1.97	0.45
15:AO:10:LYS:C	15:AO:12:ILE:H	2.20	0.45
17:AQ:64:PRO:HA	17:AQ:70:ARG:HG3	1.98	0.45
19:AS:16:LEU:HD12	19:AS:19:VAL:HG11	1.98	0.45
19:AS:33:THR:HB	19:AS:51:VAL:HG13	1.98	0.45
49:B3:21:TYR:HA	49:B3:21:TYR:HD2	1.65	0.45
22:BB:1036:G:N3	22:BB:1036:G:H2'	2.31	0.45
22:BB:1377:G:C2'	47:B1:3:LYS:HZ3	2.30	0.45
22:BB:1385:C:N4	22:BB:1386:A:N6	2.63	0.45
22:BB:1397:A:N7	22:BB:1418:C:C2	2.85	0.45
22:BB:157:G:OP1	50:B4:32:ALA:HB1	2.13	0.45
22:BB:1840:A:H2'	22:BB:1841:G:O4'	2.16	0.45
22:BB:1863:U:H2'	22:BB:1864:G:H8	1.82	0.45
22:BB:3093:C:N4	22:BB:2204:A:H62	2.14	0.45
22:BB:2824:C:H4'	22:BB:2843:A:C2	2.52	0.45
22:BB:3103:A:H2'	22:BB:3104:C:C6	2.52	0.45
22:BB:319:G:OP1	40:BT:12:LYS:HG3	2.11	0.45
22:BB:690:A:O2'	22:BB:2054:A:H5'	2.16	0.45
24:BD:95:LEU:HD12	24:BD:104:TYR:C	2.37	0.45
24:BD:144:ALA:CB	24:BD:192:THR:HG22	2.46	0.45
24:BD:78:LYS:NZ	24:BD:78:LYS:HB3	2.30	0.45
26:BF:134:ILE:HG13	26:BF:135:SER:N	2.31	0.45
22:BB:2645:C:H42	28:BH:109:TYR:HB3	1.74	0.45
28:BH:142:GLY:O	28:BH:145:ALA:HB3	2.17	0.45
30:BJ:119:SER:H	30:BJ:123:ALA:HB2	1.82	0.45
22:BB:1070:G:C2	30:BJ:126:THR:O	2.70	0.45
31:BK:93:LYS:HD2	31:BK:93:LYS:N	2.31	0.45
22:BB:597:U:C1'	33:BM:28:LYS:NZ	2.78	0.45
22:BB:2812:A:N3	35:BO:42:LYS:HE2	2.30	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:BR:28:ARG:HA	38:BR:31:GLN:HG3	1.98	0.45
39:BS:65:ARG:C	39:BS:93:ILE:HG23	2.37	0.45
40:BT:56:LEU:O	40:BT:56:LEU:HD23	2.16	0.45
40:BT:78:ASN:C	40:BT:80:LEU:H	2.19	0.45
22:BB:497:C:C2'	40:BT:80:LEU:CD1	2.83	0.45
22:BB:886:A:C4	43:BW:167:THR:OG1	2.64	0.45
1:CA:1125:U:H2'	1:CA:1281:U:O2	2.17	0.45
1:CA:1347:G:O2'	1:CA:1348:U:H6	1.98	0.45
1:CA:1397:C:O2'	1:CA:1398:A:OP2	2.32	0.45
1:CA:332:G:C4'	20:CT:10:LEU:HB3	2.46	0.45
1:CA:529:G:H4'	1:CA:533:A:C4	2.52	0.45
1:CA:559:A:OP2	5:CE:123:LEU:C	2.46	0.45
2:CB:152:PHE:CZ	2:CB:155:LEU:HD12	2.52	0.45
2:CB:55:PHE:CD1	2:CB:221:LEU:HG	2.51	0.45
3:CC:8:ILE:HA	3:CC:11:ARG:CZ	2.46	0.45
3:CC:85:ARG:HH12	3:CC:88:ARG:NH1	2.14	0.45
4:CD:67:ILE:HG22	4:CD:114:ARG:NH1	2.32	0.45
1:CA:8:A:H61	4:CD:206:PHE:HA	1.81	0.45
4:CD:19:LEU:HD13	4:CD:67:ILE:HG12	1.99	0.45
4:CD:77:ASN:HA	4:CD:80:GLU:CG	2.47	0.45
5:CE:92:LYS:HD3	5:CE:92:LYS:C	2.37	0.45
6:CF:14:LEU:HD13	6:CF:18:GLN:CG	2.46	0.45
6:CF:42:GLU:HG2	6:CF:44:GLY:N	2.30	0.45
8:CH:88:LYS:HB3	8:CH:89:PRO:HD2	1.97	0.45
9:CI:86:VAL:HA	9:CI:89:ASN:O	2.16	0.45
12:CL:71:PRO:HG3	12:CL:101:VAL:HA	1.98	0.45
15:CO:67:LEU:C	15:CO:71:GLN:HE21	2.20	0.45
1:CA:332:G:C4'	20:CT:10:LEU:CB	2.92	0.45
20:CT:49:ALA:O	20:CT:53:LEU:HG	2.17	0.45
50:D4:21:ARG:HG3	50:D4:31:LEU:HD13	1.99	0.45
51:D5:23:MET:HA	51:D5:48:PHE:CE1	2.52	0.45
23:DA:92:G:H3'	23:DA:93:G:H8	1.82	0.45
22:DB:120:G:N3	22:DB:120:G:H2'	2.31	0.45
22:DB:1689:U:H2'	22:DB:1690:U:C5	2.52	0.45
22:DB:1863:U:H2'	22:DB:1864:G:H8	1.82	0.45
22:DB:1831:G:H8	22:DB:1910:A:H1'	1.77	0.45
22:DB:1934:U:H2'	22:DB:1935:A:C8	2.51	0.45
22:DB:540:G:C2	22:DB:2018:G:H5''	2.52	0.45
22:DB:690:A:O2'	22:DB:2054:A:H5'	2.16	0.45
22:DB:923:A:C2	22:DB:2243:C:H1'	2.51	0.45
22:DB:2241:U:H1'	22:DB:2307:A:H1'	1.97	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:DB:2598:C:H1'	25:DE:154:LYS:CE	2.45	0.45
22:DB:3093:C:H5''	29:DI:21:LYS:N	2.32	0.45
22:DB:3109:U:H3	22:DB:3180:U:H3	1.63	0.45
22:DB:553:C:N4	22:DB:556:A:O2'	2.49	0.45
22:DB:648:A:H4'	22:DB:649:G:C4'	2.46	0.45
22:DB:692:C:H2'	22:DB:693:A:C8	2.51	0.45
22:DB:858:G:H5''	22:DB:859:U:H5'	1.99	0.45
22:DB:930:A:H2'	22:DB:931:G:H5'	1.98	0.45
22:DB:986:A:O2'	22:DB:987:G:H5'	2.17	0.45
26:DF:151:VAL:HG11	26:DF:188:ILE:HG23	1.98	0.45
22:DB:2728:A:C1'	28:DH:67:LEU:HD13	2.46	0.45
32:DL:113:PRO:CG	37:DQ:76:GLY:HA3	2.38	0.45
33:DM:60:LEU:C	51:D5:30:ARG:HH11	2.20	0.45
33:DM:79:GLN:HB3	33:DM:80:LEU:HD22	1.97	0.45
35:DO:97:ILE:N	35:DO:97:ILE:HD12	2.32	0.45
35:DO:99:ARG:HD2	35:DO:99:ARG:H	1.81	0.45
38:DR:91:ASN:HD21	39:DS:10:LYS:HG3	1.79	0.45
22:DB:528:G:OP1	40:DT:36:ARG:HA	2.17	0.45
1:EA:1021:G:H2'	1:EA:1022:G:H4'	1.99	0.45
1:EA:1184:G:H3'	1:EA:1184:G:OP1	2.17	0.45
1:EA:1238:A:C2'	1:EA:1239:A:H5'	2.46	0.45
1:EA:160:A:N1	1:EA:343:U:H1'	2.32	0.45
1:EA:633:G:H5'	17:EQ:28:PRO:CG	2.20	0.45
1:EA:665:A:H2'	1:EA:725:G:H22	1.81	0.45
3:EC:18:TRP:HE1	14:EN:52:GLN:CA	2.29	0.45
3:EC:69:HIS:HB3	3:EC:106:VAL:CG2	2.44	0.45
4:ED:57:ARG:NH2	5:EE:111:GLU:CD	2.57	0.45
5:EE:102:ALA:HB1	5:EE:120:THR:HB	1.99	0.45
6:EF:10:LEU:HB3	6:EF:85:VAL:CA	2.47	0.45
7:EG:15:ASP:HB3	7:EG:20:ASP:N	2.31	0.45
9:EI:56:LEU:O	9:EI:58:ARG:N	2.50	0.45
1:EA:1123:A:H5'	10:EJ:37:PRO:HG2	1.99	0.45
10:EJ:8:LEU:HB2	10:EJ:70:ARG:HG2	1.98	0.45
10:EJ:9:ARG:NH2	10:EJ:96:ILE:HA	2.32	0.45
12:EL:71:PRO:HG3	12:EL:101:VAL:HA	1.98	0.45
13:EM:101:GLN:OE1	13:EM:101:GLN:HA	2.16	0.45
13:EM:73:GLU:O	13:EM:73:GLU:HG2	2.17	0.45
1:EA:234:C:C5'	17:EQ:70:ARG:HH21	2.30	0.45
1:EA:280:C:N1	17:EQ:95:TYR:OH	2.50	0.45
19:ES:9:VAL:O	19:ES:11:VAL:HG23	2.17	0.45
48:F2:19:ARG:HA	48:F2:19:ARG:NH1	2.31	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
48:F2:58:LEU:HD13	48:F2:59:ALA:N	2.32	0.45
50:F4:35:ARG:HG3	50:F4:42:LEU:HD11	1.99	0.45
22:FB:220:U:P	51:F5:5:LYS:N	2.80	0.45
22:FB:1481:U:C5'	22:FB:1561:A:N1	2.79	0.45
22:FB:1674:C:O5'	25:FE:134:TRP:CB	2.64	0.45
22:FB:181:A:C4'	22:FB:182:G:H4'	2.44	0.45
22:FB:1912:G:C2'	22:FB:1912:G:N3	2.79	0.45
22:FB:1945:C:O2'	22:FB:1946:U:H3'	2.16	0.45
22:FB:2039:G:N2	48:F2:2:ALA:C	2.68	0.45
22:FB:2259:G:H1'	22:FB:2367:A:N1	2.31	0.45
22:FB:2704:U:H2'	22:FB:2705:A:O4'	2.17	0.45
22:FB:2773:G:C2'	22:FB:2780:A:O2'	2.63	0.45
22:FB:553:C:N4	22:FB:556:A:O2'	2.49	0.45
22:FB:690:A:O2'	22:FB:2054:A:H5'	2.16	0.45
22:FB:986:A:O2'	22:FB:987:G:H5'	2.17	0.45
24:FD:212:SER:HA	24:FD:215:LEU:HB2	1.98	0.45
24:FD:54:ILE:HD13	24:FD:220:HIS:CD2	2.52	0.45
22:FB:2797:G:C3'	25:FE:111:LYS:O	2.48	0.45
25:FE:167:VAL:HG21	25:FE:170:LEU:HD11	1.98	0.45
26:FF:59:TYR:HB3	26:FF:60:GLY:H	1.59	0.45
31:FK:116:ARG:HH12	31:FK:126:VAL:HG11	1.80	0.45
32:FL:122:ARG:HD3	32:FL:124:MET:HE3	1.98	0.45
34:FN:72:ASP:C	34:FN:73:LYS:HG2	2.37	0.45
34:FN:91:VAL:O	34:FN:91:VAL:HG22	2.17	0.45
34:FN:44:LYS:HA	34:FN:94:TRP:CD1	2.52	0.45
22:FB:528:G:H5''	40:FT:36:ARG:HA	1.99	0.45
22:FB:63:A:C3'	41:FU:71:GLN:NE2	2.77	0.45
44:FX:43:THR:OG1	44:FX:67:VAL:HG12	2.17	0.45
44:FX:49:GLN:HB2	44:FX:74:LYS:NZ	2.32	0.45
1:GA:1184:G:OP1	1:GA:1184:G:H3'	2.17	0.45
1:GA:1308:U:C4'	13:GM:110:ARG:HH21	2.29	0.45
1:GA:1378:C:C5	1:GA:1379:G:H1'	2.52	0.45
1:GA:1415:G:H2'	1:GA:1416:G:H8	1.82	0.45
1:GA:17:U:H4'	1:GA:1079:G:O2'	2.16	0.45
1:GA:505:G:H2'	1:GA:506:G:H8	1.81	0.45
1:GA:526:C:H2'	1:GA:527:G:C4'	2.46	0.45
1:GA:619:U:H2'	1:GA:620:C:H5'	1.98	0.45
1:GA:956:U:H4'	19:GS:80:TYR:HE1	1.78	0.45
1:GA:975:A:O2'	1:GA:976:G:OP2	2.31	0.45
2:GB:140:HIS:HA	2:GB:143:GLU:CG	2.46	0.45
2:GB:215:LEU:HD23	2:GB:215:LEU:N	2.31	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:GC:8:ILE:HA	3:GC:11:ARG:CZ	2.46	0.45
1:GA:1110:A:OP2	3:GC:176:HIS:CD2	2.70	0.45
3:GC:59:ARG:HA	3:GC:64:VAL:HA	1.98	0.45
4:GD:114:ARG:HA	4:GD:117:ALA:HB3	1.98	0.45
4:GD:97:LEU:HD23	4:GD:100:ARG:HD2	1.99	0.45
5:GE:79:GLU:CG	5:GE:93:PRO:HD2	2.45	0.45
7:GG:146:GLU:H	7:GG:149:ARG:HB2	1.81	0.45
1:GA:932:C:H5	7:GG:3:ARG:NH1	2.14	0.45
9:GI:14:VAL:HG12	9:GI:15:ALA:N	2.30	0.45
9:GI:28:VAL:HB	9:GI:31:GLN:O	2.17	0.45
9:GI:55:ALA:HA	9:GI:58:ARG:HH21	1.82	0.45
12:GL:11:VAL:CA	17:GQ:32:TYR:CB	2.94	0.45
1:GA:580:U:P	15:GO:54:ARG:HH21	2.35	0.45
1:GA:760:G:O6	17:GQ:105:ALA:HA	2.16	0.45
19:GS:49:ILE:HD12	19:GS:60:VAL:HG12	1.97	0.45
22:HB:127:C:C4'	22:HB:1360:G:H22	2.29	0.45
22:HB:1498:G:H1'	22:HB:1526:U:N3	2.26	0.45
22:HB:1486:A:N6	22:HB:1536:G:C8	2.82	0.45
22:HB:1746:A:H2'	22:HB:1747:G:C5'	2.46	0.45
22:HB:1698:C:H1'	22:HB:1754:G:N7	2.31	0.45
22:HB:2026:C:H2'	22:HB:2027:C:C6	2.52	0.45
22:HB:2250:G:H5''	22:HB:2251:U:OP1	2.17	0.45
22:HB:2260:C:H4'	22:HB:2368:G:N2	2.32	0.45
22:HB:2492:G:H2'	22:HB:2493:U:N3	2.32	0.45
22:HB:2518:C:H2'	22:HB:2519:C:C6	2.51	0.45
22:HB:1750:A:C4'	22:HB:2695:C:C1'	2.94	0.45
22:HB:435:A:H3'	22:HB:436:A:O4'	2.16	0.45
22:HB:503:G:C5'	40:HT:29:LYS:NZ	2.79	0.45
22:HB:514:G:H21	40:HT:15:LYS:HE3	1.81	0.45
22:HB:543:G:N2	38:HR:45:TYR:CZ	2.84	0.45
22:HB:676:G:H2'	22:HB:677:G:C8	2.51	0.45
22:HB:800:U:C3'	22:HB:804:C:H41	2.28	0.45
22:HB:914:C:H2'	22:HB:915:C:H6	1.81	0.45
22:HB:922:A:C4	22:HB:2243:C:O2'	2.69	0.45
22:HB:955:G:H2'	22:HB:955:G:N3	2.31	0.45
24:HD:166:GLN:HB2	24:HD:174:ILE:HA	1.98	0.45
24:HD:185:VAL:HG12	24:HD:186:HIS:O	2.16	0.45
24:HD:243:GLY:N	24:HD:244:ARG:NH2	2.65	0.45
24:HD:27:LYS:NZ	24:HD:27:LYS:HB3	2.32	0.45
24:HD:46:ARG:HG3	24:HD:47:GLY:H	1.80	0.45
26:HF:173:ALA:HB1	26:HF:193:LEU:HD22	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:HL:11:ALA:CB	32:HL:19:ILE:HG21	2.47	0.45
35:HO:96:ARG:HD2	35:HO:96:ARG:N	2.32	0.45
22:HB:1236:G:O6	39:HS:71:ILE:CD1	2.65	0.45
40:HT:56:LEU:O	40:HT:56:LEU:HD23	2.16	0.45
41:HU:45:ALA:HB2	45:HY:16:LYS:HD2	1.44	0.45
45:HY:49:GLU:CD	45:HY:50:VAL:HG23	2.36	0.45
46:HZ:7:ARG:N	46:HZ:50:LEU:HG	2.32	0.45
1:IA:1147:C:H1'	9:II:16:ARG:HE	1.81	0.45
1:IA:1443:G:H2'	1:IA:1445:U:O5'	2.17	0.45
1:IA:1496:C:H2'	1:IA:1497:G:C8	2.51	0.45
1:IA:247:G:C6	17:IQ:96:GLN:CG	3.00	0.45
1:IA:338:A:C2	1:IA:339:C:H1'	2.52	0.45
1:IA:376:G:H2'	1:IA:377:G:H8	1.82	0.45
1:IA:407:G:H4'	4:ID:116:GLN:HB2	1.97	0.45
1:IA:471:G:H2'	1:IA:472:G:C8	2.52	0.45
1:IA:910:C:H2'	1:IA:911:U:H6	1.81	0.45
1:IA:967:C:P	9:II:127:LYS:O	2.75	0.45
2:IB:9:GLU:OE2	2:IB:11:LEU:HB2	2.17	0.45
3:IC:105:GLU:HG2	3:IC:106:VAL:N	2.26	0.45
3:IC:157:ILE:CD1	3:IC:164:ARG:HH21	2.30	0.45
4:ID:67:ILE:HG22	4:ID:114:ARG:NH1	2.32	0.45
6:IF:98:LEU:HD23	6:IF:99:ALA:H	1.82	0.45
8:IH:58:TYR:O	8:IH:59:LEU:HG	2.16	0.45
1:IA:691:G:OP2	11:IK:26:ASN:OD1	2.35	0.45
1:IA:751:U:C2'	15:IO:77:ARG:HH12	2.26	0.45
19:IS:9:VAL:HG12	19:IS:39:THR:OG1	2.16	0.45
22:JB:2399:C:OP1	49:J3:13:GLU:OE2	2.35	0.45
22:JB:2375:G:C5	51:J5:31:HIS:HE1	2.34	0.45
53:J7:64:VAL:HG12	53:J7:65:LEU:N	2.31	0.45
22:JB:1460:G:N2	22:JB:1563:U:N3	2.65	0.45
22:JB:167:A:H2	22:JB:692:C:H1'	1.81	0.45
22:JB:1746:A:H2'	22:JB:1747:G:C5'	2.46	0.45
22:JB:2026:C:H2'	22:JB:2027:C:C6	2.52	0.45
22:JB:2272:A:H2'	22:JB:2273:C:C6	2.51	0.45
22:JB:2395:C:OP1	51:J5:44:LYS:NZ	2.47	0.45
22:JB:2397:A:OP1	51:J5:41:ILE:HD11	2.05	0.45
22:JB:2481:G:H5''	22:JB:2482:A:C4'	2.46	0.45
22:JB:2558:C:H5''	25:JE:132:LYS:NZ	2.31	0.45
22:JB:2824:C:H4'	22:JB:2843:A:C2	2.52	0.45
22:JB:3103:A:H2'	22:JB:3104:C:C6	2.52	0.45
22:JB:3130:G:H1'	22:JB:3159:G:N2	2.32	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:JB:3179:C:OP2	53:J7:38:GLY:C	2.55	0.45
22:JB:539:A:O3'	22:JB:540:G:C5'	2.64	0.45
22:JB:647:G:O6	33:JM:109:LEU:CD1	2.39	0.45
22:JB:914:C:H2'	22:JB:915:C:H6	1.81	0.45
22:JB:986:A:O2'	22:JB:987:G:H5'	2.17	0.45
24:JD:185:VAL:HG12	24:JD:186:HIS:O	2.16	0.45
24:JD:143:HIS:CD2	24:JD:196:VAL:HA	2.51	0.45
22:JB:1783:G:H5'	24:JD:205:VAL:HG23	1.98	0.45
24:JD:212:SER:N	24:JD:215:LEU:HD13	2.32	0.45
25:JE:105:THR:HG22	25:JE:164:ARG:NH1	2.32	0.45
26:JF:125:ILE:HG13	26:JF:126:ALA:N	2.25	0.45
26:JF:132:ASN:CA	26:JF:135:SER:HB3	2.38	0.45
27:JG:5:LYS:HD2	27:JG:8:TYR:CD1	2.52	0.45
28:JH:97:LYS:O	28:JH:103:LEU:HD12	2.17	0.45
29:JI:4:ILE:HG22	29:JI:5:LEU:N	2.31	0.45
31:JK:162:LYS:HE2	31:JK:162:LYS:HB2	1.85	0.45
32:JL:47:VAL:HG13	32:JL:48:GLY:N	2.23	0.45
33:JM:28:LYS:O	33:JM:28:LYS:HG3	2.16	0.45
34:JN:100:PRO:HG2	34:JN:102:ARG:CZ	2.47	0.45
34:JN:91:VAL:HG22	34:JN:91:VAL:O	2.17	0.45
35:JO:97:ILE:N	35:JO:97:ILE:HD12	2.32	0.45
23:JA:119:G:H5'	36:JP:55:SER:OG	2.14	0.45
37:JQ:28:ARG:HG3	37:JQ:30:GLY:H	1.82	0.45
37:JQ:36:ASP:O	37:JQ:38:LYS:HE2	2.16	0.45
40:JT:49:SER:O	40:JT:51:GLN:HG3	2.16	0.45
43:JW:18:MET:N	43:JW:36:ARG:HH12	2.11	0.45
44:JX:43:THR:OG1	44:JX:67:VAL:HG12	2.17	0.45
1:AA:1125:U:H2'	1:AA:1281:U:O2	2.17	0.45
1:AA:688:G:H1'	1:AA:704:A:C2	2.52	0.45
1:AA:694:A:O5'	11:AK:53:SER:OG	2.33	0.45
3:AC:184:TYR:OH	3:AC:198:VAL:HB	2.17	0.45
4:AD:108:LEU:HA	4:AD:170:VAL:CG2	2.46	0.45
6:AF:98:LEU:HD23	6:AF:99:ALA:H	1.82	0.45
8:AH:63:LEU:HD23	8:AH:65:TYR:OH	2.16	0.45
9:AI:26:VAL:HG21	9:AI:61:ALA:HB3	1.99	0.45
12:AL:58:VAL:HB	12:AL:66:VAL:CG2	2.42	0.45
13:AM:89:GLY:HA3	13:AM:93:ARG:HG2	1.98	0.45
19:AS:9:VAL:HG12	19:AS:39:THR:OG1	2.16	0.45
1:AA:1457:A:C5'	20:AT:27:LYS:CG	2.70	0.45
22:BB:699:G:H1'	50:B4:6:GLN:HB2	1.98	0.45
23:BA:26:G:H4'	23:BA:27:A:N7	2.32	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:BB:1398:G:C4'	22:BB:1416:A:H2	2.27	0.45
22:BB:1501:C:O2'	22:BB:1502:G:H5'	2.17	0.45
22:BB:1572:C:C2'	22:BB:1573:G:H5''	2.44	0.45
22:BB:1580:C:O2'	22:BB:1581:C:H5'	2.16	0.45
22:BB:1586:A:O3'	22:BB:1587:A:H5'	2.17	0.45
22:BB:1816:G:H22	24:BD:252:LYS:HE3	1.81	0.45
22:BB:1949:A:N3	22:BB:2572:U:H1'	2.31	0.45
22:BB:2263:C:H1'	22:BB:2304:G:C2	2.52	0.45
22:BB:2446:C:H2'	22:BB:2447:G:H8	1.79	0.45
22:BB:585:U:H2'	22:BB:586:G:H8	1.81	0.45
22:BB:858:G:H5''	22:BB:859:U:H5'	1.99	0.45
22:BB:915:C:H2'	22:BB:916:U:C6	2.52	0.45
22:BB:986:A:O2'	22:BB:987:G:H5'	2.17	0.45
24:BD:222:ARG:HG2	24:BD:222:ARG:HH11	1.81	0.45
24:BD:46:ARG:HG3	24:BD:47:GLY:H	1.81	0.45
27:BG:53:ALA:HB1	27:BG:148:LYS:HD2	1.99	0.45
28:BH:149:ARG:N	28:BH:149:ARG:HD2	2.31	0.45
30:BJ:72:PRO:N	30:BJ:73:PRO:HD2	2.32	0.45
33:BM:114:ILE:HB	33:BM:135:ALA:HB1	1.98	0.45
34:BN:65:ILE:HG22	34:BN:106:GLU:OE1	2.16	0.45
41:BU:17:TYR:N	41:BU:20:MET:HB2	2.31	0.45
42:BV:39:ALA:O	42:BV:40:LEU:HD23	2.17	0.45
42:BV:59:LYS:HB3	42:BV:59:LYS:NZ	2.32	0.45
46:BZ:7:ARG:N	46:BZ:50:LEU:HG	2.32	0.45
1:CA:1060:C:C5	3:CC:2:GLY:HA2	2.47	0.45
1:CA:780:A:C2'	1:CA:1523:G:C4'	2.83	0.45
1:CA:688:G:H1'	1:CA:704:A:C2	2.52	0.45
1:CA:739:C:N3	15:CO:46:HIS:CD2	2.84	0.45
1:CA:815:A:C2	1:CA:1528:U:C4'	2.78	0.45
1:CA:828:A:H2'	1:CA:829:G:O4'	2.17	0.45
1:CA:98:U:H2'	1:CA:99:C:C4'	2.47	0.45
2:CB:165:VAL:HB	2:CB:170:GLU:OE1	2.17	0.45
3:CC:69:HIS:HB3	3:CC:106:VAL:CG2	2.45	0.45
4:CD:3:ARG:HH11	4:CD:118:ARG:CZ	2.30	0.45
1:CA:1298:C:H42	7:CG:115:ARG:CD	2.25	0.45
7:CG:153:HIS:O	7:CG:155:ARG:HG3	2.17	0.45
8:CH:13:ILE:C	8:CH:15:ASN:H	2.20	0.45
8:CH:3:THR:HG23	8:CH:4:ASP:N	2.31	0.45
9:CI:56:LEU:O	9:CI:58:ARG:N	2.50	0.45
9:CI:26:VAL:HG21	9:CI:61:ALA:HB3	1.98	0.45
10:CJ:12:ASP:O	10:CJ:15:THR:HG22	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:CK:58:PRO:HB2	11:CK:93:GLN:HG2	1.98	0.45
11:CK:62:GLN:CB	11:CK:93:GLN:HB3	2.46	0.45
13:CM:37:THR:HG22	13:CM:55:ARG:HE	1.81	0.45
16:CP:71:ARG:HG2	16:CP:75:ARG:NH2	2.32	0.45
19:CS:16:LEU:HD12	19:CS:19:VAL:HG11	1.98	0.45
20:CT:11:SER:C	20:CT:13:LEU:H	2.20	0.45
47:D1:5:LEU:N	47:D1:5:LEU:HD22	2.32	0.45
48:D2:58:LEU:HD13	48:D2:59:ALA:N	2.32	0.45
50:D4:25:LYS:HZ3	50:D4:25:LYS:HA	1.80	0.45
50:D4:35:ARG:HG3	50:D4:42:LEU:HD11	1.99	0.45
51:D5:16:ILE:HG13	51:D5:17:THR:N	2.32	0.45
53:D7:109:TRP:CE2	53:D7:156:LEU:HB2	2.52	0.45
53:D7:63:ARG:HG2	53:D7:82:LYS:NZ	2.32	0.45
22:DB:1450:G:H1'	22:DB:1493:A:C2	2.52	0.45
22:DB:1498:G:H1	22:DB:1523:A:H1'	1.82	0.45
22:DB:1625:A:H3'	22:DB:1625:A:N3	2.32	0.45
22:DB:1654:A:H2'	22:DB:1655:C:O4'	2.17	0.45
22:DB:167:A:H2	22:DB:692:C:H1'	1.81	0.45
22:DB:199:A:C2	22:DB:201:G:H1'	2.52	0.45
22:DB:2272:A:H2'	22:DB:2273:C:C6	2.51	0.45
22:DB:658:G:C4'	22:DB:2330:G:H5''	2.47	0.45
22:DB:2846:G:H2'	22:DB:2846:G:N3	2.31	0.45
22:DB:28:A:O2'	38:DR:11:ARG:NH2	2.50	0.45
22:DB:424:G:H5'	22:DB:425:A:OP1	2.17	0.45
22:DB:461:A:N3	22:DB:461:A:H2'	2.32	0.45
22:DB:21:A:N6	22:DB:528:G:H1	2.15	0.45
22:DB:548:G:O3'	31:DK:32:TYR:CD2	2.70	0.45
22:DB:702:A:H2'	22:DB:703:A:C8	2.52	0.45
24:DD:166:GLN:HB2	24:DD:174:ILE:HA	1.98	0.45
24:DD:46:ARG:HG3	24:DD:47:GLY:H	1.80	0.45
25:DE:118:LYS:HZ3	25:DE:118:LYS:HA	1.80	0.45
22:DB:1673:C:C1'	25:DE:136:ARG:CZ	2.89	0.45
22:DB:38:G:C1'	26:DF:42:THR:OG1	2.65	0.45
27:DG:113:ASP:O	27:DG:115:ARG:HG3	2.17	0.45
30:DJ:72:PRO:C	30:DJ:74:MET:H	2.17	0.45
34:DN:12:LYS:HZ3	34:DN:13:GLN:N	2.15	0.45
37:DQ:32:THR:H	37:DQ:56:ALA:HB1	1.81	0.45
37:DQ:66:PHE:CD2	37:DQ:85:SER:HB3	2.52	0.45
37:DQ:85:SER:N	37:DQ:86:PRO:HD3	2.32	0.45
40:DT:39:ARG:CZ	40:DT:95:ALA:HB3	2.45	0.45
40:DT:55:ASP:N	40:DT:58:ARG:HB3	2.32	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:DZ:15:ASN:HA	46:DZ:18:LYS:HE3	1.99	0.45
1:EA:1053:G:C3'	1:EA:1054:C:H5'	2.47	0.45
1:EA:1072:G:N2	2:EB:111:ARG:CZ	2.75	0.45
1:EA:1214:C:H5''	1:EA:1215:G:OP2	2.16	0.45
1:EA:1234:C:O4'	1:EA:1364:U:H1'	2.15	0.45
1:EA:119:A:N6	1:EA:240:C:N3	2.65	0.45
1:EA:331:G:H5''	1:EA:332:G:H5'	1.98	0.45
1:EA:613:C:H5'	4:ED:86:LYS:NZ	2.17	0.45
1:EA:737:A:H5''	6:EF:92:LYS:NZ	2.31	0.45
1:EA:1073:U:O2	2:EB:107:THR:CB	2.63	0.45
4:ED:114:ARG:HA	4:ED:117:ALA:HB3	1.98	0.45
5:EE:107:ARG:O	5:EE:111:GLU:HG3	2.17	0.45
5:EE:101:ILE:HB	5:EE:119:LEU:HD23	1.98	0.45
7:EG:73:MET:HG3	7:EG:144:MET:O	2.16	0.45
9:EI:55:ALA:HA	9:EI:58:ARG:HH21	1.82	0.45
11:EK:105:VAL:HG12	11:EK:106:LYS:N	2.32	0.45
12:EL:5:PRO:HB3	12:EL:10:LEU:HA	1.97	0.45
12:EL:34:ARG:HA	12:EL:85:ILE:HD12	1.98	0.45
16:EP:71:ARG:HG2	16:EP:75:ARG:NH2	2.32	0.45
1:EA:234:C:O2'	17:EQ:70:ARG:CG	2.64	0.45
19:ES:63:THR:HG22	19:ES:64:GLU:H	1.82	0.45
47:F1:13:LYS:HB3	47:F1:13:LYS:HZ2	1.82	0.45
23:FA:92:G:H3'	23:FA:93:G:H8	1.82	0.45
22:FB:1114:A:H2'	22:FB:1115:C:C6	2.51	0.45
22:FB:1141:U:H5''	22:FB:1142:G:OP1	2.16	0.45
22:FB:1423:A:H2'	22:FB:1424:U:C6	2.50	0.45
22:FB:1493:A:N3	22:FB:1573:G:N2	2.37	0.45
22:FB:1654:A:H2'	22:FB:1655:C:O4'	2.17	0.45
22:FB:167:A:H2	22:FB:692:C:H1'	1.81	0.45
22:FB:1908:C:H2'	22:FB:1909:U:C4'	2.45	0.45
22:FB:2365:U:H2'	22:FB:2366:U:C6	2.52	0.45
22:FB:653:G:O3'	22:FB:654:A:H4'	2.17	0.45
24:FD:185:VAL:HG12	24:FD:186:HIS:O	2.16	0.45
24:FD:212:SER:N	24:FD:215:LEU:HD13	2.32	0.45
22:FB:1884:A:N3	24:FD:244:ARG:HD3	2.31	0.45
24:FD:261:ARG:HA	24:FD:261:ARG:CZ	2.47	0.45
22:FB:756:C:P	25:FE:130:GLY:HA2	2.40	0.45
27:FG:34:ILE:HD13	27:FG:34:ILE:N	2.32	0.45
22:FB:2738:A:H1'	28:FH:64:LEU:CD2	2.47	0.45
31:FK:139:ARG:HB3	31:FK:140:GLN:H	1.54	0.45
32:FL:9:ASP:OD2	32:FL:10:VAL:HG22	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:FM:104:ARG:H	33:FM:104:ARG:HD2	1.81	0.45
34:FN:33:TYR:CE2	34:FN:128:ILE:HD12	2.52	0.45
38:FR:24:PHE:HB2	38:FR:28:ARG:HB2	1.99	0.45
44:FX:30:VAL:HG22	44:FX:64:ASP:N	2.31	0.45
36:FP:47:ARG:NH1	44:FX:79:ILE:HB	2.32	0.45
46:FZ:14:GLY:O	46:FZ:17:VAL:HB	2.17	0.45
1:GA:1248:A:C4	9:GI:70:LYS:CE	3.00	0.45
1:GA:1265:G:H2'	1:GA:1266:G:O4'	2.17	0.45
1:GA:173:U:H6	1:GA:198:G:HO2'	1.63	0.45
1:GA:276:G:OP1	17:GQ:20:THR:CB	2.60	0.45
1:GA:426:G:H4'	4:GD:42:GLN:N	2.32	0.45
1:GA:471:G:H2'	1:GA:472:G:C8	2.52	0.45
1:GA:967:C:H5''	9:GI:128:ARG:NE	2.32	0.45
2:GB:165:VAL:HB	2:GB:170:GLU:OE1	2.17	0.45
2:GB:9:GLU:OE2	2:GB:11:LEU:HB2	2.17	0.45
3:GC:112:SER:O	3:GC:116:VAL:HG23	2.17	0.45
4:GD:61:LYS:HZ3	4:GD:62:GLN:HE21	1.64	0.45
8:GH:116:LYS:HD2	8:GH:127:LEU:O	2.17	0.45
9:GI:82:ALA:HA	9:GI:86:VAL:HG23	1.99	0.45
10:GJ:33:GLN:HG2	10:GJ:33:GLN:O	2.16	0.45
10:GJ:7:LYS:O	10:GJ:96:ILE:HG23	2.17	0.45
11:GK:122:LYS:HB2	11:GK:123:LYS:HD3	1.99	0.45
15:GO:10:LYS:C	15:GO:12:ILE:H	2.20	0.45
17:GQ:9:VAL:H	17:GQ:22:LEU:H	1.65	0.45
1:GA:734:G:C3'	18:GR:71:LYS:HZ3	2.29	0.45
1:AA:182:U:H1'	20:GT:105:SER:HB3	1.97	0.45
47:H1:42:PHE:HB3	47:H1:43:TRP:H	1.64	0.45
22:HB:699:G:C2'	50:H4:5:TYR:CA	2.80	0.45
22:HB:3171:A:O3'	53:H7:105:ARG:NH1	2.35	0.45
22:HB:9:U:O2'	22:HB:10:A:H8	1.99	0.45
22:HB:51:A:C6	22:HB:116:A:N1	2.75	0.45
22:HB:1002:C:O2	22:HB:1175:A:C4	2.70	0.45
22:HB:1402:G:C5	22:HB:1412:C:N3	2.85	0.45
22:HB:1398:G:N3	22:HB:1416:A:C4	2.85	0.45
22:HB:1996:A:C1'	40:HT:116:ILE:HB	2.47	0.45
22:HB:3196:G:H1	22:HB:2204:A:N6	2.15	0.45
22:HB:2272:A:H2'	22:HB:2273:C:C6	2.51	0.45
22:HB:2725:C:C5'	28:HH:142:GLY:HA3	2.46	0.45
22:HB:2824:C:H4'	22:HB:2843:A:C2	2.52	0.45
22:HB:585:U:H2'	22:HB:586:G:H8	1.81	0.45
24:HD:246:PRO:CG	24:HD:247:VAL:N	2.77	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:HD:95:LEU:HD12	24:HD:104:TYR:C	2.37	0.45
24:HD:95:LEU:HD12	24:HD:104:TYR:O	2.16	0.45
22:HB:2553:G:H1'	25:HE:143:GLN:HA	1.98	0.45
27:HG:53:ALA:HB1	27:HG:148:LYS:HD2	1.99	0.45
29:HI:4:ILE:HG22	29:HI:5:LEU:N	2.31	0.45
30:HJ:36:GLU:OE2	30:HJ:65:PHE:HB2	2.16	0.45
31:HK:56:THR:C	31:HK:58:ILE:H	2.18	0.45
22:HB:824:U:P	33:HM:33:GLY:H	2.40	0.45
32:HL:93:ARG:HD2	37:HQ:77:VAL:HG21	1.99	0.45
45:HY:48:ARG:HD3	45:HY:51:ALA:CB	2.45	0.45
1:IA:1053:G:C3'	1:IA:1054:C:H5'	2.47	0.45
1:EA:1273:G:H8	1:IA:1265:G:H5'	0.90	0.45
1:IA:1392:G:C4'	1:IA:1530:G:O5'	2.58	0.45
1:IA:323:U:H4'	20:IT:22:ARG:HD3	1.97	0.45
1:IA:37:U:O2'	1:IA:500:G:H4'	2.17	0.45
1:IA:407:G:H1'	4:ID:116:GLN:HE21	1.78	0.45
1:IA:526:C:H2'	1:IA:527:G:C4'	2.46	0.45
1:IA:665:A:H2'	1:IA:725:G:H22	1.81	0.45
1:IA:716:A:O2'	1:IA:717:C:H5'	2.17	0.45
3:IC:8:ILE:HG23	3:IC:11:ARG:NH2	2.32	0.45
3:IC:123:GLN:HA	3:IC:128:PHE:CG	2.51	0.45
3:IC:202:ILE:HG22	3:IC:203:PHE:N	2.32	0.45
6:IF:74:ASP:O	6:IF:78:GLU:HB2	2.16	0.45
7:IG:97:GLN:HG3	7:IG:98:SER:H	1.82	0.45
12:IL:34:ARG:HA	12:IL:85:ILE:HD12	1.97	0.45
13:IM:2:ALA:N	13:IM:9:ILE:HA	2.31	0.45
16:IP:8:ARG:HE	16:IP:15:PRO:HB3	1.82	0.45
17:IQ:64:PRO:HA	17:IQ:70:ARG:HG3	1.98	0.45
1:IA:191:G:N2	20:IT:103:GLY:O	2.49	0.45
48:J2:58:LEU:HD13	48:J2:59:ALA:N	2.32	0.45
53:J7:34:LEU:HA	53:J7:204:TYR:HB2	1.98	0.45
23:JA:26:G:H4'	23:JA:27:A:N7	2.32	0.45
23:JA:79:U:H2'	23:JA:80:A:H8	1.79	0.45
22:JB:1036:G:N3	22:JB:1036:G:H2'	2.31	0.45
22:JB:1057:A:H3'	22:JB:1058:G:H5''	1.98	0.45
22:JB:1348:C:H2'	22:JB:1349:A:C8	2.51	0.45
22:JB:1363:C:O2	22:JB:1588:A:C1'	2.64	0.45
22:JB:1455:C:H5''	22:JB:1643:A:O2'	2.17	0.45
22:JB:47:G:O2'	22:JB:155:G:N2	2.49	0.45
22:JB:1856:U:C2	22:JB:3865:A:C8	3.03	0.45
22:JB:1882:G:O2'	22:JB:1883:A:H5''	2.15	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:JB:235:C:O2	22:JB:633:G:H5'	2.16	0.45
22:JB:236:C:H1'	22:JB:632:A:H1'	1.98	0.45
22:JB:79:G:N3	22:JB:305:A:H2	2.14	0.45
22:JB:3177:C:OP1	53:J7:163:PRO:CD	2.64	0.45
22:JB:416:U:H5''	22:JB:419:G:H1'	1.98	0.45
22:JB:435:A:H3'	22:JB:436:A:O4'	2.16	0.45
22:JB:63:A:N3	41:JU:62:ARG:NE	2.65	0.45
22:JB:1710:U:C1'	24:JD:15:GLN:NE2	2.79	0.45
24:JD:11:PRO:CD	24:JD:24:LEU:H	2.29	0.45
25:JE:58:LYS:HB2	25:JE:58:LYS:NZ	2.32	0.45
26:JF:151:VAL:HG11	26:JF:188:ILE:HG23	1.98	0.45
26:JF:173:ALA:HB1	26:JF:193:LEU:HD22	1.99	0.45
27:JG:108:LEU:HA	27:JG:114:PHE:CD2	2.47	0.45
33:JM:139:ARG:CZ	33:JM:141:VAL:HG21	2.47	0.45
22:JB:2340:C:P	33:JM:60:LEU:CD2	3.04	0.45
34:JN:33:TYR:CE2	34:JN:128:ILE:HD12	2.52	0.45
34:JN:9:LYS:HG2	34:JN:71:PRO:HB2	1.99	0.45
42:JV:39:ALA:O	42:JV:40:LEU:HD23	2.17	0.45
45:JY:41:HIS:ND1	45:JY:45:GLN:HB2	2.31	0.45
1:AA:1021:G:H2'	1:AA:1022:G:H4'	1.99	0.45
1:AA:1225:A:H5'	13:AM:103:THR:CB	2.44	0.45
1:AA:1234:C:O4'	1:AA:1364:U:H1'	2.15	0.45
1:AA:1378:C:C5	1:AA:1379:G:H1'	2.52	0.45
1:AA:1392:G:HO2'	1:AA:1393:U:H5'	1.82	0.45
1:AA:17:U:OP1	5:AE:14:ARG:HD2	2.17	0.45
1:AA:489:C:H2'	1:AA:490:G:C8	2.51	0.45
1:AA:529:G:H4'	1:AA:533:A:C4	2.52	0.45
1:AA:499:A:H61	1:AA:547:A:H5''	1.82	0.45
1:AA:619:U:H2'	1:AA:620:C:H5'	1.98	0.45
1:AA:670:G:H2'	1:AA:671:G:C8	2.52	0.45
1:AA:751:U:C1'	15:AO:23:GLY:O	2.62	0.45
1:AA:918:A:H2'	1:AA:919:A:O4'	2.16	0.45
2:AB:121:LEU:HA	2:AB:124:SER:OG	2.16	0.45
2:AB:165:VAL:HB	2:AB:170:GLU:OE1	2.17	0.45
2:AB:211:ILE:HA	2:AB:214:ILE:CG1	2.47	0.45
3:AC:123:GLN:HB3	3:AC:128:PHE:HB2	1.99	0.45
3:AC:123:GLN:HA	3:AC:128:PHE:CG	2.52	0.45
3:AC:157:ILE:CD1	3:AC:164:ARG:HH21	2.30	0.45
4:AD:77:ASN:HA	4:AD:80:GLU:CG	2.47	0.45
5:AE:101:ILE:HB	5:AE:119:LEU:HD23	1.98	0.45
1:AA:933:G:OP2	7:AG:3:ARG:HD2	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1372:U:C5'	9:AI:71:SER:CB	2.83	0.45
13:AM:16:ASP:HA	13:AM:19:LEU:HD12	1.98	0.45
13:AM:76:ALA:HA	13:AM:79:LYS:CB	2.47	0.45
17:AQ:9:VAL:H	17:AQ:22:LEU:H	1.65	0.45
19:AS:9:VAL:O	19:AS:11:VAL:HG23	2.17	0.45
22:BB:2040:A:C2	48:B2:3:LYS:O	2.70	0.45
50:B4:25:LYS:HA	50:B4:25:LYS:HZ3	1.80	0.45
22:BB:1300:A:N9	35:BO:103:ARG:HD3	2.32	0.45
22:BB:1312:G:H4'	22:BB:1314:A:C4	2.52	0.45
22:BB:1423:A:H2'	22:BB:1424:U:C6	2.51	0.45
22:BB:51:A:O4'	22:BB:155:G:N2	2.50	0.45
22:BB:1654:A:H2'	22:BB:1655:C:O4'	2.17	0.45
22:BB:167:A:H2	22:BB:692:C:H1'	1.81	0.45
22:BB:1829:C:C1'	22:BB:1911:A:HO2'	2.24	0.45
22:BB:1945:C:O2'	22:BB:1946:U:H3'	2.16	0.45
22:BB:199:A:C2	22:BB:201:G:H1'	2.52	0.45
22:BB:2065:A:H3'	22:BB:2066:G:C8	2.52	0.45
22:BB:2279:G:H2'	22:BB:2280:A:C8	2.52	0.45
22:BB:2365:U:H2'	22:BB:2366:U:C6	2.52	0.45
22:BB:2487:G:H4'	22:BB:2534:U:H5'	1.98	0.45
22:BB:2556:A:H1'	48:B2:4:HIS:NE2	2.31	0.45
22:BB:2672:U:C1'	22:BB:2822:U:HO2'	2.16	0.45
22:BB:2851:G:H21	22:BB:2852:G:H1'	1.81	0.45
22:BB:21:A:N6	22:BB:528:G:H1	2.15	0.45
22:BB:640:C:H4'	22:BB:660:G:N2	2.22	0.45
22:BB:692:C:H2'	22:BB:693:A:C8	2.52	0.45
22:BB:702:A:H2'	22:BB:703:A:C8	2.52	0.45
24:BD:201:HIS:ND1	24:BD:204:ILE:HG21	2.32	0.45
28:BH:114:ILE:O	28:BH:114:ILE:HG22	2.16	0.45
30:BJ:90:THR:O	30:BJ:91:PRO:O	2.34	0.45
32:BL:9:ASP:OD2	32:BL:10:VAL:HG22	2.17	0.45
34:BN:91:VAL:O	34:BN:91:VAL:HG22	2.17	0.45
35:BO:97:ILE:HD12	35:BO:97:ILE:N	2.32	0.45
44:BX:30:VAL:HG22	44:BX:64:ASP:N	2.31	0.45
1:CA:1053:G:C3'	1:CA:1054:C:H5'	2.46	0.45
1:CA:1113:C:H2'	1:CA:1114:C:O4'	2.17	0.45
1:CA:1415:G:H2'	1:CA:1416:G:H8	1.81	0.45
1:CA:1443:G:H2'	1:CA:1445:U:O5'	2.17	0.45
1:CA:119:A:N6	1:CA:240:C:N3	2.65	0.45
1:CA:35:G:H1'	12:CL:118:SER:O	2.16	0.45
1:CA:499:A:H61	1:CA:547:A:H5"	1.82	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:665:A:H2'	1:CA:725:G:H22	1.81	0.45
1:CA:918:A:H2'	1:CA:919:A:O4'	2.16	0.45
2:CB:51:LEU:C	2:CB:53:ARG:H	2.20	0.45
4:CD:97:LEU:HD23	4:CD:100:ARG:HD2	1.99	0.45
1:CA:408:A:P	4:CD:113:SER:OG	2.75	0.45
1:CA:932:C:OP2	7:CG:3:ARG:CB	2.56	0.45
8:CH:31:PHE:O	8:CH:32:LYS:HG3	2.16	0.45
8:CH:78:GLN:HB3	8:CH:80:ILE:O	2.16	0.45
51:D5:24:ALA:HB3	51:D5:47:GLY:O	2.17	0.45
53:D7:164:GLN:HB3	53:D7:164:GLN:HE21	1.50	0.45
22:DB:1036:G:H2'	22:DB:1036:G:N3	2.31	0.45
22:DB:1141:U:H5''	22:DB:1142:G:OP1	2.17	0.45
22:DB:1290:A:C4	35:DO:23:ALA:O	2.70	0.45
22:DB:1385:C:N4	22:DB:1386:A:N6	2.63	0.45
22:DB:1385:C:O3'	22:DB:2192:U:O4	2.35	0.45
22:DB:1388:C:H2'	22:DB:1389:C:C4'	2.46	0.45
22:DB:1501:C:O2'	22:DB:1502:G:H5'	2.17	0.45
22:DB:166:G:H5''	47:D1:36:TRP:CD1	2.51	0.45
22:DB:1912:G:C2'	22:DB:1912:G:N3	2.79	0.45
22:DB:1945:C:O2'	22:DB:1946:U:H3'	2.16	0.45
22:DB:215:G:H1'	22:DB:618:A:C1'	2.47	0.45
22:DB:215:G:H1'	22:DB:618:A:H1'	1.99	0.45
22:DB:2250:G:H5''	22:DB:2251:U:OP1	2.17	0.45
22:DB:2365:U:H2'	22:DB:2366:U:C6	2.52	0.45
22:DB:2470:U:N3	22:DB:2548:G:C3'	2.80	0.45
22:DB:2727:G:C6	22:DB:2735:C:H5''	2.51	0.45
22:DB:2773:G:HO2'	22:DB:2780:A:HO2'	0.46	0.45
22:DB:3113:U:H2'	22:DB:3114:A:O4'	2.16	0.45
22:DB:510:G:C8	22:DB:512:A:OP2	2.70	0.45
22:DB:640:C:H4'	22:DB:660:G:N2	2.22	0.45
22:DB:653:G:O3'	22:DB:654:A:H4'	2.17	0.45
22:DB:865:A:P	46:DZ:42:GLY:O	2.74	0.45
24:DD:68:LYS:HE3	24:DD:191:ALA:HA	1.97	0.45
24:DD:216:GLY:C	24:DD:217:ARG:HD2	2.38	0.45
24:DD:85:ASP:N	24:DD:86:PRO:HD2	2.32	0.45
26:DF:134:ILE:HG13	26:DF:135:SER:N	2.31	0.45
26:DF:104:LEU:CD2	26:DF:180:ILE:HG21	2.45	0.45
27:DG:19:GLN:HE21	27:DG:19:GLN:HB3	1.54	0.45
27:DG:34:ILE:N	27:DG:34:ILE:HD13	2.32	0.45
28:DH:97:LYS:O	28:DH:103:LEU:HD12	2.17	0.45
25:DE:151:TYR:H	31:DK:106:TYR:HE1	1.62	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:DK:41:TRP:CD2	31:DK:79:PHE:HB2	2.51	0.45
34:DN:44:LYS:O	34:DN:46:ASN:N	2.46	0.45
22:DB:2229:G:C2'	34:DN:84:MET:C	2.85	0.45
34:DN:9:LYS:HG2	34:DN:71:PRO:HB2	1.99	0.45
35:DO:97:ILE:HD12	35:DO:97:ILE:H	1.82	0.45
38:DR:33:ARG:NH2	38:DR:34:ASN:HD21	2.14	0.45
38:DR:76:TYR:CG	38:DR:77:SER:N	2.84	0.45
46:DZ:7:ARG:N	46:DZ:50:LEU:HG	2.32	0.45
1:EA:1101:A:H4'	1:EA:1102:A:O5'	2.16	0.45
1:EA:1443:G:H2'	1:EA:1445:U:O5'	2.17	0.45
1:EA:158:G:N2	1:EA:162:A:H61	2.15	0.45
1:EA:238:G:O2'	1:EA:239:U:H5'	2.17	0.45
1:EA:261:U:P	20:ET:72:LEU:CD1	2.98	0.45
1:EA:529:G:H4'	1:EA:533:A:C4	2.52	0.45
1:EA:588:G:C8	8:EH:2:LEU:HD11	2.50	0.45
1:EA:597:G:O6	8:EH:115:SER:HA	2.17	0.45
1:EA:692:U:H2'	1:EA:693:G:H3'	1.97	0.45
1:EA:688:G:H1'	1:EA:704:A:C2	2.52	0.45
1:EA:98:U:H2'	1:EA:99:C:C4'	2.47	0.45
3:EC:184:TYR:OH	3:EC:198:VAL:HB	2.17	0.45
3:EC:85:ARG:HH12	3:EC:88:ARG:NH1	2.14	0.45
7:EG:97:GLN:HG3	7:EG:98:SER:H	1.81	0.45
8:EH:78:GLN:HB3	8:EH:80:ILE:O	2.17	0.45
10:EJ:63:PHE:HA	14:EN:59:ALA:H	1.76	0.45
10:EJ:7:LYS:O	10:EJ:96:ILE:HG23	2.17	0.45
12:EL:85:ILE:HG22	12:EL:86:ARG:N	2.32	0.45
13:EM:83:ASP:CB	22:FB:900(A):A:OP2	2.59	0.45
1:EA:1309:G:H5''	13:EM:88:ARG:HH11	1.78	0.45
19:ES:36:ARG:HH21	19:ES:53:ASN:ND2	2.14	0.45
19:ES:9:VAL:HG12	19:ES:39:THR:OG1	2.16	0.45
22:FB:1998:A:O2'	48:F2:3:LYS:CE	2.65	0.45
53:F7:60:LYS:HD2	53:F7:63:ARG:NH1	2.32	0.45
22:FB:1312:G:H4'	22:FB:1314:A:C4	2.52	0.45
22:FB:1555:A:H2'	22:FB:1556:A:H5'	1.97	0.45
22:FB:1572:C:C2'	22:FB:1573:G:H5''	2.44	0.45
22:FB:1580:C:O2'	22:FB:1581:C:H5'	2.16	0.45
22:FB:1742:G:H22	22:FB:1747:G:H1	1.63	0.45
22:FB:1778:U:H2'	22:FB:1779:C:H6	1.82	0.45
22:FB:2009:U:H2'	22:FB:2010:G:O4'	2.16	0.45
22:FB:2279:G:H2'	22:FB:2280:A:C8	2.52	0.45
22:FB:2260:C:C5'	22:FB:2368:G:N2	2.79	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:FB:2372:A:H2	33:FM:59:ARG:NH2	2.14	0.45
22:FB:2754:C:H2'	22:FB:2755:A:O4'	2.15	0.45
22:FB:2824:C:H4'	22:FB:2843:A:C2	2.52	0.45
22:FB:455:A:H2'	38:FR:2:PRO:HD3	1.95	0.45
22:FB:585:U:H2'	22:FB:586:G:H8	1.82	0.45
22:FB:677:G:OP1	33:FM:27:ASP:CG	2.54	0.45
22:FB:716:U:HO3'	22:FB:717:G:P	2.37	0.45
22:FB:719:A:H61	22:FB:738:G:H2'	1.82	0.45
22:FB:848:A:H5'	22:FB:2337:A:H1'	1.98	0.45
24:FD:142:VAL:HG23	24:FD:143:HIS:N	2.25	0.45
25:FE:105:THR:HG22	25:FE:164:ARG:NH1	2.31	0.45
27:FG:122:PHE:CD2	27:FG:123:ASP:N	2.85	0.45
27:FG:136:LEU:HB2	27:FG:150:ARG:HH22	1.82	0.45
30:FJ:119:SER:H	30:FJ:123:ALA:HB2	1.82	0.45
30:FJ:91:PRO:O	30:FJ:92:ASN:CB	2.63	0.45
31:FK:149:LYS:NZ	31:FK:149:LYS:HA	2.32	0.45
22:FB:2541:U:O2'	32:FL:24:VAL:HG13	2.16	0.45
22:FB:2542:U:C4'	32:FL:40:GLY:C	2.81	0.45
22:FB:2462:C:O2	34:FN:54:VAL:HG11	2.17	0.45
34:FN:99:LYS:CB	43:FW:74:ARG:HG2	2.18	0.45
22:FB:1288:A:N1	35:FO:19:ALA:O	2.50	0.45
38:FR:31:GLN:OE1	38:FR:34:ASN:HB2	2.16	0.45
41:FU:17:TYR:N	41:FU:20:MET:HB2	2.30	0.45
42:FV:59:LYS:HB3	42:FV:59:LYS:NZ	2.32	0.45
43:FW:124:ALA:CB	43:FW:160:LEU:H	2.29	0.45
43:FW:88:TYR:CB	43:FW:90:GLU:O	2.64	0.45
22:FB:863:C:C1'	46:FZ:43:MET:HG3	2.34	0.45
1:GA:1016:A:H4'	1:GA:1217:C:O2'	2.17	0.45
1:GA:1188:A:N3	14:GN:60:SER:CB	2.79	0.45
1:GA:1393:U:H4'	1:GA:1394:A:N7	2.31	0.45
1:GA:238:G:O2'	1:GA:239:U:H5'	2.17	0.45
1:GA:309:G:H2'	1:GA:310:G:C8	2.52	0.45
1:GA:37:U:O2'	1:GA:500:G:H4'	2.17	0.45
1:GA:536:C:H2'	1:GA:537:G:C8	2.46	0.45
1:GA:77:C:H2'	1:GA:78:G:C4'	2.47	0.45
1:GA:792:A:H1'	1:GA:793:U:OP2	2.17	0.45
1:GA:835:U:C5'	18:GR:64:ARG:NH2	2.79	0.45
1:GA:22:G:C2	1:GA:913:A:H2	2.35	0.45
3:GC:85:ARG:HH12	3:GC:88:ARG:NH1	2.14	0.45
1:GA:403:C:OP2	4:GD:74:GLN:OE1	2.34	0.45
6:GF:42:GLU:HG2	6:GF:44:GLY:N	2.30	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:GF:74:ASP:O	6:GF:78:GLU:HB2	2.16	0.45
1:GA:1375:A:OP1	7:GG:12:LEU:CD2	2.64	0.45
7:GG:95:ARG:HG2	7:GG:99:LEU:CG	2.47	0.45
1:GA:1371:G:OP2	9:GI:11:LYS:HE2	2.16	0.45
11:GK:45:GLY:HA2	11:GK:63:LEU:O	2.17	0.45
1:GA:278:G:C4	17:GQ:95:TYR:HD2	2.35	0.45
47:H1:57:ASP:CB	47:H1:60:ASN:HB2	2.45	0.45
50:H4:35:ARG:HG3	50:H4:42:LEU:HD11	1.99	0.45
53:H7:165:VAL:HG12	53:H7:167:VAL:CG2	2.47	0.45
22:HB:1032:A:H1'	22:HB:1133:G:H4'	1.99	0.45
22:HB:1036:G:N3	22:HB:1036:G:H2'	2.31	0.45
22:HB:1235:C:OP2	39:HS:69:ILE:HG22	2.17	0.45
22:HB:1463:A:N6	22:HB:1477:C:N4	2.63	0.45
22:HB:174:A:H3'	22:HB:175:C:C6	2.51	0.45
22:HB:181:A:C4'	22:HB:182:G:H4'	2.44	0.45
22:HB:1882:G:O2'	22:HB:1883:A:H5''	2.15	0.45
22:HB:2490:U:O2	25:HE:140:SER:N	2.50	0.45
22:HB:2653:A:H2'	22:HB:2654:A:N7	2.32	0.45
22:HB:2859:U:H2'	22:HB:2860:C:O4'	2.16	0.45
22:HB:471:A:H2'	22:HB:472:C:H4'	1.99	0.45
22:HB:852:U:O2'	22:HB:1205:G:H1'	2.17	0.45
24:HD:79:VAL:HG23	24:HD:117:VAL:HG21	1.98	0.45
27:HG:122:PHE:CD2	27:HG:123:ASP:N	2.85	0.45
29:HI:3:VAL:HG21	29:HI:18:VAL:O	2.17	0.45
31:HK:149:LYS:HA	31:HK:149:LYS:NZ	2.32	0.45
22:HB:1149:G:C5'	31:HK:56:THR:OG1	2.65	0.45
22:HB:683:A:OP2	33:HM:46:GLY:HA2	2.16	0.45
34:HN:48:ILE:HA	34:HN:51:CYS:HB2	1.99	0.45
35:HO:37:THR:H	35:HO:110:MET:HG2	1.81	0.45
37:HQ:66:PHE:CD2	37:HQ:85:SER:HB3	2.52	0.45
1:IA:1063:C:H4'	1:IA:1386:G:OP1	2.15	0.45
1:IA:1089:G:H2'	1:IA:1090:U:C6	2.52	0.45
1:IA:1125:U:H2'	1:IA:1281:U:O2	2.17	0.45
1:IA:1225:A:H61	13:IM:104:ARG:NH2	1.68	0.45
1:IA:1265:G:H2'	1:IA:1266:G:O4'	2.17	0.45
1:IA:1347:G:O2'	1:IA:1348:U:H6	1.98	0.45
1:IA:1447:A:N6	1:IA:1457:A:N7	2.64	0.45
1:IA:396:G:H2'	1:IA:398:C:C5	2.51	0.45
1:IA:499:A:H61	1:IA:547:A:H5''	1.82	0.45
1:IA:688:G:H1'	1:IA:704:A:C2	2.52	0.45
1:IA:77:C:H2'	1:IA:78:G:C4'	2.47	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:IA:958:A:C4'	19:IS:55:LYS:HZ3	2.27	0.45
2:IB:211:ILE:HA	2:IB:214:ILE:CG1	2.47	0.45
3:IC:84:ILE:HG23	3:IC:85:ARG:N	2.31	0.45
7:IG:95:ARG:HG3	7:IG:95:ARG:HH11	1.81	0.45
1:IA:587:G:OP1	8:IH:92:ARG:CD	2.65	0.45
1:IA:803:G:N2	11:IK:120:ARG:HH12	2.14	0.45
1:IA:1525:G:H5''	11:IK:127:LYS:CE	2.47	0.45
1:IA:684:A:C4	11:IK:39:PRO:HD2	2.49	0.45
11:IK:51:LYS:HG2	11:IK:55:LYS:NZ	2.32	0.45
1:IA:1321:C:C4'	13:IM:87:TYR:CD2	2.93	0.45
19:IS:63:THR:HG22	19:IS:64:GLU:H	1.81	0.45
20:IT:88:VAL:CB	20:IT:92:LEU:HD12	2.47	0.45
50:J4:35:ARG:HG3	50:J4:42:LEU:HD11	1.99	0.45
51:J5:34:THR:HA	51:J5:36:LYS:HZ3	1.81	0.45
22:JB:3177:C:C5'	53:J7:163:PRO:CD	2.89	0.45
22:JB:1041:G:N2	52:J6:6:SER:CB	2.54	0.45
22:JB:1270:C:H1'	26:JF:77:PHE:CB	2.47	0.45
22:JB:1781:C:OP2	24:JD:221:GLN:CB	2.54	0.45
22:JB:1808:C:C4	24:JD:65:ILE:HG22	2.46	0.45
22:JB:1888:C:O3'	22:JB:1889:G:P	2.74	0.45
22:JB:1987:G:N3	22:JB:1987:G:H2'	2.32	0.45
22:JB:2250:G:H5''	22:JB:2251:U:OP1	2.17	0.45
22:JB:2279:G:H2'	22:JB:2280:A:C8	2.52	0.45
22:JB:2365:U:H2'	22:JB:2366:U:C6	2.52	0.45
22:JB:226:C:O2'	22:JB:2373:C:O2'	2.34	0.45
22:JB:2637:C:H2'	28:JH:179:THR:HA	1.98	0.45
22:JB:2786:G:O4'	25:JE:61:LYS:HE2	2.17	0.45
22:JB:295:C:H42	22:JB:368:A:H61	1.64	0.45
22:JB:462:G:H2'	22:JB:463:C:H5'	1.98	0.45
22:JB:852:U:O2'	22:JB:1205:G:H1'	2.17	0.45
22:JB:871:U:C2	22:JB:2247:A:H2'	2.52	0.45
22:JB:964:A:O2'	22:JB:965:G:H5'	2.16	0.45
24:JD:222:ARG:HH11	24:JD:222:ARG:HG2	1.82	0.45
22:JB:1583:A:H8	24:JD:85:ASP:HA	1.75	0.45
27:JG:67:ILE:HG23	27:JG:68:THR:O	2.17	0.45
27:JG:69:LYS:HZ1	27:JG:72:LYS:N	2.15	0.45
28:JH:55:PRO:HD2	28:JH:61:HIS:HE2	1.82	0.45
30:JJ:72:PRO:N	30:JJ:73:PRO:HD2	2.32	0.45
34:JN:91:VAL:HG13	34:JN:91:VAL:O	2.17	0.45
36:JP:13:THR:O	36:JP:17:VAL:HG12	2.16	0.45
43:JW:124:ALA:CB	43:JW:160:LEU:H	2.29	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:JB:2363:G:H3'	44:JX:39:ARG:NH2	2.28	0.45
46:JZ:7:ARG:N	46:JZ:50:LEU:HG	2.32	0.45
1:AA:1013:G:OP2	19:AS:18:LYS:CG	2.65	0.45
1:AA:1060:C:O3'	10:AJ:58:ASP:C	2.55	0.45
1:AA:13:U:H1'	1:AA:915:A:OP2	2.16	0.45
1:AA:396:G:H2'	1:AA:398:C:C5	2.51	0.45
1:AA:471:G:H2'	1:AA:472:G:C8	2.52	0.45
1:AA:505:G:H2'	1:AA:506:G:H8	1.81	0.45
1:AA:702:A:H5'	1:AA:703:G:N7	2.32	0.45
3:AC:8:ILE:HA	3:AC:11:ARG:CZ	2.47	0.45
3:AC:59:ARG:HA	3:AC:64:VAL:HA	1.98	0.45
4:AD:19:LEU:HD13	4:AD:67:ILE:HG12	1.99	0.45
5:AE:118:ILE:HG22	5:AE:119:LEU:N	2.32	0.45
5:AE:121:LYS:HG3	5:AE:123:LEU:HG	1.99	0.45
13:AM:73:GLU:O	13:AM:73:GLU:HG2	2.17	0.45
13:AM:90:LEU:HD11	19:AS:76:PRO:HD2	1.95	0.45
1:AA:973:G:C3'	14:AN:41:ARG:HH22	2.29	0.45
16:AP:81:ARG:HA	16:AP:81:ARG:NE	2.31	0.45
18:AR:63:GLN:HA	18:AR:66:LEU:CB	2.45	0.45
51:B5:3:LYS:HE3	51:B5:62:LEU:HD12	1.98	0.45
22:BB:1136:G:C1'	52:B6:4:ARG:HB3	2.45	0.45
53:B7:77:LYS:HZ3	53:B7:84:VAL:HB	1.82	0.45
23:BA:92:G:H1	34:BN:23:LYS:HG2	1.82	0.45
22:BB:1043:A:C2'	52:B6:16:VAL:HA	2.39	0.45
22:BB:1044:U:C5'	52:B6:16:VAL:HG21	2.37	0.45
22:BB:1146:G:C2'	22:BB:2021:G:H4'	2.46	0.45
22:BB:124:A:N7	50:B4:18:PHE:HZ	2.01	0.45
22:BB:1912:G:N3	22:BB:1912:G:C2'	2.79	0.45
22:BB:1827:G:C2	22:BB:1914:U:O4	2.70	0.45
22:BB:2063:A:OP1	47:B1:20:VAL:HG13	2.14	0.45
22:BB:207:U:H2'	22:BB:208:C:O4'	2.17	0.45
22:BB:2293:G:N2	27:BG:129:ASN:ND2	2.65	0.45
22:BB:1040:A:C1'	22:BB:2465:G:C4'	2.95	0.45
22:BB:2547:C:H2'	22:BB:2548:G:H8	1.80	0.45
22:BB:1750:A:H5''	22:BB:2695:C:O2'	2.17	0.45
22:BB:2723:C:C1'	28:BH:150:LYS:HE3	2.39	0.45
22:BB:2671:C:C2'	22:BB:2822:U:O2'	2.59	0.45
22:BB:2846:G:N3	22:BB:2846:G:H2'	2.31	0.45
22:BB:458:G:H5'	22:BB:461:A:H1'	1.99	0.45
22:BB:57:G:H1'	22:BB:69:G:N3	2.32	0.45
22:BB:742:G:C5	24:BD:18:THR:CB	2.85	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BD:252:LYS:N	24:BD:253:PRO:CD	2.80	0.45
24:BD:55:GLY:C	24:BD:218:LYS:HB2	2.38	0.45
22:BB:1673:C:C5'	25:BE:136:ARG:NE	2.80	0.45
25:BE:9:ILE:HG21	37:BQ:13:LEU:HG	1.98	0.45
26:BF:16:GLU:CG	26:BF:17:LEU:H	2.22	0.45
27:BG:67:ILE:HG23	27:BG:68:THR:O	2.17	0.45
28:BH:141:VAL:HG23	28:BH:142:GLY:N	2.32	0.45
34:BN:91:VAL:O	34:BN:91:VAL:HG13	2.17	0.45
34:BN:9:LYS:HG2	34:BN:71:PRO:HB2	1.99	0.45
35:BO:79:VAL:HG13	35:BO:80:MET:SD	2.57	0.45
22:BB:2357:A:H5''	36:BP:26:ARG:NH2	2.32	0.45
36:BP:43:ILE:HG21	36:BP:49:GLN:N	2.32	0.45
43:BW:13:LYS:HG2	43:BW:20:ALA:HA	1.99	0.45
43:BW:84:TYR:CD1	43:BW:128:ARG:HG3	2.52	0.45
1:CA:127:G:H1'	17:CQ:4:LYS:HZ2	1.82	0.45
1:CA:1378:C:C5	1:CA:1379:G:H1'	2.52	0.45
1:CA:1497:G:H2'	1:CA:1498:U:C6	2.52	0.45
1:CA:197:A:H4'	1:CA:198:G:O5'	2.16	0.45
1:CA:331:G:H5''	1:CA:332:G:H5'	1.98	0.45
1:CA:561:U:H5''	1:CA:562:C:H5''	1.98	0.45
1:CA:621:A:OP1	4:CD:139:ARG:NH2	2.42	0.45
1:CA:702:A:H5'	1:CA:703:G:N7	2.32	0.45
1:CA:861:G:H2'	1:CA:862:C:O4'	2.17	0.45
2:CB:31:TYR:HA	2:CB:43:ASP:OD2	2.17	0.45
3:CC:157:ILE:CD1	3:CC:164:ARG:HH21	2.30	0.45
3:CC:184:TYR:OH	3:CC:198:VAL:HB	2.17	0.45
8:CH:11:THR:HA	8:CH:14:ARG:NH1	2.32	0.45
9:CI:110:GLU:OE2	9:CI:119:ALA:HB1	2.17	0.45
1:CA:1344:C:H5''	9:CI:120:ARG:HG2	1.95	0.45
9:CI:44:VAL:O	9:CI:47:LEU:HD23	2.17	0.45
1:CA:1188:A:H4'	10:CJ:61:GLU:OE2	2.15	0.45
12:CL:5:PRO:HB3	12:CL:10:LEU:HA	1.97	0.45
12:CL:34:ARG:HA	12:CL:85:ILE:HD12	1.98	0.45
17:CQ:7:THR:HG22	17:CQ:56:VAL:HG12	1.98	0.45
18:CR:78:LEU:HD23	18:CR:78:LEU:O	2.17	0.45
53:D7:165:VAL:HG12	53:D7:167:VAL:CG2	2.47	0.45
22:DB:1356:G:O6	22:DB:1417:C:N4	2.47	0.45
22:DB:1580:C:O2'	22:DB:1581:C:H5'	2.17	0.45
22:DB:1778:U:H2'	22:DB:1779:C:H6	1.82	0.45
22:DB:1811:A:O2'	22:DB:1812:U:H5''	2.16	0.45
22:DB:2026:C:H2'	22:DB:2027:C:C6	2.51	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:DB:2263:C:H1'	22:DB:2304:G:C2	2.52	0.45
22:DB:2328:G:H5''	51:D5:42:ARG:HH12	1.60	0.45
22:DB:2522:G:N2	22:DB:2625:U:H5''	2.32	0.45
22:DB:2824:C:H4'	22:DB:2843:A:C2	2.52	0.45
22:DB:2859:U:H2'	22:DB:2860:C:O4'	2.16	0.45
22:DB:57:G:H1'	22:DB:69:G:N3	2.32	0.45
22:DB:918:A:O4'	43:DW:120:LEU:HD11	2.17	0.45
22:DB:934:G:C1'	44:DX:23:VAL:CG1	2.94	0.45
24:DD:136:VAL:HG11	24:DD:165:VAL:HG21	1.98	0.45
22:DB:2752:C:O2'	25:DE:164:ARG:C	2.55	0.45
27:DG:122:PHE:CD2	27:DG:123:ASP:N	2.85	0.45
27:DG:152:MET:HE3	27:DG:152:MET:N	2.32	0.45
22:DB:2291:U:C5'	27:DG:85:VAL:CB	2.73	0.45
30:DJ:52:ILE:HG23	30:DJ:53:ILE:N	2.31	0.45
30:DJ:51:ALA:HA	30:DJ:76:TYR:CE1	2.52	0.45
34:DN:100:PRO:HG2	34:DN:102:ARG:CZ	2.46	0.45
36:DP:43:ILE:HG21	36:DP:49:GLN:N	2.32	0.45
39:DS:36:LYS:HA	39:DS:36:LYS:HZ3	1.79	0.45
44:DX:5:LYS:HB3	44:DX:6:GLY:H	1.61	0.45
44:DX:49:GLN:HB2	44:DX:74:LYS:NZ	2.32	0.45
1:EA:471:G:H2'	1:EA:472:G:C8	2.52	0.45
1:EA:505:G:H2'	1:EA:506:G:H8	1.81	0.45
1:EA:499:A:H61	1:EA:547:A:H5''	1.82	0.45
1:EA:616:G:H2'	1:EA:617:G:H8	1.81	0.45
1:EA:670:G:H2'	1:EA:671:G:C8	2.52	0.45
1:EA:702:A:H5'	1:EA:703:G:N7	2.32	0.45
1:EA:720:C:H2'	1:EA:721:G:N7	2.32	0.45
3:EC:123:GLN:HB3	3:EC:128:PHE:HB2	1.99	0.45
3:EC:37:GLN:H	3:EC:37:GLN:CD	2.20	0.45
6:EF:13:ASN:OD1	6:EF:14:LEU:HG	2.16	0.45
7:EG:146:GLU:H	7:EG:149:ARG:HB2	1.81	0.45
11:EK:51:LYS:HG2	11:EK:55:LYS:NZ	2.32	0.45
20:ET:30:LYS:O	20:ET:34:LYS:HG3	2.17	0.45
50:F4:21:ARG:HG3	50:F4:31:LEU:HD13	1.99	0.45
53:F7:165:VAL:HG12	53:F7:167:VAL:CG2	2.47	0.45
23:FA:97:C:OP2	43:FW:11:LYS:CD	2.61	0.45
22:FB:1006:C:N4	31:FK:30:LYS:HZ3	2.09	0.45
22:FB:1385:C:N4	22:FB:1386:A:N6	2.63	0.45
22:FB:1501:C:O2'	22:FB:1502:G:H5'	2.17	0.45
22:FB:1912:G:C3'	22:FB:1913:G:OP2	2.65	0.45
22:FB:2446:C:H2'	22:FB:2447:G:H8	1.80	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:FB:2623:A:O3'	22:FB:2624:G:C4'	2.64	0.45
22:FB:2846:G:N3	22:FB:2846:G:H2'	2.31	0.45
22:FB:2859:U:H2'	22:FB:2860:C:O4'	2.16	0.45
22:FB:57:G:H1'	22:FB:69:G:N3	2.32	0.45
22:FB:702:A:H2'	22:FB:703:A:C8	2.52	0.45
22:FB:953:G:C4'	22:FB:1203:A:H1'	2.47	0.45
24:FD:79:VAL:HG23	24:FD:117:VAL:HG21	1.98	0.45
24:FD:201:HIS:ND1	24:FD:204:ILE:HG21	2.32	0.45
24:FD:263:ARG:HH21	24:FD:264:LYS:HZ1	1.64	0.45
22:FB:2464:G:C4'	34:FN:123:GLY:H	2.07	0.45
35:FO:103:ARG:HB3	35:FO:106:ASP:OD2	2.17	0.45
35:FO:99:ARG:H	35:FO:99:ARG:HD2	1.81	0.45
36:FP:43:ILE:HG21	36:FP:49:GLN:N	2.32	0.45
37:FQ:85:SER:N	37:FQ:86:PRO:HD3	2.32	0.45
38:FR:6:THR:HB	38:FR:9:VAL:HG12	1.98	0.45
38:FR:76:TYR:O	38:FR:80:ILE:HG12	2.17	0.45
42:FV:39:ALA:O	42:FV:40:LEU:HD23	2.17	0.45
43:FW:13:LYS:HG2	43:FW:20:ALA:HA	1.99	0.45
1:GA:1277:C:O2'	1:GA:1278:U:H5'	2.16	0.45
1:GA:1496:C:H2'	1:GA:1497:G:C8	2.52	0.45
1:GA:344:A:H4'	1:GA:345:C:OP2	2.17	0.45
1:GA:35:G:H1'	12:GL:118:SER:O	2.17	0.45
1:GA:499:A:H61	1:GA:547:A:H5''	1.82	0.45
1:GA:554:C:N4	1:GA:555:C:H41	2.14	0.45
1:GA:580:U:C5'	15:GO:54:ARG:CZ	2.92	0.45
1:GA:592:G:H2'	1:GA:593:G:H8	1.81	0.45
1:GA:969:A:C2	13:GM:126:LYS:HD3	2.42	0.45
2:GB:119:GLU:C	2:GB:121:LEU:H	2.19	0.45
2:GB:74:LYS:HG2	2:GB:205:ASP:O	2.16	0.45
3:GC:123:GLN:HB3	3:GC:128:PHE:HB2	1.99	0.45
5:GE:101:ILE:HB	5:GE:119:LEU:HD23	1.98	0.45
5:GE:11:ILE:HG13	5:GE:31:LEU:HB2	1.97	0.45
1:GA:1251:A:P	9:GI:12:GLU:OE1	2.75	0.45
10:GJ:80:LYS:C	10:GJ:84:GLN:HB2	2.36	0.45
11:GK:66:LEU:O	11:GK:70:LYS:HE3	2.17	0.45
12:GL:45:PRO:HD2	12:GL:49:ASN:O	2.15	0.45
1:GA:1308:U:OP1	13:GM:97:PRO:HB3	2.17	0.45
15:GO:33:THR:HA	15:GO:36:ILE:CD1	2.47	0.45
17:GQ:43:LEU:HB3	17:GQ:69:LYS:HZ3	1.82	0.45
1:GA:255:G:P	17:GQ:65:ILE:HG22	2.55	0.45
20:GT:11:SER:C	20:GT:13:LEU:H	2.20	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
51:H5:23:MET:HA	51:H5:48:PHE:CE1	2.52	0.45
51:H5:24:ALA:HB3	51:H5:48:PHE:HA	1.97	0.45
51:H5:24:ALA:HB3	51:H5:47:GLY:O	2.17	0.45
53:H7:164:GLN:HE21	53:H7:164:GLN:HB3	1.50	0.45
53:H7:174:MSE:HG2	53:H7:175:LYS:CD	2.47	0.45
53:H7:63:ARG:HG2	53:H7:82:LYS:NZ	2.32	0.45
22:HB:1134:C:H2'	22:HB:1135:C:C6	2.52	0.45
22:HB:1168:G:H2'	22:HB:1169:C:C6	2.52	0.45
22:HB:1312:G:H4'	22:HB:1314:A:C4	2.52	0.45
22:HB:1398:G:H5''	22:HB:1416:A:N3	2.32	0.45
22:HB:1486:A:C6	22:HB:1537:U:C4	3.05	0.45
22:HB:1461:C:HO2'	22:HB:1561:A:HO2'	1.64	0.45
22:HB:1709:U:H1'	22:HB:1713:G:C2	2.52	0.45
22:HB:1886:G:H2'	22:HB:1887:G:H8	1.82	0.45
22:HB:21:A:N6	22:HB:528:G:H1	2.15	0.45
22:HB:2547:C:H2'	22:HB:2548:G:H8	1.80	0.45
22:HB:2575:U:H2'	22:HB:2576:G:C8	2.52	0.45
22:HB:2602:G:OP1	22:HB:2801:A:N9	2.50	0.45
22:HB:2617:G:H1	22:HB:2755:A:H2'	1.80	0.45
22:HB:295:C:H42	22:HB:368:A:H61	1.64	0.45
22:HB:416:U:H5''	22:HB:419:G:H1'	1.98	0.45
22:HB:489:A:C5'	42:HV:4:PRO:C	2.78	0.45
22:HB:653:G:O3'	22:HB:654:A:H4'	2.17	0.45
22:HB:82:G:O2'	22:HB:83:A:H5'	2.16	0.45
22:HB:964:A:O2'	22:HB:965:G:H5'	2.16	0.45
24:HD:260:ARG:HB3	24:HD:261:ARG:H	1.51	0.45
24:HD:63:ARG:CZ	24:HD:87:ASN:HB2	2.47	0.45
26:HF:132:ASN:CA	26:HF:135:SER:HB3	2.38	0.45
26:HF:39:ARG:HA	26:HF:39:ARG:HE	1.82	0.45
27:HG:175:LEU:HB2	27:HG:176:PRO:HD3	1.99	0.45
27:HG:30:ARG:H	27:HG:30:ARG:HE	1.59	0.45
31:HK:41:TRP:CD2	31:HK:79:PHE:HB2	2.51	0.45
32:HL:98:ILE:HG23	32:HL:106:ARG:O	2.17	0.45
34:HN:44:LYS:HA	34:HN:94:TRP:CD1	2.52	0.45
35:HO:45:ARG:O	35:HO:47:PHE:N	2.43	0.45
35:HO:97:ILE:N	35:HO:97:ILE:HD12	2.32	0.45
36:HP:43:ILE:HG21	36:HP:49:GLN:N	2.32	0.45
40:HT:118:LYS:NZ	40:HT:118:LYS:HB3	2.32	0.45
43:HW:124:ALA:CB	43:HW:160:LEU:H	2.29	0.45
45:HY:38:ALA:C	45:HY:40:PRO:HD3	2.37	0.45
1:IA:1016:A:H4'	1:IA:1217:C:O2'	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:IA:1184:G:OP1	1:IA:1184:G:H3'	2.17	0.45
1:IA:1392:G:H4'	1:IA:1530:G:C5'	2.46	0.45
1:IA:259:G:OP1	20:IT:80:ARG:CZ	2.63	0.45
1:IA:309:G:H2'	1:IA:310:G:C8	2.52	0.45
1:IA:449:C:H2'	16:IP:42:ARG:HD2	1.47	0.45
2:IB:106:LYS:O	2:IB:106:LYS:HD2	2.17	0.45
1:IA:1097:C:C4'	2:IB:140:HIS:CE1	2.98	0.45
3:IC:8:ILE:HA	3:IC:11:ARG:CZ	2.46	0.45
3:IC:42:LEU:O	3:IC:46:GLU:HG2	2.16	0.45
4:ID:74:GLN:O	4:ID:78:LEU:HG	2.17	0.45
6:IF:87:ARG:HD2	18:IR:75:ILE:O	2.17	0.45
7:IG:146:GLU:H	7:IG:149:ARG:HB2	1.81	0.45
7:IG:153:HIS:O	7:IG:155:ARG:HG3	2.17	0.45
8:IH:121:ASP:HA	8:IH:124:ALA:HB3	1.98	0.45
9:II:26:VAL:HG21	9:II:61:ALA:HB3	1.98	0.45
9:II:86:VAL:HA	9:II:89:ASN:O	2.17	0.45
13:IM:16:ASP:HA	13:IM:19:LEU:HD12	1.97	0.45
1:IA:450:G:O4'	16:IP:42:ARG:N	2.50	0.45
47:J1:10:VAL:N	47:J1:11:PRO:CD	2.80	0.45
47:J1:5:LEU:N	47:J1:5:LEU:HD22	2.32	0.45
22:JB:123:A:H4'	50:J4:14:LYS:HG3	1.97	0.45
53:J7:147:TYR:O	53:J7:151:PHE:HB2	2.16	0.45
22:JB:3166:G:H2'	53:J7:98:ARG:N	2.32	0.45
22:JB:116:A:H5'	22:JB:155:G:H4'	1.98	0.45
22:JB:1202:U:C6	39:JS:80:TYR:CZ	3.04	0.45
22:JB:1288:A:H8	22:JB:1662:G:N2	2.15	0.45
22:JB:1669:A:H62	22:JB:1670:G:N2	2.03	0.45
22:JB:1940:C:H5'	22:JB:1967:U:H1'	1.98	0.45
22:JB:541:C:OP1	22:JB:2004:U:C5	2.70	0.45
22:JB:2043:A:O5'	26:JF:62:LYS:HB3	2.17	0.45
22:JB:2321:C:H2'	22:JB:2322:U:O4'	2.17	0.45
22:JB:2518:C:H2'	22:JB:2519:C:C6	2.52	0.45
22:JB:367:G:H2'	22:JB:368:A:C8	2.52	0.45
22:JB:389:G:H2'	22:JB:390:U:C6	2.52	0.45
22:JB:412:U:H2'	22:JB:413:G:H5'	1.99	0.45
22:JB:416:U:H5'	22:JB:419:G:O2'	2.16	0.45
22:JB:455:A:N6	26:JF:91:TYR:HE2	2.12	0.45
22:JB:21:A:N6	22:JB:528:G:H1	2.15	0.45
22:JB:585:U:H2'	22:JB:586:G:H8	1.81	0.45
22:JB:692:C:H2'	22:JB:693:A:C8	2.51	0.45
22:JB:79:G:H2'	22:JB:80:A:C8	2.46	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:JB:857:U:C3'	22:JB:858:G:OP1	2.61	0.45
24:JD:151:LYS:HE2	24:JD:151:LYS:HA	1.99	0.45
24:JD:216:GLY:C	24:JD:217:ARG:HD2	2.38	0.45
24:JD:54:ILE:HD13	24:JD:220:HIS:CD2	2.52	0.45
24:JD:261:ARG:HA	24:JD:261:ARG:CZ	2.47	0.45
27:JG:72:LYS:HD2	27:JG:80:ARG:CA	2.47	0.45
27:JG:78:LYS:HG3	27:JG:80:ARG:NH1	2.21	0.45
28:JH:18:ASN:N	28:JH:18:ASN:HD22	2.15	0.45
29:JI:3:VAL:HG21	29:JI:18:VAL:O	2.17	0.45
30:JJ:119:SER:H	30:JJ:123:ALA:HB2	1.82	0.45
30:JJ:111:LYS:HD3	30:JJ:124:ALA:HA	1.98	0.45
30:JJ:125:ASN:ND2	30:JJ:125:ASN:N	2.60	0.45
30:JJ:51:ALA:HA	30:JJ:76:TYR:CE1	2.52	0.45
34:JN:44:LYS:HA	34:JN:94:TRP:CD1	2.52	0.45
36:JP:43:ILE:HG21	36:JP:49:GLN:N	2.32	0.45
37:JQ:66:PHE:CD2	37:JQ:85:SER:HB3	2.52	0.45
22:JB:2003:A:C1'	38:JR:25:TRP:CH2	2.96	0.45
38:JR:28:ARG:HA	38:JR:31:GLN:HG3	1.99	0.45
38:JR:44:THR:C	38:JR:46:GLU:H	2.19	0.45
43:JW:147:ILE:O	43:JW:147:ILE:HG23	2.16	0.45
43:JW:41:ARG:HB2	43:JW:41:ARG:NH2	2.32	0.45
22:JB:938:G:N2	46:JZ:39:ALA:HB1	2.32	0.45
1:AA:1397:C:O2'	1:AA:1398:A:OP2	2.31	0.45
1:AA:37:U:O2'	1:AA:500:G:H4'	2.17	0.45
1:AA:526:C:H2'	1:AA:527:G:C4'	2.46	0.45
1:AA:665:A:H2'	1:AA:725:G:H22	1.81	0.45
1:AA:702:A:OP1	22:BB:1840:A:O4'	2.35	0.45
3:AC:202:ILE:HG22	3:AC:203:PHE:N	2.32	0.45
3:AC:69:HIS:HB3	3:AC:106:VAL:CG2	2.44	0.45
4:AD:67:ILE:HG22	4:AD:114:ARG:NH1	2.32	0.45
1:AA:8:A:C5	4:AD:205:GLU:HB2	2.52	0.45
5:AE:150:ARG:CZ	8:AH:77:GLU:OE1	2.64	0.45
6:AF:13:ASN:OD1	6:AF:14:LEU:HG	2.16	0.45
7:AG:73:MET:HG3	7:AG:144:MET:O	2.16	0.45
7:AG:153:HIS:O	7:AG:155:ARG:HG3	2.17	0.45
8:AH:116:LYS:HD2	8:AH:127:LEU:O	2.17	0.45
8:AH:33:GLU:CG	8:AH:59:LEU:HD11	2.47	0.45
8:AH:18:ARG:NH2	8:AH:83:ILE:HG22	2.31	0.45
12:AL:85:ILE:HG22	12:AL:86:ARG:N	2.32	0.45
1:AA:667:G:C4	15:AO:49:ASP:CG	2.91	0.45
1:AA:237:C:OP1	17:AQ:27:PHE:HZ	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:265:G:N2	17:AQ:70:ARG:HH22	2.05	0.45
51:B5:50:LEU:HD23	51:B5:52:LYS:NZ	2.32	0.45
22:BB:1039:A:H2	22:BB:2466:G:C1'	2.29	0.45
22:BB:852:U:O2'	22:BB:1205:G:H1'	2.17	0.45
22:BB:1579:G:H2'	22:BB:1580:C:C6	2.52	0.45
22:BB:1583:A:N6	24:BD:89:SER:HB3	2.24	0.45
22:BB:1625:A:N3	22:BB:1625:A:H3'	2.32	0.45
22:BB:2250:G:H5''	22:BB:2251:U:OP1	2.17	0.45
22:BB:2461:G:N1	34:BN:53:ILE:CG1	2.69	0.45
22:BB:2727:G:C6	22:BB:2735:C:H5''	2.52	0.45
22:BB:2754:C:H2'	22:BB:2755:A:O4'	2.15	0.45
22:BB:471:A:H2'	22:BB:472:C:H4'	1.99	0.45
22:BB:57:G:C2	22:BB:72:A:N1	2.84	0.45
22:BB:767:G:H2'	22:BB:768:U:C6	2.52	0.45
22:BB:953:G:C4'	22:BB:1203:A:H1'	2.47	0.45
22:BB:955:G:N3	22:BB:955:G:H2'	2.31	0.45
24:BD:11:PRO:CD	24:BD:24:LEU:H	2.29	0.45
24:BD:68:LYS:HE3	24:BD:191:ALA:HA	1.98	0.45
24:BD:216:GLY:C	24:BD:217:ARG:HD2	2.37	0.45
24:BD:261:ARG:HA	24:BD:261:ARG:CZ	2.46	0.45
22:BB:1803:G:N3	24:BD:46:ARG:HG3	2.32	0.45
26:BF:104:LEU:CD2	26:BF:180:ILE:HG21	2.45	0.45
26:BF:39:ARG:HA	26:BF:39:ARG:HE	1.82	0.45
27:BG:122:PHE:CD2	27:BG:123:ASP:N	2.85	0.45
27:BG:86:GLY:O	27:BG:87:ILE:HG23	2.16	0.45
29:BI:36:VAL:O	29:BI:37:SER:HB2	2.17	0.45
32:BL:112:GLY:O	32:BL:131:PRO:HB2	2.17	0.45
33:BM:34:HIS:C	33:BM:35:LYS:HZ2	2.20	0.45
34:BN:33:TYR:CE2	34:BN:128:ILE:HD12	2.52	0.45
37:BQ:66:PHE:CD2	37:BQ:85:SER:HB3	2.52	0.45
22:BB:505:G:C1'	40:BT:78:ASN:CA	2.93	0.45
43:BW:41:ARG:HB2	43:BW:41:ARG:NH2	2.32	0.45
46:BZ:5:LEU:CD1	46:BZ:31:SER:HB3	2.44	0.45
1:CA:1063:C:H3'	1:CA:1063:C:OP2	2.17	0.45
1:CA:1101:A:H4'	1:CA:1102:A:O5'	2.16	0.45
1:CA:1117:G:O3'	9:CI:9:ARG:NE	2.50	0.45
1:CA:1184:G:OP1	1:CA:1184:G:H3'	2.17	0.45
1:CA:447:G:H1'	1:CA:487:A:N6	2.32	0.45
1:CA:518:C:H5''	1:CA:520:A:H62	1.82	0.45
1:CA:559:A:C2	5:CE:125:SER:CA	2.88	0.45
1:CA:616:G:H2'	1:CA:617:G:H8	1.81	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:670:G:H2'	1:CA:671:G:C8	2.52	0.45
1:CA:709:G:H2'	1:CA:710:G:H8	1.82	0.45
1:CA:741:G:H4'	15:CO:55:GLY:O	2.17	0.45
3:CC:8:ILE:HG23	3:CC:11:ARG:NH2	2.31	0.45
3:CC:12:LEU:N	3:CC:16:ARG:HB3	2.32	0.45
6:CF:13:ASN:OD1	6:CF:14:LEU:HG	2.16	0.45
9:CI:28:VAL:HB	9:CI:31:GLN:O	2.17	0.45
10:CJ:42:THR:HG23	10:CJ:67:THR:O	2.17	0.45
10:CJ:7:LYS:O	10:CJ:96:ILE:HG23	2.17	0.45
1:CA:523:A:N6	12:CL:92:ASP:H	2.15	0.45
1:CA:951:G:C6	13:CM:125:ARG:O	2.65	0.45
13:CM:78:ILE:HA	13:CM:81:LEU:CD2	2.47	0.45
15:CO:33:THR:HA	15:CO:36:ILE:CD1	2.47	0.45
1:CA:273:A:N7	17:CQ:16:GLN:OE1	2.50	0.45
1:CA:255:G:C1'	17:CQ:17:LYS:HZ1	2.30	0.45
17:CQ:64:PRO:HA	17:CQ:70:ARG:HG3	1.98	0.45
20:CT:104:LEU:HB3	20:CT:105:SER:H	1.52	0.45
33:DM:52:GLY:CA	51:D5:55:TRP:CE3	2.89	0.45
22:DB:1010:U:N3	22:DB:1168:G:N1	2.64	0.45
22:DB:1034:U:O2	22:DB:1133:G:OP1	2.35	0.45
22:DB:953:G:C4'	22:DB:1203:A:H1'	2.47	0.45
22:DB:1423:A:H2'	22:DB:1424:U:C6	2.51	0.45
22:DB:1572:C:C2'	22:DB:1573:G:H5''	2.44	0.45
22:DB:1908:C:H2'	22:DB:1909:U:C4'	2.45	0.45
22:DB:2009:U:H2'	22:DB:2010:G:O4'	2.16	0.45
22:DB:2632:U:O2	28:DH:110:SER:OG	2.19	0.45
22:DB:458:G:H5'	22:DB:461:A:H1'	1.99	0.45
22:DB:574:C:OP2	39:DS:79:GLN:C	2.55	0.45
22:DB:674:U:O2	33:DM:23:PRO:HA	2.17	0.45
22:DB:58:C:O4'	22:DB:72:A:C6	2.70	0.45
22:DB:767:G:H2'	22:DB:768:U:C6	2.52	0.45
22:DB:887:G:H5''	43:DW:148:THR:CG2	2.48	0.45
24:DD:79:VAL:HG23	24:DD:117:VAL:HG21	1.98	0.45
24:DD:201:HIS:ND1	24:DD:204:ILE:HG21	2.32	0.45
24:DD:48:ARG:N	24:DD:48:ARG:NE	2.64	0.45
27:DG:5:LYS:HD2	27:DG:8:TYR:CD1	2.52	0.45
30:DJ:90:THR:O	30:DJ:91:PRO:O	2.34	0.45
35:DO:103:ARG:HB3	35:DO:106:ASP:OD2	2.17	0.45
35:DO:96:ARG:HD2	35:DO:96:ARG:N	2.31	0.45
22:DB:545:C:C2	38:DR:53:LYS:HE2	2.52	0.45
40:DT:78:ASN:C	40:DT:80:LEU:H	2.19	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:DW:10:PRO:O	43:DW:14:LEU:HD23	2.17	0.45
23:DA:106:U:C5'	43:DW:91:PRO:HD3	2.21	0.45
46:DZ:14:GLY:O	46:DZ:17:VAL:HB	2.17	0.45
1:EA:1113:C:H2'	1:EA:1114:C:O4'	2.17	0.45
1:EA:1355:G:H2'	1:EA:1356:G:H8	1.80	0.45
1:EA:1378:C:C5	1:EA:1379:G:H1'	2.52	0.45
1:EA:1378:C:H3'	1:EA:1379:G:C4'	2.46	0.45
1:EA:1497:G:H2'	1:EA:1498:U:C6	2.52	0.45
1:EA:408:A:H4'	4:ED:112:VAL:HG11	1.98	0.45
1:EA:509:A:H4'	1:EA:510:A:OP1	2.17	0.45
1:EA:619:U:H2'	1:EA:620:C:H5'	1.99	0.45
1:EA:828:A:H2'	1:EA:829:G:O4'	2.17	0.45
1:EA:861:G:H2'	1:EA:862:C:O4'	2.17	0.45
2:EB:116:GLU:HA	2:EB:153:ARG:HD3	1.98	0.45
2:EB:165:VAL:HB	2:EB:170:GLU:OE1	2.17	0.45
2:EB:211:ILE:HA	2:EB:214:ILE:HG12	1.99	0.45
2:EB:42:ILE:HG22	2:EB:43:ASP:N	2.32	0.45
3:EC:112:SER:O	3:EC:116:VAL:HG23	2.17	0.45
3:EC:157:ILE:CD1	3:EC:164:ARG:HH21	2.30	0.45
3:EC:173:VAL:HG12	3:EC:182:ILE:HD11	1.99	0.45
4:ED:126:ILE:HG22	4:ED:127:THR:N	2.24	0.45
6:EF:74:ASP:O	6:EF:78:GLU:HB2	2.16	0.45
10:EJ:10:GLY:C	10:EJ:16:LEU:HD11	2.38	0.45
10:EJ:12:ASP:O	10:EJ:15:THR:HG22	2.16	0.45
10:EJ:80:LYS:C	10:EJ:84:GLN:HB2	2.36	0.45
13:EM:15:VAL:HG21	13:EM:48:LEU:HD11	1.99	0.45
1:EA:128:G:O4'	17:EQ:61:GLU:HB3	2.14	0.45
18:ER:78:LEU:O	18:ER:78:LEU:HD23	2.17	0.45
53:F7:182:ASN:O	53:F7:186:VAL:HG23	2.17	0.45
23:FA:26:G:H4'	23:FA:27:A:N7	2.31	0.45
22:FB:1168:G:H2'	22:FB:1169:C:C6	2.52	0.45
22:FB:852:U:O2'	22:FB:1205:G:H1'	2.17	0.45
22:FB:1398:G:H21	22:FB:1416:A:P	2.40	0.45
22:FB:1406:A:N6	41:FU:15:LYS:CD	2.80	0.45
22:FB:1625:A:N3	22:FB:1625:A:H3'	2.32	0.45
22:FB:1997:A:H5'	40:FT:115:ASN:ND2	2.31	0.45
22:FB:2053:G:H2'	22:FB:2054:A:C8	2.52	0.45
22:FB:2065:A:H3'	22:FB:2066:G:C8	2.52	0.45
22:FB:2260:C:O3'	22:FB:2368:G:N2	2.48	0.45
22:FB:2547:C:H2'	22:FB:2548:G:H8	1.80	0.45
22:FB:2851:G:H21	22:FB:2852:G:H1'	1.81	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:FB:404:A:H2'	22:FB:405:C:C5'	2.47	0.45
22:FB:844:G:O3'	33:FM:41:SER:CB	2.65	0.45
22:FB:954:U:C5	33:FM:39:SER:HB2	2.47	0.45
22:FB:955:G:N3	22:FB:955:G:H2'	2.31	0.45
24:FD:121:PRO:HG3	24:FD:132:PRO:HD3	1.99	0.45
24:FD:23:GLY:O	24:FD:24:LEU:HG	2.17	0.45
24:FD:48:ARG:NE	24:FD:48:ARG:N	2.64	0.45
24:FD:64:ILE:HG22	24:FD:65:ILE:N	2.31	0.45
25:FE:7:THR:HB	25:FE:194:GLY:N	2.33	0.45
22:FB:2661:G:N2	25:FE:22:PRO:O	2.50	0.45
26:FF:15:ILE:CG2	26:FF:16:GLU:N	2.79	0.45
27:FG:156:ILE:CD1	27:FG:158:THR:HG23	2.47	0.45
29:FI:46:LEU:O	29:FI:47:GLU:HB2	2.16	0.45
31:FK:136:PRO:O	31:FK:137:LYS:HB3	2.17	0.45
32:FL:98:ILE:HG23	32:FL:106:ARG:O	2.17	0.45
32:FL:11:ALA:CB	32:FL:19:ILE:HG21	2.47	0.45
23:FA:119:G:P	36:FP:39:TYR:OH	2.75	0.45
25:FE:51:TYR:CE1	37:FQ:2:GLN:CB	3.00	0.45
37:FQ:36:ASP:CG	37:FQ:37:THR:N	2.67	0.45
40:FT:55:ASP:N	40:FT:58:ARG:HB3	2.32	0.45
41:FU:71:GLN:CG	41:FU:72:ARG:H	2.26	0.45
22:FB:491:A:O3'	42:FV:55:THR:HG23	2.17	0.45
1:GA:1125:U:H2'	1:GA:1281:U:O2	2.17	0.45
1:GA:1130:A:O5'	9:GI:18:PHE:HB3	2.16	0.45
1:GA:1226:C:H3'	13:GM:111:LYS:HE2	1.96	0.45
1:GA:1514:C:O2'	1:GA:1515:C:H5'	2.17	0.45
1:GA:160:A:N1	1:GA:343:U:H1'	2.31	0.45
1:GA:190:A:C2	1:GA:191:G:H1'	2.52	0.45
1:GA:396:G:H2'	1:GA:398:C:C5	2.51	0.45
3:GC:105:GLU:HG2	3:GC:106:VAL:N	2.26	0.45
3:GC:123:GLN:HA	3:GC:128:PHE:CG	2.52	0.45
3:GC:12:LEU:N	3:GC:16:ARG:HB3	2.32	0.45
3:GC:157:ILE:CD1	3:GC:164:ARG:HH21	2.30	0.45
4:GD:105:VAL:O	4:GD:110:PHE:HB2	2.16	0.45
5:GE:102:ALA:HB1	5:GE:120:THR:HB	1.99	0.45
5:GE:92:LYS:HD3	5:GE:92:LYS:C	2.37	0.45
9:GI:56:LEU:O	9:GI:58:ARG:N	2.50	0.45
9:GI:86:VAL:HG11	9:GI:93:ARG:HG3	1.98	0.45
1:GA:1060:C:P	10:GJ:59:SER:CB	3.01	0.45
1:GA:1226:C:C3'	13:GM:111:LYS:CE	2.93	0.45
13:GM:71:ARG:HA	13:GM:74:VAL:HG23	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:GM:88:ARG:C	13:GM:98:VAL:CG1	2.86	0.45
18:GR:78:LEU:HD23	18:GR:78:LEU:O	2.17	0.45
19:GS:9:VAL:HG12	19:GS:39:THR:OG1	2.16	0.45
50:H4:21:ARG:HG3	50:H4:31:LEU:HD13	1.99	0.45
22:HB:1070:G:N9	30:HJ:126:THR:HG22	2.32	0.45
22:HB:1114:A:H2'	22:HB:1115:C:C6	2.52	0.45
22:HB:1306:U:H2'	22:HB:1307:U:O4'	2.17	0.45
22:HB:1483:G:O3'	22:HB:1484:G:O4'	2.35	0.45
22:HB:207:U:H2'	22:HB:208:C:O4'	2.17	0.45
22:HB:218:A:O2'	22:HB:219:G:H4'	2.17	0.45
22:HB:226:C:N1	22:HB:2373:C:O2'	2.49	0.45
22:HB:2462:C:H1'	34:HN:50:ALA:HB2	1.87	0.45
22:HB:2474:G:C5'	34:HN:84:MET:SD	3.05	0.45
22:HB:2697:G:H22	22:HB:2822:U:H4'	1.82	0.45
22:HB:3113:U:H2'	22:HB:3114:A:O4'	2.16	0.45
22:HB:553:C:N4	22:HB:556:A:O2'	2.49	0.45
22:HB:79:G:H2'	22:HB:80:A:C8	2.46	0.45
22:HB:818:G:C5'	33:HM:41:SER:CA	2.94	0.45
22:HB:832:A:C2	22:HB:953:G:H1'	2.52	0.45
24:HD:201:HIS:ND1	24:HD:204:ILE:HG21	2.32	0.45
24:HD:216:GLY:C	24:HD:217:ARG:HD2	2.37	0.45
22:HB:1795:C:H5'	24:HD:250:TRP:CZ2	2.45	0.45
26:HF:151:VAL:HG11	26:HF:188:ILE:HG23	1.98	0.45
27:HG:156:ILE:CD1	27:HG:158:THR:HG23	2.47	0.45
27:HG:168:ALA:O	27:HG:171:GLN:HB2	2.17	0.45
31:HK:41:TRP:HE1	31:HK:164:GLN:CB	2.29	0.45
32:HL:47:VAL:HG13	32:HL:48:GLY:N	2.23	0.45
35:HO:79:VAL:HG13	35:HO:80:MET:SD	2.57	0.45
22:HB:2847:G:N2	35:HO:9:LYS:O	2.50	0.45
37:HQ:36:ASP:O	37:HQ:38:LYS:HE2	2.16	0.45
38:HR:44:THR:C	38:HR:46:GLU:H	2.20	0.45
41:HU:15:LYS:HG3	41:HU:19:ALA:CB	2.47	0.45
41:HU:42:ILE:HB	41:HU:50:VAL:CG2	2.47	0.45
41:HU:71:GLN:CG	41:HU:72:ARG:H	2.26	0.45
41:HU:77:LYS:HZ1	41:HU:79:ILE:HD11	1.82	0.45
44:HX:24:LYS:HB3	44:HX:25:LYS:H	1.50	0.45
44:HX:43:THR:OG1	44:HX:67:VAL:HG12	2.17	0.45
46:HZ:15:ASN:HA	46:HZ:18:LYS:HE3	1.99	0.45
1:IA:1397:C:O2'	1:IA:1398:A:OP2	2.32	0.45
1:IA:1415:G:H2'	1:IA:1416:G:H8	1.82	0.45
1:IA:1514:C:O2'	1:IA:1515:C:H5'	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:IA:254:G:H2'	1:IA:255:G:H8	1.82	0.45
1:IA:637:G:P	17:IQ:5:VAL:HG22	2.48	0.45
1:IA:640:A:O2'	8:IH:127:LEU:CG	2.56	0.45
1:IA:719:C:N3	18:IR:74:ARG:CZ	2.80	0.45
1:IA:792:A:H1'	1:IA:793:U:OP2	2.17	0.45
4:ID:205:GLU:HG3	5:IE:101:ILE:HG12	1.99	0.45
7:IG:35:LYS:HE2	7:IG:38:LEU:N	2.32	0.45
10:IJ:23:ILE:HG23	10:IJ:85:LEU:HD13	1.99	0.45
1:IA:1297:C:OP1	13:IM:13:LYS:NZ	2.50	0.45
13:IM:71:ARG:HA	13:IM:74:VAL:HG23	1.99	0.45
1:IA:448:A:H2	16:IP:44:THR:OG1	1.99	0.45
17:IQ:7:THR:HG22	17:IQ:56:VAL:HG12	1.99	0.45
20:IT:11:SER:C	20:IT:13:LEU:H	2.20	0.45
51:J5:16:ILE:HG13	51:J5:17:THR:N	2.32	0.45
51:J5:30:ARG:HB2	51:J5:31:HIS:H	1.64	0.45
51:J5:50:LEU:HD23	51:J5:52:LYS:NZ	2.32	0.45
53:J7:63:ARG:HG2	53:J7:82:LYS:NZ	2.32	0.45
22:JB:1003:C:C5'	39:JS:74:TYR:HB2	2.46	0.45
22:JB:1114:A:H2'	22:JB:1115:C:C6	2.51	0.45
22:JB:1204:G:OP2	33:JM:35:LYS:CB	2.59	0.45
22:JB:1306:U:H2'	22:JB:1307:U:O4'	2.17	0.45
22:JB:1312:G:H4'	22:JB:1314:A:C4	2.52	0.45
22:JB:1463:A:N6	22:JB:1477:C:N4	2.63	0.45
22:JB:1706:A:H2'	22:JB:1707:A:C8	2.51	0.45
22:JB:1829:C:O2'	22:JB:1910:A:C1'	2.48	0.45
22:JB:1886:G:H2'	22:JB:1887:G:H8	1.82	0.45
22:JB:2065:A:H3'	22:JB:2066:G:C8	2.52	0.45
22:JB:2547:C:H2'	22:JB:2548:G:H8	1.80	0.45
22:JB:2571:G:N7	24:JD:237:GLU:CB	2.80	0.45
22:JB:2653:A:H2'	22:JB:2654:A:N7	2.32	0.45
22:JB:80:A:O2'	22:JB:306:G:O4'	2.35	0.45
22:JB:471:A:H2'	22:JB:472:C:H4'	1.99	0.45
22:JB:498:C:N4	22:JB:504:G:O6	2.51	0.45
22:JB:553:C:N4	22:JB:556:A:O2'	2.49	0.45
24:JD:121:PRO:HG3	24:JD:132:PRO:HD3	1.99	0.45
24:JD:252:LYS:N	24:JD:253:PRO:CD	2.80	0.45
22:JB:2598:C:C2'	25:JE:154:LYS:HZ2	2.29	0.45
25:JE:31:CYS:SG	25:JE:32:PRO:HD2	2.57	0.45
27:JG:53:ALA:HB1	27:JG:148:LYS:HD2	1.99	0.45
22:JB:1017:C:O2	31:JK:134:MET:HG3	2.17	0.45
31:JK:136:PRO:O	31:JK:137:LYS:HB3	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:JK:41:TRP:HE1	31:JK:164:GLN:CB	2.29	0.45
32:JL:11:ALA:CB	32:JL:19:ILE:HG21	2.47	0.45
22:JB:684:C:N4	33:JM:45:LYS:HD2	2.31	0.45
34:JN:75:VAL:HB	34:JN:92:GLU:OE1	2.17	0.45
35:JO:96:ARG:HD2	35:JO:96:ARG:N	2.31	0.45
23:JA:53:G:C6	36:JP:64:LYS:NZ	2.76	0.45
37:JQ:31:ASP:HA	37:JQ:56:ALA:O	2.16	0.45
22:JB:1164:C:H5'	38:JR:76:TYR:OH	2.17	0.45
22:JB:828:C:OP1	39:JS:84:THR:CA	2.65	0.45
40:JT:55:ASP:N	40:JT:58:ARG:HB3	2.32	0.45
1:AA:1053:G:C3'	1:AA:1054:C:H5'	2.46	0.44
1:AA:1060:C:H5''	10:AJ:59:SER:HB3	0.82	0.44
1:AA:1378:C:H3'	1:AA:1379:G:C4'	2.46	0.44
1:AA:920:U:O4	1:AA:1396:A:N6	2.51	0.44
1:AA:1497:G:H2'	1:AA:1498:U:C6	2.53	0.44
1:AA:19:C:OP1	5:AE:127:ASN:ND2	2.51	0.44
1:AA:119:A:N6	1:AA:240:C:N3	2.65	0.44
1:AA:761:G:H1'	17:AQ:103:GLY:HA2	2.00	0.44
1:AA:861:G:H2'	1:AA:862:C:O4'	2.17	0.44
1:AA:936:C:H2'	1:AA:937:A:C8	2.48	0.44
1:AA:980:C:C2'	14:AN:19:ARG:CZ	2.95	0.44
1:AA:98:U:H2'	1:AA:99:C:C4'	2.47	0.44
2:AB:92:TYR:O	2:AB:152:PHE:HB2	2.16	0.44
2:AB:16:HIS:CE1	2:AB:213:LEU:HB3	2.50	0.44
2:AB:42:ILE:HG22	2:AB:43:ASP:N	2.32	0.44
1:AA:407:G:HO2'	4:AD:116:GLN:HB2	1.80	0.44
13:AM:101:GLN:HA	13:AM:101:GLN:OE1	2.16	0.44
17:AQ:81:ARG:C	17:AQ:83:ASP:H	2.20	0.44
1:AA:1320:C:C4	19:AS:36:ARG:O	2.70	0.44
1:AA:1320:C:N3	19:AS:72:GLY:HA3	2.28	0.44
51:B5:24:ALA:HB3	51:B5:47:GLY:O	2.17	0.44
22:BB:1042:G:N2	52:B6:22:ARG:C	2.70	0.44
22:BB:1166:A:HO2'	22:BB:1167:A:H8	1.61	0.44
22:BB:1306:U:H2'	22:BB:1307:U:O4'	2.18	0.44
22:BB:1886:G:H2'	22:BB:1887:G:H8	1.82	0.44
22:BB:1910:A:H2'	22:BB:1911:A:O4'	2.18	0.44
22:BB:1934:U:H2'	22:BB:1935:A:C8	2.52	0.44
22:BB:540:G:C5	22:BB:2018:G:C5'	3.00	0.44
22:BB:2026:C:H2'	22:BB:2027:C:C6	2.52	0.44
22:BB:2402:U:H4'	22:BB:2404:A:OP1	2.17	0.44
22:BB:2411:A:H2	47:B1:22:MET:HE1	1.80	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:BB:2491:C:OP1	25:BE:120:TRP:CD1	2.70	0.44
22:BB:2603:G:H2'	22:BB:2604:G:O4'	2.17	0.44
22:BB:2704:U:H2'	22:BB:2705:A:H8	1.78	0.44
22:BB:2814:G:H21	35:BO:91:PRO:HB2	1.27	0.44
22:BB:2859:U:H2'	22:BB:2860:C:O4'	2.16	0.44
22:BB:334:G:C8	26:BF:163:ASN:OD1	2.70	0.44
22:BB:461:A:N3	22:BB:461:A:H2'	2.33	0.44
22:BB:828:C:H5''	39:BS:86:HIS:CD2	2.51	0.44
25:BE:7:THR:HB	25:BE:194:GLY:N	2.33	0.44
25:BE:82:ARG:HD3	25:BE:83:GLY:N	2.32	0.44
25:BE:93:VAL:O	25:BE:93:VAL:HG12	2.18	0.44
26:BF:173:ALA:HB1	26:BF:193:LEU:HD22	1.99	0.44
27:BG:34:ILE:N	27:BG:34:ILE:HD13	2.32	0.44
29:BI:3:VAL:HG21	29:BI:18:VAL:O	2.17	0.44
31:BK:149:LYS:NZ	31:BK:149:LYS:HA	2.32	0.44
32:BL:98:ILE:HG23	32:BL:106:ARG:O	2.17	0.44
36:BP:83:GLY:O	36:BP:84:ILE:HB	2.17	0.44
37:BQ:85:SER:N	37:BQ:86:PRO:HD3	2.32	0.44
38:BR:59:ARG:O	38:BR:60:LEU:HD22	2.18	0.44
22:BB:1007:A:H5''	38:BR:93:LYS:HE2	1.98	0.44
40:BT:73:ASN:H	40:BT:73:ASN:ND2	2.15	0.44
22:BB:23:G:C1'	40:BT:96:TYR:CZ	2.89	0.44
41:BU:42:ILE:HB	41:BU:50:VAL:CG2	2.48	0.44
1:CA:1021:G:H2'	1:CA:1022:G:H4'	1.99	0.44
1:CA:1148:U:O4'	9:CI:16:ARG:NH2	2.51	0.44
1:CA:1189:C:H5'	3:CC:10:PHE:CZ	2.53	0.44
1:CA:1228:C:H4'	13:CM:118:ALA:N	2.31	0.44
1:CA:1514:C:O2'	1:CA:1515:C:H5'	2.17	0.44
1:CA:37:U:O2'	1:CA:500:G:H4'	2.17	0.44
1:CA:382:A:H2'	1:CA:383:A:C8	2.51	0.44
1:CA:505:G:H2'	1:CA:506:G:H8	1.81	0.44
2:CB:16:HIS:CE1	2:CB:213:LEU:HB3	2.51	0.44
2:CB:90:MET:HA	2:CB:91:PRO:HD3	1.76	0.44
3:CC:123:GLN:HA	3:CC:128:PHE:CG	2.52	0.44
3:CC:59:ARG:HA	3:CC:64:VAL:HA	1.98	0.44
1:CA:409:G:OP1	4:CD:22:LYS:HB3	2.17	0.44
4:CD:74:GLN:O	4:CD:78:LEU:HG	2.17	0.44
8:CH:91:ARG:NH2	17:CQ:33:GLY:N	2.29	0.44
10:CJ:5:ARG:HB3	10:CJ:99:LYS:HB2	1.98	0.44
17:CQ:81:ARG:C	17:CQ:83:ASP:H	2.21	0.44
19:CS:63:THR:HG22	19:CS:64:GLU:H	1.82	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:DB:1656:U:H2'	22:DB:1657:A:C4'	2.46	0.44
22:DB:1910:A:H2'	22:DB:1911:A:O4'	2.17	0.44
22:DB:207:U:H2'	22:DB:208:C:O4'	2.17	0.44
22:DB:2446:C:H2'	22:DB:2447:G:H8	1.80	0.44
22:DB:2771:C:C2'	22:DB:2781:G:N2	2.80	0.44
22:DB:328:A:H2'	22:DB:329:C:O4'	2.17	0.44
22:DB:404:A:H2'	22:DB:405:C:C5'	2.47	0.44
22:DB:460:U:O2'	26:DF:78:VAL:HG22	2.17	0.44
22:DB:743:A:H5''	24:DD:17:THR:CG2	2.47	0.44
22:DB:973:U:H2'	22:DB:974:U:O4'	2.16	0.44
22:DB:989:G:H4'	22:DB:1013:G:O2'	2.16	0.44
24:DD:55:GLY:C	24:DD:218:LYS:HB2	2.38	0.44
25:DE:59:VAL:HG12	25:DE:60:ASN:N	2.32	0.44
25:DE:29:GLY:CA	25:DE:90:SER:H	2.28	0.44
27:DG:67:ILE:HG23	27:DG:68:THR:O	2.17	0.44
31:DK:116:ARG:HH12	31:DK:119:LEU:HD12	1.82	0.44
1:CA:1471:G:H5''	32:DL:17:ARG:NH1	2.32	0.44
32:DL:89:ILE:HA	37:DQ:81:PHE:CB	2.28	0.44
32:DL:90:ARG:C	37:DQ:79:ARG:CD	2.80	0.44
34:DN:12:LYS:HB3	34:DN:13:GLN:H	1.60	0.44
22:DB:1468:A:N6	35:DO:80:MET:HG2	2.32	0.44
38:DR:59:ARG:O	38:DR:60:LEU:HD22	2.18	0.44
22:DB:1007:A:HO2'	38:DR:92:ARG:HB2	1.76	0.44
40:DT:118:LYS:HB3	40:DT:118:LYS:NZ	2.32	0.44
40:DT:73:ASN:ND2	40:DT:73:ASN:H	2.15	0.44
43:DW:41:ARG:HB2	43:DW:41:ARG:NH2	2.32	0.44
45:DY:38:ALA:C	45:DY:40:PRO:HD3	2.38	0.44
1:EA:111:G:OP1	16:EP:27:LYS:CG	2.64	0.44
1:EA:15:G:H1'	5:EE:24:ARG:CZ	2.46	0.44
1:EA:190:A:C2	1:EA:191:G:H1'	2.52	0.44
1:EA:197:A:H4'	1:EA:198:G:O5'	2.16	0.44
1:EA:37:U:O2'	1:EA:500:G:H4'	2.17	0.44
1:EA:382:A:H2'	1:EA:383:A:C8	2.51	0.44
1:EA:407:G:H1'	4:ED:116:GLN:HG3	1.97	0.44
1:EA:77:C:H2'	1:EA:78:G:C4'	2.47	0.44
1:EA:918:A:H2'	1:EA:919:A:O4'	2.16	0.44
2:EB:51:LEU:C	2:EB:53:ARG:H	2.20	0.44
3:EC:123:GLN:HA	3:EC:128:PHE:CG	2.52	0.44
3:EC:84:ILE:HG23	3:EC:85:ARG:N	2.32	0.44
4:ED:67:ILE:HG22	4:ED:114:ARG:NH1	2.32	0.44
6:EF:98:LEU:HD23	6:EF:99:ALA:H	1.82	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:EI:82:ALA:HA	9:EI:86:VAL:HG23	1.99	0.44
12:EL:36:VAL:O	12:EL:58:VAL:HA	2.16	0.44
13:EM:49:THR:O	13:EM:53:VAL:HG23	2.18	0.44
17:EQ:81:ARG:C	17:EQ:83:ASP:H	2.21	0.44
17:EQ:9:VAL:H	17:EQ:22:LEU:H	1.65	0.44
48:F2:6:VAL:HB	48:F2:7:PRO:HD2	1.98	0.44
53:F7:155:VAL:HG11	53:F7:169:ILE:HA	1.97	0.44
22:FB:1057:A:H3'	22:FB:1058:G:H5''	1.98	0.44
22:FB:117:A:O3'	22:FB:118:U:H3'	2.17	0.44
22:FB:1306:U:H2'	22:FB:1307:U:O4'	2.18	0.44
22:FB:1322:G:H5''	50:F4:8:ASN:N	2.02	0.44
22:FB:1579:G:H2'	22:FB:1580:C:C6	2.52	0.44
22:FB:1811:A:O2'	22:FB:1812:U:H5''	2.16	0.44
22:FB:1886:G:H2'	22:FB:1887:G:H8	1.82	0.44
22:FB:2049:C:H1'	22:FB:2428:U:N3	2.20	0.44
22:FB:207:U:H2'	22:FB:208:C:O4'	2.17	0.44
22:FB:2250:G:H5''	22:FB:2251:U:OP1	2.17	0.44
22:FB:236:C:H1'	22:FB:632:A:C2'	2.47	0.44
22:FB:2601:C:O2'	22:FB:2799:C:N3	2.49	0.44
22:FB:328:A:H2'	22:FB:329:C:O4'	2.17	0.44
22:FB:339:U:H4'	42:FV:76:LEU:CA	2.37	0.44
22:FB:347:C:N1	42:FV:10:HIS:HE1	1.99	0.44
22:FB:458:G:H5'	22:FB:461:A:H1'	1.99	0.44
22:FB:767:G:H2'	22:FB:768:U:C6	2.52	0.44
22:FB:795:A:N6	24:FD:222:ARG:HE	2.15	0.44
24:FD:257:LEU:HD22	24:FD:258:LYS:HG2	1.99	0.44
26:FF:39:ARG:HE	26:FF:39:ARG:HA	1.81	0.44
22:FB:38:G:H21	26:FF:40:ARG:HD3	1.81	0.44
29:FI:36:VAL:O	29:FI:37:SER:HB2	2.17	0.44
30:FJ:111:LYS:HD3	30:FJ:124:ALA:HA	1.98	0.44
30:FJ:36:GLU:OE2	30:FJ:65:PHE:HB2	2.16	0.44
34:FN:91:VAL:O	34:FN:91:VAL:HG13	2.17	0.44
1:EA:1433:A:H1'	37:FQ:116:ARG:HE	1.83	0.44
37:FQ:31:ASP:HA	37:FQ:56:ALA:O	2.16	0.44
37:FQ:40:ARG:HG2	37:FQ:90:GLN:HA	2.00	0.44
22:FB:1264:C:C2'	38:FR:36:PHE:HE1	2.30	0.44
22:FB:1235:C:P	39:FS:68:LYS:CB	3.05	0.44
22:FB:338:G:C2'	42:FV:77:HIS:HE1	2.30	0.44
1:GA:1171:G:H2'	1:GA:1172:C:H5	1.79	0.44
1:GA:1199:U:O4'	10:GJ:54:PHE:CD2	2.70	0.44
1:GA:1318:A:O3'	19:GS:5:LEU:CD1	2.62	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:GA:235:C:O2	17:GQ:4:LYS:HE3	2.18	0.44
1:GA:254:G:H2'	1:GA:255:G:H8	1.83	0.44
1:GA:478:A:H8	1:GA:479:C:H5'	1.82	0.44
1:GA:665:A:H2'	1:GA:725:G:H22	1.81	0.44
1:GA:828:A:H2'	1:GA:829:G:O4'	2.17	0.44
1:GA:910:C:H2'	1:GA:911:U:H6	1.81	0.44
2:GB:152:PHE:CZ	2:GB:155:LEU:HD12	2.52	0.44
1:GA:1107:C:H4'	3:GC:150:LYS:HZ3	1.81	0.44
4:GD:67:ILE:HG22	4:GD:114:ARG:NH1	2.32	0.44
4:GD:108:LEU:HA	4:GD:170:VAL:CG2	2.46	0.44
4:GD:74:GLN:O	4:GD:78:LEU:HG	2.17	0.44
10:GJ:10:GLY:C	10:GJ:16:LEU:HD11	2.38	0.44
10:GJ:12:ASP:O	10:GJ:15:THR:HG22	2.17	0.44
10:GJ:23:ILE:HG23	10:GJ:85:LEU:HD13	2.00	0.44
13:GM:101:GLN:HA	13:GM:101:GLN:OE1	2.16	0.44
10:GJ:51:ARG:O	14:GN:45:ARG:NH2	2.49	0.44
1:GA:1114:C:C4'	14:GN:57:ARG:HH22	2.29	0.44
1:AA:180:U:H1'	20:GT:98:PRO:HG2	1.83	0.44
50:H4:21:ARG:HG3	50:H4:31:LEU:HB2	1.98	0.44
53:H7:208:THR:HG22	53:H7:209:MSE:HG3	1.99	0.44
22:HB:1166:A:C2	22:HB:1168:G:C1'	3.00	0.44
22:HB:1302:C:H2'	22:HB:1303:U:O4'	2.17	0.44
22:HB:1440:G:H3'	22:HB:1441:A:H5'	1.98	0.44
22:HB:1441:A:C1'	22:HB:1587:A:N6	2.80	0.44
22:HB:1447:U:H2'	22:HB:1448:A:O4'	2.17	0.44
22:HB:156:G:P	50:H4:28:ARG:NH2	2.90	0.44
22:HB:2321:C:H2'	22:HB:2322:U:O4'	2.17	0.44
22:HB:367:G:H2'	22:HB:368:A:C8	2.52	0.44
22:HB:404:A:H2'	22:HB:405:C:C5'	2.47	0.44
22:HB:416:U:H5'	22:HB:419:G:O2'	2.16	0.44
22:HB:461:A:H2'	22:HB:461:A:N3	2.32	0.44
22:HB:498:C:N4	22:HB:504:G:O6	2.51	0.44
22:HB:57:G:H1'	22:HB:69:G:N3	2.32	0.44
22:HB:60:A:P	45:HY:44:ARG:CB	2.82	0.44
24:HD:218:LYS:HA	24:HD:219:PRO:HD3	1.80	0.44
25:HE:144:ARG:HB2	25:HE:145:LYS:H	1.45	0.44
25:HE:31:CYS:SG	25:HE:32:PRO:HD2	2.57	0.44
28:HH:114:ILE:HG22	28:HH:114:ILE:O	2.16	0.44
30:HJ:52:ILE:HG23	30:HJ:53:ILE:N	2.30	0.44
22:HB:2760:G:H2'	31:HK:149:LYS:HD2	1.78	0.44
33:HM:139:ARG:CZ	33:HM:141:VAL:HG21	2.47	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:HN:9:LYS:HA	34:HN:70:PHE:CZ	2.53	0.44
37:HQ:107:LEU:HD22	37:HQ:109:GLU:O	2.18	0.44
37:HQ:40:ARG:HG2	37:HQ:90:GLN:HA	1.99	0.44
37:HQ:53:VAL:HG13	37:HQ:73:PHE:CE1	2.52	0.44
37:HQ:85:SER:N	37:HQ:86:PRO:HD3	2.32	0.44
38:HR:31:GLN:OE1	38:HR:34:ASN:HB2	2.16	0.44
22:HB:863:C:C1'	46:HZ:18:LYS:HB3	2.48	0.44
1:IA:1146:A:C2	9:II:16:ARG:CD	3.00	0.44
1:IA:1406:U:H2'	1:IA:1407:C:C6	2.52	0.44
1:IA:238:G:O2'	1:IA:239:U:H5'	2.17	0.44
1:IA:587:G:OP1	8:IH:92:ARG:HD3	2.18	0.44
2:IB:162:ILE:O	2:IB:184:VAL:HB	2.17	0.44
3:IC:36:ASP:HB2	3:IC:37:GLN:HE22	1.82	0.44
3:IC:3:ASN:N	3:IC:3:ASN:HD22	2.15	0.44
4:ID:3:ARG:HH11	4:ID:118:ARG:CZ	2.30	0.44
5:IE:107:ARG:O	5:IE:111:GLU:HG3	2.17	0.44
5:IE:35:GLY:HA3	5:IE:41:VAL:HG12	1.98	0.44
1:IA:1380:U:O4	7:IG:3:ARG:CZ	2.65	0.44
1:IA:1187:G:C2'	9:II:113:LYS:HG3	2.47	0.44
9:II:82:ALA:HA	9:II:86:VAL:HG23	1.99	0.44
10:IJ:10:GLY:C	10:IJ:16:LEU:HD11	2.38	0.44
12:IL:5:PRO:CA	12:IL:10:LEU:HA	2.45	0.44
13:IM:76:ALA:HA	13:IM:79:LYS:CB	2.47	0.44
19:IS:16:LEU:CA	19:IS:19:VAL:HG12	2.43	0.44
48:J2:33:CYS:CA	48:J2:40:LYS:HB2	2.45	0.44
22:JB:123:A:C4'	50:J4:14:LYS:HG3	2.47	0.44
22:JB:765:C:O2'	50:J4:1:MET:CE	2.65	0.44
51:J5:3:LYS:HE3	51:J5:62:LEU:HD12	1.98	0.44
22:JB:635:C:C5'	51:J5:63:PRO:HD3	2.47	0.44
53:J7:182:ASN:O	53:J7:186:VAL:HG23	2.17	0.44
22:JB:1134:C:H2'	22:JB:1135:C:C6	2.53	0.44
22:JB:1021:A:H1'	22:JB:1164:C:H1'	1.99	0.44
22:JB:1364:C:HO2'	22:JB:1587:A:C2'	2.27	0.44
22:JB:139:A:H2'	22:JB:139:A:N3	2.31	0.44
22:JB:174:A:H3'	22:JB:175:C:C6	2.51	0.44
22:JB:1778:U:H2'	22:JB:1779:C:H6	1.82	0.44
22:JB:191:G:H2'	22:JB:192:G:C4'	2.48	0.44
22:JB:2003:A:N7	48:J2:9:LYS:CE	2.50	0.44
22:JB:2537:C:O2'	22:JB:2538:C:H5'	2.16	0.44
22:JB:2575:U:H2'	22:JB:2576:G:C8	2.52	0.44
22:JB:402:A:C6	22:JB:2392:G:C4'	2.78	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:JB:402:A:N3	22:JB:2391:A:H2'	2.32	0.44
22:JB:676:G:H2'	22:JB:677:G:C8	2.52	0.44
22:JB:735:G:H2'	22:JB:736:G:C8	2.49	0.44
22:JB:788:G:H5'	22:JB:790:A:C1'	2.47	0.44
22:JB:82:G:O2'	22:JB:83:A:H5'	2.16	0.44
24:JD:95:LEU:HD12	24:JD:104:TYR:C	2.37	0.44
22:JB:1780:A:P	24:JD:221:GLN:O	2.72	0.44
24:JD:55:GLY:C	24:JD:218:LYS:HB2	2.38	0.44
25:JE:82:ARG:HD3	25:JE:83:GLY:N	2.32	0.44
28:JH:76:VAL:HB	28:JH:77:LYS:NZ	2.32	0.44
22:JB:633:G:C5'	33:JM:101:ARG:CG	2.95	0.44
34:JN:102:ARG:HB3	34:JN:102:ARG:HH11	1.80	0.44
35:JO:76:VAL:HG13	35:JO:77:ARG:N	2.32	0.44
23:JA:50:U:P	36:JP:95:LYS:HB2	2.57	0.44
37:JQ:85:SER:N	37:JQ:86:PRO:HD3	2.32	0.44
22:JB:2004:U:C5'	38:JR:25:TRP:CZ2	2.99	0.44
43:JW:136:VAL:HA	43:JW:147:ILE:HD11	1.99	0.44
44:JX:49:GLN:N	44:JX:49:GLN:NE2	2.65	0.44
1:AA:1063:C:H3'	1:AA:1063:C:OP2	2.17	0.44
1:AA:1184:G:OP1	1:AA:1184:G:H3'	2.17	0.44
1:AA:1256:A:H61	3:AC:26:LYS:CE	2.27	0.44
1:AA:1377:A:OP1	7:AG:95:ARG:HD2	2.17	0.44
1:AA:197:A:H4'	1:AA:198:G:O5'	2.16	0.44
1:AA:331:G:H5''	1:AA:332:G:H5'	1.98	0.44
1:AA:407:G:O2'	4:AD:116:GLN:CB	2.63	0.44
1:AA:560:U:H5''	1:AA:562:C:P	2.57	0.44
1:AA:560:U:HO2'	1:AA:561:U:P	2.40	0.44
1:AA:667:G:H1'	15:AO:49:ASP:CG	2.35	0.44
3:AC:58:GLU:CA	10:AJ:92:THR:CB	2.95	0.44
4:AD:85:LYS:HD3	4:AD:88:VAL:O	2.17	0.44
5:AE:107:ARG:O	5:AE:111:GLU:HG3	2.17	0.44
7:AG:3:ARG:NH1	7:AG:3:ARG:HG2	2.32	0.44
7:AG:85:TYR:O	7:AG:87:VAL:HG23	2.18	0.44
8:AH:11:THR:HA	8:AH:14:ARG:NH1	2.32	0.44
5:AE:141:GLN:O	8:AH:138:TRP:HZ3	2.00	0.44
9:AI:110:GLU:OE2	9:AI:119:ALA:HB1	2.18	0.44
12:AL:45:PRO:HB2	12:AL:49:ASN:HB2	1.98	0.44
1:AA:949:A:P	13:AM:102:ARG:NH2	2.85	0.44
1:AA:1317:C:H5	14:AN:16:PHE:HE2	1.65	0.44
17:AQ:25:ARG:C	17:AQ:39:SER:HB3	2.38	0.44
18:AR:78:LEU:O	18:AR:78:LEU:HD23	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:B1:5:LEU:N	47:B1:5:LEU:HD22	2.32	0.44
22:BB:2398:U:H3'	51:B5:32:GLN:CA	2.19	0.44
22:BB:1168:G:H2'	22:BB:1169:C:C6	2.52	0.44
22:BB:1428:G:H5''	22:BB:1429:A:H5'	1.99	0.44
22:BB:1805:G:H4'	24:BD:43:ARG:O	2.10	0.44
22:BB:1811:A:O2'	22:BB:1812:U:H5''	2.16	0.44
22:BB:1922:U:O4'	22:BB:2570:C:O2'	2.32	0.44
22:BB:2009:U:H2'	22:BB:2010:G:O4'	2.16	0.44
22:BB:2321:C:H2'	22:BB:2322:U:O4'	2.17	0.44
22:BB:2448:A:N3	34:BN:57:ARG:NE	2.64	0.44
22:BB:2569:A:O2'	22:BB:2570:C:H5'	2.17	0.44
22:BB:3197:U:O2	22:BB:2181:A:N7	2.50	0.44
22:BB:498:C:N4	22:BB:504:G:O6	2.51	0.44
22:BB:788:G:H4'	22:BB:789:G:H4'	1.99	0.44
22:BB:822:G:O6	33:BM:40:ARG:NH2	2.50	0.44
22:BB:881:U:H2'	22:BB:882:C:C6	2.52	0.44
22:BB:887:G:C2	43:BW:165:GLU:CG	2.98	0.44
24:BD:79:VAL:HG23	24:BD:117:VAL:HG21	1.98	0.44
22:BB:2558:C:C5'	25:BE:132:LYS:HB2	2.44	0.44
22:BB:2753:C:P	25:BE:164:ARG:HG3	2.55	0.44
25:BE:167:VAL:HG21	25:BE:170:LEU:HD11	1.99	0.44
25:BE:59:VAL:HG12	25:BE:60:ASN:N	2.32	0.44
26:BF:169:VAL:O	26:BF:171:PRO:HD3	2.18	0.44
27:BG:156:ILE:CD1	27:BG:158:THR:HG23	2.47	0.44
22:BB:1090:C:C1'	30:BJ:132:ARG:CZ	2.95	0.44
30:BJ:36:GLU:OE2	30:BJ:65:PHE:HB2	2.16	0.44
23:BA:92:G:N1	34:BN:23:LYS:HG2	2.32	0.44
38:BR:44:THR:C	38:BR:46:GLU:H	2.20	0.44
39:BS:63:HIS:HA	39:BS:95:ILE:CD1	2.46	0.44
22:BB:828:C:H4'	39:BS:86:HIS:NE2	2.33	0.44
40:BT:118:LYS:NZ	40:BT:118:LYS:HB3	2.32	0.44
22:BB:1325:U:H6	41:BU:61:LYS:CE	1.77	0.44
23:BA:77:G:H2'	43:BW:24:TYR:OH	2.18	0.44
44:BX:49:GLN:HB2	44:BX:74:LYS:NZ	2.32	0.44
22:BB:940:G:C2'	46:BZ:22:ALA:O	2.63	0.44
1:CA:1316:G:C2	1:CA:1318:A:H3'	2.52	0.44
1:CA:1496:C:H2'	1:CA:1497:G:C8	2.52	0.44
1:CA:478:A:H8	1:CA:479:C:H5'	1.82	0.44
1:CA:509:A:H4'	1:CA:510:A:OP1	2.17	0.44
1:CA:716:A:N3	11:CK:118:GLY:O	2.50	0.44
1:CA:720:C:H2'	1:CA:721:G:N7	2.31	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:77:C:H2'	1:CA:78:G:C4'	2.47	0.44
3:CC:202:ILE:HG22	3:CC:203:PHE:N	2.32	0.44
4:CD:10:ARG:HH21	4:CD:14:ARG:HE	1.63	0.44
4:CD:126:ILE:HG22	4:CD:127:THR:N	2.23	0.44
6:CF:16:GLN:HE21	6:CF:20:ALA:HB2	1.83	0.44
7:CG:119:ARG:O	7:CG:123:GLU:HB2	2.17	0.44
7:CG:146:GLU:H	7:CG:149:ARG:HB2	1.82	0.44
1:CA:1131:G:OP2	9:CI:20:ARG:NH1	2.49	0.44
10:CJ:8:LEU:HB2	10:CJ:70:ARG:HG2	1.98	0.44
12:CL:85:ILE:HG22	12:CL:86:ARG:N	2.32	0.44
18:CR:63:GLN:HA	18:CR:66:LEU:CB	2.45	0.44
22:DB:176:A:H8	47:D1:30:GLU:HA	1.78	0.44
47:D1:57:ASP:HB3	47:D1:58:LYS:H	1.48	0.44
22:DB:2338:C:H5'	51:D5:50:LEU:HD23	1.99	0.44
23:DA:26:G:H4'	23:DA:27:A:N7	2.32	0.44
22:DB:1024:G:H2'	22:DB:1025:A:C8	2.52	0.44
22:DB:1166:A:C6	22:DB:1168:G:C8	3.05	0.44
22:DB:1168:G:H2'	22:DB:1169:C:C6	2.52	0.44
22:DB:117:A:O3'	22:DB:118:U:H3'	2.17	0.44
22:DB:1306:U:H2'	22:DB:1307:U:O4'	2.18	0.44
22:DB:1579:G:H2'	22:DB:1580:C:C6	2.52	0.44
22:DB:2039:G:C4'	48:D2:5:PRO:HG3	2.47	0.44
22:DB:2049:C:H1'	22:DB:2428:U:N3	2.20	0.44
22:DB:2053:G:H2'	22:DB:2054:A:C8	2.53	0.44
22:DB:2065:A:H3'	22:DB:2066:G:C8	2.52	0.44
22:DB:3197:U:C2'	22:DB:2181:A:C8	2.96	0.44
22:DB:2402:U:H4'	22:DB:2404:A:OP1	2.17	0.44
22:DB:2754:C:H2'	22:DB:2755:A:O4'	2.16	0.44
22:DB:28:A:N3	38:DR:11:ARG:CZ	2.80	0.44
22:DB:3103:A:H2'	22:DB:3104:C:C6	2.52	0.44
22:DB:3876:A:H3'	22:DB:3877:A:O4'	2.17	0.44
22:DB:512:A:H5'	40:DT:15:LYS:HG2	1.96	0.44
22:DB:881:U:H2'	22:DB:882:C:C6	2.52	0.44
24:DD:151:LYS:HA	24:DD:151:LYS:HE2	1.98	0.44
22:DB:1834:G:H4'	24:DD:244:ARG:HG2	1.98	0.44
24:DD:27:LYS:HB3	24:DD:27:LYS:NZ	2.32	0.44
27:DG:156:ILE:CD1	27:DG:158:THR:HG23	2.47	0.44
27:DG:97:TYR:C	27:DG:99:PHE:H	2.18	0.44
30:DJ:111:LYS:HD3	30:DJ:124:ALA:HA	1.98	0.44
33:DM:140:VAL:CG1	33:DM:141:VAL:H	2.21	0.44
33:DM:34:HIS:C	33:DM:35:LYS:HZ2	2.20	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:DN:46:ASN:HA	34:DN:49:GLU:HB3	1.98	0.44
34:DN:91:VAL:HG13	34:DN:91:VAL:O	2.17	0.44
34:DN:75:VAL:HB	34:DN:92:GLU:OE1	2.17	0.44
34:DN:69:ILE:HG21	34:DN:97:VAL:HG11	1.99	0.44
36:DP:83:GLY:O	36:DP:84:ILE:HB	2.17	0.44
37:DQ:107:LEU:HD22	37:DQ:109:GLU:O	2.18	0.44
25:DE:8:LYS:CG	37:DQ:3:THR:HB	2.46	0.44
37:DQ:40:ARG:HG2	37:DQ:90:GLN:HA	2.00	0.44
38:DR:28:ARG:HA	38:DR:31:GLN:HG3	1.99	0.44
22:DB:546:A:H5''	38:DR:57:PHE:HZ	1.65	0.44
42:DV:39:ALA:O	42:DV:40:LEU:HD23	2.17	0.44
44:DX:30:VAL:HG22	44:DX:64:ASP:N	2.31	0.44
44:DX:43:THR:OG1	44:DX:67:VAL:HG12	2.17	0.44
1:EA:1063:C:OP2	1:EA:1063:C:H3'	2.17	0.44
1:EA:1101:A:O4'	2:EB:99:GLY:HA3	2.17	0.44
1:EA:1125:U:H2'	1:EA:1281:U:O2	2.18	0.44
1:EA:1399:C:H4'	1:EA:1400:C:O5'	2.17	0.44
1:EA:1520:G:H2'	1:EA:1521:G:H8	1.81	0.44
1:EA:518:C:H5''	1:EA:520:A:H62	1.82	0.44
1:EA:640:A:C3'	8:EH:116:LYS:CD	2.88	0.44
1:EA:77:C:H2'	1:EA:78:G:O4'	2.17	0.44
1:EA:1104:G:C1'	2:EB:111:ARG:NE	2.37	0.44
4:ED:169:LYS:HD2	4:ED:169:LYS:N	2.32	0.44
4:ED:41:GLY:O	4:ED:45:GLN:HG3	2.18	0.44
4:ED:85:LYS:HD3	4:ED:88:VAL:O	2.17	0.44
5:EE:79:GLU:CG	5:EE:93:PRO:HD2	2.45	0.44
7:EG:119:ARG:O	7:EG:123:GLU:HB2	2.17	0.44
7:EG:153:HIS:O	7:EG:155:ARG:HG3	2.17	0.44
1:EA:1373:G:C5'	7:EG:36:LYS:H	2.30	0.44
8:EH:13:ILE:C	8:EH:15:ASN:H	2.21	0.44
1:EA:589:C:H1'	8:EH:29:SER:CB	2.44	0.44
1:EA:753:A:H2	8:EH:2:LEU:N	1.75	0.44
9:EI:28:VAL:HG13	9:EI:63:ILE:CG2	2.46	0.44
10:EJ:96:ILE:H	10:EJ:96:ILE:HG13	1.60	0.44
11:EK:58:PRO:HB2	11:EK:93:GLN:HG2	1.98	0.44
12:EL:45:PRO:HB2	12:EL:49:ASN:HB2	1.98	0.44
12:EL:92:ASP:OD1	12:EL:93:LEU:HG	2.17	0.44
17:EQ:25:ARG:C	17:EQ:39:SER:HB3	2.38	0.44
17:EQ:78:GLU:HB2	17:EQ:81:ARG:HH11	1.83	0.44
47:F1:5:LEU:HB3	47:F1:56:VAL:O	2.16	0.44
47:F1:5:LEU:N	47:F1:5:LEU:HD22	2.32	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
50:F4:21:ARG:HG3	50:F4:31:LEU:HB2	1.98	0.44
22:FB:219:G:C4'	51:F5:3:LYS:HB3	2.46	0.44
22:FB:3105:G:OP1	53:F7:204:TYR:HE2	2.00	0.44
53:F7:63:ARG:HG2	53:F7:82:LYS:NZ	2.32	0.44
22:FB:1047:G:C5	22:FB:1048:U:N3	2.86	0.44
22:FB:1914:U:H5	22:FB:1951:G:C2	2.36	0.44
22:FB:2276:C:H42	22:FB:2299:A:C1'	2.21	0.44
22:FB:2325:A:C3'	49:F3:25:THR:HG21	2.46	0.44
22:FB:2402:U:H4'	22:FB:2404:A:OP1	2.17	0.44
22:FB:2570:C:OP2	24:FD:238:GLY:HA3	2.17	0.44
22:FB:2603:G:H2'	22:FB:2604:G:O4'	2.17	0.44
22:FB:2701:A:C6	22:FB:2848:A:N6	2.85	0.44
22:FB:2727:G:C6	22:FB:2735:C:H5''	2.52	0.44
22:FB:461:A:N3	22:FB:461:A:H2'	2.33	0.44
22:FB:471:A:H2'	22:FB:472:C:H4'	1.99	0.44
22:FB:498:C:N4	22:FB:504:G:O6	2.51	0.44
22:FB:21:A:N6	22:FB:528:G:H1	2.15	0.44
22:FB:858:G:H5''	22:FB:859:U:H5'	1.99	0.44
22:FB:980:G:P	46:FZ:13:PRO:C	2.96	0.44
24:FD:166:GLN:HE22	24:FD:175:VAL:C	2.19	0.44
24:FD:27:LYS:NZ	24:FD:27:LYS:HB3	2.32	0.44
22:FB:1517:C:C4'	24:FD:78:LYS:HE3	2.44	0.44
22:FB:2599:U:C1'	25:FE:156:MET:O	2.63	0.44
25:FE:24:THR:HG22	25:FE:25:VAL:H	1.82	0.44
25:FE:58:LYS:HB2	25:FE:58:LYS:NZ	2.31	0.44
28:FH:141:VAL:HG23	28:FH:142:GLY:N	2.32	0.44
28:FH:18:ASN:HD22	28:FH:18:ASN:N	2.16	0.44
30:FJ:51:ALA:HA	30:FJ:76:TYR:CE1	2.52	0.44
22:FB:2653:A:H5'	32:FL:44:TYR:OH	2.05	0.44
32:FL:47:VAL:HG13	32:FL:48:GLY:N	2.24	0.44
34:FN:35:LEU:HD13	34:FN:103:VAL:HG21	1.99	0.44
34:FN:45:SER:C	34:FN:47:GLN:N	2.70	0.44
37:FQ:53:VAL:HG13	37:FQ:73:PHE:CE1	2.52	0.44
37:FQ:66:PHE:CD2	37:FQ:85:SER:HB3	2.52	0.44
37:FQ:87:LEU:HG	37:FQ:89:ASN:H	1.81	0.44
38:FR:47:TYR:CE1	39:FS:74:TYR:CD2	3.02	0.44
43:FW:123:VAL:C	43:FW:125:PRO:HD2	2.37	0.44
1:GA:1089:G:H2'	1:GA:1090:U:C6	2.53	0.44
1:GA:815:A:C3'	1:GA:1526:G:C2	2.99	0.44
1:AA:190:A:H1'	1:GA:183:G:P	2.57	0.44
1:GA:186:C:C4'	20:GT:78:ALA:CA	2.96	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:GA:318:G:H2'	1:GA:319:G:C8	2.53	0.44
1:GA:374:A:H5''	1:GA:452:A:N1	2.31	0.44
1:GA:494:G:O2'	1:GA:495:U:H5'	2.17	0.44
1:GA:922:G:O2'	5:GE:21:ALA:HB2	2.17	0.44
4:GD:169:LYS:HD2	4:GD:169:LYS:H	1.81	0.44
5:GE:118:ILE:HG22	5:GE:119:LEU:N	2.32	0.44
6:GF:77:ARG:O	6:GF:81:ILE:HG13	2.18	0.44
7:GG:35:LYS:HE2	7:GG:38:LEU:N	2.32	0.44
9:GI:44:VAL:O	9:GI:47:LEU:HD23	2.17	0.44
11:GK:58:PRO:HB2	11:GK:93:GLN:HG2	1.99	0.44
12:GL:18:VAL:CG1	12:GL:21:LYS:HE3	2.48	0.44
1:AA:180:U:H1'	20:GT:98:PRO:CB	2.48	0.44
47:H1:49:PHE:H	47:H1:69:ARG:CG	2.23	0.44
53:H7:13:LYS:HZ1	53:H7:177:GLU:HA	1.82	0.44
22:HB:1861:G:C2	53:H7:45:ASP:OD2	2.70	0.44
22:HB:1043:A:P	52:H6:8:LYS:CA	2.96	0.44
22:HB:1077:U:H3'	22:HB:1078:A:H5''	1.99	0.44
22:HB:1437:A:N6	22:HB:1439:G:N2	2.65	0.44
22:HB:1656:U:H2'	22:HB:1657:A:C4'	2.46	0.44
22:HB:1750:A:C6	22:HB:2675:U:O2	2.70	0.44
22:HB:1778:U:H2'	22:HB:1779:C:H6	1.82	0.44
22:HB:191:G:H2'	22:HB:192:G:C4'	2.48	0.44
22:HB:2065:A:H3'	22:HB:2066:G:C8	2.52	0.44
22:HB:2279:G:H2'	22:HB:2280:A:C8	2.52	0.44
22:HB:2343:C:O2	44:HX:66:LYS:HD2	2.18	0.44
22:HB:2448:A:C4'	34:HN:57:ARG:NE	2.78	0.44
22:HB:2510:A:H4'	28:HH:157:TYR:OH	2.17	0.44
22:HB:2537:C:O2'	22:HB:2538:C:H5'	2.16	0.44
22:HB:362:C:N4	22:HB:363:G:H21	2.15	0.44
22:HB:389:G:H2'	22:HB:390:U:C6	2.52	0.44
22:HB:424:G:H5'	22:HB:425:A:OP1	2.17	0.44
22:HB:66:U:C4	22:HB:87:G:C2	3.05	0.44
22:HB:699:G:N2	50:H4:4:THR:OG1	2.50	0.44
22:HB:772:G:H2'	22:HB:773:G:C8	2.50	0.44
22:HB:788:G:H5'	22:HB:790:A:C1'	2.47	0.44
22:HB:953:G:C4'	22:HB:1203:A:H1'	2.47	0.44
22:HB:989:G:H2'	22:HB:990:A:O4'	2.17	0.44
24:HD:263:ARG:HH21	24:HD:264:LYS:HZ1	1.63	0.44
25:HE:44:TYR:HB2	25:HE:82:ARG:HG2	2.00	0.44
30:HJ:51:ALA:HA	30:HJ:76:TYR:CE1	2.52	0.44
32:HL:132:GLU:OE2	37:HQ:75:GLU:OE2	2.36	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:HB:1217:U:O2'	33:HM:12:SER:HB2	2.17	0.44
26:HF:28:HIS:ND1	33:HM:18:ARG:NH1	2.57	0.44
34:HN:9:LYS:HG2	34:HN:71:PRO:HB2	1.99	0.44
22:HB:1290:A:C5'	35:HO:12:ARG:HH22	2.20	0.44
38:HR:54:LYS:HE2	38:HR:93:LYS:HZ1	1.82	0.44
38:HR:59:ARG:O	38:HR:60:LEU:HD22	2.18	0.44
34:HN:64:LYS:N	43:HW:112:LEU:N	2.59	0.44
22:HB:935:C:C5'	44:HX:26:PHE:HE2	2.25	0.44
44:HX:30:VAL:HG22	44:HX:64:ASP:N	2.31	0.44
1:IA:1226:C:H4'	1:IA:1227:A:OP1	2.16	0.44
1:IA:1457:A:H1'	20:IT:24:LEU:HD11	1.76	0.44
1:IA:1495:U:O2	22:JB:1902:A:N1	2.51	0.44
1:IA:374:A:H5''	1:IA:452:A:N1	2.31	0.44
1:IA:46:G:O2'	1:IA:365:U:H1'	2.16	0.44
1:IA:478:A:H8	1:IA:479:C:H5'	1.82	0.44
1:IA:447:G:H1'	1:IA:487:A:N6	2.32	0.44
1:IA:505:G:H2'	1:IA:506:G:H8	1.81	0.44
2:IB:152:PHE:CZ	2:IB:155:LEU:HD12	2.52	0.44
2:IB:116:GLU:HA	2:IB:153:ARG:HD3	1.99	0.44
1:IA:1055:A:C2'	3:IC:161:GLU:HA	2.47	0.44
4:ID:97:LEU:HD23	4:ID:100:ARG:HD2	1.99	0.44
6:IF:10:LEU:HB3	6:IF:85:VAL:CA	2.47	0.44
6:IF:4:TYR:HE2	6:IF:67:MET:H	1.65	0.44
1:IA:1290:G:C4'	7:IG:35:LYS:NZ	2.77	0.44
1:IA:1185:G:C2'	9:II:110:GLU:OE1	2.65	0.44
10:IJ:9:ARG:NH2	10:IJ:96:ILE:HA	2.32	0.44
17:IQ:9:VAL:H	17:IQ:22:LEU:H	1.65	0.44
19:IS:33:THR:HB	19:IS:51:VAL:HG13	1.99	0.44
49:J3:28:ARG:HB3	49:J3:30:ASN:OD1	2.09	0.44
22:JB:475:U:H5'	50:J4:5:TYR:HA	1.24	0.44
22:JB:1251:G:O2'	22:JB:1252:C:H5'	2.18	0.44
22:JB:1302:C:H2'	22:JB:1303:U:O4'	2.18	0.44
22:JB:1447:U:H2'	22:JB:1448:A:O4'	2.18	0.44
22:JB:47:G:N2	22:JB:155:G:C5	2.85	0.44
22:JB:1629:G:H5'	50:J4:3:ARG:CD	2.47	0.44
22:JB:1656:U:H2'	22:JB:1657:A:C4'	2.46	0.44
22:JB:1743:C:H5'	22:JB:2836:U:C3'	2.47	0.44
22:JB:207:U:H2'	22:JB:208:C:O4'	2.17	0.44
22:JB:2277:A:H2'	22:JB:2278:A:H5'	1.99	0.44
22:JB:2309:G:C2'	44:JX:36:ILE:HD11	2.46	0.44
22:JB:2339:A:H1'	22:JB:2407:G:H1	1.81	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:JB:2504:G:OP1	28:JH:153:LYS:NZ	2.38	0.44
22:JB:2638:G:O6	28:JH:181:GLY:N	2.46	0.44
22:JB:2733:A:H2'	52:J6:15:LYS:HE2	1.73	0.44
22:JB:2850:U:H1'	37:JQ:13:LEU:HB3	1.99	0.44
22:JB:476:G:OP2	50:J4:5:TYR:CE1	2.70	0.44
22:JB:57:G:H4'	41:JU:31:PRO:CG	2.46	0.44
22:JB:57:G:H1'	22:JB:69:G:N3	2.32	0.44
22:JB:772:G:H2'	22:JB:773:G:C8	2.50	0.44
22:JB:832:A:C2	22:JB:953:G:H1'	2.52	0.44
22:JB:964:A:H61	22:JB:975:C:N4	2.13	0.44
24:JD:23:GLY:HA3	24:JD:204:ILE:HG12	1.98	0.44
24:JD:27:LYS:HB3	24:JD:27:LYS:NZ	2.32	0.44
25:JE:4:ILE:HG21	25:JE:48:GLN:HG3	2.00	0.44
22:JB:2614:A:C2'	25:JE:79:ARG:NE	2.80	0.44
27:JG:122:PHE:CD2	27:JG:123:ASP:N	2.85	0.44
27:JG:168:ALA:O	27:JG:171:GLN:HB2	2.18	0.44
31:JK:78:ASP:H	31:JK:147:ARG:NH2	2.16	0.44
37:JQ:70:LYS:HD2	37:JQ:106:TYR:HA	1.98	0.44
37:JQ:53:VAL:HG13	37:JQ:73:PHE:CE1	2.52	0.44
22:JB:542:A:H5''	38:JR:25:TRP:CD1	2.51	0.44
22:JB:528:G:C5'	40:JT:35:PRO:O	2.30	0.44
43:JW:16:GLU:HB3	43:JW:17:SER:H	1.63	0.44
1:AA:1298:C:C2	7:AG:114:ARG:HG2	2.53	0.44
1:AA:1355:G:H2'	1:AA:1356:G:H8	1.80	0.44
1:AA:1358:U:H2'	1:AA:1359:C:O4'	2.18	0.44
1:AA:1415:G:H2'	1:AA:1416:G:H8	1.82	0.44
1:AA:382:A:H2'	1:AA:383:A:C8	2.52	0.44
1:AA:447:G:H1'	1:AA:487:A:N6	2.32	0.44
1:AA:509:A:H4'	1:AA:510:A:OP1	2.17	0.44
1:AA:616:G:H2'	1:AA:617:G:H8	1.81	0.44
1:AA:720:C:H2'	1:AA:721:G:N7	2.32	0.44
1:AA:77:C:H2'	1:AA:78:G:C4'	2.47	0.44
1:AA:828:A:H2'	1:AA:829:G:O4'	2.17	0.44
2:AB:9:GLU:OE2	2:AB:11:LEU:HB2	2.17	0.44
4:AD:3:ARG:HH11	4:AD:118:ARG:CZ	2.31	0.44
5:AE:92:LYS:HD3	5:AE:92:LYS:C	2.37	0.44
7:AG:119:ARG:O	7:AG:123:GLU:HB2	2.17	0.44
2:AB:194:PRO:O	8:AH:73:ASP:OD2	2.35	0.44
9:AI:86:VAL:HA	9:AI:89:ASN:O	2.16	0.44
1:AA:1190:G:O6	10:AJ:51:ARG:NH2	2.49	0.44
10:AJ:5:ARG:HB3	10:AJ:99:LYS:HB2	1.98	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AK:105:VAL:HG12	11:AK:106:LYS:N	2.32	0.44
11:AK:51:LYS:HG2	11:AK:55:LYS:HZ1	1.82	0.44
11:AK:13:GLN:NE2	11:AK:75:TYR:HB3	2.29	0.44
13:AM:56:LEU:HA	13:AM:60:VAL:CG2	2.48	0.44
14:AN:39:LEU:HD22	14:AN:44:LEU:CB	2.48	0.44
1:AA:274:A:N9	17:AQ:15:MET:HG2	2.32	0.44
17:AQ:7:THR:HG22	17:AQ:56:VAL:HG12	1.99	0.44
19:AS:36:ARG:HB2	19:AS:72:GLY:CA	2.47	0.44
51:B5:23:MET:HA	51:B5:48:PHE:CE1	2.52	0.44
53:B7:174:MSE:HG2	53:B7:175:LYS:CD	2.48	0.44
22:BB:1024:G:H2'	22:BB:1025:A:C8	2.52	0.44
22:BB:1050:G:H4'	43:BW:37:LYS:HG3	1.99	0.44
22:BB:1057:A:H3''	22:BB:1058:G:H5''	1.98	0.44
22:BB:1080:A:H5''	22:BB:1081:A:O5'	2.17	0.44
22:BB:117:A:O3'	22:BB:118:U:H3'	2.17	0.44
22:BB:1176:U:C2	22:BB:1198:C:H1'	2.42	0.44
22:BB:1498:G:H1	22:BB:1523:A:H1'	1.82	0.44
22:BB:1709:U:H1'	22:BB:1713:G:C2	2.52	0.44
22:BB:1914:U:H5	22:BB:1951:G:C2	2.36	0.44
22:BB:198:A:H2'	22:BB:244:C:N4	2.33	0.44
22:BB:2053:G:H2'	22:BB:2054:A:C8	2.53	0.44
22:BB:2332:G:N2	44:BX:30:VAL:O	2.50	0.44
22:BB:2334:C:H1'	44:BX:32:LYS:HD3	1.93	0.44
22:BB:2342:U:C3'	44:BX:38:VAL:O	2.65	0.44
22:BB:2575:U:H2'	22:BB:2576:G:C8	2.52	0.44
22:BB:2619:G:H2'	22:BB:2620:G:C8	2.52	0.44
22:BB:2646:C:H1'	28:BH:111:HIS:HB2	1.91	0.44
22:BB:2760:G:N2	31:BK:150:VAL:HG11	2.21	0.44
22:BB:328:A:H2'	22:BB:329:C:O4'	2.17	0.44
22:BB:366:U:H2'	22:BB:367:G:H8	1.83	0.44
22:BB:3876:A:H3'	22:BB:3877:A:O4'	2.17	0.44
22:BB:404:A:H2'	22:BB:405:C:C5'	2.47	0.44
22:BB:462:G:H2'	22:BB:463:C:H5'	1.97	0.44
22:BB:468:A:H2'	22:BB:469:G:H4'	1.99	0.44
22:BB:717:G:O2'	22:BB:740:A:N6	2.51	0.44
22:BB:827:C:H5''	39:BS:83:ARG:CA	2.47	0.44
28:BH:29:PRO:HG2	28:BH:78:GLY:O	2.17	0.44
22:BB:1073:G:N2	30:BJ:133:SER:HB2	2.28	0.44
30:BJ:51:ALA:HA	30:BJ:76:TYR:CE1	2.52	0.44
37:BQ:107:LEU:HD22	37:BQ:109:GLU:O	2.18	0.44
37:BQ:32:THR:H	37:BQ:56:ALA:HB1	1.81	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:BQ:53:VAL:HG13	37:BQ:73:PHE:CE1	2.52	0.44
22:BB:525:A:H5'	38:BR:31:GLN:O	2.17	0.44
38:BR:54:LYS:HE2	38:BR:93:LYS:HZ1	1.82	0.44
23:BA:78:A:C6	43:BW:24:TYR:CE2	3.05	0.44
46:BZ:14:GLY:O	46:BZ:17:VAL:HB	2.17	0.44
1:CA:1355:G:H2'	1:CA:1356:G:H8	1.80	0.44
1:CA:1378:C:H3'	1:CA:1379:G:C4'	2.46	0.44
1:CA:417:C:H2'	1:CA:418:C:O4'	2.17	0.44
1:CA:471:G:H2'	1:CA:472:G:C8	2.52	0.44
1:CA:719:C:H3'	1:CA:720:C:C5	2.53	0.44
1:CA:77:C:H2'	1:CA:78:G:O4'	2.17	0.44
5:CE:101:ILE:HB	5:CE:119:LEU:HD23	1.98	0.44
6:CF:22:GLU:O	6:CF:26:ILE:HG13	2.16	0.44
1:CA:1350:A:C1'	7:CG:33:ASP:HA	2.47	0.44
7:CG:85:TYR:O	7:CG:87:VAL:HG23	2.18	0.44
8:CH:58:TYR:O	8:CH:59:LEU:HG	2.16	0.44
1:CA:1347:G:C8	9:CI:107:ARG:C	2.89	0.44
1:CA:1148:U:O2'	9:CI:66:ARG:NH2	2.50	0.44
9:CI:77:ILE:O	9:CI:81:ILE:HG13	2.18	0.44
10:CJ:96:ILE:HG22	10:CJ:97:GLU:N	2.33	0.44
11:CK:66:LEU:O	11:CK:70:LYS:HE3	2.16	0.44
49:D3:42:PRO:HD3	49:D3:47:HIS:C	2.38	0.44
22:DB:1397:A:C6	22:DB:1418:C:C4	3.06	0.44
22:DB:1428:G:H5''	22:DB:1429:A:H5'	1.98	0.44
22:DB:1555:A:H2'	22:DB:1556:A:H5'	1.98	0.44
22:DB:1812:U:O2'	24:DD:203:ASN:CB	2.65	0.44
22:DB:1914:U:H5	22:DB:1951:G:C2	2.36	0.44
22:DB:1999:U:H1'	48:D2:7:PRO:HD2	1.99	0.44
22:DB:2276:C:H42	22:DB:2299:A:C1'	2.21	0.44
22:DB:2285:U:O4'	27:DG:40:LEU:HD21	2.17	0.44
22:DB:2547:C:H2'	22:DB:2548:G:H8	1.80	0.44
22:DB:2645:C:N4	28:DH:109:TYR:H	2.14	0.44
22:DB:2645:C:N4	28:DH:109:TYR:N	2.65	0.44
22:DB:3122:U:H4'	53:D7:160:LYS:HD3	1.98	0.44
22:DB:676:G:N2	22:DB:950:G:O3'	2.42	0.44
24:DD:144:ALA:CB	24:DD:192:THR:HG22	2.46	0.44
24:DD:261:ARG:HA	24:DD:261:ARG:CZ	2.47	0.44
26:DF:169:VAL:O	26:DF:171:PRO:HD3	2.18	0.44
27:DG:25:VAL:O	27:DG:26:MET:HG3	2.18	0.44
22:DB:2284:U:H2'	27:DG:40:LEU:CD2	2.47	0.44
32:DL:77:THR:OG1	32:DL:78:SER:N	2.48	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:DN:45:SER:C	34:DN:47:GLN:N	2.70	0.44
35:DO:54:THR:HB	35:DO:62:SER:HB3	2.00	0.44
37:DQ:53:VAL:HG13	37:DQ:73:PHE:CE1	2.52	0.44
32:DL:132:GLU:HG3	37:DQ:75:GLU:OE1	1.86	0.44
38:DR:91:ASN:OD1	39:DS:10:LYS:HG3	2.17	0.44
43:DW:147:ILE:O	43:DW:147:ILE:HG23	2.16	0.44
1:EA:1206:G:C1'	3:EC:193:TYR:HB2	2.47	0.44
1:EA:1406:U:H2'	1:EA:1407:C:C6	2.53	0.44
1:EA:1496:C:H2'	1:EA:1497:G:C8	2.51	0.44
1:EA:293:G:H5'	1:EA:610:G:C6	2.52	0.44
1:EA:719:C:H3'	1:EA:720:C:C5	2.52	0.44
1:EA:755:G:O4'	8:EH:1:MET:N	2.50	0.44
1:EA:985:C:H1'	19:ES:55:LYS:HD2	1.98	0.44
2:EB:171:ALA:O	2:EB:174:VAL:HB	2.18	0.44
3:EC:202:ILE:HG22	3:EC:203:PHE:N	2.31	0.44
3:EC:3:ASN:HD22	3:EC:3:ASN:N	2.15	0.44
4:ED:3:ARG:HH11	4:ED:118:ARG:CZ	2.30	0.44
4:ED:74:GLN:O	4:ED:78:LEU:HG	2.17	0.44
6:EF:16:GLN:HE21	6:EF:20:ALA:HB2	1.82	0.44
8:EH:121:ASP:HA	8:EH:124:ALA:HB3	1.99	0.44
8:EH:3:THR:HG23	8:EH:4:ASP:N	2.31	0.44
13:EM:37:THR:HG22	13:EM:55:ARG:HE	1.82	0.44
13:EM:78:ILE:HA	13:EM:81:LEU:CD2	2.47	0.44
14:EN:23:ARG:NH1	14:EN:30:ALA:H	2.15	0.44
51:F5:24:ALA:HB3	51:F5:47:GLY:O	2.17	0.44
22:FB:1049:C:N3	22:FB:1129:A:C6	2.86	0.44
22:FB:1428:G:H5''	22:FB:1429:A:H5'	1.98	0.44
22:FB:147:G:N3	22:FB:147:G:C2'	2.71	0.44
22:FB:1656:U:H2'	22:FB:1657:A:C4'	2.47	0.44
22:FB:1709:U:H1'	22:FB:1713:G:C2	2.52	0.44
22:FB:191:G:H2'	22:FB:192:G:C4'	2.47	0.44
22:FB:1991:C:O2	35:FO:106:ASP:HB3	2.17	0.44
22:FB:201:G:H2'	22:FB:202:A:H8	1.83	0.44
22:FB:2026:C:H2'	22:FB:2027:C:C6	2.52	0.44
22:FB:2062:U:H2'	22:FB:2063:A:H8	1.82	0.44
22:FB:2074:U:H1'	47:F1:43:TRP:O	2.17	0.44
22:FB:2569:A:O2'	22:FB:2570:C:H5'	2.17	0.44
22:FB:2577:A:H5''	24:FD:235:GLY:N	2.32	0.44
22:FB:3113:U:H2'	22:FB:3114:A:O4'	2.17	0.44
22:FB:3876:A:H3'	22:FB:3877:A:O4'	2.17	0.44
22:FB:456:C:H4'	38:FR:3:ARG:CB	2.46	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:FB:459:A:H1'	22:FB:461:A:N6	2.31	0.44
22:FB:462:G:H2'	22:FB:463:C:H5'	1.97	0.44
22:FB:506:G:H5''	40:FT:21:ARG:CG	2.48	0.44
22:FB:598:U:C5'	26:FF:89:ARG:HH21	2.30	0.44
22:FB:644:A:O2'	22:FB:2383:C:P	2.72	0.44
22:FB:788:G:H4'	22:FB:789:G:H4'	2.00	0.44
22:FB:796:A:H8	22:FB:797:A:H4'	1.83	0.44
22:FB:881:U:H2'	22:FB:882:C:C6	2.52	0.44
24:FD:23:GLY:HA3	24:FD:204:ILE:HG12	1.99	0.44
25:FE:2:LYS:HB3	25:FE:3:GLY:H	1.51	0.44
25:FE:93:VAL:O	25:FE:93:VAL:HG12	2.18	0.44
22:FB:686:C:C1'	26:FF:74:VAL:CG1	2.93	0.44
27:FG:86:GLY:O	27:FG:87:ILE:HG23	2.17	0.44
29:FI:4:ILE:HG23	29:FI:15:GLY:HA3	2.00	0.44
32:FL:112:GLY:O	32:FL:131:PRO:HB2	2.17	0.44
34:FN:30:PHE:CE2	34:FN:101:GLY:HA3	2.52	0.44
35:FO:96:ARG:N	35:FO:96:ARG:HD2	2.31	0.44
37:FQ:80:VAL:HG12	37:FQ:82:PRO:HD3	1.99	0.44
38:FR:94:VAL:O	38:FR:97:ASP:HB2	2.16	0.44
40:FT:118:LYS:HB3	40:FT:118:LYS:NZ	2.33	0.44
41:FU:42:ILE:HB	41:FU:50:VAL:CG2	2.47	0.44
41:FU:61:LYS:N	41:FU:72:ARG:HD3	2.20	0.44
46:FZ:7:ARG:N	46:FZ:50:LEU:HG	2.32	0.44
1:GA:1063:C:H4'	1:GA:1386:G:OP1	2.16	0.44
1:GA:1517:G:H1'	22:HB:1902:A:H4'	1.99	0.44
1:GA:112:G:H1	1:GA:315:A:N6	2.14	0.44
1:GA:919:A:O3'	1:GA:920:U:OP1	2.35	0.44
2:GB:121:LEU:HA	2:GB:124:SER:OG	2.16	0.44
2:GB:211:ILE:HA	2:GB:214:ILE:HG12	1.99	0.44
4:GD:10:ARG:HH21	4:GD:14:ARG:HE	1.63	0.44
4:GD:85:LYS:HD3	4:GD:88:VAL:O	2.17	0.44
6:GF:22:GLU:O	6:GF:26:ILE:HG13	2.16	0.44
7:GG:97:GLN:HG3	7:GG:98:SER:H	1.82	0.44
10:GJ:83:GLU:HA	10:GJ:86:MET:SD	2.58	0.44
11:GK:31:THR:O	11:GK:32:ILE:HD13	2.17	0.44
1:GA:35:G:H4'	12:GL:121:GLY:HA2	1.98	0.44
13:GM:73:GLU:O	13:GM:73:GLU:HG2	2.17	0.44
14:GN:39:LEU:HD22	14:GN:44:LEU:CB	2.48	0.44
16:GP:71:ARG:HG2	16:GP:75:ARG:NH2	2.32	0.44
1:GA:254:G:OP1	17:GQ:69:LYS:HB2	2.16	0.44
6:GF:46:ARG:NH1	18:GR:35:ARG:HH11	2.13	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
51:H5:3:LYS:HE3	51:H5:62:LEU:HD12	1.98	0.44
22:HB:3126:A:P	53:H7:26:PHE:CZ	3.11	0.44
53:H7:60:LYS:HD2	53:H7:63:ARG:NH1	2.32	0.44
23:HA:96:C:H2'	23:HA:97:C:H6	1.82	0.44
22:HB:1021:A:H1'	22:HB:1164:C:H1'	1.99	0.44
22:HB:1338:G:H5''	40:HT:107:ILE:HB	1.99	0.44
22:HB:1428:G:H5''	22:HB:1429:A:H5'	1.98	0.44
22:HB:1706:A:H2'	22:HB:1707:A:C8	2.51	0.44
22:HB:1910:A:H2'	22:HB:1911:A:O4'	2.18	0.44
22:HB:2277:A:H2'	22:HB:2278:A:H5'	1.99	0.44
22:HB:2365:U:H2'	22:HB:2366:U:C6	2.52	0.44
22:HB:2619:G:H2'	22:HB:2620:G:C8	2.52	0.44
22:HB:3171:A:OP1	53:H7:105:ARG:CD	2.64	0.44
22:HB:412:U:H2'	22:HB:413:G:H5'	1.99	0.44
22:HB:692:C:H2'	22:HB:693:A:C8	2.51	0.44
22:HB:702:A:H2'	22:HB:703:A:C8	2.52	0.44
22:HB:964:A:H61	22:HB:975:C:N4	2.13	0.44
22:HB:973:U:H2'	22:HB:974:U:O4'	2.16	0.44
22:HB:9:U:OP1	31:HK:35:LYS:C	2.55	0.44
24:HD:121:PRO:HG3	24:HD:132:PRO:HD3	1.99	0.44
24:HD:212:SER:N	24:HD:215:LEU:HD13	2.32	0.44
24:HD:261:ARG:HA	24:HD:261:ARG:CZ	2.46	0.44
25:HE:105:THR:HG22	25:HE:164:ARG:NH1	2.31	0.44
25:HE:167:VAL:HG21	25:HE:170:LEU:HD11	1.98	0.44
25:HE:195:LEU:HD11	37:HQ:2:GLN:N	2.33	0.44
25:HE:58:LYS:NZ	25:HE:58:LYS:HB2	2.31	0.44
26:HF:97:ARG:HD2	26:HF:100:ARG:NH2	2.31	0.44
27:HG:33:LYS:C	27:HG:34:ILE:HD13	2.38	0.44
27:HG:72:LYS:HD2	27:HG:80:ARG:CA	2.47	0.44
27:HG:99:PHE:O	27:HG:103:LEU:HG	2.17	0.44
28:HH:55:PRO:HD2	28:HH:61:HIS:HE2	1.82	0.44
31:HK:31:THR:HB	31:HK:71:THR:OG1	2.18	0.44
32:HL:77:THR:H	32:HL:90:ARG:HH22	1.61	0.44
34:HN:127:PRO:HB2	34:HN:129:GLN:NE2	2.31	0.44
35:HO:55:ALA:HA	35:HO:80:MET:CE	2.47	0.44
38:HR:42:ALA:O	38:HR:46:GLU:HG2	2.17	0.44
22:HB:2235:G:H5'	44:HX:5:LYS:HB2	1.98	0.44
44:HX:49:GLN:HB2	44:HX:74:LYS:NZ	2.32	0.44
1:IA:1114:C:C2	14:IN:61:TRP:C	2.91	0.44
1:IA:6:G:H4'	1:IA:298:A:O4'	2.18	0.44
1:IA:318:G:H2'	1:IA:319:G:C8	2.53	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:IA:828:A:H2'	1:IA:829:G:O4'	2.17	0.44
2:IB:102:LEU:H	2:IB:102:LEU:CD1	2.28	0.44
2:IB:31:TYR:HA	2:IB:43:ASP:OD2	2.18	0.44
3:IC:113:ALA:HB3	3:IC:183:ASP:O	2.17	0.44
3:IC:173:VAL:HG12	3:IC:182:ILE:HD11	1.99	0.44
4:ID:105:VAL:O	4:ID:110:PHE:HB2	2.16	0.44
5:IE:104:ALA:HA	5:IE:107:ARG:NH1	2.33	0.44
10:IJ:10:GLY:HA3	10:IJ:16:LEU:HD21	1.99	0.44
10:IJ:8:LEU:HB2	10:IJ:70:ARG:HG2	1.98	0.44
1:IA:683:G:C2'	11:IK:38:ASN:HD21	2.30	0.44
12:IL:102:ARG:HB2	12:IL:110:VAL:CG2	2.40	0.44
1:IA:520:A:O2'	12:IL:73:GLU:CD	2.55	0.44
12:IL:85:ILE:HG22	12:IL:86:ARG:N	2.32	0.44
22:JB:1998:A:C1'	48:J2:3:LYS:CA	2.96	0.44
49:J3:42:PRO:HD3	49:J3:47:HIS:C	2.38	0.44
53:J7:109:TRP:CE2	53:J7:156:LEU:HB2	2.52	0.44
22:JB:3176:A:C2	53:J7:162:GLN:NE2	2.78	0.44
23:JA:7:C:N3	23:JA:118:G:N1	2.66	0.44
22:JB:1428:G:H5''	22:JB:1429:A:H5'	1.98	0.44
22:JB:1476:G:N3	22:JB:2681:A:N1	2.65	0.44
22:JB:1498:G:H1	22:JB:1523:A:H1'	1.82	0.44
22:JB:1456:C:C2	22:JB:1566:G:N2	2.85	0.44
22:JB:1625:A:H3'	22:JB:1625:A:N3	2.32	0.44
22:JB:1709:U:H1'	22:JB:1713:G:C2	2.53	0.44
22:JB:1932:G:H2'	22:JB:1933:G:H8	1.83	0.44
22:JB:218:A:O2'	22:JB:219:G:H4'	2.18	0.44
22:JB:2795:A:H5'	22:JB:2796:A:N7	2.33	0.44
22:JB:328:A:H2'	22:JB:329:C:O4'	2.17	0.44
22:JB:362:C:N4	22:JB:363:G:H21	2.15	0.44
22:JB:404:A:H2'	22:JB:405:C:C5'	2.47	0.44
22:JB:424:G:H5'	22:JB:425:A:OP1	2.17	0.44
22:JB:461:A:N3	22:JB:461:A:H2'	2.33	0.44
22:JB:647:G:C6	33:JM:128:ALA:HB1	2.52	0.44
22:JB:702:A:H2'	22:JB:703:A:C8	2.52	0.44
22:JB:72:A:OP1	45:JY:51:ALA:CA	2.62	0.44
22:JB:72:A:OP1	45:JY:54:ASN:OD1	2.35	0.44
22:JB:903:G:H5''	22:JB:904:U:H5	1.83	0.44
22:JB:953:G:C4'	22:JB:1203:A:H1'	2.47	0.44
22:JB:989:G:H2'	22:JB:990:A:O4'	2.18	0.44
22:JB:991:A:H61	22:JB:2020:G:H21	1.65	0.44
26:JF:39:ARG:HE	26:JF:39:ARG:HA	1.82	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:JG:175:LEU:HB2	27:JG:176:PRO:HD3	1.99	0.44
22:JB:2636:A:O2'	28:JH:158:HIS:NE2	2.50	0.44
31:JK:139:ARG:HB3	31:JK:140:GLN:H	1.54	0.44
34:JN:35:LEU:HD13	34:JN:103:VAL:HG21	1.99	0.44
22:JB:1236:G:C6	39:JS:73:LYS:CE	3.00	0.44
22:JB:340:G:N7	42:JV:27:GLY:C	2.70	0.44
43:JW:65:LEU:HD22	43:JW:128:ARG:HH11	1.26	0.44
45:JY:38:ALA:C	45:JY:40:PRO:HD3	2.37	0.44
1:AA:1511:G:H2'	1:AA:1512:U:C6	2.52	0.44
1:AA:190:A:C2	1:AA:191:G:H1'	2.53	0.44
1:AA:50:A:H1'	1:AA:52:G:C5'	2.48	0.44
1:AA:665:A:C8	1:AA:733:A:H1'	2.52	0.44
1:AA:77:C:H2'	1:AA:78:G:O4'	2.17	0.44
1:AA:793:U:C4	1:AA:1516:G:H4'	2.52	0.44
1:AA:796:C:H2'	1:AA:797:C:C6	2.53	0.44
1:AA:968:A:O3'	10:AJ:56:HIS:HE1	1.94	0.44
2:AB:152:PHE:CZ	2:AB:155:LEU:HD12	2.52	0.44
2:AB:162:ILE:O	2:AB:184:VAL:HB	2.17	0.44
2:AB:211:ILE:HA	2:AB:214:ILE:HG12	1.99	0.44
1:AA:1108:G:O5'	3:AC:176:HIS:HB2	2.17	0.44
7:AG:35:LYS:HE2	7:AG:38:LEU:N	2.32	0.44
8:AH:3:THR:HG23	8:AH:4:ASP:N	2.31	0.44
10:AJ:10:GLY:HA3	10:AJ:16:LEU:HD21	2.00	0.44
10:AJ:38:ILE:HA	10:AJ:39:PRO:HD2	1.86	0.44
1:AA:136:C:C2	16:AP:62:VAL:O	2.71	0.44
17:AQ:48:GLU:OE2	17:AQ:50:LYS:HD2	2.18	0.44
18:AR:51:LEU:HB3	18:AR:56:THR:HA	2.00	0.44
47:B1:10:VAL:N	47:B1:11:PRO:CD	2.80	0.44
22:BB:2591:C:C4	48:B2:4:HIS:ND1	2.84	0.44
22:BB:2330:G:O6	51:B5:39:ASP:OD1	2.35	0.44
22:BB:1041:G:C2	52:B6:6:SER:C	2.89	0.44
53:B7:208:THR:HG22	53:B7:209:MSE:HG3	1.99	0.44
22:BB:1004:A:H1'	22:BB:1173:G:N2	2.31	0.44
22:BB:1398:G:C6	22:BB:1416:A:C6	3.05	0.44
22:BB:1883:A:N6	22:BB:1953:A:N6	2.65	0.44
22:BB:201:G:H2'	22:BB:202:A:H8	1.83	0.44
22:BB:2049:C:H1'	22:BB:2428:U:N3	2.20	0.44
22:BB:2276:C:H42	22:BB:2299:A:C1'	2.21	0.44
22:BB:2343:C:O2'	44:BX:66:LYS:HG2	2.10	0.44
22:BB:2795:A:H5'	22:BB:2796:A:N7	2.33	0.44
22:BB:3871:A:H2'	22:BB:3872:A:H8	1.81	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BD:212:SER:N	24:BD:215:LEU:HD13	2.32	0.44
24:BD:257:LEU:HD22	24:BD:258:LYS:HG2	1.98	0.44
22:BB:1809:G:C4'	24:BD:63:ARG:HH12	2.28	0.44
25:BE:111:LYS:HG2	25:BE:112:GLY:N	2.33	0.44
25:BE:44:TYR:HB2	25:BE:82:ARG:HG2	1.99	0.44
25:BE:59:VAL:CG1	25:BE:61:LYS:HG3	2.46	0.44
27:BG:5:LYS:HD2	27:BG:8:TYR:CD1	2.52	0.44
28:BH:76:VAL:HB	28:BH:77:LYS:NZ	2.33	0.44
30:BJ:129:GLY:HA3	30:BJ:132:ARG:NH1	2.21	0.44
31:BK:136:PRO:O	31:BK:137:LYS:HB3	2.17	0.44
32:BL:90:ARG:O	37:BQ:79:ARG:CZ	2.65	0.44
33:BM:122:VAL:HG22	33:BM:124:ALA:N	2.32	0.44
34:BN:46:ASN:HA	34:BN:49:GLU:HB3	1.98	0.44
34:BN:48:ILE:HA	34:BN:51:CYS:HB2	1.99	0.44
34:BN:75:VAL:HB	34:BN:92:GLU:OE1	2.17	0.44
41:BU:15:LYS:HG3	41:BU:19:ALA:CB	2.47	0.44
43:BW:141:MET:HB2	43:BW:171:VAL:HG13	2.00	0.44
22:BB:2240:C:P	44:BX:14:ARG:CG	3.01	0.44
1:CA:1152:A:H2'	1:CA:1153:C:C6	2.53	0.44
1:CA:1358:U:H2'	1:CA:1359:C:O4'	2.17	0.44
1:CA:190:A:C2	1:CA:191:G:H1'	2.52	0.44
1:CA:37:U:P	12:CL:123:LYS:HA	2.58	0.44
1:CA:592:G:H2'	1:CA:593:G:H8	1.80	0.44
3:CC:18:TRP:HZ2	14:CN:53:LEU:HG	1.82	0.44
5:CE:118:ILE:HG22	5:CE:119:LEU:N	2.32	0.44
6:CF:77:ARG:O	6:CF:81:ILE:HG13	2.17	0.44
8:CH:33:GLU:CG	8:CH:59:LEU:HD11	2.47	0.44
8:CH:67:PRO:O	8:CH:76:PRO:HA	2.17	0.44
1:CA:1344:C:C4'	9:CI:120:ARG:CD	2.90	0.44
1:CA:1230:C:N4	13:CM:125:ARG:O	2.49	0.44
13:CM:84:ILE:CD1	13:CM:92:HIS:HD2	2.26	0.44
15:CO:17:ARG:HB3	15:CO:18:PHE:H	1.59	0.44
1:CA:43:C:H5''	16:CP:12:LYS:HB3	1.99	0.44
49:D3:21:TYR:HD2	49:D3:21:TYR:HA	1.66	0.44
53:D7:182:ASN:O	53:D7:186:VAL:HG23	2.17	0.44
53:D7:63:ARG:HG2	53:D7:82:LYS:HZ3	1.82	0.44
23:DA:119:G:H2'	23:DA:119:G:N3	2.33	0.44
22:DB:1012:A:H2'	22:DB:1013:G:O4'	2.18	0.44
22:DB:1019:U:C5'	31:DK:63:ARG:HD2	2.46	0.44
22:DB:1057:A:H3'	22:DB:1058:G:H5''	1.98	0.44
22:DB:1080:A:H5''	22:DB:1081:A:O5'	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:DB:1114:A:H2'	22:DB:1115:C:C6	2.51	0.44
22:DB:852:U:O2'	22:DB:1205:G:H1'	2.17	0.44
22:DB:2039:G:C4	48:D2:5:PRO:CD	2.93	0.44
22:DB:2062:U:H2'	22:DB:2063:A:H8	1.82	0.44
22:DB:2241:U:C1'	22:DB:2307:A:H1'	2.48	0.44
22:DB:2372:A:H4'	33:DM:60:LEU:H	1.79	0.44
22:DB:2551:A:H62	25:DE:144:ARG:HA	1.81	0.44
22:DB:2569:A:O2'	22:DB:2570:C:H5'	2.17	0.44
22:DB:2598:C:O2	25:DE:154:LYS:CE	2.54	0.44
22:DB:2619:G:H2'	22:DB:2620:G:C8	2.52	0.44
22:DB:2752:C:H2'	22:DB:2753:C:H6	1.82	0.44
22:DB:2789:U:O2	48:D2:43:HIS:NE2	2.51	0.44
22:DB:362:C:N4	22:DB:363:G:H21	2.15	0.44
22:DB:366:U:H2'	22:DB:367:G:H8	1.83	0.44
22:DB:3871:A:H2'	22:DB:3872:A:H8	1.81	0.44
22:DB:413:G:C5	47:D1:63:PHE:HE1	2.13	0.44
22:DB:459:A:H1'	22:DB:461:A:N6	2.31	0.44
22:DB:462:G:H2'	22:DB:463:C:H5'	1.97	0.44
22:DB:498:C:N4	22:DB:504:G:O6	2.51	0.44
22:DB:590:C:H4'	38:DR:32:TYR:CB	2.46	0.44
22:DB:609:U:H2'	22:DB:610:G:H8	1.82	0.44
22:DB:720:A:N1	22:DB:738:G:C1'	2.77	0.44
22:DB:788:G:H5'	22:DB:790:A:C1'	2.47	0.44
24:DD:166:GLN:HE22	24:DD:175:VAL:C	2.19	0.44
24:DD:212:SER:N	24:DD:215:LEU:HD13	2.32	0.44
24:DD:252:LYS:N	24:DD:253:PRO:CD	2.80	0.44
25:DE:7:THR:HB	25:DE:194:GLY:N	2.33	0.44
27:DG:99:PHE:O	27:DG:103:LEU:HG	2.17	0.44
31:DK:78:ASP:H	31:DK:147:ARG:NH2	2.16	0.44
32:DL:112:GLY:O	32:DL:131:PRO:HB2	2.17	0.44
22:DB:2394:G:O2'	33:DM:64:GLY:HA3	2.15	0.44
33:DM:75:VAL:HG22	33:DM:76:LYS:H	1.83	0.44
38:DR:44:THR:C	38:DR:46:GLU:H	2.19	0.44
22:DB:1234:C:C3'	39:DS:68:LYS:HD3	2.31	0.44
41:DU:17:TYR:N	41:DU:20:MET:HB2	2.31	0.44
22:DB:490:A:P	42:DV:4:PRO:O	2.75	0.44
34:DN:65:ILE:HB	43:DW:117:VAL:HG22	0.80	0.44
43:DW:13:LYS:HG2	43:DW:20:ALA:HA	1.99	0.44
23:DA:107:C:C5'	43:DW:88:TYR:HA	2.30	0.44
1:EA:1358:U:H2'	1:EA:1359:C:O4'	2.17	0.44
1:EA:1511:G:H2'	1:EA:1512:U:C6	2.53	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:EA:447:G:H1'	1:EA:487:A:N6	2.32	0.44
1:EA:478:A:H8	1:EA:479:C:H5'	1.82	0.44
1:EA:50:A:H1'	1:EA:52:G:C5'	2.48	0.44
1:EA:716:A:O2'	1:EA:717:C:H5'	2.17	0.44
1:EA:870:U:H3	1:EA:872:A:N6	2.15	0.44
2:EB:106:LYS:O	2:EB:106:LYS:HD2	2.17	0.44
2:EB:31:TYR:HA	2:EB:43:ASP:OD2	2.17	0.44
3:EC:8:ILE:HG23	3:EC:11:ARG:NH2	2.31	0.44
3:EC:12:LEU:CD1	14:EN:51:GLY:HA3	2.43	0.44
3:EC:18:TRP:NE1	14:EN:53:LEU:C	2.70	0.44
6:EF:4:TYR:HE2	6:EF:67:MET:H	1.65	0.44
7:EG:85:TYR:O	7:EG:87:VAL:HG23	2.18	0.44
8:EH:33:GLU:CG	8:EH:59:LEU:HD11	2.47	0.44
9:EI:26:VAL:HG21	9:EI:61:ALA:HB3	1.98	0.44
9:EI:86:VAL:HA	9:EI:89:ASN:O	2.16	0.44
11:EK:45:GLY:HA2	11:EK:63:LEU:O	2.17	0.44
1:EA:1309:G:OP1	13:EM:88:ARG:CZ	2.66	0.44
14:EN:39:LEU:HD22	14:EN:44:LEU:CB	2.48	0.44
15:EO:9:GLN:HA	15:EO:12:ILE:HD12	1.99	0.44
1:EA:276:G:H5'	17:EQ:15:MET:HE1	1.99	0.44
19:ES:2:PRO:HG2	19:ES:3:ARG:H	1.83	0.44
22:FB:1012:A:H2'	22:FB:1013:G:O4'	2.18	0.44
22:FB:1080:A:H5''	22:FB:1081:A:O5'	2.18	0.44
22:FB:1849:G:H2'	22:FB:1867:A:C2	2.53	0.44
22:FB:2263:C:H1'	22:FB:2304:G:C2	2.53	0.44
22:FB:2241:U:N3	22:FB:2306:A:H2	2.15	0.44
22:FB:2321:C:H2'	22:FB:2322:U:O4'	2.17	0.44
22:FB:2348:A:H2'	22:FB:2349:G:H8	1.82	0.44
22:FB:2491:C:C2	22:FB:2492:G:H1'	2.53	0.44
22:FB:2692:A:H4'	35:FO:15:SER:HB2	2.00	0.44
22:FB:2752:C:H2'	22:FB:2753:C:H6	1.82	0.44
22:FB:2795:A:H5'	22:FB:2796:A:N7	2.33	0.44
22:FB:3103:A:H2'	22:FB:3104:C:C6	2.52	0.44
22:FB:3871:A:H2'	22:FB:3872:A:H8	1.81	0.44
22:FB:973:U:H2'	22:FB:974:U:O4'	2.16	0.44
24:FD:63:ARG:HH22	24:FD:157:ARG:NH1	2.16	0.44
24:FD:216:GLY:C	24:FD:217:ARG:HD2	2.38	0.44
24:FD:95:LEU:HD12	24:FD:104:TYR:C	2.37	0.44
22:FB:2598:C:H1'	25:FE:154:LYS:HD3	2.00	0.44
25:FE:59:VAL:HG12	25:FE:60:ASN:N	2.32	0.44
25:FE:82:ARG:HD3	25:FE:83:GLY:N	2.32	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:FB:598:U:H5'	26:FF:89:ARG:NH2	2.32	0.44
27:FG:67:ILE:HG23	27:FG:68:THR:O	2.17	0.44
33:FM:64:GLY:C	51:F5:11:LYS:HB3	2.38	0.44
34:FN:9:LYS:HA	34:FN:70:PHE:CZ	2.53	0.44
37:FQ:107:LEU:HD22	37:FQ:109:GLU:O	2.18	0.44
22:FB:25:U:C5'	40:FT:100:GLY:C	2.85	0.44
22:FB:348:U:H5'	42:FV:13:LYS:CB	2.07	0.44
22:FB:348:U:C5'	42:FV:13:LYS:HD3	2.48	0.44
1:GA:1113:C:H2'	1:GA:1114:C:O4'	2.17	0.44
1:GA:1378:C:H3'	1:GA:1379:G:C4'	2.46	0.44
1:GA:186:C:H5'	20:GT:78:ALA:CA	2.40	0.44
1:GA:46:G:O2'	1:GA:365:U:H1'	2.16	0.44
1:GA:709:G:H2'	1:GA:710:G:H8	1.82	0.44
1:GA:975:A:C8	14:GN:32:SER:HA	2.53	0.44
3:GC:202:ILE:HG22	3:GC:203:PHE:N	2.32	0.44
5:GE:89:ILE:HD13	5:GE:90:VAL:H	1.83	0.44
8:GH:67:PRO:O	8:GH:76:PRO:HA	2.17	0.44
12:GL:83:VAL:HG22	12:GL:84:LEU:H	1.83	0.44
13:GM:56:LEU:HA	13:GM:60:VAL:CG2	2.48	0.44
19:GS:2:PRO:HG2	19:GS:3:ARG:H	1.83	0.44
22:HB:2378:G:C2'	49:H3:20:PHE:CZ	2.93	0.44
22:HB:2398:U:O4'	49:H3:21:TYR:HE2	1.99	0.44
22:HB:1012:A:H2'	22:HB:1013:G:O4'	2.18	0.44
22:HB:1251:G:O2'	22:HB:1252:C:H5'	2.18	0.44
22:HB:139:A:H2'	22:HB:139:A:N3	2.31	0.44
22:HB:1498:G:H1	22:HB:1523:A:H1'	1.82	0.44
22:HB:1625:A:H3'	22:HB:1625:A:N3	2.32	0.44
22:HB:1849:G:H2'	22:HB:1867:A:C2	2.53	0.44
22:HB:1888:C:H2'	22:HB:1913:G:C8	2.52	0.44
22:HB:2569:A:O2'	22:HB:2570:C:H5'	2.17	0.44
22:HB:2752:C:H2'	22:HB:2753:C:H6	1.82	0.44
22:HB:2791:C:C6	48:H2:43:HIS:HB2	2.52	0.44
22:HB:2769:C:N3	22:HB:2867:G:N2	2.66	0.44
22:HB:497:C:C2	40:HT:77:ALA:CB	3.00	0.44
22:HB:735:G:H2'	22:HB:736:G:C8	2.49	0.44
22:HB:717:G:N1	22:HB:739:G:C6	2.85	0.44
22:HB:759:C:H2'	48:H2:2:ALA:N	2.32	0.44
22:HB:869:C:O4'	44:HX:57:HIS:O	2.36	0.44
24:HD:55:GLY:C	24:HD:218:LYS:HB2	2.38	0.44
24:HD:85:ASP:N	24:HD:86:PRO:HD2	2.31	0.44
25:HE:82:ARG:HD3	25:HE:83:GLY:N	2.32	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:HF:169:VAL:O	26:HF:171:PRO:HD3	2.18	0.44
31:HK:78:ASP:H	31:HK:147:ARG:NH2	2.16	0.44
34:HN:100:PRO:HG2	34:HN:102:ARG:CZ	2.46	0.44
34:HN:69:ILE:HG21	34:HN:97:VAL:HG11	2.00	0.44
37:HQ:31:ASP:HA	37:HQ:56:ALA:O	2.16	0.44
22:HB:1261:G:N7	38:HR:3:ARG:CB	2.80	0.44
42:HV:39:ALA:O	42:HV:40:LEU:HD23	2.17	0.44
43:HW:136:VAL:HA	43:HW:147:ILE:HD11	1.99	0.44
43:HW:41:ARG:HH11	43:HW:44:ARG:HE	1.66	0.44
44:HX:14:ARG:HG3	44:HX:15:ASP:N	2.32	0.44
22:HB:94:C:C1'	45:HY:41:HIS:CE1	2.83	0.44
1:IA:1113:C:H2'	1:IA:1114:C:O4'	2.17	0.44
1:IA:1342:C:H2'	1:IA:1343:G:H8	1.82	0.44
1:IA:197:A:C4	1:IA:221:C:H4'	2.52	0.44
1:IA:344:A:H4'	1:IA:345:C:OP2	2.17	0.44
1:IA:592:G:H2'	1:IA:593:G:H8	1.81	0.44
1:IA:8:A:OP2	4:ID:209:ARG:HD2	2.17	0.44
3:IC:112:SER:O	3:IC:116:VAL:HG23	2.17	0.44
3:IC:123:GLN:HB3	3:IC:128:PHE:HB2	1.99	0.44
7:IG:85:TYR:O	7:IG:87:VAL:HG23	2.17	0.44
7:IG:95:ARG:HG2	7:IG:99:LEU:CG	2.47	0.44
11:IK:122:LYS:HB2	11:IK:123:LYS:HD3	1.99	0.44
12:IL:55:VAL:HG12	12:IL:56:ALA:N	2.33	0.44
12:IL:58:VAL:HB	12:IL:66:VAL:CG2	2.42	0.44
12:IL:5:PRO:HA	12:IL:9:GLN:C	2.38	0.44
19:IS:9:VAL:O	19:IS:11:VAL:HG23	2.17	0.44
51:J5:57:ARG:HA	51:J5:57:ARG:HE	1.82	0.44
22:JB:2505:G:C2'	52:J6:2:LYS:HE2	2.36	0.44
22:JB:3167:U:O4	53:J7:98:ARG:O	2.35	0.44
22:JB:1041:G:P	34:JN:125:LYS:CD	3.06	0.44
22:JB:1580:C:H2'	22:JB:1581:C:O4'	2.17	0.44
22:JB:1812:U:H2'	24:JD:202:LYS:HB3	1.98	0.44
22:JB:2569:A:O2'	22:JB:2570:C:H5'	2.17	0.44
22:JB:1949:A:H2	22:JB:2571:G:H2'	1.80	0.44
22:JB:2617:G:O2'	22:JB:2618:A:H5'	2.18	0.44
22:JB:2619:G:H2'	22:JB:2620:G:C8	2.52	0.44
22:JB:603:C:H3'	22:JB:604:U:P	2.56	0.44
22:JB:625:A:C2	22:JB:626:A:H1'	2.52	0.44
22:JB:653:G:O3'	22:JB:654:A:H4'	2.17	0.44
22:JB:788:G:H4'	22:JB:789:G:H4'	1.99	0.44
22:JB:881:U:H2'	22:JB:882:C:C6	2.52	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:JB:930:A:H2'	22:JB:931:G:H5'	1.98	0.44
22:JB:973:U:H2'	22:JB:974:U:O4'	2.16	0.44
24:JD:104:TYR:O	24:JD:105:ILE:HG22	2.18	0.44
25:JE:44:TYR:HB2	25:JE:82:ARG:HG2	1.99	0.44
25:JE:59:VAL:CG1	25:JE:61:LYS:HG3	2.46	0.44
27:JG:156:ILE:CD1	27:JG:158:THR:HG23	2.47	0.44
22:JB:2372:A:O5'	33:JM:60:LEU:HA	2.17	0.44
35:JO:55:ALA:HA	35:JO:80:MET:CE	2.47	0.44
46:JZ:15:ASN:HA	46:JZ:18:LYS:HE3	1.99	0.44
1:AA:1089:G:H2'	1:AA:1090:U:C6	2.52	0.44
1:AA:1152:A:H2'	1:AA:1153:C:C6	2.53	0.44
1:AA:332:G:H5''	20:AT:13:LEU:CG	2.46	0.44
1:AA:402:G:O4'	1:AA:621:A:C2	2.70	0.44
1:AA:719:C:H3'	1:AA:720:C:C5	2.53	0.44
1:AA:761:G:H21	17:AQ:104:LYS:C	2.17	0.44
2:AB:106:LYS:HD2	2:AB:106:LYS:O	2.17	0.44
3:AC:8:ILE:HG23	3:AC:11:ARG:NH2	2.32	0.44
3:AC:37:GLN:CD	3:AC:37:GLN:H	2.20	0.44
4:AD:180:GLY:O	4:AD:182:LYS:HG3	2.18	0.44
1:AA:430:A:OP2	4:AD:6:GLY:O	2.35	0.44
5:AE:104:ALA:HA	5:AE:107:ARG:NH1	2.33	0.44
7:AG:43:PHE:C	7:AG:45:ASP:H	2.21	0.44
8:AH:13:ILE:C	8:AH:15:ASN:H	2.20	0.44
1:AA:1130:A:P	9:AI:20:ARG:HD3	2.57	0.44
9:AI:44:VAL:O	9:AI:47:LEU:HD23	2.17	0.44
9:AI:77:ILE:O	9:AI:81:ILE:HG13	2.17	0.44
11:AK:31:THR:O	11:AK:32:ILE:HD13	2.18	0.44
11:AK:45:GLY:HA2	11:AK:63:LEU:O	2.17	0.44
1:AA:553:A:O4'	12:AL:31:PRO:CG	2.65	0.44
12:AL:36:VAL:O	12:AL:58:VAL:HA	2.16	0.44
12:AL:6:THR:N	12:AL:9:GLN:HG3	2.33	0.44
15:AO:33:THR:HA	15:AO:36:ILE:CD1	2.47	0.44
1:AA:668:G:C4	15:AO:46:HIS:CE1	3.05	0.44
19:AS:63:THR:HG22	19:AS:64:GLU:H	1.82	0.44
51:B5:13:ARG:HH11	51:B5:23:MET:CA	2.31	0.44
23:BA:119:G:H2'	23:BA:119:G:N3	2.33	0.44
22:BB:1004:A:H61	22:BB:1171:A:H61	1.65	0.44
22:BB:1012:A:H2'	22:BB:1013:G:O4'	2.18	0.44
22:BB:1072:U:O4	30:BJ:54:PRO:CA	2.53	0.44
22:BB:1376:C:H2'	22:BB:1377:G:C8	2.47	0.44
22:BB:1394:G:O2'	22:BB:1588:A:N6	2.49	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:BB:1555:A:H2'	22:BB:1556:A:H5'	1.98	0.44
22:BB:1835:C:O3'	24:BD:255:LYS:HG3	2.17	0.44
22:BB:1849:G:H2'	22:BB:1867:A:C2	2.53	0.44
22:BB:191:G:H2'	22:BB:192:G:C4'	2.48	0.44
22:BB:2062:U:H2'	22:BB:2063:A:H8	1.82	0.44
22:BB:2372:A:O2'	33:BM:59:ARG:C	2.50	0.44
22:BB:340:G:H4'	22:BB:488:A:O4'	2.18	0.44
22:BB:573:C:O2'	22:BB:574:C:H5'	2.18	0.44
22:BB:609:U:H2'	22:BB:610:G:H8	1.82	0.44
22:BB:624:A:C8	26:BF:170:LEU:CD2	2.98	0.44
15:AO:88:ARG:CB	22:BB:727:U:C5	2.99	0.44
22:BB:930:A:H2'	22:BB:931:G:H5'	1.99	0.44
22:BB:832:A:C2	22:BB:953:G:H1'	2.52	0.44
22:BB:973:U:H2'	22:BB:974:U:O4'	2.16	0.44
24:BD:43:ARG:HB2	24:BD:44:ASN:H	1.37	0.44
27:BG:25:VAL:O	27:BG:26:MET:HG3	2.18	0.44
27:BG:63:GLN:HB3	27:BG:63:GLN:HE21	1.58	0.44
27:BG:99:PHE:O	27:BG:103:LEU:HG	2.17	0.44
28:BH:40:GLU:O	28:BH:41:LEU:HD22	2.18	0.44
31:BK:56:THR:C	31:BK:58:ILE:H	2.18	0.44
31:BK:65:LYS:HG2	31:BK:66:HIS:CD2	2.53	0.44
34:BN:69:ILE:HG21	34:BN:97:VAL:HG11	1.99	0.44
34:BN:38:MET:HA	34:BN:99:LYS:CD	2.48	0.44
22:BB:2813:G:C4'	35:BO:8:ARG:HH11	2.30	0.44
25:BE:17:ASN:HB3	37:BQ:89:ASN:CB	2.43	0.44
34:BN:62:GLY:C	43:BW:112:LEU:CD2	2.86	0.44
43:BW:41:ARG:HH11	43:BW:44:ARG:NE	2.16	0.44
43:BW:70:GLN:NE2	43:BW:81:VAL:HG22	2.33	0.44
44:BX:14:ARG:HG3	44:BX:15:ASP:N	2.31	0.44
44:BX:43:THR:OG1	44:BX:67:VAL:HG12	2.17	0.44
45:BY:38:ALA:C	45:BY:40:PRO:HD3	2.37	0.44
1:CA:1265:G:H2'	1:CA:1266:G:O4'	2.17	0.44
1:CA:1281:U:HO2'	1:CA:1282:C:P	2.40	0.44
1:CA:1331:G:OP1	13:CM:23:TYR:HE1	2.01	0.44
1:CA:508:C:H4'	4:CD:54:TYR:CE1	2.52	0.44
1:CA:523:A:N1	12:CL:91:LYS:CB	2.81	0.44
1:CA:551:U:H2'	1:CA:552:U:C5	2.53	0.44
1:CA:739:C:C2	15:CO:46:HIS:HD2	2.33	0.44
1:CA:828:A:OP2	8:CH:21:LYS:HE2	2.17	0.44
2:CB:213:LEU:HA	2:CB:216:SER:OG	2.18	0.44
3:CC:113:ALA:HB3	3:CC:183:ASP:O	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:CD:108:LEU:HA	4:CD:170:VAL:CG2	2.46	0.44
5:CE:129:ILE:C	5:CE:131:ILE:H	2.21	0.44
7:CG:43:PHE:C	7:CG:45:ASP:H	2.21	0.44
7:CG:97:GLN:HG3	7:CG:98:SER:H	1.81	0.44
7:CG:95:ARG:HG2	7:CG:99:LEU:CG	2.47	0.44
8:CH:121:ASP:HA	8:CH:124:ALA:HB3	1.98	0.44
11:CK:31:THR:O	11:CK:32:ILE:HD13	2.18	0.44
11:CK:48:ILE:HG22	11:CK:49:GLY:N	2.33	0.44
11:CK:91:ARG:HD2	11:CK:91:ARG:N	2.32	0.44
14:CN:39:LEU:HD22	14:CN:44:LEU:CB	2.48	0.44
16:CP:8:ARG:HE	16:CP:15:PRO:HB3	1.82	0.44
17:CQ:25:ARG:C	17:CQ:39:SER:HB3	2.38	0.44
19:CS:36:ARG:HB2	19:CS:72:GLY:CA	2.48	0.44
51:D5:13:ARG:HH11	51:D5:23:MET:CA	2.31	0.44
51:D5:3:LYS:HE3	51:D5:62:LEU:HD12	1.98	0.44
53:D7:93:LEU:HD13	53:D7:124:LEU:HD11	2.00	0.44
53:D7:34:LEU:HD22	53:D7:165:VAL:HG23	1.99	0.44
22:DB:1585:A:N7	22:DB:1587:A:N1	2.65	0.44
22:DB:1709:U:H1'	22:DB:1713:G:C2	2.53	0.44
22:DB:1883:A:C1'	22:DB:1953:A:H3'	2.48	0.44
22:DB:1886:G:H2'	22:DB:1887:G:H8	1.82	0.44
22:DB:2491:C:C2	22:DB:2492:G:H1'	2.53	0.44
22:DB:2603:G:H2'	22:DB:2604:G:O4'	2.18	0.44
22:DB:2733:A:H1'	52:D6:15:LYS:CE	2.47	0.44
22:DB:2795:A:H5'	22:DB:2796:A:N7	2.33	0.44
22:DB:468:A:H2'	22:DB:469:G:H4'	1.99	0.44
22:DB:471:A:H2'	22:DB:472:C:H4'	2.00	0.44
22:DB:568:G:H3'	22:DB:569:C:P	2.57	0.44
22:DB:625:A:C2	22:DB:626:A:H1'	2.52	0.44
22:DB:643:A:H2'	22:DB:644:A:O4'	2.18	0.44
22:DB:841:G:H1	22:DB:2226:A:HO2'	1.65	0.44
22:DB:968:C:C6	34:DN:77:LYS:HE2	2.52	0.44
24:DD:23:GLY:O	24:DD:24:LEU:HG	2.18	0.44
24:DD:257:LEU:HD22	24:DD:258:LYS:HG2	1.99	0.44
22:DB:1581:C:H41	24:DD:28:ARG:CZ	2.30	0.44
1:CA:772:U:C2	24:DD:5:LYS:HE2	2.46	0.44
24:DD:63:ARG:CZ	24:DD:87:ASN:HB2	2.47	0.44
22:DB:1809:G:C5'	24:DD:63:ARG:NH1	2.54	0.44
22:DB:1673:C:C5'	25:DE:117:MET:HE1	2.48	0.44
22:DB:2750:G:H21	25:DE:204:ALA:HB1	1.83	0.44
25:DE:33:ILE:HB	25:DE:49:ILE:HG21	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:DF:173:ALA:HB1	26:DF:193:LEU:HD22	1.99	0.44
26:DF:39:ARG:HA	26:DF:39:ARG:HE	1.82	0.44
27:DG:86:GLY:O	27:DG:87:ILE:HG23	2.16	0.44
22:DB:2645:C:H5	28:DH:109:TYR:HD2	1.44	0.44
28:DH:29:PRO:HG2	28:DH:78:GLY:O	2.17	0.44
30:DJ:72:PRO:N	30:DJ:73:PRO:HD2	2.32	0.44
31:DK:136:PRO:O	31:DK:137:LYS:HB3	2.17	0.44
33:DM:35:LYS:HB2	33:DM:35:LYS:HZ2	1.82	0.44
34:DN:48:ILE:HA	34:DN:51:CYS:HB2	1.99	0.44
34:DN:9:LYS:HA	34:DN:70:PHE:CZ	2.53	0.44
22:DB:968:C:C5	34:DN:77:LYS:HE2	2.53	0.44
22:DB:1291:G:H1'	35:DO:27:ALA:HB1	1.99	0.44
36:DP:38:ILE:HG21	36:DP:67:THR:O	2.18	0.44
41:DU:15:LYS:HG3	41:DU:19:ALA:CB	2.47	0.44
41:DU:42:ILE:HB	41:DU:50:VAL:CG2	2.47	0.44
1:EA:1152:A:H2'	1:EA:1153:C:C6	2.53	0.44
1:EA:1316:G:C2	1:EA:1318:A:H3'	2.52	0.44
1:EA:330:C:H2'	1:EA:331:G:C8	2.42	0.44
1:EA:551:U:H2'	1:EA:552:U:C5	2.53	0.44
4:ED:77:ASN:HA	4:ED:80:GLU:CG	2.47	0.44
5:EE:118:ILE:HG22	5:EE:119:LEU:N	2.32	0.44
7:EG:3:ARG:NH1	7:EG:3:ARG:HG2	2.33	0.44
8:EH:11:THR:HA	8:EH:14:ARG:NH1	2.32	0.44
8:EH:67:PRO:O	8:EH:76:PRO:HA	2.18	0.44
1:EA:707:C:OP1	11:EK:22:HIS:CD2	2.71	0.44
15:EO:8:LYS:HA	15:EO:11:VAL:HG23	1.99	0.44
22:FB:124:A:O4'	50:F4:19:ARG:CZ	2.66	0.44
51:F5:50:LEU:HD23	51:F5:52:LYS:NZ	2.33	0.44
53:F7:34:LEU:HA	53:F7:204:TYR:HB2	1.98	0.44
23:FA:119:G:N3	23:FA:119:G:H2'	2.33	0.44
22:FB:1024:G:H2'	22:FB:1025:A:C8	2.52	0.44
22:FB:1041:G:H21	52:F6:6:SER:N	2.14	0.44
22:FB:1077:U:H3'	22:FB:1078:A:H5''	1.98	0.44
22:FB:1175:A:H5'	39:FS:89:ASN:HB3	2.00	0.44
22:FB:1810:U:OP2	24:FD:154:GLN:O	2.36	0.44
22:FB:1949:A:C2	22:FB:2571:G:O2'	2.64	0.44
22:FB:1982:C:H4'	22:FB:2702:G:N2	2.29	0.44
22:FB:1999:U:H2'	22:FB:2000:U:C6	2.52	0.44
22:FB:2062:U:O2'	47:F1:32:HIS:CG	2.71	0.44
22:FB:2277:A:H2'	22:FB:2278:A:H5'	1.99	0.44
22:FB:2240:C:C4'	22:FB:2366:U:C2'	2.83	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:FB:2619:G:H2'	22:FB:2620:G:C8	2.53	0.44
22:FB:362:C:N4	22:FB:363:G:H21	2.15	0.44
22:FB:366:U:H2'	22:FB:367:G:H8	1.83	0.44
22:FB:573:C:O2'	22:FB:574:C:H5'	2.18	0.44
22:FB:930:A:H2'	22:FB:931:G:H5'	1.99	0.44
24:FD:63:ARG:CZ	24:FD:87:ASN:HB2	2.47	0.44
25:FE:111:LYS:HG2	25:FE:112:GLY:N	2.33	0.44
26:FF:169:VAL:O	26:FF:171:PRO:HD3	2.18	0.44
22:FB:2042:A:H5''	26:FF:66:ASN:H	1.82	0.44
27:FG:175:LEU:HB2	27:FG:176:PRO:HD3	1.99	0.44
28:FH:142:GLY:O	28:FH:145:ALA:HB3	2.16	0.44
31:FK:116:ARG:NH2	31:FK:126:VAL:HG11	2.31	0.44
22:FB:2541:U:C4'	32:FL:24:VAL:O	2.64	0.44
34:FN:100:PRO:HG2	34:FN:102:ARG:CZ	2.46	0.44
34:FN:55:MET:HA	34:FN:55:MET:CE	2.48	0.44
34:FN:9:LYS:HG2	34:FN:71:PRO:HB2	1.99	0.44
36:FP:9:ARG:HH12	36:FP:11:LEU:N	2.16	0.44
22:FB:1007:A:C2'	38:FR:92:ARG:HB2	2.46	0.44
22:FB:1235:C:P	39:FS:68:LYS:HB3	2.58	0.44
43:FW:123:VAL:O	43:FW:124:ALA:CB	2.64	0.44
1:GA:1250:A:H5''	9:GI:68:GLY:H	1.79	0.44
1:GA:1342:C:H2'	1:GA:1343:G:H8	1.82	0.44
1:GA:1447:A:N6	1:GA:1457:A:N7	2.64	0.44
1:GA:197:A:H4'	1:GA:198:G:O5'	2.16	0.44
1:GA:277:C:P	17:GQ:41:LYS:CD	3.04	0.44
1:GA:702:A:H5'	1:GA:703:G:N7	2.32	0.44
1:GA:861:G:H2'	1:GA:862:C:O4'	2.17	0.44
2:GB:162:ILE:O	2:GB:184:VAL:HB	2.17	0.44
4:GD:78:LEU:HB2	4:GD:93:PHE:CZ	2.53	0.44
5:GE:121:LYS:HG3	5:GE:123:LEU:HG	1.99	0.44
5:GE:129:ILE:C	5:GE:131:ILE:H	2.21	0.44
6:GF:98:LEU:HD23	6:GF:99:ALA:H	1.82	0.44
8:GH:78:GLN:HB3	8:GH:80:ILE:O	2.16	0.44
9:GI:28:VAL:HG13	9:GI:63:ILE:CG2	2.46	0.44
10:GJ:50:ILE:HG12	10:GJ:60:ARG:HD3	1.98	0.44
10:GJ:78:ASN:O	10:GJ:79:ARG:C	2.56	0.44
12:GL:102:ARG:HB2	12:GL:110:VAL:CG2	2.40	0.44
13:GM:15:VAL:HG21	13:GM:48:LEU:HD11	1.99	0.44
13:GM:55:ARG:O	13:GM:59:TYR:HB3	2.18	0.44
13:GM:78:ILE:HA	13:GM:81:LEU:CD2	2.47	0.44
14:GN:23:ARG:NH1	14:GN:30:ALA:H	2.15	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:GQ:81:ARG:C	17:GQ:83:ASP:H	2.20	0.44
19:GS:36:ARG:HB2	19:GS:72:GLY:CA	2.48	0.44
20:GT:30:LYS:O	20:GT:34:LYS:HG3	2.17	0.44
48:H2:45:ILE:HG23	48:H2:51:TYR:N	2.33	0.44
49:H3:42:PRO:HD3	49:H3:47:HIS:C	2.38	0.44
51:H5:13:ARG:HH11	51:H5:23:MET:CA	2.31	0.44
53:H7:182:ASN:O	53:H7:186:VAL:HG23	2.17	0.44
22:HB:119:G:H2'	22:HB:120:G:H8	1.83	0.44
22:HB:1483:G:H1'	22:HB:1484:G:N3	2.33	0.44
22:HB:1486:A:C5	22:HB:1537:U:O4	2.70	0.44
22:HB:2184:C:H2'	22:HB:2185:U:C6	2.53	0.44
22:HB:2475:C:C2'	22:HB:2476:A:H5'	2.47	0.44
22:HB:1935:A:H2	22:HB:2539:C:C2	2.35	0.44
22:HB:2617:G:O2'	22:HB:2618:A:H5'	2.18	0.44
22:HB:2858:A:H5'	48:H2:52:TYR:CD2	2.52	0.44
22:HB:3197:U:N3	22:HB:2203:G:C4	2.81	0.44
22:HB:328:A:H2'	22:HB:329:C:O4'	2.17	0.44
22:HB:366:U:H2'	22:HB:367:G:H8	1.83	0.44
22:HB:3876:A:N6	53:H7:45:ASP:CG	2.70	0.44
22:HB:881:U:H2'	22:HB:882:C:C6	2.52	0.44
22:HB:60:A:N6	22:HB:92:U:C4	2.85	0.44
22:HB:991:A:H61	22:HB:2020:G:H21	1.66	0.44
24:HD:104:TYR:O	24:HD:105:ILE:HG22	2.18	0.44
24:HD:23:GLY:O	24:HD:24:LEU:HG	2.18	0.44
22:HB:1835:C:C4'	24:HD:255:LYS:HZ2	2.31	0.44
27:HG:106:ILE:HG13	27:HG:107:GLY:H	1.82	0.44
27:HG:25:VAL:O	27:HG:26:MET:HG3	2.18	0.44
27:HG:34:ILE:N	27:HG:34:ILE:HD13	2.32	0.44
22:HB:2747:C:C5'	31:HK:112:THR:HG21	2.39	0.44
32:HL:112:GLY:O	32:HL:131:PRO:HB2	2.17	0.44
39:HS:62:GLU:OE2	39:HS:96:LEU:HD12	2.18	0.44
22:HB:1235:C:P	39:HS:69:ILE:HG22	2.58	0.44
40:HT:27:VAL:HB	40:HT:125:THR:HA	1.99	0.44
22:HB:938:G:H21	46:HZ:39:ALA:HB1	1.83	0.44
1:IA:1001:A:N6	1:IA:1039:C:H42	2.15	0.44
1:IA:1221:G:O3'	19:IS:77:THR:OG1	2.36	0.44
1:IA:1239:A:H62	1:IA:1299:A:N6	1.94	0.44
1:IA:1240:U:C4	7:IG:119:ARG:NH1	2.86	0.44
1:IA:1320:C:C1'	19:IS:73:GLU:CG	2.89	0.44
1:IA:137:C:H1'	1:IA:227:G:H22	1.82	0.44
1:IA:190:A:C2	1:IA:191:G:H1'	2.53	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:IA:702:A:H5'	1:IA:703:G:N7	2.32	0.44
1:IA:98:U:H2'	1:IA:99:C:C4'	2.47	0.44
1:IA:1206:G:H5'	3:IC:193:TYR:CA	2.47	0.44
4:ID:41:GLY:O	4:ID:45:GLN:HG3	2.17	0.44
5:IE:101:ILE:HB	5:IE:119:LEU:HD23	1.98	0.44
5:IE:121:LYS:HG3	5:IE:123:LEU:HG	1.98	0.44
8:IH:11:THR:HA	8:IH:14:ARG:NH1	2.32	0.44
8:IH:3:THR:HG23	8:IH:4:ASP:N	2.31	0.44
8:IH:18:ARG:NH2	8:IH:83:ILE:HG22	2.31	0.44
9:II:48:GLU:HB2	9:II:78:LYS:NZ	2.25	0.44
9:II:77:ILE:O	9:II:81:ILE:HG13	2.17	0.44
11:IK:45:GLY:HA2	11:IK:63:LEU:O	2.17	0.44
13:IM:78:ILE:HA	13:IM:81:LEU:CD2	2.47	0.44
10:IJ:63:PHE:HA	14:IN:59:ALA:H	1.82	0.44
17:IQ:25:ARG:C	17:IQ:39:SER:HB3	2.38	0.44
17:IQ:81:ARG:C	17:IQ:83:ASP:H	2.20	0.44
1:IA:1318:A:H5''	19:IS:5:LEU:CD1	2.48	0.44
13:IM:87:TYR:CB	19:IS:73:GLU:C	2.85	0.44
22:JB:410:A:C4'	47:J1:58:LYS:HD3	2.47	0.44
51:J5:24:ALA:HB3	51:J5:47:GLY:O	2.17	0.44
53:J7:34:LEU:HD22	53:J7:165:VAL:HG23	1.99	0.44
53:J7:60:LYS:HD2	53:J7:63:ARG:NH1	2.32	0.44
23:JA:96:C:H2'	23:JA:97:C:H6	1.82	0.44
22:JB:1440:G:H3'	22:JB:1441:A:H5'	1.98	0.44
22:JB:1498:G:H1'	22:JB:1526:U:N3	2.26	0.44
22:JB:1353:A:N3	22:JB:1618:U:OP2	2.51	0.44
22:JB:181:A:C4'	22:JB:182:G:H4'	2.44	0.44
22:JB:1849:G:H2'	22:JB:1867:A:C2	2.53	0.44
22:JB:1910:A:H2'	22:JB:1911:A:O4'	2.18	0.44
22:JB:2475:C:C2'	22:JB:2476:A:H5'	2.47	0.44
22:JB:2752:C:H2'	22:JB:2753:C:H6	1.82	0.44
22:JB:366:U:H2'	22:JB:367:G:H8	1.83	0.44
22:JB:458:G:H5'	22:JB:461:A:H1'	1.99	0.44
22:JB:915:C:H2'	22:JB:916:U:C6	2.52	0.44
24:JD:79:VAL:HG23	24:JD:117:VAL:HG21	1.98	0.44
22:JB:2572:U:O4	24:JD:237:GLU:HG3	2.16	0.44
24:JD:63:ARG:HH22	24:JD:157:ARG:NH1	2.16	0.44
25:JE:93:VAL:O	25:JE:93:VAL:HG12	2.18	0.44
22:JB:598:U:H5'	26:JF:89:ARG:HH21	1.83	0.44
22:JB:2283:G:H1'	27:JG:129:ASN:HB2	2.00	0.44
27:JG:136:LEU:HG	27:JG:138:PHE:CD2	2.34	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:JG:34:ILE:HD13	27:JG:34:ILE:N	2.32	0.44
31:JK:65:LYS:HG2	31:JK:66:HIS:CD2	2.53	0.44
32:JL:9:ASP:OD2	32:JL:10:VAL:HG22	2.17	0.44
32:JL:118:LEU:O	32:JL:123:PHE:HB3	2.18	0.44
22:JB:634:G:H8	33:JM:98:LEU:HD22	1.83	0.44
34:JN:38:MET:HA	34:JN:99:LYS:CD	2.48	0.44
36:JP:9:ARG:HH12	36:JP:11:LEU:N	2.16	0.44
23:JA:116:C:C4'	36:JP:50:THR:HB	2.20	0.44
40:JT:78:ASN:C	40:JT:80:LEU:H	2.19	0.44
1:AA:1133:G:N1	1:AA:1134:G:H1'	2.33	0.44
1:AA:1265:G:H2'	1:AA:1266:G:O4'	2.17	0.44
1:AA:1496:C:H2'	1:AA:1497:G:C8	2.52	0.44
1:AA:417:C:H2'	1:AA:418:C:O4'	2.18	0.44
1:AA:478:A:H8	1:AA:479:C:H5'	1.82	0.44
1:AA:649:G:O2'	1:AA:650:G:H5'	2.18	0.44
1:AA:792:A:H1'	1:AA:793:U:OP2	2.17	0.44
3:AC:113:ALA:HB3	3:AC:183:ASP:O	2.17	0.44
7:AG:97:GLN:HG3	7:AG:98:SER:H	1.82	0.44
8:AH:111:ILE:HD13	8:AH:120:THR:HG22	2.00	0.44
10:AJ:10:GLY:C	10:AJ:16:LEU:HD11	2.38	0.44
10:AJ:33:GLN:O	10:AJ:33:GLN:HG2	2.16	0.44
1:AA:1061:G:H5''	10:AJ:58:ASP:O	2.02	0.44
10:AJ:83:GLU:HA	10:AJ:86:MET:SD	2.58	0.44
11:AK:51:LYS:HG2	11:AK:55:LYS:NZ	2.32	0.44
13:AM:55:ARG:O	13:AM:59:TYR:HB3	2.18	0.44
13:AM:87:TYR:CD1	13:AM:90:LEU:HB2	2.32	0.44
10:AJ:65:LEU:N	14:AN:56:VAL:HG13	2.32	0.44
1:AA:234:C:H5''	17:AQ:64:PRO:HG3	2.00	0.44
1:AA:108:G:C1'	20:AT:12:ALA:HB2	2.44	0.44
20:AT:11:SER:C	20:AT:13:LEU:H	2.20	0.44
48:B2:58:LEU:HD13	48:B2:59:ALA:N	2.31	0.44
53:B7:109:TRP:CE2	53:B7:156:LEU:HB2	2.52	0.44
53:B7:182:ASN:O	53:B7:186:VAL:HG23	2.17	0.44
53:B7:63:ARG:HG2	53:B7:82:LYS:NZ	2.32	0.44
22:BB:1043:A:H5''	52:B6:24:LEU:O	2.17	0.44
22:BB:1114:A:H2'	22:BB:1115:C:C6	2.51	0.44
22:BB:1148:G:H5''	31:BK:132:PHE:CG	2.51	0.44
22:BB:1490:U:O2	22:BB:1535:C:OP2	2.33	0.44
22:BB:1580:C:H2'	22:BB:1581:C:O4'	2.17	0.44
22:BB:1681:A:H2'	22:BB:1682:A:O4'	2.18	0.44
22:BB:1795:C:O2	24:BD:52:ARG:CG	2.59	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:BB:1908:C:H2'	22:BB:1909:U:C4'	2.46	0.44
22:BB:2192:U:C5'	24:BD:39:LYS:CE	2.91	0.44
22:BB:218:A:O2'	22:BB:219:G:H4'	2.17	0.44
22:BB:2348:A:H2'	22:BB:2349:G:H8	1.82	0.44
22:BB:2491:C:C2	22:BB:2492:G:H1'	2.53	0.44
22:BB:362:C:N4	22:BB:363:G:H21	2.15	0.44
22:BB:428:A:N6	22:BB:2386:G:O6	2.50	0.44
22:BB:4:C:C2	22:BB:2874:A:C6	2.97	0.44
22:BB:643:A:H2'	22:BB:644:A:O4'	2.18	0.44
22:BB:788:G:H5'	22:BB:790:A:C1'	2.47	0.44
22:BB:83:A:N6	42:BV:102:LYS:HZ3	2.12	0.44
22:BB:989:G:H2'	22:BB:990:A:O4'	2.17	0.44
24:BD:63:ARG:CZ	24:BD:87:ASN:HB2	2.47	0.44
25:BE:31:CYS:SG	25:BE:32:PRO:HD2	2.57	0.44
25:BE:4:ILE:HG21	25:BE:48:GLN:HG3	2.00	0.44
22:BB:625:A:N1	26:BF:176:ASN:ND2	2.63	0.44
28:BH:55:PRO:HD2	28:BH:61:HIS:HE2	1.82	0.44
30:BJ:111:LYS:HZ1	30:BJ:115:LEU:HG	1.80	0.44
31:BK:139:ARG:NH1	31:BK:142:ARG:HD2	2.33	0.44
32:BL:11:ALA:CB	32:BL:19:ILE:HG21	2.47	0.44
34:BN:127:PRO:HB2	34:BN:129:GLN:NE2	2.31	0.44
34:BN:9:LYS:HA	34:BN:70:PHE:CZ	2.53	0.44
35:BO:103:ARG:HB3	35:BO:106:ASP:OD2	2.17	0.44
35:BO:45:ARG:O	35:BO:47:PHE:N	2.43	0.44
35:BO:55:ALA:HA	35:BO:80:MET:CE	2.47	0.44
36:BP:38:ILE:HG21	36:BP:67:THR:O	2.18	0.44
22:BB:511:A:N6	40:BT:12:LYS:HD2	2.30	0.44
22:BB:529:U:H5'	40:BT:39:ARG:HD3	1.98	0.44
41:BU:54:SER:HB2	41:BU:79:ILE:HB	1.99	0.44
1:CA:112:G:H1	1:CA:315:A:N6	2.14	0.44
1:CA:137:C:H1'	1:CA:227:G:H22	1.82	0.44
1:CA:1406:U:H2'	1:CA:1407:C:C6	2.53	0.44
1:CA:1511:G:H2'	1:CA:1512:U:C6	2.53	0.44
1:CA:793:U:N3	1:CA:1516:G:H4'	2.30	0.44
1:CA:375:U:H2'	1:CA:376:G:O4'	2.18	0.44
1:CA:50:A:H1'	1:CA:52:G:C5'	2.48	0.44
1:CA:125:U:H1'	1:CA:633:G:H22	1.83	0.44
1:CA:644:G:C1'	8:CH:90:GLY:N	2.66	0.44
1:CA:649:G:O2'	1:CA:650:G:H5'	2.18	0.44
1:CA:716:A:O2'	1:CA:717:C:H5'	2.17	0.44
1:CA:913:A:N6	12:CL:23:LYS:NZ	2.65	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CB:16:HIS:NE2	2:CB:214:ILE:HA	2.33	0.44
3:CC:128:PHE:HB3	3:CC:129:ALA:H	1.65	0.44
4:CD:105:VAL:O	4:CD:110:PHE:HB2	2.16	0.44
4:CD:180:GLY:O	4:CD:182:LYS:HG3	2.18	0.44
4:CD:85:LYS:HD3	4:CD:88:VAL:O	2.17	0.44
6:CF:46:ARG:HH12	18:CR:35:ARG:HH11	1.64	0.44
10:CJ:78:ASN:O	10:CJ:79:ARG:C	2.56	0.44
12:CL:92:ASP:OD1	12:CL:93:LEU:HG	2.18	0.44
15:CO:8:LYS:HA	15:CO:11:VAL:HG23	2.00	0.44
48:D2:45:ILE:HG23	48:D2:51:TYR:N	2.33	0.44
53:D7:174:MSE:HG2	53:D7:175:LYS:CD	2.48	0.44
22:DB:1006:C:H42	31:DK:30:LYS:NZ	2.15	0.44
22:DB:1077:U:H3'	22:DB:1078:A:H5''	1.99	0.44
22:DB:1291:G:H5'	35:DO:35:GLN:H	1.82	0.44
22:DB:1376:C:H2'	22:DB:1377:G:C8	2.47	0.44
22:DB:155:G:H2'	22:DB:156:G:C8	2.53	0.44
22:DB:1481:U:C4'	22:DB:1561:A:N6	2.74	0.44
22:DB:1889:G:OP1	22:DB:1913:G:C8	2.67	0.44
22:DB:1982:C:H4'	22:DB:2702:G:N2	2.30	0.44
22:DB:1999:U:H2'	22:DB:2000:U:C6	2.52	0.44
22:DB:2321:C:H2'	22:DB:2322:U:O4'	2.17	0.44
22:DB:2713:A:H61	25:DE:203:LYS:CB	2.08	0.44
22:DB:2797:G:H21	22:DB:2798:A:H4'	1.82	0.44
22:DB:309:G:P	42:DV:93:ARG:CD	2.86	0.44
22:DB:106:G:H1'	22:DB:357:A:C2	2.53	0.44
22:DB:389:G:H2'	22:DB:390:U:C6	2.52	0.44
22:DB:573:C:O2'	22:DB:574:C:H5'	2.18	0.44
22:DB:796:A:H8	22:DB:797:A:H4'	1.83	0.44
24:DD:222:ARG:HH11	24:DD:222:ARG:HG2	1.82	0.44
25:DE:167:VAL:HG21	25:DE:170:LEU:HD11	1.99	0.44
25:DE:26:VAL:CB	37:DQ:3:THR:HG23	2.32	0.44
25:DE:82:ARG:HD3	25:DE:83:GLY:N	2.32	0.44
26:DF:116:LYS:HE3	26:DF:116:LYS:H	1.83	0.44
26:DF:87:LYS:HG3	26:DF:88:PRO:CD	2.48	0.44
28:DH:76:VAL:HB	28:DH:77:LYS:NZ	2.32	0.44
32:DL:9:ASP:OD2	32:DL:10:VAL:HG22	2.17	0.44
22:DB:2628:C:C2'	32:DL:29:ILE:HD13	2.42	0.44
34:DN:55:MET:HA	34:DN:55:MET:CE	2.48	0.44
35:DO:79:VAL:HG13	35:DO:80:MET:SD	2.57	0.44
39:DS:62:GLU:OE2	39:DS:96:LEU:HD12	2.17	0.44
1:EA:1089:G:H2'	1:EA:1090:U:C6	2.52	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:EA:1265:G:H2'	1:EA:1266:G:O4'	2.17	0.44
1:EA:1349:A:OP1	9:EI:121:ARG:HG2	2.15	0.44
1:EA:1514:C:O2'	1:EA:1515:C:H5'	2.17	0.44
1:EA:197:A:C4	1:EA:221:C:H4'	2.53	0.44
1:EA:279:A:C2	17:EQ:97:SER:C	2.85	0.44
1:EA:375:U:H2'	1:EA:376:G:O4'	2.18	0.44
1:EA:520:A:H4'	12:EL:73:GLU:C	2.38	0.44
1:EA:643:C:H2'	8:EH:132:GLU:OE1	2.17	0.44
2:EB:74:LYS:HG2	2:EB:205:ASP:O	2.16	0.44
3:EC:12:LEU:N	3:EC:16:ARG:HB3	2.31	0.44
3:EC:12:LEU:HD23	3:EC:16:ARG:HG3	2.00	0.44
3:EC:65:ALA:HB1	3:EC:102:ASN:ND2	2.32	0.44
4:ED:105:VAL:O	4:ED:110:PHE:HB2	2.16	0.44
5:EE:89:ILE:HD13	5:EE:90:VAL:H	1.83	0.44
1:EA:653:A:C6	8:EH:27:PRO:CG	2.69	0.44
1:EA:878:G:P	8:EH:88:LYS:HG2	2.58	0.44
1:EA:645:C:P	8:EH:92:ARG:NH2	2.91	0.44
9:EI:28:VAL:HB	9:EI:31:GLN:O	2.17	0.44
12:EL:83:VAL:HB	12:EL:107:ALA:CB	2.46	0.44
13:EM:56:LEU:HA	13:EM:60:VAL:CG2	2.48	0.44
16:EP:8:ARG:HE	16:EP:15:PRO:HB3	1.82	0.44
1:EA:237:C:C5'	17:EQ:27:PHE:HZ	2.30	0.44
19:ES:36:ARG:HB2	19:ES:72:GLY:CA	2.48	0.44
22:FB:643:A:OP1	51:F5:15:LYS:HG2	2.18	0.44
51:F5:61:MET:O	51:F5:62:LEU:HG	2.17	0.44
22:FB:3866:A:C6	53:F7:196:VAL:HG12	2.52	0.44
22:FB:1166:A:HO2'	22:FB:1167:A:H8	1.61	0.44
22:FB:1288:A:H2	35:FO:16:ALA:CA	2.31	0.44
22:FB:1399:C:O2'	22:FB:1484:G:N2	2.47	0.44
22:FB:3196:G:H1	22:FB:2204:A:N6	2.16	0.44
22:FB:2283:G:O2'	27:FG:131:GLY:N	2.50	0.44
22:FB:2575:U:H2'	22:FB:2576:G:C8	2.53	0.44
22:FB:2617:G:N3	22:FB:2617:G:C2'	2.78	0.44
22:FB:2715:C:H42	22:FB:2749:A:N6	2.16	0.44
22:FB:4:C:N4	22:FB:2874:A:N6	2.66	0.44
22:FB:295:C:H42	22:FB:368:A:H61	1.64	0.44
22:FB:389:G:H2'	22:FB:390:U:C6	2.52	0.44
22:FB:609:U:H2'	22:FB:610:G:H8	1.82	0.44
22:FB:625:A:C2	22:FB:626:A:H1'	2.52	0.44
22:FB:643:A:H2'	22:FB:644:A:O4'	2.18	0.44
22:FB:788:G:H5'	22:FB:790:A:Cl'	2.47	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:FB:832:A:C2	22:FB:953:G:H1'	2.52	0.44
24:FD:166:GLN:HB2	24:FD:174:ILE:HA	1.98	0.44
24:FD:252:LYS:N	24:FD:253:PRO:CD	2.80	0.44
24:FD:43:ARG:HG3	24:FD:60:ARG:HB2	2.00	0.44
22:FB:2032:G:N2	25:FE:154:LYS:HZ3	2.15	0.44
27:FG:113:ASP:O	27:FG:115:ARG:HG3	2.17	0.44
27:FG:125:ARG:HB2	27:FG:127:ASN:HD21	1.79	0.44
27:FG:25:VAL:O	27:FG:26:MET:HG3	2.18	0.44
28:FH:25:LYS:HZ3	28:FH:32:GLU:HA	1.83	0.44
22:FB:3094:A:H5''	29:FI:20:VAL:HG11	1.02	0.44
31:FK:31:THR:HB	31:FK:71:THR:OG1	2.17	0.44
32:FL:83:ARG:HD3	32:FL:85:ASP:CB	2.48	0.44
34:FN:44:LYS:O	34:FN:46:ASN:N	2.46	0.44
34:FN:48:ILE:HA	34:FN:51:CYS:HB2	2.00	0.44
35:FO:79:VAL:HG13	35:FO:80:MET:SD	2.57	0.44
38:FR:59:ARG:O	38:FR:60:LEU:HD22	2.17	0.44
22:FB:73:A:C4'	45:FY:44:ARG:NH2	2.73	0.44
1:GA:1091:U:OP1	1:GA:1172:C:H4'	2.18	0.44
1:GA:1126:U:H2'	1:GA:1127:G:O4'	2.18	0.44
1:GA:1226:C:H4'	1:GA:1227:A:OP1	2.17	0.44
1:GA:1406:U:H2'	1:GA:1407:C:C6	2.52	0.44
1:GA:197:A:C4	1:GA:221:C:H4'	2.52	0.44
1:GA:6:G:H4'	1:GA:298:A:O4'	2.18	0.44
1:GA:720:C:H5''	18:GR:52:PRO:CG	2.32	0.44
1:GA:942:G:H2'	1:GA:943:U:C6	2.51	0.44
2:GB:171:ALA:O	2:GB:174:VAL:HB	2.18	0.44
2:GB:32:ILE:HG22	2:GB:33:TYR:N	2.33	0.44
3:GC:113:ALA:HB3	3:GC:183:ASP:O	2.17	0.44
3:GC:65:ALA:HB1	3:GC:102:ASN:ND2	2.32	0.44
5:GE:104:ALA:HA	5:GE:107:ARG:NH1	2.33	0.44
8:GH:11:THR:HA	8:GH:14:ARG:NH1	2.32	0.44
8:GH:3:THR:HG23	8:GH:4:ASP:N	2.31	0.44
12:GL:41:ARG:CG	12:GL:42:THR:H	2.30	0.44
16:GP:8:ARG:HE	16:GP:15:PRO:HB3	1.82	0.44
1:GA:719:C:C2'	18:GR:49:LYS:HA	2.47	0.44
22:HB:2791:C:C1'	48:H2:43:HIS:HB2	2.46	0.44
53:H7:109:TRP:CE2	53:H7:156:LEU:HB2	2.52	0.44
22:HB:1256:C:H5''	33:HM:17:LYS:HZ3	1.83	0.44
22:HB:1580:C:H2'	22:HB:1581:C:O4'	2.18	0.44
22:HB:1932:G:H2'	22:HB:1933:G:H8	1.83	0.44
22:HB:1999:U:H2'	22:HB:2000:U:C6	2.52	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:HB:2028:C:H2'	22:HB:2029:G:C8	2.53	0.44
22:HB:2029:G:H4'	48:H2:19:ARG:HA	2.00	0.44
22:HB:215:G:O4'	22:HB:618:A:C4'	2.66	0.44
22:HB:2402:U:C4	49:H3:3:LYS:CG	3.00	0.44
22:HB:2491:C:C2	22:HB:2492:G:H1'	2.53	0.44
22:HB:2526:U:H2'	22:HB:2527:G:C8	2.49	0.44
22:HB:2529:G:C6	22:HB:2538:C:N4	2.85	0.44
22:HB:2564:U:O2'	22:HB:2565:C:H5''	2.18	0.44
22:HB:2823:G:H5''	37:HQ:103:LYS:HE3	2.00	0.44
22:HB:2862:G:O4'	48:H2:31:THR:HA	2.18	0.44
22:HB:7:G:C2	22:HB:2870:C:O2	2.67	0.44
22:HB:3130:G:H1'	22:HB:3159:G:N2	2.32	0.44
22:HB:3876:A:H3'	22:HB:3877:A:O4'	2.17	0.44
22:HB:497:C:O2	40:HT:77:ALA:CB	2.43	0.44
22:HB:236:C:C1'	22:HB:632:A:C1'	2.61	0.44
22:HB:788:G:H4'	22:HB:789:G:H4'	2.00	0.44
22:HB:800:U:OP1	22:HB:801:A:H5'	2.17	0.44
22:HB:821:A:H2'	22:HB:822:G:C8	2.53	0.44
22:HB:840:U:H3'	22:HB:2409:A:N6	2.24	0.44
22:HB:915:C:H2'	22:HB:916:U:C6	2.52	0.44
24:HD:47:GLY:O	24:HD:48:ARG:HB2	2.18	0.44
28:HH:141:VAL:HG23	28:HH:142:GLY:N	2.32	0.44
30:HJ:28:GLY:O	30:HJ:34:ILE:HD11	2.18	0.44
33:HM:122:VAL:HG22	33:HM:124:ALA:N	2.33	0.44
22:HB:596:C:P	33:HM:29:THR:HB	2.57	0.44
34:HN:30:PHE:CE2	34:HN:101:GLY:HA3	2.52	0.44
35:HO:103:ARG:HB3	35:HO:106:ASP:OD2	2.17	0.44
35:HO:76:VAL:HG13	35:HO:77:ARG:N	2.32	0.44
43:HW:141:MET:HB2	43:HW:171:VAL:HG13	2.00	0.44
22:HB:934:G:O2'	44:HX:26:PHE:HD2	1.99	0.44
1:IA:1021:G:H2'	1:IA:1022:G:H4'	1.99	0.44
1:IA:1126:U:H2'	1:IA:1127:G:O4'	2.18	0.44
1:IA:1133:G:N1	1:IA:1134:G:H1'	2.33	0.44
1:IA:1152:A:H2'	1:IA:1153:C:C6	2.53	0.44
1:IA:125:U:C4'	1:IA:605:U:HO2'	2.30	0.44
1:IA:1358:U:H2'	1:IA:1359:C:O4'	2.18	0.44
1:IA:1347:G:N2	1:IA:1373:G:H2'	2.33	0.44
1:IA:1497:G:H2'	1:IA:1498:U:C6	2.52	0.44
1:IA:160:A:N1	1:IA:343:U:H1'	2.32	0.44
1:IA:16:A:HO2'	5:IE:16:THR:HB	1.81	0.44
1:IA:197:A:H4'	1:IA:198:G:O5'	2.16	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:IA:323:U:O3'	20:IT:15:ARG:NH2	2.51	0.44
1:IA:494:G:O2'	1:IA:495:U:H5'	2.17	0.44
1:IA:658:G:H4'	15:IO:22:THR:HA	1.64	0.44
1:IA:719:C:H3'	1:IA:720:C:C5	2.52	0.44
1:IA:796:C:H2'	1:IA:797:C:C6	2.53	0.44
1:IA:861:G:H2'	1:IA:862:C:O4'	2.17	0.44
1:IA:953:G:O3'	13:IM:124:PRO:CD	2.65	0.44
7:IG:119:ARG:O	7:IG:123:GLU:HB2	2.17	0.44
7:IG:43:PHE:C	7:IG:45:ASP:H	2.21	0.44
1:IA:600:C:C5'	8:IH:97:VAL:HG21	2.46	0.44
10:IJ:83:GLU:HA	10:IJ:86:MET:SD	2.58	0.44
10:IJ:96:ILE:HG22	10:IJ:97:GLU:N	2.33	0.44
11:IK:105:VAL:HG12	11:IK:106:LYS:N	2.32	0.44
12:IL:92:ASP:OD1	12:IL:93:LEU:HG	2.18	0.44
14:IN:39:LEU:HD22	14:IN:44:LEU:CB	2.48	0.44
15:IO:9:GLN:HA	15:IO:12:ILE:HD12	1.99	0.44
20:IT:96:GLY:O	20:IT:97:ALA:HB3	2.18	0.44
47:J1:41:PRO:HB2	47:J1:57:ASP:C	2.38	0.44
53:J7:208:THR:HG22	53:J7:209:MSE:HG3	1.99	0.44
22:JB:3167:U:H4'	53:J7:97:LYS:HZ1	1.81	0.44
22:JB:1047:G:H2'	22:JB:1048:U:C5'	2.47	0.44
22:JB:1080:A:H5''	22:JB:1081:A:O5'	2.18	0.44
22:JB:119:G:H2'	22:JB:120:G:H8	1.83	0.44
22:JB:1226:A:N6	22:JB:1249:G:H21	2.16	0.44
22:JB:1851:A:H3'	22:JB:1852:G:H8	1.83	0.44
22:JB:2206:C:O2'	24:JD:262:LYS:HE2	2.17	0.44
22:JB:2564:U:O2'	22:JB:2565:C:H5''	2.18	0.44
22:JB:3123:G:OP1	53:J7:108:GLU:HA	2.09	0.44
22:JB:3175:C:O2'	53:J7:31:GLU:HB3	2.18	0.44
22:JB:3176:A:O5'	53:J7:33:ILE:HD11	1.94	0.44
22:JB:3876:A:H3'	22:JB:3877:A:O4'	2.17	0.44
22:JB:821:A:H2'	22:JB:822:G:C8	2.53	0.44
22:JB:840:U:H3'	22:JB:2409:A:N6	2.24	0.44
22:JB:857:U:C2'	22:JB:858:G:OP1	2.66	0.44
22:JB:858:G:H5''	22:JB:859:U:H5'	1.99	0.44
22:JB:66:U:N3	22:JB:87:G:C2	2.86	0.44
22:JB:984:A:H1'	22:JB:1201:G:H21	1.83	0.44
22:JB:1781:C:OP2	24:JD:222:ARG:NH1	2.49	0.44
25:JE:167:VAL:HG21	25:JE:170:LEU:HD11	1.98	0.44
25:JE:2:LYS:HB3	25:JE:3:GLY:H	1.50	0.44
26:JF:169:VAL:O	26:JF:171:PRO:HD3	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:JG:33:LYS:C	27:JG:34:ILE:HD13	2.38	0.44
28:JH:50:LEU:HD22	28:JH:50:LEU:N	2.33	0.44
30:JJ:111:LYS:HD3	30:JJ:123:ALA:C	2.38	0.44
32:JL:112:GLY:O	32:JL:131:PRO:HB2	2.17	0.44
33:JM:114:ILE:HB	33:JM:135:ALA:HB1	1.98	0.44
22:JB:634:G:H8	33:JM:98:LEU:CD2	2.28	0.44
43:JW:10:PRO:O	43:JW:14:LEU:HD23	2.17	0.44
1:AA:1001:A:N6	1:AA:1039:C:H42	2.16	0.44
1:AA:1130:A:H5'	9:AI:18:PHE:CB	2.46	0.44
1:AA:1221:G:H5'	19:AS:36:ARG:NH1	2.33	0.44
1:AA:1281:U:HO2'	1:AA:1282:C:P	2.40	0.44
1:AA:1349:A:N1	7:AG:34:GLY:CA	2.81	0.44
1:AA:375:U:H2'	1:AA:376:G:O4'	2.18	0.44
1:AA:716:A:O2'	1:AA:717:C:H5'	2.17	0.44
1:AA:8:A:H1'	5:AE:104:ALA:N	2.33	0.44
4:AD:110:PHE:HA	4:AD:161:ASN:HB2	2.00	0.44
5:AE:130:ASN:HA	5:AE:133:TYR:CE1	2.53	0.44
6:AF:16:GLN:HE21	6:AF:20:ALA:HB2	1.83	0.44
6:AF:42:GLU:HG2	6:AF:44:GLY:N	2.30	0.44
9:AI:56:LEU:O	9:AI:58:ARG:N	2.50	0.44
15:AO:79:ARG:HA	15:AO:82:ILE:HD12	2.00	0.44
47:B1:42:PHE:HB3	47:B1:43:TRP:H	1.65	0.44
22:BB:1999:U:O2	48:B2:7:PRO:HG2	2.18	0.44
23:BA:93:G:H5'	34:BN:22:ALA:HB1	1.99	0.44
22:BB:1135:C:O2'	52:B6:36:GLN:HB3	2.15	0.44
22:BB:1148:G:C4'	31:BK:133:GLY:CA	2.91	0.44
22:BB:1021:A:H1'	22:BB:1164:C:H1'	2.00	0.44
22:BB:1004:A:H61	22:BB:1172:U:H3	1.65	0.44
22:BB:1454:U:H2'	22:BB:1455:C:H6	1.83	0.44
22:BB:3877:A:N6	22:BB:1862:C:N4	2.66	0.44
22:BB:1999:U:H2'	22:BB:2000:U:C6	2.52	0.44
22:BB:2277:A:H2'	22:BB:2278:A:H5'	1.99	0.44
22:BB:2432:A:H1'	22:BB:2551:A:C1'	2.26	0.44
22:BB:2475:C:C2'	22:BB:2476:A:H5'	2.47	0.44
22:BB:2557:G:H1'	25:BE:133:LYS:HD3	0.62	0.44
22:BB:2599:U:C1'	25:BE:156:MET:CB	2.83	0.44
22:BB:2634:G:N2	22:BB:2642:G:N7	2.66	0.44
22:BB:2797:G:H21	22:BB:2798:A:H4'	1.82	0.44
22:BB:295:C:H42	22:BB:368:A:H61	1.64	0.44
22:BB:3113:U:H2'	22:BB:3114:A:O4'	2.17	0.44
22:BB:3127:G:H4'	53:B7:24:ARG:HH11	1.78	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:BB:389:G:H2'	22:BB:390:U:C6	2.52	0.44
22:BB:796:A:H8	22:BB:797:A:H4'	1.83	0.44
22:BB:875:G:H2'	22:BB:876:A:H8	1.77	0.44
22:BB:903:G:H5''	22:BB:904:U:H5	1.83	0.44
22:BB:891:A:C6	22:BB:909:C:C2	3.02	0.44
22:BB:857:U:O2'	22:BB:946:U:H1'	2.18	0.44
24:BD:27:LYS:HB3	24:BD:27:LYS:NZ	2.31	0.44
25:BE:154:LYS:HZ3	25:BE:156:MET:CB	2.31	0.44
26:BF:58:MET:CG	26:BF:69:HIS:HB3	2.44	0.44
34:BN:98:VAL:HG22	34:BN:99:LYS:H	1.82	0.44
37:BQ:100:ARG:HD3	37:BQ:100:ARG:N	2.33	0.44
37:BQ:40:ARG:HG2	37:BQ:90:GLN:HA	2.00	0.44
38:BR:42:ALA:O	38:BR:46:GLU:HG2	2.18	0.44
44:BX:49:GLN:HB2	44:BX:73:GLY:HA3	2.00	0.44
1:CA:1001:A:N6	1:CA:1039:C:H42	2.15	0.44
2:CB:42:ILE:HG22	2:CB:43:ASP:N	2.33	0.44
1:CA:1108:G:O5'	3:CC:176:HIS:HB2	2.17	0.44
1:CA:1205:U:C4'	3:CC:195:VAL:CG2	2.96	0.44
4:CD:61:LYS:HZ3	4:CD:62:GLN:HE21	1.65	0.44
4:CD:78:LEU:HB2	4:CD:93:PHE:CZ	2.53	0.44
6:CF:37:VAL:HG12	6:CF:38:GLU:N	2.32	0.44
1:CA:1147:C:H4'	9:CI:5:TYR:OH	2.18	0.44
11:CK:45:GLY:HA2	11:CK:63:LEU:O	2.17	0.44
13:CM:12:ASN:HA	13:CM:46:LYS:HZ1	1.82	0.44
13:CM:89:GLY:CA	13:CM:90:LEU:C	2.86	0.44
1:CA:659:U:OP1	15:CO:4:THR:C	2.56	0.44
19:CS:11:VAL:HG22	19:CS:39:THR:HB	2.00	0.44
47:D1:5:LEU:HB3	47:D1:56:VAL:O	2.16	0.44
51:D5:34:THR:HA	51:D5:36:LYS:HZ1	1.82	0.44
51:D5:50:LEU:HD23	51:D5:52:LYS:NZ	2.32	0.44
22:DB:874:A:C2'	23:DA:81:C:H4'	2.47	0.44
22:DB:1033:G:N7	31:DK:94:LYS:HD2	2.32	0.44
22:DB:1021:A:H1'	22:DB:1164:C:H1'	1.99	0.44
22:DB:1381:G:P	50:D4:25:LYS:HG3	2.58	0.44
22:DB:1509:A:N1	22:DB:2190:A:N3	2.66	0.44
22:DB:1580:C:H2'	22:DB:1581:C:O4'	2.18	0.44
22:DB:16:G:C4'	48:D2:17:ASP:HB3	2.47	0.44
22:DB:1835:C:H4'	24:DD:255:LYS:CE	2.48	0.44
22:DB:191:G:H2'	22:DB:192:G:C4'	2.48	0.44
22:DB:201:G:H2'	22:DB:202:A:H8	1.83	0.44
22:DB:2475:C:C2'	22:DB:2476:A:H5'	2.47	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:DB:2492:G:C8	22:DB:2493:U:C4	3.06	0.44
22:DB:2575:U:H2'	22:DB:2576:G:C8	2.53	0.44
22:DB:2617:G:N3	22:DB:2617:G:C2'	2.78	0.44
22:DB:2617:G:O6	22:DB:2755:A:H2'	2.17	0.44
24:DD:43:ARG:NH1	24:DD:60:ARG:HD2	2.33	0.44
25:DE:11:MET:CE	25:DE:12:THR:H	2.20	0.44
25:DE:59:VAL:CG1	25:DE:61:LYS:HG3	2.46	0.44
30:DJ:111:LYS:HD3	30:DJ:123:ALA:C	2.38	0.44
22:DB:2464:G:C8	34:DN:120:ARG:NH1	2.68	0.44
36:DP:8:ARG:HH12	36:DP:9:ARG:HE	1.66	0.44
43:DW:70:GLN:NE2	43:DW:81:VAL:HG22	2.33	0.44
1:EA:112:G:H1	1:EA:315:A:N6	2.14	0.44
1:EA:1320:C:H5	19:ES:37:ARG:HG2	1.83	0.44
1:EA:1328:C:OP1	13:EM:28:ALA:HB2	2.17	0.44
1:EA:1415:G:H2'	1:EA:1416:G:H8	1.82	0.44
1:EA:66:G:H5'	1:EA:198:G:N2	2.32	0.44
1:EA:403:C:OP1	4:ED:137:SER:CB	2.63	0.44
1:EA:417:C:H2'	1:EA:418:C:O4'	2.18	0.44
1:EA:494:G:O2'	1:EA:495:U:H5'	2.17	0.44
1:EA:632:A:C2'	17:EQ:30:PRO:CB	2.96	0.44
1:EA:792:A:H1'	1:EA:793:U:OP2	2.17	0.44
1:EA:8:A:C2	4:ED:209:ARG:HG2	2.52	0.44
2:EB:90:MET:SD	2:EB:90:MET:N	2.91	0.44
7:EG:16:LEU:CG	9:EI:41:VAL:CA	2.95	0.44
7:EG:35:LYS:HE2	7:EG:38:LEU:N	2.32	0.44
8:EH:111:ILE:HD13	8:EH:120:THR:HG22	2.00	0.44
10:EJ:23:ILE:HG23	10:EJ:85:LEU:HD13	1.99	0.44
11:EK:31:THR:O	11:EK:32:ILE:HD13	2.17	0.44
11:EK:34:ASP:HB2	11:EK:35:PRO:CD	2.48	0.44
15:EO:33:THR:HA	15:EO:36:ILE:CD1	2.47	0.44
16:EP:8:ARG:NH2	16:EP:15:PRO:HB3	2.32	0.44
16:EP:20:VAL:HG22	16:EP:32:TYR:CZ	2.53	0.44
19:ES:11:VAL:HG22	19:ES:39:THR:HB	2.00	0.44
47:F1:30:GLU:HG2	47:F1:30:GLU:H	1.54	0.44
22:FB:641:G:C8	51:F5:15:LYS:HG3	2.52	0.44
22:FB:222:G:C6	51:F5:4:MET:SD	2.96	0.44
22:FB:1041:G:N2	52:F6:6:SER:H	2.15	0.44
23:FA:7:C:N3	23:FA:118:G:N1	2.66	0.44
23:FA:97:C:OP2	43:FW:11:LYS:CE	2.66	0.44
22:FB:1134:C:H2'	22:FB:1135:C:C6	2.52	0.44
22:FB:1021:A:H1'	22:FB:1164:C:H1'	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:FB:1678:G:H2'	22:FB:1679:U:C6	2.53	0.44
22:FB:1829:C:HO2'	22:FB:1910:A:C1'	2.30	0.44
22:FB:1828:C:C2'	22:FB:1911:A:O3'	2.65	0.44
22:FB:1910:A:H2'	22:FB:1911:A:O4'	2.18	0.44
22:FB:1762:C:H4'	22:FB:1921:A:C5	2.52	0.44
22:FB:2044:G:H4'	22:FB:2045:A:C5	2.53	0.44
22:FB:819:C:H1'	22:FB:2423:G:O2'	2.18	0.44
22:FB:198:A:H2'	22:FB:244:C:N4	2.33	0.44
22:FB:2810:A:N7	37:FQ:6:LYS:CE	2.78	0.44
22:FB:1742:G:HO2'	22:FB:2836:U:C4'	2.30	0.44
22:FB:2701:A:N7	22:FB:2848:A:C6	2.85	0.44
22:FB:3175:C:O2	53:F7:31:GLU:CD	2.54	0.44
22:FB:367:G:H2'	22:FB:368:A:C8	2.52	0.44
22:FB:548:G:O2'	31:FK:33:ILE:CG2	2.56	0.44
22:FB:64:C:H5'	41:FU:71:GLN:OE1	2.18	0.44
22:FB:756:C:H5''	25:FE:130:GLY:CA	2.47	0.44
25:FE:44:TYR:HB2	25:FE:82:ARG:HG2	2.00	0.44
25:FE:29:GLY:CA	25:FE:90:SER:H	2.28	0.44
26:FF:173:ALA:HB1	26:FF:193:LEU:HD22	1.99	0.44
26:FF:87:LYS:HG3	26:FF:88:PRO:CD	2.48	0.44
27:FG:106:ILE:HG13	27:FG:107:GLY:H	1.82	0.44
22:FB:2283:G:C4'	27:FG:130:LEU:HD22	2.48	0.44
22:FB:2292:C:C4'	27:FG:88:LYS:HD3	2.47	0.44
28:FH:55:PRO:HD2	28:FH:61:HIS:HE2	1.82	0.44
33:FM:7:LYS:N	33:FM:8:PRO:CD	2.79	0.44
22:FB:2464:G:P	34:FN:47:GLN:NE2	2.87	0.44
23:FA:78:A:H5''	43:FW:13:LYS:HD2	1.37	0.44
1:GA:1152:A:H2'	1:GA:1153:C:C6	2.53	0.44
1:GA:1358:U:H2'	1:GA:1359:C:O4'	2.17	0.44
1:GA:1347:G:N2	1:GA:1373:G:H2'	2.33	0.44
1:GA:137:C:H1'	1:GA:227:G:H22	1.83	0.44
1:GA:17:U:O2'	1:GA:1079:G:O2'	2.31	0.44
1:GA:447:G:H1'	1:GA:487:A:N6	2.32	0.44
1:GA:448:A:H2'	1:GA:449:C:H5'	2.00	0.44
1:GA:616:G:H2'	1:GA:617:G:H8	1.81	0.44
1:GA:719:C:H3'	1:GA:720:C:C5	2.53	0.44
1:GA:13:U:O2	1:GA:914:A:C2'	2.66	0.44
2:GB:42:ILE:HG22	2:GB:43:ASP:N	2.33	0.44
3:GC:184:TYR:OH	3:GC:198:VAL:HB	2.17	0.44
1:GA:1191:A:OP1	3:GC:3:ASN:HB2	2.17	0.44
1:GA:509:A:C4	4:GD:54:TYR:HE2	2.36	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:GE:35:GLY:HA3	5:GE:41:VAL:HG12	1.99	0.44
7:GG:31:MET:HE3	7:GG:34:GLY:HA2	1.99	0.44
1:GA:1373:G:C4'	7:GG:34:GLY:C	2.85	0.44
10:GJ:96:ILE:HG22	10:GJ:97:GLU:N	2.33	0.44
13:GM:37:THR:HG22	13:GM:55:ARG:HE	1.81	0.44
13:GM:84:ILE:CG2	19:GS:65:ASN:HB2	2.47	0.44
15:GO:62:GLN:NE2	15:GO:66:LEU:HG	2.32	0.44
15:GO:70:LEU:C	15:GO:78:TYR:HB2	2.38	0.44
1:GA:251:G:H2'	17:GQ:67:LYS:HZ1	1.83	0.44
1:GA:720:C:O4'	18:GR:50:ILE:O	2.35	0.44
19:GS:33:THR:HB	19:GS:51:VAL:HG13	1.99	0.44
19:GS:63:THR:H	19:GS:66:MET:CG	2.30	0.44
19:GS:63:THR:HG22	19:GS:64:GLU:H	1.82	0.44
47:H1:10:VAL:N	47:H1:11:PRO:CD	2.80	0.44
22:HB:1501:C:O2'	22:HB:1502:G:H5'	2.17	0.44
22:HB:1542:G:C2'	22:HB:1560:A:H61	2.25	0.44
22:HB:1579:G:H2'	22:HB:1580:C:C6	2.52	0.44
22:HB:1585:A:H1'	24:HD:60:ARG:NH1	2.30	0.44
22:HB:1681:A:H2'	22:HB:1682:A:O4'	2.18	0.44
22:HB:199:A:C2	22:HB:201:G:H1'	2.52	0.44
22:HB:221:A:H4'	33:HM:68:VAL:CA	2.47	0.44
22:HB:1681:A:H2	22:HB:2706:U:C1'	2.26	0.44
22:HB:2795:A:H5'	22:HB:2796:A:N7	2.33	0.44
22:HB:425:A:N6	22:HB:2391:A:O4'	2.51	0.44
22:HB:458:G:H5'	22:HB:461:A:H1'	1.99	0.44
22:HB:628:A:H2'	22:HB:629:C:H5'	2.00	0.44
22:HB:681:A:P	33:HM:48:PHE:CE1	3.11	0.44
22:HB:6:A:H5'	31:HK:162:LYS:HZ1	1.83	0.44
22:HB:758:G:O2'	40:HT:111:ARG:CD	2.66	0.44
22:HB:858:G:H5''	22:HB:859:U:H5'	1.99	0.44
22:HB:903:G:H5''	22:HB:904:U:H5	1.83	0.44
22:HB:930:A:H2'	22:HB:931:G:H5'	1.98	0.44
22:HB:979:A:H2'	22:HB:980:G:C8	2.53	0.44
24:HD:257:LEU:HD22	24:HD:258:LYS:HG2	1.99	0.44
25:HE:4:ILE:HG21	25:HE:48:GLN:HG3	2.00	0.44
22:HB:811:G:C6	26:HF:56:ARG:NH1	2.85	0.44
32:HL:83:ARG:HD3	32:HL:85:ASP:CB	2.48	0.44
22:HB:1217:U:O2	33:HM:14:LYS:NZ	2.51	0.44
22:HB:824:U:C3'	33:HM:33:GLY:HA3	2.48	0.44
22:HB:2464:G:C4'	34:HN:123:GLY:H	2.27	0.44
36:HP:38:ILE:HG21	36:HP:67:THR:O	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:HP:83:GLY:O	36:HP:84:ILE:HB	2.17	0.44
37:HQ:28:ARG:HG3	37:HQ:30:GLY:H	1.82	0.44
38:HR:28:ARG:HA	38:HR:31:GLN:HG3	1.98	0.44
22:HB:1336:G:C4'	40:HT:103:LEU:HG	2.46	0.44
40:HT:55:ASP:N	40:HT:58:ARG:HB3	2.33	0.44
45:HY:54:ASN:C	45:HY:57:LYS:HB3	2.38	0.44
1:IA:1171:G:H2'	1:IA:1172:C:H5	1.80	0.44
1:IA:1205:U:H5''	3:IC:190:ARG:NH2	2.32	0.44
1:IA:1372:U:H2'	1:IA:1373:G:O4'	2.18	0.44
1:IA:1511:G:H2'	1:IA:1512:U:C6	2.53	0.44
1:IA:77:C:H2'	1:IA:78:G:O4'	2.18	0.44
1:IA:1107:C:C4'	3:IC:150:LYS:HZ1	2.24	0.44
4:ID:110:PHE:HA	4:ID:161:ASN:HB2	2.00	0.44
4:ID:78:LEU:HB2	4:ID:93:PHE:CZ	2.53	0.44
7:IG:31:MET:HE3	7:IG:34:GLY:HA2	1.99	0.44
1:IA:827:U:H5'	8:IH:15:ASN:HB3	1.98	0.44
9:II:110:GLU:OE2	9:II:119:ALA:HB1	2.17	0.44
10:IJ:12:ASP:O	10:IJ:15:THR:HG22	2.16	0.44
11:IK:48:ILE:HG22	11:IK:49:GLY:N	2.33	0.44
11:IK:58:PRO:HB2	11:IK:93:GLN:HG2	1.99	0.44
12:IL:6:THR:N	12:IL:9:GLN:HG3	2.33	0.44
13:IM:37:THR:CG2	13:IM:55:ARG:HE	2.31	0.44
15:IO:62:GLN:NE2	15:IO:66:LEU:HG	2.32	0.44
16:IP:45:THR:HB	16:IP:46:PRO:HD2	2.00	0.44
20:IT:35:THR:HA	20:IT:38:LYS:HE3	2.00	0.44
47:J1:58:LYS:C	47:J1:60:ASN:H	2.21	0.44
22:JB:477:A:P	50:J4:16:HIS:ND1	2.89	0.44
22:JB:474:G:H3'	50:J4:5:TYR:CG	2.51	0.44
23:JA:14:C:N4	44:JX:51:VAL:C	2.71	0.44
22:JB:1012:A:H2'	22:JB:1013:G:O4'	2.18	0.44
22:JB:1001:A:O4'	22:JB:1168:G:OP2	2.36	0.44
22:JB:50:G:N2	22:JB:117:A:N9	2.66	0.44
22:JB:167:A:H2'	22:JB:168:A:O4'	2.18	0.44
22:JB:1681:A:H2'	22:JB:1682:A:O4'	2.18	0.44
22:JB:1999:U:H2'	22:JB:2000:U:C6	2.52	0.44
22:JB:199:A:C2	22:JB:201:G:H1'	2.52	0.44
22:JB:2028:C:H2'	22:JB:2029:G:C8	2.53	0.44
22:JB:2184:C:H2'	22:JB:2185:U:C6	2.53	0.44
22:JB:1385:C:C4'	22:JB:2192:U:O4	2.65	0.44
22:JB:2526:U:H2'	22:JB:2527:G:C8	2.50	0.44
22:JB:2714:A:H1'	25:JE:205:SER:HB3	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:JB:628:A:H2'	22:JB:629:C:H5'	2.00	0.44
22:JB:985:G:OP2	39:JS:80:TYR:HD2	1.98	0.44
22:JB:999:A:H4'	22:JB:1166:A:N1	2.33	0.44
24:JD:247:VAL:O	24:JD:250:TRP:HB2	2.18	0.44
24:JD:43:ARG:HG3	24:JD:60:ARG:HB2	2.00	0.44
22:JB:2186:G:C3'	24:JD:70:ARG:NH2	2.79	0.44
24:JD:85:ASP:N	24:JD:86:PRO:HD2	2.31	0.44
28:JH:29:PRO:HG2	28:JH:78:GLY:O	2.17	0.44
34:JN:38:MET:HA	34:JN:99:LYS:HD2	2.00	0.44
34:JN:72:ASP:C	34:JN:73:LYS:HG2	2.38	0.44
35:JO:65:LEU:HD12	35:JO:68:GLN:O	2.18	0.44
36:JP:83:GLY:O	36:JP:84:ILE:HB	2.17	0.44
38:JR:24:PHE:HB2	38:JR:28:ARG:HB2	1.99	0.44
38:JR:33:ARG:NH2	38:JR:34:ASN:HD21	2.14	0.44
38:JR:59:ARG:O	38:JR:60:LEU:HD22	2.17	0.44
39:JS:25:LEU:HB3	39:JS:26:GLN:H	1.53	0.44
40:JT:118:LYS:NZ	40:JT:118:LYS:HB3	2.33	0.44
40:JT:36:ARG:CZ	48:J2:16:ARG:HG2	2.48	0.44
41:JU:15:LYS:HG3	41:JU:19:ALA:CB	2.47	0.44
42:JV:25:LEU:HB2	42:JV:81:VAL:CG2	2.34	0.44
43:JW:70:GLN:NE2	43:JW:81:VAL:HG22	2.33	0.44
1:AA:1342:C:H2'	1:AA:1343:G:H8	1.82	0.44
1:AA:1347:G:N2	1:AA:1373:G:H2'	2.33	0.44
1:AA:1406:U:H2'	1:AA:1407:C:C6	2.53	0.44
1:AA:1514:C:O2'	1:AA:1515:C:H5'	2.17	0.44
1:AA:339:C:O5'	32:BL:109:ARG:CD	2.66	0.44
1:AA:400:C:H2'	1:AA:401:C:C6	2.53	0.44
1:AA:494:G:O2'	1:AA:495:U:H5'	2.18	0.44
1:AA:666:G:O2'	1:AA:667:G:H5'	2.18	0.44
1:AA:729:A:H2'	1:AA:730:G:C8	2.53	0.44
2:AB:93:VAL:HA	2:AB:148:TYR:O	2.18	0.44
2:AB:31:TYR:HA	2:AB:43:ASP:OD2	2.17	0.44
3:AC:191:THR:HG22	3:AC:193:TYR:H	1.81	0.44
4:AD:74:GLN:O	4:AD:78:LEU:HG	2.17	0.44
4:AD:79:PHE:HB2	4:AD:93:PHE:CE1	2.53	0.44
4:AD:78:LEU:HB2	4:AD:93:PHE:CZ	2.53	0.44
7:AG:93:PRO:HA	7:AG:96:GLN:HB2	1.99	0.44
11:AK:122:LYS:HB2	11:AK:123:LYS:HD3	1.99	0.44
12:AL:72:GLY:CA	12:AL:102:ARG:HH11	2.30	0.44
13:AM:78:ILE:HA	13:AM:81:LEU:CD2	2.47	0.44
1:AA:667:G:H4'	15:AO:48:LYS:O	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:AS:63:THR:H	19:AS:66:MET:CG	2.30	0.44
22:BB:2603:G:O2'	48:B2:21:SER:O	2.27	0.44
22:BB:2029:G:C1'	48:B2:22:HIS:CG	3.01	0.44
22:BB:465:C:N4	50:B4:39:ARG:CZ	2.81	0.44
22:BB:1042:G:C8	52:B6:6:SER:OG	2.31	0.44
22:BB:1148:G:C6	22:BB:1149:G:H1'	2.53	0.44
22:BB:1453:A:P	22:BB:1454:U:C5	3.11	0.44
22:BB:15:G:O5'	48:B2:20:ARG:NH1	2.50	0.44
22:BB:1773:C:H2'	22:BB:1774:A:C8	2.53	0.44
22:BB:1805:G:C3'	24:BD:44:ASN:HA	2.37	0.44
22:BB:1931:G:O2'	22:BB:1932:G:H5'	2.17	0.44
22:BB:1996:A:H4'	40:BT:116:ILE:O	2.17	0.44
22:BB:230:C:H2'	22:BB:231:G:O4'	2.18	0.44
22:BB:2411:A:H1'	47:B1:27:THR:CB	2.43	0.44
22:BB:2523:G:H4'	22:BB:2624:G:H8	1.81	0.44
22:BB:2613:A:HO2'	25:BE:77:ILE:HD12	1.74	0.44
22:BB:2752:C:H2'	22:BB:2753:C:H6	1.82	0.44
22:BB:367:G:H2'	22:BB:368:A:C8	2.52	0.44
22:BB:459:A:H1'	22:BB:461:A:N6	2.31	0.44
22:BB:533:C:H5"	22:BB:550:C:C2'	2.43	0.44
22:BB:57:G:N3	22:BB:72:A:C5	2.86	0.44
22:BB:625:A:C2	22:BB:626:A:H1'	2.52	0.44
22:BB:819:C:H1'	22:BB:2423:G:O2'	2.18	0.44
22:BB:829:C:O4'	22:BB:1177:U:C5'	2.63	0.44
24:BD:104:TYR:O	24:BD:105:ILE:HG22	2.18	0.44
24:BD:54:ILE:HD13	24:BD:220:HIS:CD2	2.52	0.44
25:BE:105:THR:HG22	25:BE:164:ARG:NH1	2.32	0.44
25:BE:19:ARG:HH11	37:BQ:64:LYS:HB3	1.34	0.44
25:BE:24:THR:HG22	25:BE:25:VAL:H	1.83	0.44
27:BG:168:ALA:O	27:BG:171:GLN:HB2	2.17	0.44
27:BG:33:LYS:C	27:BG:34:ILE:HD13	2.38	0.44
27:BG:72:LYS:HD2	27:BG:80:ARG:CA	2.46	0.44
31:BK:78:ASP:H	31:BK:147:ARG:NH2	2.16	0.44
32:BL:118:LEU:O	32:BL:123:PHE:HB3	2.18	0.44
34:BN:100:PRO:HG2	34:BN:102:ARG:CZ	2.47	0.44
34:BN:9:LYS:HZ2	34:BN:73:LYS:HD3	1.83	0.44
35:BO:97:ILE:HD12	35:BO:97:ILE:H	1.82	0.44
22:BB:1265:G:H22	38:BR:37:GLN:HG2	1.83	0.44
39:BS:62:GLU:OE2	39:BS:96:LEU:HD12	2.17	0.44
43:BW:45:GLN:O	43:BW:46:GLN:HB2	2.18	0.44
43:BW:75:LYS:NZ	43:BW:76:ARG:HH22	2.16	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:BX:46:LYS:C	44:BX:46:LYS:HZ3	2.21	0.44
1:CA:1342:C:H2'	1:CA:1343:G:H8	1.82	0.44
1:CA:400:C:H2'	1:CA:401:C:C6	2.53	0.44
1:CA:683:G:H2'	1:CA:684:A:H8	1.83	0.44
1:CA:6:G:H4'	1:CA:298:A:O4'	2.18	0.44
1:CA:729:A:H2'	1:CA:730:G:C8	2.53	0.44
1:CA:792:A:H1'	1:CA:793:U:OP2	2.17	0.44
1:CA:796:C:H2'	1:CA:797:C:C6	2.53	0.44
1:CA:961:U:O2'	1:CA:962:C:H5'	2.18	0.44
2:CB:162:ILE:O	2:CB:184:VAL:HB	2.17	0.44
2:CB:211:ILE:HA	2:CB:214:ILE:CG1	2.47	0.44
2:CB:32:ILE:HG22	2:CB:33:TYR:N	2.33	0.44
3:CC:65:ALA:HB1	3:CC:102:ASN:ND2	2.32	0.44
1:CA:404:U:H5'	4:CD:122:ARG:CD	2.48	0.44
4:CD:41:GLY:O	4:CD:45:GLN:HG3	2.18	0.44
5:CE:76:ILE:HG23	5:CE:118:ILE:CD1	2.48	0.44
5:CE:20:GLN:HB3	5:CE:21:ALA:H	1.63	0.44
8:CH:104:ARG:HH21	8:CH:138:TRP:HB3	1.83	0.44
9:CI:55:ALA:HA	9:CI:58:ARG:HH21	1.82	0.44
9:CI:82:ALA:HA	9:CI:86:VAL:HG23	1.99	0.44
10:CJ:10:GLY:HA3	10:CJ:16:LEU:HD21	2.00	0.44
10:CJ:60:ARG:O	10:CJ:61:GLU:CB	2.64	0.44
11:CK:51:LYS:HG2	11:CK:55:LYS:NZ	2.32	0.44
12:CL:5:PRO:HA	12:CL:9:GLN:C	2.38	0.44
13:CM:19:LEU:O	13:CM:25:ILE:HD12	2.18	0.44
13:CM:3:ARG:HA	13:CM:8:GLU:O	2.18	0.44
13:CM:49:THR:O	13:CM:53:VAL:HG23	2.18	0.44
13:CM:87:TYR:C	13:CM:91:ARG:CD	2.72	0.44
15:CO:9:GLN:HA	15:CO:12:ILE:HD12	1.99	0.44
16:CP:20:VAL:HG22	16:CP:32:TYR:CZ	2.53	0.44
8:CH:91:ARG:NE	17:CQ:34:LYS:C	2.68	0.44
22:DB:176:A:HO2'	47:D1:31:ILE:HG23	1.64	0.44
47:D1:41:PRO:HB2	47:D1:57:ASP:C	2.38	0.44
22:DB:2329:C:O5'	51:D5:42:ARG:HD3	2.16	0.44
22:DB:1040:A:C4'	34:DN:125:LYS:CE	2.92	0.44
22:DB:1251:G:O2'	22:DB:1252:C:H5'	2.18	0.44
22:DB:1678:G:H2'	22:DB:1679:U:C6	2.53	0.44
22:DB:1791:C:O2'	22:DB:1792:C:H3'	2.18	0.44
22:DB:1849:G:H2'	22:DB:1867:A:C2	2.53	0.44
22:DB:1931:G:O2'	22:DB:1932:G:H5'	2.17	0.44
22:DB:198:A:H2'	22:DB:244:C:N4	2.33	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:DB:2044:G:H4'	22:DB:2045:A:C5	2.53	0.44
22:DB:218:A:O2'	22:DB:219:G:H4'	2.17	0.44
22:DB:2348:A:H2'	22:DB:2349:G:H8	1.82	0.44
22:DB:2766:U:H2'	25:DE:61:LYS:HA	1.48	0.44
22:DB:2769:C:C4'	22:DB:2866:A:N1	2.81	0.44
22:DB:332:C:H4'	26:DF:160:ALA:HB2	1.98	0.44
22:DB:788:G:H4'	22:DB:789:G:H4'	2.00	0.44
24:DD:142:VAL:HG23	24:DD:143:HIS:N	2.25	0.44
22:DB:1809:G:C3'	24:DD:157:ARG:NH1	2.75	0.44
24:DD:263:ARG:HH21	24:DD:264:LYS:HZ1	1.64	0.44
24:DD:95:LEU:HD12	24:DD:104:TYR:C	2.38	0.44
25:DE:111:LYS:HG2	25:DE:112:GLY:N	2.33	0.44
25:DE:31:CYS:SG	25:DE:32:PRO:HD2	2.57	0.44
25:DE:58:LYS:HB2	25:DE:58:LYS:NZ	2.32	0.44
25:DE:93:VAL:HG12	25:DE:93:VAL:O	2.18	0.44
27:DG:136:LEU:HB2	27:DG:150:ARG:HH22	1.82	0.44
22:DB:1111:C:O4'	28:DH:168:GLN:NE2	2.50	0.44
28:DH:40:GLU:O	28:DH:41:LEU:HD22	2.18	0.44
32:DL:11:ALA:CB	32:DL:19:ILE:HG21	2.47	0.44
23:DA:29:C:OP1	36:DP:36:LYS:CB	2.65	0.44
38:DR:42:ALA:O	38:DR:46:GLU:HG2	2.17	0.44
39:DS:63:HIS:HA	39:DS:95:ILE:CD1	2.46	0.44
42:DV:59:LYS:HB3	42:DV:59:LYS:NZ	2.32	0.44
22:DB:886:A:C8	43:DW:167:THR:HG21	2.53	0.44
1:EA:1318:A:C2'	19:ES:10:PHE:CG	3.00	0.44
1:EA:1525:G:OP1	11:EK:127:LYS:NZ	2.49	0.44
1:EA:214:U:H2'	1:EA:215:C:C6	2.53	0.44
1:EA:400:C:H2'	1:EA:401:C:C6	2.53	0.44
1:EA:452:A:OP2	16:EP:43:LYS:NZ	2.47	0.44
1:EA:796:C:H2'	1:EA:797:C:C6	2.53	0.44
1:EA:1101:A:P	2:EB:98:LEU:HD23	2.58	0.44
3:EC:113:ALA:HB3	3:EC:183:ASP:O	2.17	0.44
3:EC:34:LEU:HA	3:EC:37:GLN:OE1	2.18	0.44
4:ED:110:PHE:HA	4:ED:161:ASN:HB2	2.00	0.44
6:EF:42:GLU:HG2	6:EF:44:GLY:N	2.30	0.44
7:EG:43:PHE:C	7:EG:45:ASP:H	2.21	0.44
7:EG:95:ARG:HG3	7:EG:95:ARG:HH11	1.81	0.44
1:EA:598:U:C2	8:EH:131:GLY:CA	2.97	0.44
1:EA:588:G:C2'	8:EH:31:PHE:HB3	2.48	0.44
10:EJ:96:ILE:HG22	10:EJ:97:GLU:N	2.33	0.44
1:EA:522:C:OP2	12:EL:69:TYR:HE2	2.01	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:EL:5:PRO:HA	12:EL:9:GLN:C	2.38	0.44
1:EA:1187:G:C2	14:EN:61:TRP:OXT	2.71	0.44
16:EP:3:LYS:H	16:EP:24:ALA:HB2	1.82	0.44
50:F4:29:ASN:HB2	50:F4:33:ARG:NH1	2.33	0.44
22:FB:1047:G:O3'	22:FB:1048:U:C5'	2.39	0.44
22:FB:9:U:O2'	22:FB:10:A:H8	1.99	0.44
22:FB:1376:C:H2'	22:FB:1377:G:C8	2.47	0.44
22:FB:1411:C:N1	22:FB:1412:C:C4	2.60	0.44
22:FB:1481:U:H4'	22:FB:1561:A:C6	2.53	0.44
22:FB:155:G:H2'	22:FB:156:G:C8	2.53	0.44
22:FB:167:A:H2'	22:FB:168:A:O4'	2.18	0.44
22:FB:1773:C:H2'	22:FB:1774:A:C8	2.53	0.44
22:FB:1887:G:N7	22:FB:1888:C:C5	2.86	0.44
22:FB:1931:G:O2'	22:FB:1932:G:H5'	2.17	0.44
22:FB:2264:C:H5''	49:F3:30:ASN:HD21	1.82	0.44
22:FB:230:C:H2'	22:FB:231:G:O4'	2.18	0.44
22:FB:2797:G:H21	22:FB:2798:A:H4'	1.82	0.44
22:FB:412:U:H2'	22:FB:413:G:H5'	1.99	0.44
22:FB:468:A:H2'	22:FB:469:G:H4'	1.99	0.44
22:FB:563:U:H2'	22:FB:564:U:C6	2.52	0.44
22:FB:728:G:H3'	22:FB:729:A:H8	1.83	0.44
22:FB:845:U:P	33:FM:41:SER:HB2	2.58	0.44
22:FB:940:G:C2	46:FZ:37:THR:HG22	2.49	0.44
22:FB:989:G:H2'	22:FB:990:A:O4'	2.17	0.44
24:FD:151:LYS:HE2	24:FD:151:LYS:HA	1.98	0.44
22:FB:1583:A:C5	24:FD:84:TYR:HD1	2.30	0.44
24:FD:85:ASP:N	24:FD:86:PRO:HD2	2.31	0.44
25:FE:31:CYS:SG	25:FE:32:PRO:HD2	2.57	0.44
25:FE:51:TYR:OH	37:FQ:3:THR:CB	2.66	0.44
26:FF:6:VAL:HG22	26:FF:7:ILE:N	2.33	0.44
27:FG:80:ARG:H	27:FG:83:MET:HG2	1.83	0.44
28:FH:97:LYS:O	28:FH:103:LEU:HD12	2.17	0.44
22:FB:6:A:O2'	31:FK:160:ALA:CA	2.65	0.44
32:FL:46:HIS:CB	32:FL:121:ARG:HH21	2.31	0.44
22:FB:680:U:OP1	33:FM:48:PHE:CD1	2.71	0.44
22:FB:1289:A:N3	35:FO:23:ALA:O	2.37	0.44
35:FO:54:THR:HB	35:FO:62:SER:HB3	2.00	0.44
36:FP:83:GLY:O	36:FP:84:ILE:HB	2.17	0.44
39:FS:10:LYS:HD3	39:FS:12:TYR:HD2	1.83	0.44
1:GA:1189:C:H5''	3:GC:5:ILE:HG12	2.00	0.44
1:GA:1316:G:C2	1:GA:1318:A:H3'	2.52	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:GA:1372:U:H2'	1:GA:1373:G:O4'	2.18	0.44
1:GA:1399:C:H4'	1:GA:1400:C:O5'	2.17	0.44
1:GA:140:A:H2'	1:GA:141:A:O4'	2.18	0.44
1:GA:420:U:O2'	1:GA:421:U:H5''	2.17	0.44
1:GA:77:C:H2'	1:GA:78:G:O4'	2.18	0.44
1:GA:796:C:H2'	1:GA:797:C:C6	2.53	0.44
1:GA:918:A:H2'	1:GA:919:A:C8	2.53	0.44
1:GA:98:U:H2'	1:GA:99:C:C4'	2.47	0.44
2:GB:213:LEU:HA	2:GB:216:SER:OG	2.18	0.44
1:GA:1057:G:OP1	3:GC:163:ALA:CB	2.65	0.44
3:GC:35:GLU:HG2	3:GC:36:ASP:N	2.33	0.44
4:GD:110:PHE:HA	4:GD:161:ASN:HB2	2.00	0.44
9:GI:110:GLU:OE2	9:GI:119:ALA:HB1	2.17	0.44
1:GA:1202:G:C8	10:GJ:54:PHE:HZ	2.29	0.44
11:GK:105:VAL:HG12	11:GK:106:LYS:N	2.32	0.44
11:GK:51:LYS:HG2	11:GK:55:LYS:HZ1	1.83	0.44
13:GM:69:GLU:C	13:GM:71:ARG:H	2.21	0.44
16:GP:26:ARG:HB3	16:GP:27:LYS:H	1.63	0.44
22:HB:1080:A:H5''	22:HB:1081:A:O5'	2.18	0.44
22:HB:1226:A:N6	22:HB:1249:G:H21	2.16	0.44
22:HB:1454:U:H2'	22:HB:1455:C:H6	1.83	0.44
22:HB:1583:A:N6	24:HD:89:SER:CB	2.75	0.44
22:HB:1353:A:N3	22:HB:1618:U:OP2	2.51	0.44
22:HB:1931:G:O2'	22:HB:1932:G:H5'	2.17	0.44
22:HB:2333:A:O2'	44:HX:31:VAL:HG12	2.18	0.44
22:HB:2398:U:C5'	51:H5:32:GLN:C	2.86	0.44
22:HB:2402:U:H4'	22:HB:2404:A:OP1	2.17	0.44
22:HB:536:A:H5''	22:HB:537:C:H4'	2.00	0.44
22:HB:572:G:N3	38:HR:33:ARG:NH1	2.54	0.44
22:HB:625:A:C2	22:HB:626:A:H1'	2.52	0.44
22:HB:984:A:H1'	22:HB:1201:G:H21	1.83	0.44
24:HD:55:GLY:H	24:HD:220:HIS:CE1	2.36	0.44
22:HB:1954:A:H8	24:HD:239:ARG:HA	1.60	0.44
24:HD:54:ILE:HD13	24:HD:220:HIS:CD2	2.52	0.44
24:HD:63:ARG:HH22	24:HD:157:ARG:NH1	2.16	0.44
25:HE:93:VAL:HG12	25:HE:93:VAL:O	2.18	0.44
34:HN:33:TYR:CE2	34:HN:128:ILE:HD12	2.52	0.44
34:HN:91:VAL:HG13	34:HN:91:VAL:O	2.17	0.44
34:HN:38:MET:HA	34:HN:99:LYS:CD	2.48	0.44
34:HN:9:LYS:HD3	34:HN:93:TYR:CE2	2.51	0.44
37:HQ:80:VAL:HG12	37:HQ:82:PRO:HD3	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:HR:101:ARG:NH2	39:HS:43:GLU:CG	2.70	0.44
22:HB:542:A:O2'	38:HR:38:THR:HB	2.18	0.44
22:HB:1261:G:C6	38:HR:3:ARG:CB	2.94	0.44
22:HB:497:C:C4	40:HT:78:ASN:ND2	2.82	0.44
40:HT:86:LEU:HB3	40:HT:87:GLU:H	1.56	0.44
44:HX:74:LYS:H	44:HX:74:LYS:HZ2	1.65	0.44
41:HU:92:ALA:CB	45:HY:24:GLU:CG	2.96	0.44
46:HZ:4:LYS:NZ	46:HZ:31:SER:H	2.16	0.44
1:EA:1265:G:C5'	1:IA:1273:G:O5'	2.37	0.44
1:IA:1316:G:C2	1:IA:1318:A:H3'	2.52	0.44
1:IA:1399:C:H4'	1:IA:1400:C:O5'	2.18	0.44
1:IA:1479:C:H2'	1:IA:1480:G:H8	1.83	0.44
1:IA:375:U:O4'	16:IP:17:TYR:CE2	2.71	0.44
1:IA:509:A:H4'	1:IA:510:A:OP1	2.18	0.44
1:IA:518:C:H5''	1:IA:520:A:H62	1.81	0.44
1:IA:616:G:H2'	1:IA:617:G:H8	1.81	0.44
1:IA:66:G:H5'	1:IA:198:G:N2	2.32	0.44
2:IB:172:ILE:HG22	2:IB:176:GLU:CD	2.38	0.44
2:IB:32:ILE:HG22	2:IB:33:TYR:N	2.33	0.44
2:IB:42:ILE:HG22	2:IB:43:ASP:N	2.33	0.44
4:ID:13:ARG:NH1	4:ID:33:MET:HA	2.33	0.44
5:IE:118:ILE:HG22	5:IE:119:LEU:N	2.32	0.44
1:IA:1078:U:OP2	5:IE:84:PHE:HZ	2.00	0.44
8:IH:67:PRO:O	8:IH:76:PRO:HA	2.18	0.44
9:II:18:PHE:H	9:II:62:TYR:HD2	1.66	0.44
10:IJ:42:THR:HG23	10:IJ:67:THR:H	1.83	0.44
10:IJ:64:GLU:HG3	14:IN:59:ALA:CA	2.28	0.44
1:IA:803:G:H22	11:IK:120:ARG:NH1	2.15	0.44
15:IO:10:LYS:C	15:IO:12:ILE:H	2.20	0.44
15:IO:33:THR:HA	15:IO:36:ILE:CD1	2.47	0.44
15:IO:8:LYS:HA	15:IO:11:VAL:HG23	2.00	0.44
16:IP:71:ARG:HG2	16:IP:75:ARG:NH2	2.32	0.44
18:IR:51:LEU:HB3	18:IR:56:THR:HA	2.00	0.44
1:IA:1225:A:H1'	19:IS:78:ARG:HD3	1.98	0.44
1:IA:1223:C:P	19:IS:78:ARG:HE	2.40	0.44
1:IA:1457:A:H5'	20:IT:28:ALA:HB2	1.98	0.44
20:IT:30:LYS:O	20:IT:34:LYS:HG3	2.17	0.44
50:J4:21:ARG:HG3	50:J4:31:LEU:HD13	1.99	0.44
22:JB:2338:C:H5'	51:J5:50:LEU:HD22	1.99	0.44
51:J5:61:MET:O	51:J5:62:LEU:HG	2.17	0.44
22:JB:3122:U:H4'	53:J7:133:LYS:HG3	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
53:J7:174:MSE:HG2	53:J7:175:LYS:CD	2.47	0.44
22:JB:3103:A:H4'	53:J7:37:LYS:CG	2.48	0.44
22:JB:1823:G:N2	22:JB:1958:G:H1'	2.33	0.44
22:JB:3877:A:N7	22:JB:1862:C:N4	2.66	0.44
22:JB:1931:G:O2'	22:JB:1932:G:H5'	2.17	0.44
22:JB:2240:C:C6	44:JX:15:ASP:N	2.86	0.44
22:JB:819:C:H1'	22:JB:2423:G:O2'	2.18	0.44
22:JB:2491:C:C2	22:JB:2492:G:H1'	2.53	0.44
22:JB:527:C:OP2	48:J2:12:SER:CB	2.61	0.44
22:JB:536:A:H5''	22:JB:537:C:H4'	2.00	0.44
22:JB:800:U:OP1	22:JB:801:A:H5'	2.18	0.44
22:JB:80:A:H3'	22:JB:81:C:C6	2.53	0.44
22:JB:94:C:H5'	45:JY:40:PRO:CD	2.43	0.44
27:JG:25:VAL:O	27:JG:26:MET:HG3	2.18	0.44
27:JG:30:ARG:HE	27:JG:30:ARG:H	1.60	0.44
22:JB:2646:C:H1'	28:JH:109:TYR:H	1.81	0.44
34:JN:32:ASP:CG	43:JW:115:ILE:CG2	2.82	0.44
34:JN:9:LYS:HA	34:JN:70:PHE:CZ	2.52	0.44
35:JO:97:ILE:H	35:JO:97:ILE:HD12	1.82	0.44
38:JR:42:ALA:O	38:JR:46:GLU:HG2	2.17	0.44
38:JR:76:TYR:CG	38:JR:77:SER:N	2.84	0.44
39:JS:10:LYS:HD3	39:JS:12:TYR:HD2	1.83	0.44
41:JU:17:TYR:N	41:JU:20:MET:HB2	2.31	0.44
43:JW:111:GLY:HA3	43:JW:173:PRO:HB3	2.00	0.44
45:JY:52:GLN:HG3	45:JY:52:GLN:O	2.18	0.44
22:JB:76:C:P	45:JY:7:ARG:NH2	2.91	0.44
46:JZ:14:GLY:O	46:JZ:17:VAL:HB	2.17	0.44
1:AA:112:G:H1	1:AA:315:A:N6	2.14	0.44
1:AA:1283:G:O2'	1:AA:1284:C:H5'	2.17	0.44
1:AA:1316:G:C2	1:AA:1318:A:H3'	2.52	0.44
1:AA:66:G:H5'	1:AA:198:G:N2	2.32	0.44
1:AA:125:U:H4'	1:AA:605:U:O2	2.18	0.44
1:AA:62:U:H4'	1:AA:378:G:N2	2.33	0.44
1:AA:633:G:H2'	1:AA:634:C:O4'	2.18	0.44
1:AA:683:G:H2'	1:AA:684:A:H8	1.83	0.44
1:AA:727:G:C5'	15:AO:51:HIS:HD2	2.30	0.44
1:AA:961:U:O2'	1:AA:962:C:H5'	2.18	0.44
2:AB:16:HIS:NE2	2:AB:214:ILE:HA	2.33	0.44
2:AB:213:LEU:HA	2:AB:216:SER:OG	2.18	0.44
3:AC:112:SER:O	3:AC:116:VAL:HG23	2.17	0.44
3:AC:132:ARG:NH2	4:AD:47:ARG:NH1	2.65	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AC:173:VAL:HG12	3:AC:182:ILE:HD11	1.99	0.44
3:AC:65:ALA:HB1	3:AC:102:ASN:ND2	2.32	0.44
1:AA:19:C:OP2	5:AE:127:ASN:ND2	2.51	0.44
1:AA:1381:U:N3	7:AG:77:SER:O	2.44	0.44
9:AI:82:ALA:HA	9:AI:86:VAL:HG23	1.99	0.44
10:AJ:7:LYS:O	10:AJ:96:ILE:HG23	2.17	0.44
11:AK:23:ALA:HB3	11:AK:86:GLY:C	2.38	0.44
13:AM:49:THR:O	13:AM:53:VAL:HG23	2.18	0.44
16:AP:20:VAL:HG22	16:AP:32:TYR:CZ	2.53	0.44
1:AA:583:A:C4	17:AQ:91:ARG:NH1	2.86	0.44
49:B3:42:PRO:HD3	49:B3:47:HIS:C	2.38	0.44
51:B5:16:ILE:HG13	51:B5:17:THR:N	2.33	0.44
23:BA:84:G:H2'	23:BA:85:G:C8	2.53	0.44
22:BB:989:G:H4'	22:BB:1013:G:H4'	1.99	0.44
22:BB:1042:G:O5'	52:B6:7:VAL:HA	2.18	0.44
22:BB:119:G:H2'	22:BB:120:G:H8	1.82	0.44
22:BB:157:G:OP1	50:B4:32:ALA:HB3	2.12	0.44
22:BB:1353:A:N3	22:BB:1618:U:OP2	2.51	0.44
22:BB:167:A:H2'	22:BB:168:A:O4'	2.18	0.44
22:BB:1803:G:H2'	22:BB:1804:U:N1	2.23	0.44
22:BB:1982:C:H4'	22:BB:2702:G:N2	2.30	0.44
22:BB:2044:G:H4'	22:BB:2045:A:C5	2.53	0.44
22:BB:658:G:H5''	22:BB:2331:A:OP1	2.17	0.44
22:BB:2525:U:C1'	22:BB:2544:A:N1	2.69	0.44
22:BB:2726:U:H5'	28:BH:138:LYS:O	2.17	0.44
22:BB:412:U:H2'	22:BB:413:G:H5'	1.99	0.44
22:BB:821:A:H2'	22:BB:822:G:O4'	2.18	0.44
24:BD:168:LYS:HZ3	24:BD:168:LYS:HB3	1.83	0.44
24:BD:170:SER:C	24:BD:172:TYR:N	2.71	0.44
24:BD:78:LYS:HD2	24:BD:78:LYS:N	2.33	0.44
26:BF:15:ILE:CG2	26:BF:16:GLU:N	2.79	0.44
26:BF:87:LYS:HG3	26:BF:88:PRO:CD	2.48	0.44
27:BG:87:ILE:HB	27:BG:88:LYS:H	1.37	0.44
29:BI:46:LEU:O	29:BI:47:GLU:HB2	2.16	0.44
31:BK:111:LYS:NZ	31:BK:111:LYS:HB2	2.29	0.44
32:BL:46:HIS:CB	32:BL:121:ARG:HH21	2.31	0.44
34:BN:35:LEU:HD13	34:BN:103:VAL:HG21	1.99	0.44
35:BO:54:THR:HB	35:BO:62:SER:HB3	2.00	0.44
35:BO:76:VAL:HG13	35:BO:77:ARG:N	2.32	0.44
36:BP:8:ARG:HH12	36:BP:9:ARG:HE	1.66	0.44
38:BR:28:ARG:CG	38:BR:34:ASN:HB3	2.48	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:BB:348:U:C5'	42:BV:13:LYS:CD	2.96	0.44
43:BW:10:PRO:O	43:BW:14:LEU:HD23	2.17	0.44
22:BB:915:C:O3'	43:BW:163:ASP:N	2.50	0.44
1:CA:1089:G:H2'	1:CA:1090:U:C6	2.53	0.44
1:CA:1133:G:N1	1:CA:1134:G:H1'	2.33	0.44
1:CA:1227:A:OP1	19:CS:80:TYR:CE2	2.71	0.44
1:CA:1266:G:P	1:GA:1273:G:C4'	3.05	0.44
1:CA:780:A:C4'	1:CA:1523:G:C5'	2.96	0.44
1:CA:214:U:H2'	1:CA:215:C:C6	2.53	0.44
1:CA:62:U:H4'	1:CA:378:G:N2	2.33	0.44
1:CA:720:C:C5'	18:CR:52:PRO:CA	2.94	0.44
1:CA:740:U:O2'	15:CO:52:SER:CB	2.55	0.44
2:CB:93:VAL:HA	2:CB:148:TYR:O	2.18	0.44
3:CC:112:SER:O	3:CC:116:VAL:HG23	2.17	0.44
3:CC:37:GLN:H	3:CC:37:GLN:CD	2.20	0.44
3:CC:84:ILE:HG23	3:CC:85:ARG:N	2.31	0.44
4:CD:205:GLU:CG	5:CE:100:VAL:C	2.86	0.44
4:CD:13:ARG:NH1	4:CD:33:MET:HA	2.33	0.44
5:CE:89:ILE:HD13	5:CE:90:VAL:H	1.83	0.44
7:CG:35:LYS:HE2	7:CG:38:LEU:N	2.32	0.44
1:CA:589:C:C5	8:CH:1:MET:HE1	2.52	0.44
8:CH:91:ARG:CZ	17:CQ:34:LYS:O	2.66	0.44
1:CA:1061:G:C1'	10:CJ:56:HIS:CD2	3.01	0.44
12:CL:29:GLY:O	12:CL:30:ALA:C	2.56	0.44
12:CL:55:VAL:HG12	12:CL:56:ALA:N	2.33	0.44
13:CM:55:ARG:O	13:CM:59:TYR:HB3	2.18	0.44
13:CM:76:ALA:HA	13:CM:79:LYS:CB	2.47	0.44
1:CA:378:G:P	16:CP:25:ARG:HG2	2.45	0.44
19:CS:2:PRO:HG2	19:CS:3:ARG:H	1.83	0.44
20:CT:30:LYS:O	20:CT:34:LYS:HG3	2.17	0.44
22:DB:1381:G:OP1	50:D4:25:LYS:CG	2.65	0.44
22:DB:699:G:H1	50:D4:5:TYR:HB2	1.82	0.44
22:DB:699:G:C1'	50:D4:5:TYR:O	2.62	0.44
22:DB:1032:A:N3	22:DB:1133:G:H4'	2.33	0.44
22:DB:1039:A:N3	22:DB:2465:G:O2'	2.44	0.44
22:DB:1072:U:O4'	30:DJ:9:LYS:CB	2.66	0.44
22:DB:1134:C:H2'	22:DB:1135:C:C6	2.52	0.44
22:DB:1148:G:C6	22:DB:1149:G:H1'	2.53	0.44
22:DB:1321:A:H2'	22:DB:1322:G:O4'	2.18	0.44
22:DB:1401:G:H2'	22:DB:1402:G:C8	2.53	0.44
22:DB:167:A:H2'	22:DB:168:A:O4'	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:DB:1879:G:H2'	22:DB:1880:G:H8	1.77	0.44
22:DB:230:C:H2'	22:DB:231:G:O4'	2.18	0.44
22:DB:819:C:H1'	22:DB:2423:G:O2'	2.18	0.44
22:DB:2634:G:N2	22:DB:2642:G:N7	2.66	0.44
22:DB:536:A:H5''	22:DB:537:C:H4'	2.00	0.44
22:DB:832:A:C2	22:DB:953:G:H1'	2.52	0.44
24:DD:170:SER:C	24:DD:172:TYR:N	2.72	0.44
22:DB:2057:U:H5'	24:DD:228:PRO:HG3	0.57	0.44
22:DB:1383:C:H4'	24:DD:48:ARG:NH1	2.32	0.44
24:DD:54:ILE:HD13	24:DD:220:HIS:CD2	2.52	0.44
27:DG:33:LYS:C	27:DG:34:ILE:HD13	2.38	0.44
30:DJ:28:GLY:O	30:DJ:34:ILE:HD11	2.18	0.44
31:DK:149:LYS:HA	31:DK:149:LYS:NZ	2.32	0.44
31:DK:65:LYS:HG2	31:DK:66:HIS:CD2	2.53	0.44
32:DL:83:ARG:HD3	32:DL:85:ASP:CB	2.48	0.44
33:DM:122:VAL:HG22	33:DM:124:ALA:N	2.33	0.44
34:DN:102:ARG:HB3	34:DN:102:ARG:HH11	1.80	0.44
23:DA:10:U:C2'	36:DP:28:ARG:HH12	2.30	0.44
37:DQ:100:ARG:HB2	37:DQ:120:ASP:O	2.18	0.44
22:DB:1164:C:C4'	38:DR:77:SER:HB2	2.45	0.44
22:DB:1007:A:H3'	38:DR:93:LYS:HG2	1.02	0.44
22:DB:887:G:H4'	43:DW:148:THR:HB	1.36	0.44
46:DZ:4:LYS:NZ	46:DZ:31:SER:H	2.16	0.44
1:EA:1133:G:N1	1:EA:1134:G:H1'	2.33	0.44
1:EA:1182:G:H4'	1:EA:1183:A:O5'	2.18	0.44
1:EA:128:G:O4'	17:EQ:61:GLU:CB	2.65	0.44
1:EA:1372:U:H2'	1:EA:1373:G:O4'	2.18	0.44
1:EA:6:G:H4'	1:EA:298:A:O4'	2.18	0.44
1:EA:649:G:O2'	1:EA:650:G:H5'	2.18	0.44
1:EA:713:G:H2'	1:EA:714:G:C4	2.53	0.44
1:EA:803:G:H22	11:EK:120:ARG:NH1	2.16	0.44
1:EA:961:U:O2'	1:EA:962:C:H5'	2.18	0.44
3:EC:6:HIS:HB2	14:EN:49:HIS:CD2	2.50	0.44
4:ED:180:GLY:O	4:ED:182:LYS:HG3	2.18	0.44
6:EF:77:ARG:O	6:EF:81:ILE:HG13	2.18	0.44
1:EA:1376:U:H4'	7:EG:95:ARG:HH22	1.83	0.44
10:EJ:10:GLY:HA3	10:EJ:16:LEU:HD21	2.00	0.44
11:EK:23:ALA:HB3	11:EK:86:GLY:C	2.38	0.44
1:EA:668:G:C2'	15:EO:46:HIS:CG	3.01	0.44
19:ES:63:THR:H	19:ES:66:MET:CG	2.30	0.44
22:FB:875:G:O2'	23:FA:102:A:N1	2.47	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:FB:1148:G:C6	22:FB:1149:G:H1'	2.53	0.44
22:FB:1251:G:O2'	22:FB:1252:C:H5'	2.18	0.44
22:FB:1335:A:H2'	22:FB:1336:G:C8	2.52	0.44
22:FB:1401:G:H2'	22:FB:1402:G:C8	2.53	0.44
22:FB:1450:G:H22	22:FB:1531:C:C1'	2.09	0.44
22:FB:1454:U:H2'	22:FB:1455:C:H6	1.83	0.44
22:FB:1545:G:N7	22:FB:1556:A:N1	2.66	0.44
22:FB:1580:C:H2'	22:FB:1581:C:O4'	2.18	0.44
22:FB:1353:A:N3	22:FB:1618:U:OP2	2.51	0.44
22:FB:1681:A:H2'	22:FB:1682:A:O4'	2.18	0.44
22:FB:218:A:O2'	22:FB:219:G:H4'	2.17	0.44
22:FB:2564:U:O2'	22:FB:2565:C:H5''	2.18	0.44
22:FB:2663:U:C4	22:FB:2705:A:N1	2.86	0.44
22:FB:2617:G:O6	22:FB:2755:A:H2'	2.17	0.44
22:FB:965:G:H5''	34:FN:18:MET:CE	2.48	0.44
22:FB:970:A:H2'	22:FB:971:A:C8	2.53	0.44
22:FB:980:G:C4'	46:FZ:12:ARG:C	2.86	0.44
22:FB:984:A:H5'	22:FB:1202:U:C1'	2.48	0.44
24:FD:247:VAL:O	24:FD:250:TRP:HB2	2.18	0.44
25:FE:4:ILE:HG21	25:FE:48:GLN:HG3	2.00	0.44
26:FF:56:ARG:O	26:FF:57:LYS:HB2	2.18	0.44
27:FG:99:PHE:O	27:FG:103:LEU:HG	2.17	0.44
30:FJ:111:LYS:HD3	30:FJ:123:ALA:C	2.38	0.44
31:FK:139:ARG:NH1	31:FK:142:ARG:HD2	2.33	0.44
22:FB:1040:A:H5''	34:FN:125:LYS:HD2	1.07	0.44
34:FN:75:VAL:HB	34:FN:92:GLU:OE1	2.17	0.44
37:FQ:100:ARG:HB2	37:FQ:120:ASP:O	2.18	0.44
39:FS:63:HIS:HA	39:FS:95:ILE:CD1	2.47	0.44
41:FU:54:SER:HB2	41:FU:79:ILE:HB	1.99	0.44
43:FW:41:ARG:NH2	43:FW:41:ARG:HB2	2.32	0.44
43:FW:70:GLN:NE2	43:FW:81:VAL:HG22	2.33	0.44
22:FB:2240:C:C5'	44:FX:14:ARG:CG	2.92	0.44
1:GA:1001:A:N6	1:GA:1039:C:H42	2.16	0.44
1:GA:1239:A:H2'	1:GA:1298:C:H42	1.82	0.44
1:GA:1392:G:O4'	1:GA:1531:A:C5'	2.57	0.44
1:GA:1479:C:H2'	1:GA:1480:G:H8	1.83	0.44
20:AT:100:ILE:HG12	1:GA:179:A:C2	2.52	0.44
1:GA:375:U:H2'	1:GA:376:G:O4'	2.18	0.44
1:GA:518:C:H5''	1:GA:520:A:H62	1.81	0.44
1:GA:80:C:H2'	1:GA:81:C:C6	2.53	0.44
1:GA:975:A:O2'	14:GN:31:ARG:CA	2.66	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:GB:31:TYR:HA	2:GB:43:ASP:OD2	2.17	0.44
6:GF:10:LEU:HB3	6:GF:85:VAL:CA	2.47	0.44
8:GH:33:GLU:CG	8:GH:59:LEU:HD11	2.47	0.44
1:GA:1186:G:OP1	9:GI:120:ARG:NH2	2.51	0.44
9:GI:26:VAL:HG21	9:GI:61:ALA:HB3	1.99	0.44
1:GA:755:G:P	15:GO:65:ARG:NH2	2.88	0.44
18:GR:51:LEU:HB3	18:GR:56:THR:HA	2.00	0.44
22:HB:2062:U:C2'	47:H1:32:HIS:CE1	3.01	0.44
47:H1:5:LEU:HB3	47:H1:56:VAL:O	2.16	0.44
47:H1:58:LYS:C	47:H1:60:ASN:H	2.22	0.44
22:HB:1276:U:O2'	48:H2:10:LYS:HG2	2.18	0.44
22:HB:3165:G:P	53:H7:102:LYS:NZ	2.91	0.44
22:HB:1072:U:O2	30:HJ:11:GLN:CG	2.65	0.44
22:HB:1003:C:C4	22:HB:1174:G:N2	2.85	0.44
22:HB:1851:A:H3'	22:HB:1852:G:H8	1.83	0.44
22:HB:1893:G:O2'	22:HB:1894:U:H5'	2.18	0.44
22:HB:1914:U:H5	22:HB:1951:G:C2	2.36	0.44
22:HB:2053:G:H2'	22:HB:2054:A:C8	2.53	0.44
22:HB:2222:U:H2'	22:HB:2223:U:C6	2.53	0.44
22:HB:2236:U:OP1	44:HX:4:LYS:CD	2.43	0.44
22:HB:2419:C:H2'	22:HB:2420:C:C4'	2.48	0.44
22:HB:2603:G:H2'	22:HB:2604:G:O4'	2.17	0.44
22:HB:2781:G:H2'	22:HB:2782:G:C8	2.46	0.44
22:HB:2787:A:N6	22:HB:2864:C:N4	2.66	0.44
22:HB:512:A:OP1	40:HT:17:GLN:CG	2.58	0.44
22:HB:542:A:C8	22:HB:570:G:N2	2.69	0.44
22:HB:573:C:O2'	22:HB:574:C:H5'	2.18	0.44
22:HB:699:G:H2'	50:H4:5:TYR:N	2.31	0.44
22:HB:69:G:O3'	22:HB:70:A:O5'	2.34	0.44
22:HB:80:A:H3'	22:HB:81:C:C6	2.53	0.44
24:HD:144:ALA:HB3	24:HD:192:THR:N	2.30	0.44
26:HF:6:VAL:HG22	26:HF:7:ILE:N	2.33	0.44
28:HH:29:PRO:HG2	28:HH:79:VAL:HA	2.00	0.44
29:HI:25:ALA:HA	29:HI:29:LEU:HD23	2.00	0.44
32:HL:118:LEU:O	32:HL:123:PHE:HB3	2.18	0.44
34:HN:38:MET:HA	34:HN:99:LYS:HD2	2.00	0.44
22:HB:2669:C:O3'	35:HO:17:ARG:NH2	2.48	0.44
37:HQ:18:GLN:HA	37:HQ:21:THR:HG23	2.00	0.44
39:HS:63:HIS:HA	39:HS:95:ILE:CD1	2.47	0.44
42:HV:25:LEU:HB2	42:HV:81:VAL:CG2	2.33	0.44
44:HX:34:GLY:O	44:HX:68:VAL:HA	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:IA:1182:G:H4'	1:IA:1183:A:O5'	2.18	0.44
1:IA:1323:G:H4'	1:IA:1362:C:N3	2.33	0.44
1:IA:201:G:H2'	1:IA:202:G:O4'	2.18	0.44
1:IA:420:U:O2'	1:IA:421:U:H5''	2.18	0.44
1:IA:448:A:H2'	1:IA:449:C:H5'	2.00	0.44
1:IA:709:G:H2'	1:IA:710:G:H8	1.82	0.44
1:IA:918:A:H2'	1:IA:919:A:C8	2.53	0.44
2:IB:211:ILE:HA	2:IB:214:ILE:HG12	2.00	0.44
4:ID:167:GLY:HA3	4:ID:168:ARG:HH21	1.83	0.44
1:IA:8:A:N3	4:ID:209:ARG:NH1	2.66	0.44
5:IE:76:ILE:HG23	5:IE:118:ILE:CD1	2.48	0.44
6:IF:16:GLN:HE21	6:IF:20:ALA:HB2	1.83	0.44
8:IH:33:GLU:CG	8:IH:59:LEU:HD11	2.47	0.44
1:IA:1187:G:C1'	9:II:113:LYS:HG2	2.28	0.44
10:IJ:7:LYS:O	10:IJ:96:ILE:HG23	2.17	0.44
12:IL:83:VAL:HB	12:IL:107:ALA:CB	2.46	0.44
13:IM:49:THR:O	13:IM:53:VAL:HG23	2.18	0.44
13:IM:55:ARG:O	13:IM:59:TYR:HB3	2.18	0.44
14:IN:24:CYS:N	14:IN:33:VAL:HG11	2.33	0.44
15:IO:79:ARG:HA	15:IO:82:ILE:HD12	2.00	0.44
19:IS:2:PRO:HG2	19:IS:3:ARG:H	1.82	0.44
19:IS:63:THR:H	19:IS:66:MET:CG	2.30	0.44
19:IS:36:ARG:HB2	19:IS:72:GLY:CA	2.48	0.44
48:J2:45:ILE:HG23	48:J2:51:TYR:N	2.33	0.44
22:JB:1629:G:C3'	50:J4:3:ARG:CD	2.90	0.44
22:JB:1029:C:H2'	22:JB:1030:U:H4'	1.99	0.44
22:JB:1401:G:H2'	22:JB:1402:G:C8	2.53	0.44
22:JB:1579:G:H2'	22:JB:1580:C:C6	2.53	0.44
22:JB:201:G:H2'	22:JB:202:A:H8	1.83	0.44
22:JB:2053:G:H2'	22:JB:2054:A:C8	2.53	0.44
22:JB:2258:G:N2	22:JB:2306:A:C6	2.86	0.44
22:JB:2365:U:O3'	44:JX:38:VAL:HG21	2.17	0.44
22:JB:2402:U:H4'	22:JB:2404:A:OP1	2.17	0.44
22:JB:2043:A:C2	22:JB:2424:G:H5'	2.53	0.44
22:JB:2523:G:H2'	22:JB:2524:G:O4'	2.18	0.44
22:JB:2601:C:HO2'	22:JB:2799:C:N4	2.14	0.44
22:JB:3170:A:H5'	53:J7:127:ALA:CB	2.47	0.44
22:JB:222:G:N2	22:JB:397:U:H1'	2.28	0.44
22:JB:465:C:O2	50:J4:39:ARG:HB2	2.18	0.44
22:JB:796:A:H8	22:JB:797:A:H4'	1.83	0.44
22:JB:979:A:H2'	22:JB:980:G:C8	2.53	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:JB:2206:C:O2'	24:JD:262:LYS:CE	2.66	0.44
25:JE:203:LYS:HB3	25:JE:203:LYS:HZ3	1.83	0.44
22:JB:2614:A:O3'	25:JE:79:ARG:HG3	2.17	0.44
27:JG:170:LEU:HA	27:JG:173:MET:HB3	2.00	0.44
28:JH:141:VAL:HG23	28:JH:142:GLY:N	2.33	0.44
28:JH:40:GLU:O	28:JH:41:LEU:HD22	2.18	0.44
28:JH:9:ILE:HD13	28:JH:69:ARG:HH12	1.83	0.44
29:JI:36:VAL:O	29:JI:37:SER:HB2	2.18	0.44
31:JK:122:HIS:N	31:JK:123:PRO:HD2	2.24	0.44
34:JN:10:PHE:CD2	34:JN:13:GLN:HB2	2.53	0.44
34:JN:35:LEU:HD22	34:JN:102:ARG:HD3	2.00	0.44
34:JN:55:MET:CE	34:JN:55:MET:HA	2.48	0.44
36:JP:38:ILE:HG21	36:JP:67:THR:O	2.18	0.44
37:JQ:107:LEU:HD22	37:JQ:109:GLU:O	2.18	0.44
44:JX:14:ARG:HG3	44:JX:15:ASP:N	2.32	0.44
44:JX:49:GLN:HB2	44:JX:73:GLY:HA3	2.00	0.44
1:AA:1103:C:P	2:AB:98:LEU:CD2	3.00	0.43
1:AA:1196:U:O4	1:AA:1397:C:C5	2.71	0.43
1:AA:214:U:H2'	1:AA:215:C:C6	2.53	0.43
1:AA:6:G:H4'	1:AA:298:A:O4'	2.18	0.43
1:AA:318:G:H2'	1:AA:319:G:C8	2.52	0.43
1:AA:592:G:H2'	1:AA:593:G:H8	1.81	0.43
1:AA:624:C:C5'	16:AP:11:SER:CA	2.89	0.43
1:AA:761:G:C2	17:AQ:104:LYS:CA	2.92	0.43
1:AA:815:A:C4	1:AA:1529:G:C6	3.06	0.43
1:AA:870:U:H3	1:AA:872:A:N6	2.15	0.43
2:AB:171:ALA:O	2:AB:174:VAL:HB	2.18	0.43
2:AB:32:ILE:HG22	2:AB:33:TYR:N	2.33	0.43
2:AB:48:MET:HE3	2:AB:52:GLU:HG3	2.00	0.43
1:AA:421:U:P	3:AC:127:ARG:HH21	2.40	0.43
1:AA:1107:C:OP1	3:AC:174:PRO:N	2.51	0.43
3:AC:34:LEU:HA	3:AC:37:GLN:OE1	2.18	0.43
4:AD:167:GLY:HA3	4:AD:168:ARG:HH21	1.83	0.43
4:AD:13:ARG:NH1	4:AD:33:MET:HA	2.33	0.43
1:AA:541:G:O2'	4:AD:43:HIS:HD2	2.01	0.43
5:AE:129:ILE:C	5:AE:131:ILE:H	2.21	0.43
8:AH:104:ARG:HH21	8:AH:138:TRP:HB3	1.83	0.43
10:AJ:42:THR:HG23	10:AJ:67:THR:H	1.83	0.43
11:AK:48:ILE:HG22	11:AK:49:GLY:N	2.33	0.43
15:AO:9:GLN:HA	15:AO:12:ILE:HD12	1.99	0.43
1:AA:958:A:C4	19:AS:56:GLN:CG	3.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:BB:2790:C:C2'	48:B2:42:SER:O	2.66	0.43
22:BB:187:U:H5''	50:B4:26:SER:OG	2.08	0.43
53:B7:60:LYS:HD2	53:B7:63:ARG:NH1	2.32	0.43
22:BB:1109:A:H4'	30:BJ:7:ILE:CG1	2.48	0.43
22:BB:1111:C:H1'	28:BH:168:GLN:NE2	2.33	0.43
22:BB:115:G:C5	22:BB:117:A:C5	3.06	0.43
22:BB:1251:G:O2'	22:BB:1252:C:H5'	2.18	0.43
22:BB:1307:U:O2	35:BO:23:ALA:HB1	2.18	0.43
22:BB:1401:G:H2'	22:BB:1402:G:C8	2.53	0.43
22:BB:1437:A:OP2	22:BB:1438:G:OP2	2.35	0.43
22:BB:1437:A:C1'	22:BB:1438:G:C8	2.99	0.43
22:BB:1545:G:N7	22:BB:1556:A:N1	2.66	0.43
22:BB:1683:G:O4'	32:BL:3:MET:CB	2.66	0.43
22:BB:1883:A:H1'	22:BB:1953:A:H3'	1.99	0.43
22:BB:2028:C:H2'	22:BB:2029:G:C8	2.52	0.43
22:BB:2564:U:O2'	22:BB:2565:C:H5''	2.18	0.43
22:BB:2617:G:O2'	22:BB:2618:A:H5'	2.18	0.43
22:BB:2709:C:H2'	22:BB:2710:C:C6	2.53	0.43
22:BB:2713:A:C3'	22:BB:2714:A:P	3.06	0.43
22:BB:2728:A:O2'	28:BH:67:LEU:CD2	2.40	0.43
22:BB:563:U:H2'	22:BB:564:U:C6	2.53	0.43
22:BB:728:G:H3'	22:BB:729:A:H8	1.83	0.43
22:BB:970:A:H2'	22:BB:971:A:C8	2.53	0.43
22:BB:1797:C:H2'	24:BD:49:ILE:HG13	1.34	0.43
22:BB:1672:A:O2'	25:BE:115:GLY:N	2.51	0.43
22:BB:2748:C:H5'	31:BK:121:LYS:HD2	1.16	0.43
31:BK:139:ARG:HB3	31:BK:140:GLN:H	1.54	0.43
1:AA:1471:G:P	32:BL:17:ARG:HD3	2.55	0.43
32:BL:83:ARG:O	32:BL:84:ALA:HB3	2.18	0.43
34:BN:10:PHE:CD2	34:BN:13:GLN:HB2	2.53	0.43
25:BE:19:ARG:CD	37:BQ:84:ALA:HB1	2.47	0.43
38:BR:33:ARG:NH2	38:BR:34:ASN:HD21	2.14	0.43
22:BB:1261:G:C6	38:BR:3:ARG:HA	2.52	0.43
22:BB:504:G:O3'	40:BT:25:PHE:HB3	2.18	0.43
22:BB:887:G:C4	43:BW:167:THR:CG2	3.01	0.43
1:CA:1126:U:H2'	1:CA:1127:G:O4'	2.18	0.43
1:CA:1187:G:O5'	9:CI:113:LYS:NZ	2.52	0.43
1:CA:1307:U:H4'	13:CM:109:THR:HB	2.00	0.43
1:CA:1360:A:OP2	14:CN:35:ARG:NH2	2.51	0.43
1:CA:1372:U:H2'	1:CA:1373:G:O4'	2.18	0.43
1:CA:1399:C:H4'	1:CA:1400:C:O5'	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:309:G:H2'	1:CA:310:G:C8	2.52	0.43
1:CA:318:G:H2'	1:CA:319:G:C8	2.53	0.43
1:CA:494:G:O2'	1:CA:495:U:H5'	2.18	0.43
1:CA:668:G:C5	15:CO:46:HIS:CD2	2.85	0.43
1:CA:741:G:O3'	15:CO:55:GLY:HA2	2.18	0.43
1:CA:888:G:H21	1:CA:909:A:H62	1.66	0.43
2:CB:215:LEU:HD23	2:CB:215:LEU:N	2.31	0.43
2:CB:90:MET:SD	2:CB:90:MET:N	2.91	0.43
3:CC:14:ILE:HD11	14:CN:57:ARG:NH1	2.33	0.43
3:CC:173:VAL:HG12	3:CC:182:ILE:HD11	1.99	0.43
4:CD:207:TYR:HA	4:CD:207:TYR:HD2	1.73	0.43
5:CE:102:ALA:CB	5:CE:120:THR:HB	2.48	0.43
6:CF:98:LEU:HD23	6:CF:99:ALA:H	1.83	0.43
7:CG:49:ILE:HG21	7:CG:124:LEU:HD12	2.00	0.43
1:CA:1349:A:H5''	9:CI:121:ARG:HG2	1.99	0.43
10:CJ:42:THR:HG23	10:CJ:67:THR:H	1.82	0.43
13:CM:71:ARG:HA	13:CM:74:VAL:HG23	1.99	0.43
13:CM:89:GLY:C	13:CM:95:GLY:N	2.50	0.43
15:CO:57:LEU:HD12	15:CO:60:VAL:HG21	2.00	0.43
1:CA:128:G:H5'	17:CQ:3:LYS:HG2	0.96	0.43
19:CS:63:THR:H	19:CS:66:MET:CG	2.30	0.43
20:CT:88:VAL:CB	20:CT:92:LEU:HD12	2.47	0.43
48:D2:33:CYS:CA	48:D2:40:LYS:HB2	2.45	0.43
53:D7:60:LYS:HD2	53:D7:63:ARG:NH1	2.32	0.43
23:DA:7:C:N3	23:DA:118:G:N1	2.66	0.43
22:DB:1007:A:N6	22:DB:1171:A:N6	2.66	0.43
22:DB:1335:A:H2'	22:DB:1336:G:C8	2.52	0.43
22:DB:1397:A:N1	22:DB:1418:C:N3	2.66	0.43
22:DB:1454:U:H2'	22:DB:1455:C:H6	1.83	0.43
22:DB:1416:A:H5'	22:DB:1485:U:H1'	1.97	0.43
22:DB:1507:A:C2	22:DB:1509:A:H4'	2.53	0.43
22:DB:1596:A:H2'	22:DB:1597:A:O4'	2.18	0.43
22:DB:872:G:O2'	22:DB:2247:A:N3	2.27	0.43
22:DB:2419:C:H2'	22:DB:2420:C:C4'	2.48	0.43
22:DB:2043:A:C2	22:DB:2424:G:H5'	2.53	0.43
22:DB:2564:U:O2'	22:DB:2565:C:H5''	2.18	0.43
22:DB:2646:C:N3	28:DH:109:TYR:HB2	2.32	0.43
22:DB:367:G:H2'	22:DB:368:A:C8	2.53	0.43
22:DB:3866:A:N7	53:D7:43:LYS:O	2.32	0.43
22:DB:412:U:H2'	22:DB:413:G:H5'	1.99	0.43
22:DB:542:A:C5	22:DB:570:G:N2	2.85	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:DB:696:U:C4'	50:D4:16:HIS:HD1	2.30	0.43
22:DB:728:G:H3'	22:DB:729:A:H8	1.83	0.43
22:DB:821:A:H2'	22:DB:822:G:O4'	2.18	0.43
22:DB:903:G:H5''	22:DB:904:U:H5	1.83	0.43
22:DB:964:A:H5'	34:DN:19:THR:O	2.18	0.43
22:DB:989:G:H2'	22:DB:990:A:O4'	2.18	0.43
25:DE:24:THR:HG22	25:DE:25:VAL:H	1.83	0.43
28:DH:141:VAL:HG23	28:DH:142:GLY:N	2.32	0.43
28:DH:50:LEU:HD22	28:DH:50:LEU:N	2.33	0.43
31:DK:29:VAL:N	31:DK:30:LYS:HZ1	2.15	0.43
38:DR:24:PHE:HB2	38:DR:28:ARG:HB2	1.99	0.43
22:DB:30:G:P	38:DR:8:ILE:HG21	2.53	0.43
22:DB:503:G:C4'	40:DT:28:ALA:O	2.64	0.43
43:DW:41:ARG:HH11	43:DW:44:ARG:NE	2.16	0.43
43:DW:45:GLN:O	43:DW:46:GLN:HB2	2.18	0.43
45:DY:52:GLN:O	45:DY:52:GLN:HG3	2.18	0.43
45:DY:57:LYS:O	45:DY:61:ALA:HB3	2.18	0.43
46:DZ:4:LYS:HD2	46:DZ:52:GLU:OE1	2.18	0.43
1:EA:1019:C:H2'	1:EA:1020:U:C6	2.53	0.43
1:EA:1323:G:H4'	1:EA:1362:C:N3	2.33	0.43
1:EA:1407:C:H4'	22:FB:1901:A:O2'	2.18	0.43
1:EA:140:A:H2'	1:EA:141:A:O4'	2.18	0.43
1:EA:520:A:H1'	12:EL:73:GLU:HB3	1.99	0.43
1:EA:683:G:H2'	1:EA:684:A:H8	1.83	0.43
1:EA:729:A:H2'	1:EA:730:G:C8	2.53	0.43
3:EC:128:PHE:HB3	3:EC:129:ALA:H	1.66	0.43
1:EA:1056:U:C5'	3:EC:162:GLN:O	2.65	0.43
4:ED:167:GLY:HA3	4:ED:168:ARG:HH21	1.83	0.43
4:ED:77:ASN:O	4:ED:80:GLU:HG2	2.18	0.43
4:ED:78:LEU:HB2	4:ED:93:PHE:CZ	2.53	0.43
5:EE:129:ILE:C	5:EE:131:ILE:H	2.21	0.43
5:EE:76:ILE:HG23	5:EE:118:ILE:CD1	2.48	0.43
9:EI:29:ASN:OD1	9:EI:64:THR:HA	2.18	0.43
10:EJ:78:ASN:O	10:EJ:79:ARG:C	2.56	0.43
12:EL:41:ARG:CG	12:EL:42:THR:H	2.30	0.43
1:EA:1330:U:P	13:EM:26:GLY:CA	3.03	0.43
14:EN:24:CYS:N	14:EN:33:VAL:HG11	2.33	0.43
15:EO:79:ARG:HA	15:EO:82:ILE:HD12	2.00	0.43
16:EP:39:TYR:CD2	16:EP:41:PRO:HG3	2.53	0.43
17:EQ:9:VAL:HG13	17:EQ:56:VAL:HG22	2.00	0.43
1:EA:278:G:O2'	17:EQ:95:TYR:O	2.22	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:ES:16:LEU:CA	19:ES:19:VAL:HG12	2.43	0.43
53:F7:174:MSE:HG2	53:F7:175:LYS:CD	2.47	0.43
22:FB:1139:A:N1	22:FB:2470:U:O4	2.51	0.43
22:FB:1302:C:H2'	22:FB:1303:U:O4'	2.17	0.43
22:FB:1397:A:C4'	22:FB:1416:A:O2'	2.65	0.43
22:FB:1507:A:H61	22:FB:2188:A:P	2.41	0.43
22:FB:1791:C:O2'	22:FB:1792:C:H3'	2.18	0.43
22:FB:1810:U:C6	24:FD:154:GLN:CD	2.92	0.43
22:FB:1887:G:C4	22:FB:1888:C:C6	3.05	0.43
22:FB:1911:A:H3'	22:FB:1912:G:C8	2.53	0.43
22:FB:2218:G:C5'	24:FD:248:THR:CG2	2.93	0.43
22:FB:2240:C:C4'	44:FX:14:ARG:CG	2.96	0.43
22:FB:2399:C:OP1	51:F5:33:ASN:C	2.55	0.43
22:FB:23:G:H4'	40:FT:96:TYR:HH	1.81	0.43
22:FB:2043:A:C2	22:FB:2424:G:H5'	2.53	0.43
22:FB:2475:C:C2'	22:FB:2476:A:H5'	2.47	0.43
22:FB:2634:G:N2	22:FB:2642:G:N7	2.66	0.43
22:FB:3177:C:H5'	53:F7:164:GLN:NE2	2.33	0.43
22:FB:348:U:H5''	42:FV:13:LYS:HD3	2.00	0.43
22:FB:536:A:H5''	22:FB:537:C:H4'	2.00	0.43
22:FB:546:A:H2	31:FK:73:ASN:CG	2.22	0.43
22:FB:672:C:H4'	26:FF:95:LEU:N	2.33	0.43
22:FB:964:A:H61	22:FB:975:C:N4	2.13	0.43
26:FF:15:ILE:CG2	26:FF:16:GLU:H	2.19	0.43
27:FG:168:ALA:O	27:FG:171:GLN:HB2	2.18	0.43
28:FH:50:LEU:N	28:FH:50:LEU:HD22	2.33	0.43
36:FP:38:ILE:HG21	36:FP:67:THR:O	2.18	0.43
22:FB:458:G:H5''	38:FR:5:LYS:HZ3	1.80	0.43
22:FB:507:A:O5'	40:FT:20:LEU:N	2.48	0.43
40:FT:56:LEU:HG	48:F2:27:ALA:HA	1.99	0.43
43:FW:10:PRO:O	43:FW:14:LEU:HD23	2.18	0.43
43:FW:41:ARG:HH11	43:FW:44:ARG:HE	1.66	0.43
1:GA:108:G:O6	20:GT:15:ARG:HD3	2.14	0.43
1:GA:1127:G:H2'	1:GA:1128:C:H6	1.83	0.43
1:GA:1133:G:N1	1:GA:1134:G:H1'	2.33	0.43
1:GA:1182:G:H4'	1:GA:1183:A:O5'	2.18	0.43
1:GA:1392:G:P	1:GA:1531:A:O5'	2.76	0.43
1:GA:66:G:H5'	1:GA:198:G:N2	2.32	0.43
1:GA:402:G:O4'	1:GA:621:A:N3	2.51	0.43
1:GA:529:G:H4'	1:GA:533:A:C4	2.52	0.43
1:GA:560:U:HO2'	1:GA:561:U:P	2.40	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:GC:70:VAL:HG12	3:GC:71:ALA:N	2.33	0.43
4:GD:3:ARG:HH11	4:GD:118:ARG:CZ	2.31	0.43
7:GG:85:TYR:O	7:GG:87:VAL:HG23	2.17	0.43
8:GH:111:ILE:HD13	8:GH:120:THR:HG22	2.00	0.43
10:GJ:10:GLY:HA3	10:GJ:16:LEU:HD21	1.99	0.43
12:GL:6:THR:N	12:GL:9:GLN:HG3	2.33	0.43
1:GA:1114:C:C2	14:GN:61:TRP:HA	2.22	0.43
16:GP:20:VAL:HG22	16:GP:32:TYR:CZ	2.53	0.43
17:GQ:25:ARG:C	17:GQ:39:SER:HB3	2.38	0.43
20:GT:88:VAL:CB	20:GT:92:LEU:HD12	2.47	0.43
22:HB:2030:U:H5'	48:H2:19:ARG:NH2	2.33	0.43
22:HB:1029:C:H2'	22:HB:1030:U:H4'	2.00	0.43
22:HB:1321:A:H2'	22:HB:1322:G:O4'	2.18	0.43
22:HB:1545:G:N7	22:HB:1556:A:N1	2.66	0.43
22:HB:167:A:H2'	22:HB:168:A:O4'	2.18	0.43
22:HB:2523:G:H2'	22:HB:2524:G:O4'	2.18	0.43
22:HB:297:A:H61	22:HB:366:U:H3	1.62	0.43
24:HD:170:SER:C	24:HD:172:TYR:N	2.71	0.43
24:HD:247:VAL:O	24:HD:250:TRP:HB2	2.18	0.43
24:HD:252:LYS:N	24:HD:253:PRO:CD	2.80	0.43
25:HE:30:PRO:HD2	25:HE:90:SER:OG	2.18	0.43
25:HE:59:VAL:CG1	25:HE:61:LYS:HG3	2.46	0.43
27:HG:170:LEU:HA	27:HG:173:MET:HB3	2.00	0.43
27:HG:63:GLN:HB3	27:HG:63:GLN:HE21	1.59	0.43
27:HG:66:ILE:O	27:HG:66:ILE:HG22	2.18	0.43
28:HH:97:LYS:O	28:HH:103:LEU:HD12	2.17	0.43
25:HE:151:TYR:N	31:HK:106:TYR:CZ	2.73	0.43
31:HK:139:ARG:NH1	31:HK:142:ARG:HD2	2.33	0.43
32:HL:9:ASP:OD2	32:HL:10:VAL:HG22	2.17	0.43
32:HL:46:HIS:CB	32:HL:121:ARG:HH21	2.31	0.43
22:HB:825:C:OP2	33:HM:32:ARG:O	2.36	0.43
25:HE:52:ALA:C	37:HQ:5:ILE:HD13	2.32	0.43
41:HU:7:LEU:HD12	41:HU:41:ALA:O	2.18	0.43
41:HU:54:SER:HB2	41:HU:79:ILE:HB	1.99	0.43
42:HV:83:LEU:HD12	42:HV:92:THR:HG21	2.00	0.43
43:HW:13:LYS:HG2	43:HW:20:ALA:HA	1.99	0.43
43:HW:41:ARG:HH11	43:HW:44:ARG:NE	2.16	0.43
1:IA:1127:G:H2'	1:IA:1128:C:H6	1.83	0.43
1:IA:112:G:H1	1:IA:315:A:N6	2.14	0.43
1:IA:127:G:H2'	1:IA:128:G:C8	2.47	0.43
1:IA:1391:U:H2'	1:IA:1392:G:C8	2.53	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:IA:529:G:H4'	1:IA:533:A:C4	2.52	0.43
1:IA:870:U:H3	1:IA:872:A:N6	2.15	0.43
2:IB:93:VAL:HA	2:IB:148:TYR:O	2.18	0.43
4:ID:77:ASN:O	4:ID:80:GLU:HG2	2.18	0.43
5:IE:130:ASN:HA	5:IE:133:TYR:CE1	2.53	0.43
5:IE:129:ILE:C	5:IE:131:ILE:H	2.22	0.43
6:IF:77:ARG:O	6:IF:81:ILE:HG13	2.18	0.43
7:IG:23:VAL:O	7:IG:27:ILE:HG13	2.17	0.43
9:II:44:VAL:O	9:II:47:LEU:HD23	2.18	0.43
9:II:55:ALA:HA	9:II:58:ARG:HH21	1.82	0.43
9:II:29:ASN:OD1	9:II:64:THR:HA	2.18	0.43
11:IK:20:TYR:CB	11:IK:31:THR:HB	2.45	0.43
1:IA:692:U:O4	11:IK:52:GLY:HA2	2.18	0.43
13:IM:3:ARG:HA	13:IM:8:GLU:O	2.18	0.43
1:IA:449:C:C5'	16:IP:43:LYS:O	2.60	0.43
17:IQ:9:VAL:O	17:IQ:11:VAL:HG13	2.18	0.43
19:IS:45:VAL:HG13	19:IS:62:ILE:CG1	2.44	0.43
40:JT:60:ILE:HB	48:J2:25:LEU:HD11	1.99	0.43
51:J5:31:HIS:HB3	51:J5:32:GLN:H	1.62	0.43
23:JA:119:G:H2'	23:JA:119:G:N3	2.33	0.43
23:JA:119:G:O5'	36:JP:39:TYR:OH	2.36	0.43
23:JA:49:C:OP1	36:JP:94:TYR:CE1	2.71	0.43
22:JB:1148:G:C6	22:JB:1149:G:H1'	2.53	0.43
22:JB:1197:U:C4	22:JB:1198:C:O2	2.71	0.43
22:JB:1545:G:N7	22:JB:1556:A:N1	2.66	0.43
22:JB:1829:C:HO2'	22:JB:1910:A:H1'	1.74	0.43
22:JB:1911:A:H3'	22:JB:1912:G:C8	2.53	0.43
22:JB:2222:U:H2'	22:JB:2223:U:C6	2.53	0.43
22:JB:2317:G:H2'	22:JB:2318:U:C6	2.53	0.43
22:JB:2419:C:H2'	22:JB:2420:C:C4'	2.48	0.43
22:JB:2505:G:H4'	52:J6:33:LYS:O	2.18	0.43
22:JB:2617:G:O6	22:JB:2755:A:H2'	2.17	0.43
22:JB:3093:C:O2'	29:JI:28:TRP:CD2	2.69	0.43
22:JB:3122:U:H3'	53:J7:131:ARG:HB3	1.76	0.43
22:JB:455:A:N6	26:JF:91:TYR:CZ	2.86	0.43
22:JB:512:A:O2'	40:JT:15:LYS:CG	2.47	0.43
22:JB:528:G:OP1	40:JT:36:ARG:HA	2.18	0.43
22:JB:546:A:H2'	22:JB:547:U:H5	1.81	0.43
22:JB:573:C:O2'	22:JB:574:C:H5'	2.18	0.43
22:JB:642:A:H2	22:JB:2393:G:C2	2.32	0.43
22:JB:838:A:H5''	22:JB:2407:G:C6	2.53	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:JB:839:U:OP1	22:JB:2407:G:H3'	2.18	0.43
24:JD:47:GLY:O	24:JD:48:ARG:HB2	2.18	0.43
24:JD:78:LYS:HD2	24:JD:78:LYS:N	2.33	0.43
25:JE:72:VAL:HG22	25:JE:73:ALA:N	2.27	0.43
25:JE:29:GLY:CA	25:JE:90:SER:H	2.28	0.43
26:JF:116:LYS:HE3	26:JF:116:LYS:H	1.83	0.43
1:EA:1022:G:H5'	27:JG:179:LYS:HE3	1.93	0.43
34:JN:48:ILE:HA	34:JN:51:CYS:HB2	2.00	0.43
42:JV:72:ARG:HG3	42:JV:73:GLU:N	2.33	0.43
22:JB:1001:A:H5'	46:JZ:27:LYS:HZ3	1.54	0.43
1:AA:1126:U:H2'	1:AA:1127:G:O4'	2.18	0.43
1:AA:1372:U:H2'	1:AA:1373:G:O4'	2.18	0.43
1:AA:1399:C:H4'	1:AA:1400:C:O5'	2.18	0.43
1:AA:159:G:H1'	1:AA:162:A:H61	1.81	0.43
1:AA:359:U:H2'	1:AA:360:A:O4'	2.18	0.43
1:AA:551:U:H2'	1:AA:552:U:C5	2.53	0.43
1:AA:825:G:H2'	1:AA:826:C:O4'	2.18	0.43
1:AA:917:G:H2'	1:AA:918:A:O4'	2.18	0.43
1:AA:918:A:H2'	1:AA:919:A:C8	2.53	0.43
6:AF:10:LEU:HB3	6:AF:85:VAL:CA	2.47	0.43
9:AI:55:ALA:HA	9:AI:58:ARG:HH21	1.82	0.43
10:AJ:38:ILE:HD11	10:AJ:72:VAL:H	1.83	0.43
12:AL:5:PRO:HA	12:AL:9:GLN:C	2.38	0.43
13:AM:37:THR:HG22	13:AM:55:ARG:HE	1.82	0.43
1:AA:279:A:H8	17:AQ:95:TYR:CZ	2.36	0.43
17:AQ:9:VAL:HG13	17:AQ:56:VAL:HG22	2.00	0.43
47:B1:58:LYS:C	47:B1:60:ASN:H	2.21	0.43
22:BB:699:G:H2'	50:B4:6:GLN:HB2	1.92	0.43
53:B7:34:LEU:HA	53:B7:204:TYR:HB2	1.99	0.43
22:BB:1077:U:H3'	22:BB:1078:A:H5''	1.99	0.43
22:BB:1134:C:H2'	22:BB:1135:C:C6	2.52	0.43
22:BB:1321:A:H2'	22:BB:1322:G:O4'	2.18	0.43
22:BB:1447:U:H2'	22:BB:1448:A:O4'	2.17	0.43
22:BB:155:G:H2'	22:BB:156:G:C8	2.53	0.43
22:BB:427:C:H5'	22:BB:1862:C:O2	2.18	0.43
22:BB:1932:G:H2'	22:BB:1933:G:H8	1.82	0.43
22:BB:1146:G:H1'	22:BB:2021:G:C4'	2.48	0.43
22:BB:2190:A:H5''	22:BB:2191:A:O5'	2.18	0.43
22:BB:2317:G:H2'	22:BB:2318:U:C6	2.53	0.43
22:BB:219:G:N2	22:BB:231:G:N7	2.66	0.43
22:BB:2043:A:C2	22:BB:2424:G:H5'	2.53	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:BB:2617:G:O6	22:BB:2755:A:H2'	2.18	0.43
22:BB:295:C:N4	22:BB:368:A:N6	2.64	0.43
22:BB:536:A:H5''	22:BB:537:C:H4'	2.00	0.43
22:BB:964:A:H61	22:BB:975:C:N4	2.13	0.43
22:BB:2557:G:O2'	25:BE:133:LYS:CE	2.65	0.43
25:BE:29:GLY:CA	25:BE:90:SER:H	2.28	0.43
28:BH:97:LYS:O	28:BH:103:LEU:HD12	2.17	0.43
30:BJ:111:LYS:HD3	30:BJ:123:ALA:C	2.39	0.43
22:BB:596:C:C1'	33:BM:29:THR:HB	2.46	0.43
22:BB:637:G:N2	33:BM:72:TYR:CZ	2.70	0.43
33:BM:75:VAL:HG22	33:BM:76:LYS:H	1.83	0.43
33:BM:7:LYS:N	33:BM:8:PRO:CD	2.79	0.43
37:BQ:28:ARG:HG3	37:BQ:30:GLY:H	1.82	0.43
44:BX:24:LYS:HB3	44:BX:25:LYS:H	1.50	0.43
1:CA:1019:C:H2'	1:CA:1020:U:C6	2.53	0.43
1:CA:1182:G:H4'	1:CA:1183:A:O5'	2.18	0.43
1:CA:1323:G:H4'	1:CA:1362:C:N3	2.33	0.43
1:CA:815:A:N1	1:CA:1529:G:N3	2.61	0.43
1:CA:66:G:H5'	1:CA:198:G:N2	2.33	0.43
1:CA:211:G:N3	1:CA:211:G:C2'	2.79	0.43
1:CA:197:A:C4	1:CA:221:C:H4'	2.53	0.43
1:CA:359:U:H2'	1:CA:360:A:O4'	2.18	0.43
1:CA:637:G:H2'	1:CA:638:G:C8	2.53	0.43
1:CA:691:G:O6	11:CK:51:LYS:O	2.36	0.43
1:CA:870:U:H3	1:CA:872:A:N6	2.15	0.43
1:CA:8:A:H3'	5:CE:121:LYS:HZ3	1.83	0.43
3:CC:34:LEU:HA	3:CC:37:GLN:OE1	2.18	0.43
4:CD:110:PHE:HA	4:CD:161:ASN:HB2	2.00	0.43
4:CD:77:ASN:O	4:CD:80:GLU:HG2	2.18	0.43
6:CF:48:LEU:HD21	6:CF:60:PHE:CZ	2.54	0.43
7:CG:49:ILE:HG12	7:CG:53:LYS:NZ	2.33	0.43
8:CH:45:ILE:HD12	8:CH:47:GLY:O	2.18	0.43
11:CK:122:LYS:HB2	11:CK:123:LYS:HD3	1.99	0.43
11:CK:23:ALA:HB3	11:CK:86:GLY:C	2.38	0.43
12:CL:41:ARG:HH11	12:CL:41:ARG:HB3	1.83	0.43
13:CM:15:VAL:HG21	13:CM:48:LEU:HD11	2.00	0.43
13:CM:56:LEU:HA	13:CM:60:VAL:CG2	2.48	0.43
15:CO:36:ILE:HD11	15:CO:63:ARG:NH1	2.33	0.43
1:CA:741:G:O3'	15:CO:58:MET:HE3	2.18	0.43
20:CT:96:GLY:O	20:CT:97:ALA:HB3	2.18	0.43
50:D4:40:HIS:ND1	50:D4:41:GLN:N	2.66	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:DB:9:U:O2'	22:DB:10:A:H8	1.99	0.43
22:DB:1135:C:C2'	52:D6:4:ARG:C	2.58	0.43
22:DB:1302:C:H2'	22:DB:1303:U:O4'	2.17	0.43
22:DB:147:G:N3	22:DB:147:G:C2'	2.71	0.43
22:DB:1545:G:N7	22:DB:1556:A:N1	2.66	0.43
22:DB:1681:A:H2'	22:DB:1682:A:O4'	2.18	0.43
22:DB:1810:U:OP1	24:DD:157:ARG:HG3	2.07	0.43
22:DB:1831:G:H5''	22:DB:1910:A:C4'	2.37	0.43
22:DB:1883:A:O2'	22:DB:1954:A:OP2	2.30	0.43
22:DB:2028:C:H2'	22:DB:2029:G:C8	2.52	0.43
22:DB:2277:A:H2'	22:DB:2278:A:H5'	2.00	0.43
22:DB:219:G:N2	22:DB:231:G:N7	2.66	0.43
22:DB:2617:G:O2'	22:DB:2618:A:H5'	2.18	0.43
22:DB:2679:G:C3'	22:DB:2680:U:H5''	2.48	0.43
22:DB:2709:C:H2'	22:DB:2710:C:C6	2.53	0.43
22:DB:295:C:H42	22:DB:368:A:H61	1.65	0.43
22:DB:625:A:C4'	26:DF:38:ARG:HE	2.30	0.43
22:DB:800:U:OP1	22:DB:801:A:H5'	2.18	0.43
22:DB:891:A:N3	22:DB:909:C:N3	2.65	0.43
22:DB:918:A:O4'	43:DW:120:LEU:CD1	2.67	0.43
22:DB:964:A:H61	22:DB:975:C:N4	2.13	0.43
22:DB:970:A:H2'	22:DB:971:A:C8	2.53	0.43
22:DB:984:A:H5'	22:DB:1202:U:C1'	2.48	0.43
24:DD:49:ILE:HG22	24:DD:50:THR:H	1.83	0.43
27:DG:35:VAL:CG1	27:DG:88:LYS:HA	2.49	0.43
22:DB:1069:G:OP2	30:DJ:9:LYS:CE	2.66	0.43
31:DK:139:ARG:NH1	31:DK:142:ARG:HD2	2.33	0.43
31:DK:31:THR:HB	31:DK:71:THR:OG1	2.18	0.43
33:DM:50:GLU:CD	51:D5:58:MET:CE	2.87	0.43
37:DQ:100:ARG:N	37:DQ:100:ARG:HD3	2.33	0.43
37:DQ:80:VAL:HG12	37:DQ:82:PRO:HD3	1.99	0.43
39:DS:32:LYS:HA	39:DS:63:HIS:O	2.18	0.43
22:DB:1237:G:HO2'	39:DS:86:HIS:HA	1.79	0.43
44:DX:34:GLY:O	44:DX:68:VAL:HA	2.18	0.43
1:EA:1001:A:N6	1:EA:1039:C:H42	2.15	0.43
1:EA:1102:A:N3	2:EB:108:ILE:HD13	2.16	0.43
1:EA:1279:A:O2'	1:EA:1281:U:H5''	2.18	0.43
1:EA:1360:A:H2'	1:EA:1361:G:H5'	2.00	0.43
1:EA:137:C:H1'	1:EA:227:G:H22	1.82	0.43
1:EA:254:G:H2'	1:EA:255:G:H8	1.83	0.43
1:EA:359:U:H2'	1:EA:360:A:O4'	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:EA:546:G:N3	1:EA:546:G:H2'	2.33	0.43
1:EA:637:G:H2'	1:EA:638:G:C8	2.53	0.43
1:EA:666:G:O2'	1:EA:667:G:H5'	2.19	0.43
1:EA:825:G:H2'	1:EA:826:C:O4'	2.18	0.43
1:EA:888:G:H21	1:EA:909:A:H62	1.67	0.43
2:EB:172:ILE:HG22	2:EB:176:GLU:CD	2.38	0.43
2:EB:8:LYS:HB2	2:EB:9:GLU:H	1.50	0.43
4:ED:79:PHE:HB2	4:ED:93:PHE:CE1	2.53	0.43
1:EA:1350:A:N3	7:EG:33:ASP:O	2.50	0.43
1:EA:654:G:C4	8:EH:2:LEU:HD23	2.53	0.43
9:EI:18:PHE:H	9:EI:62:TYR:HD2	1.66	0.43
9:EI:77:ILE:O	9:EI:81:ILE:HG13	2.18	0.43
10:EJ:83:GLU:HA	10:EJ:86:MET:SD	2.58	0.43
1:EA:684:A:O2'	11:EK:40:ILE:O	2.36	0.43
11:EK:13:GLN:NE2	11:EK:75:TYR:HB3	2.29	0.43
12:EL:6:THR:N	12:EL:9:GLN:HG3	2.33	0.43
13:EM:55:ARG:O	13:EM:59:TYR:HB3	2.18	0.43
1:EA:375:U:C2'	16:EP:17:TYR:CE2	3.01	0.43
48:F2:45:ILE:HG23	48:F2:51:TYR:N	2.33	0.43
23:FA:84:G:H2'	23:FA:85:G:C8	2.53	0.43
22:FB:1507:A:C2	22:FB:1509:A:H4'	2.53	0.43
22:FB:1893:G:O2'	22:FB:1894:U:H5'	2.18	0.43
22:FB:1932:G:H2'	22:FB:1933:G:H8	1.82	0.43
22:FB:2190:A:H5''	22:FB:2191:A:O5'	2.18	0.43
22:FB:2240:C:C1'	22:FB:2367:A:O4'	2.66	0.43
22:FB:2254:C:O3'	34:FN:86:LYS:CG	2.66	0.43
22:FB:2317:G:H2'	22:FB:2318:U:C6	2.53	0.43
22:FB:2325:A:O3'	49:F3:25:THR:HG21	2.18	0.43
22:FB:2597:G:O2'	25:FE:150:VAL:HB	2.17	0.43
22:FB:50:G:N2	22:FB:117:A:C4	2.86	0.43
22:FB:544:U:OP1	38:FR:22:LYS:CD	2.59	0.43
22:FB:818:G:O2'	33:FM:41:SER:CB	2.66	0.43
24:FD:67:PHE:HD2	24:FD:103:ARG:NH2	2.16	0.43
31:FK:41:TRP:HE1	31:FK:164:GLN:CB	2.29	0.43
34:FN:10:PHE:CD2	34:FN:13:GLN:HB2	2.53	0.43
34:FN:38:MET:HA	34:FN:99:LYS:HD2	2.00	0.43
38:FR:33:ARG:HB3	38:FR:34:ASN:H	1.67	0.43
38:FR:47:TYR:N	39:FS:75:LYS:N	2.54	0.43
22:FB:1005:U:H5'	38:FR:51:ARG:NH1	2.33	0.43
22:FB:24:G:C1'	40:FT:98:ASP:CB	2.85	0.43
42:FV:36:VAL:HG12	42:FV:37:LEU:N	2.33	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:FX:34:GLY:O	44:FX:68:VAL:HA	2.18	0.43
1:GA:1021:G:H2'	1:GA:1022:G:H4'	1.99	0.43
1:GA:1063:C:OP2	1:GA:1063:C:H3'	2.17	0.43
1:GA:1391:U:H2'	1:GA:1392:G:C8	2.54	0.43
1:GA:1520:G:H2'	1:GA:1521:G:H8	1.81	0.43
3:GC:173:VAL:HG12	3:GC:182:ILE:HD11	1.99	0.43
4:GD:167:GLY:HA3	4:GD:168:ARG:HH21	1.83	0.43
4:GD:79:PHE:HB2	4:GD:93:PHE:CE1	2.53	0.43
5:GE:151:LEU:HA	8:GH:77:GLU:OE2	2.18	0.43
6:GF:79:LEU:O	6:GF:85:VAL:HB	2.18	0.43
6:GF:81:ILE:HG22	24:HD:137:PRO:CB	2.47	0.43
7:GG:23:VAL:O	7:GG:27:ILE:HG13	2.17	0.43
10:GJ:7:LYS:NZ	10:GJ:69:ASN:HD22	2.16	0.43
10:GJ:26:ALA:HB3	10:GJ:85:LEU:HD21	2.01	0.43
11:GK:104:GLN:HG2	11:GK:105:VAL:H	1.83	0.43
11:GK:48:ILE:HG22	11:GK:49:GLY:N	2.33	0.43
12:GL:5:PRO:HA	12:GL:9:GLN:C	2.38	0.43
14:GN:33:VAL:CG1	14:GN:40:CYS:HB3	2.48	0.43
9:GI:111:ARG:CD	14:GN:61:TRP:CZ2	2.94	0.43
15:GO:9:GLN:HA	15:GO:12:ILE:HD12	1.99	0.43
16:GP:39:TYR:CD2	16:GP:41:PRO:HG3	2.53	0.43
49:H3:47:HIS:O	49:H3:48:VAL:HG12	2.19	0.43
50:H4:11:LYS:HA	50:H4:11:LYS:HZ2	1.83	0.43
51:H5:50:LEU:HD23	51:H5:52:LYS:NZ	2.33	0.43
53:H7:34:LEU:HD22	53:H7:165:VAL:HG23	1.99	0.43
23:HA:7:C:N3	23:HA:118:G:N1	2.66	0.43
22:HB:1401:G:H2'	22:HB:1402:G:C8	2.53	0.43
22:HB:1823:G:N2	22:HB:1958:G:H1'	2.33	0.43
22:HB:201:G:H2'	22:HB:202:A:H8	1.83	0.43
22:HB:2317:G:H2'	22:HB:2318:U:C6	2.53	0.43
22:HB:219:G:N2	22:HB:231:G:N7	2.66	0.43
22:HB:2573:C:H2'	22:HB:2574:G:H8	1.82	0.43
22:HB:2591:C:O2	48:H2:5:PRO:HD3	2.18	0.43
22:HB:2592:U:H4'	22:HB:2593:A:OP1	2.18	0.43
22:HB:2617:G:C2'	22:HB:2617:G:N3	2.78	0.43
22:HB:2701:A:N3	35:HO:5:LYS:CE	2.80	0.43
22:HB:2617:G:O6	22:HB:2755:A:H2'	2.17	0.43
22:HB:546:A:H2'	22:HB:547:U:H5	1.81	0.43
22:HB:586:G:H2'	22:HB:587:A:C8	2.53	0.43
22:HB:634:G:H2'	22:HB:635:C:C6	2.53	0.43
22:HB:699:G:N9	50:H4:5:TYR:C	2.71	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:HB:796:A:H8	22:HB:797:A:H4'	1.83	0.43
22:HB:970:A:H2'	22:HB:971:A:C8	2.53	0.43
24:HD:43:ARG:NH1	24:HD:60:ARG:HD2	2.34	0.43
25:HE:111:LYS:HG2	25:HE:112:GLY:N	2.33	0.43
26:HF:116:LYS:H	26:HF:116:LYS:HE3	1.83	0.43
28:HH:9:ILE:HD13	28:HH:69:ARG:HH12	1.83	0.43
22:HB:1079:G:H5'	30:HJ:13:PRO:HG3	1.99	0.43
31:HK:65:LYS:HG2	31:HK:66:HIS:CD2	2.53	0.43
22:HB:2372:A:O2'	33:HM:61:PRO:O	2.32	0.43
34:HN:10:PHE:CD2	34:HN:13:GLN:HB2	2.53	0.43
34:HN:63:GLY:N	43:HW:110:GLY:HA2	2.34	0.43
35:HO:54:THR:HB	35:HO:62:SER:HB3	2.00	0.43
37:HQ:100:ARG:HD3	37:HQ:100:ARG:N	2.33	0.43
22:HB:825:C:C4'	38:HR:13:ARG:HH21	1.94	0.43
22:HB:1261:G:N7	38:HR:2:PRO:C	2.71	0.43
45:HY:52:GLN:O	45:HY:52:GLN:HG3	2.18	0.43
46:HZ:4:LYS:HD2	46:HZ:52:GLU:OE1	2.19	0.43
1:IA:1019:C:H2'	1:IA:1020:U:C6	2.53	0.43
1:IA:1239:A:H2'	1:IA:1298:C:H42	1.82	0.43
1:IA:1333:A:C2	1:IA:1334:G:H1'	2.53	0.43
1:IA:1351:U:O4'	7:IG:33:ASP:CG	2.56	0.43
1:IA:214:U:H2'	1:IA:215:C:C6	2.53	0.43
1:IA:375:U:H2'	1:IA:376:G:O4'	2.18	0.43
1:IA:665:A:C8	1:IA:733:A:H1'	2.52	0.43
1:IA:80:C:H2'	1:IA:81:C:C6	2.53	0.43
1:IA:837:G:H2'	1:IA:838:C:C6	2.53	0.43
1:IA:942:G:H2'	1:IA:943:U:C6	2.52	0.43
1:IA:961:U:O2'	1:IA:962:C:H5'	2.18	0.43
2:IB:90:MET:N	2:IB:90:MET:SD	2.91	0.43
4:ID:168:ARG:HE	4:ID:168:ARG:N	2.17	0.43
1:IA:932:C:OP1	7:IG:4:ARG:HA	2.18	0.43
8:IH:44:PHE:N	8:IH:64:LYS:HZ3	2.16	0.43
8:IH:83:ILE:O	8:IH:84:ARG:HB2	2.18	0.43
9:II:11:LYS:HA	9:II:104:ARG:NH2	2.25	0.43
11:IK:31:THR:O	11:IK:32:ILE:HD13	2.18	0.43
18:IR:34:TYR:HA	18:IR:37:VAL:CG2	2.49	0.43
1:IA:1221:G:H4'	19:IS:77:THR:HG1	1.83	0.43
22:JB:1630:A:H5''	50:J4:3:ARG:HD3	1.97	0.43
33:JM:62:LYS:CG	51:J5:30:ARG:NE	2.71	0.43
22:JB:1003:C:O2	39:JS:88:GLN:HA	2.18	0.43
22:JB:1007:A:N6	22:JB:1170:U:C4	2.85	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:JB:1040:A:H1'	22:JB:2465:G:O4'	2.17	0.43
22:JB:1454:U:H2'	22:JB:1455:C:H6	1.83	0.43
22:JB:1501:C:O2'	22:JB:1502:G:H5'	2.17	0.43
22:JB:16:G:H1'	48:J2:18:MET:HE3	0.95	0.43
22:JB:1914:U:H5	22:JB:1951:G:C2	2.36	0.43
22:JB:2262:C:H5'	49:J3:9:ILE:CB	2.48	0.43
22:JB:2634:G:N2	22:JB:2642:G:N7	2.66	0.43
22:JB:3167:U:O3'	53:J7:97:LYS:NZ	2.50	0.43
22:JB:3187:U:OP1	29:J1:11:LEU:CD1	2.66	0.43
22:JB:468:A:H2'	22:JB:469:G:H4'	1.99	0.43
22:JB:586:G:H2'	22:JB:587:A:C8	2.53	0.43
22:JB:75:C:H3'	45:JY:56:VAL:HG11	2.00	0.43
22:JB:970:A:H2'	22:JB:971:A:C8	2.53	0.43
24:JD:55:GLY:H	24:JD:220:HIS:CE1	2.36	0.43
24:JD:43:ARG:NH1	24:JD:60:ARG:HD2	2.34	0.43
25:JE:111:LYS:HG2	25:JE:112:GLY:N	2.33	0.43
22:JB:2600:A:H4'	25:JE:158:GLY:C	2.38	0.43
25:JE:30:PRO:HD2	25:JE:90:SER:OG	2.18	0.43
26:JF:56:ARG:O	26:JF:57:LYS:HB2	2.18	0.43
22:JB:672:C:C2	26:JF:96:PRO:HD3	2.53	0.43
27:JG:99:PHE:O	27:JG:103:LEU:HG	2.17	0.43
28:JH:29:PRO:HG2	28:JH:79:VAL:HA	2.00	0.43
31:JK:43:VAL:HG21	31:JK:165:VAL:HA	2.00	0.43
32:JL:46:HIS:CB	32:JL:121:ARG:HH21	2.31	0.43
35:JO:103:ARG:HB3	35:JO:106:ASP:OD2	2.17	0.43
22:JB:2689:C:P	35:JO:15:SER:OG	2.76	0.43
35:JO:5:LYS:NZ	35:JO:6:ALA:HB2	2.18	0.43
37:JQ:100:ARG:HB2	37:JQ:120:ASP:O	2.18	0.43
37:JQ:18:GLN:HA	37:JQ:21:THR:HG23	2.00	0.43
37:JQ:80:VAL:HG12	37:JQ:82:PRO:HD3	1.99	0.43
38:JR:38:THR:O	38:JR:41:ASN:HB3	2.18	0.43
39:JS:63:HIS:HA	39:JS:95:ILE:CD1	2.47	0.43
43:JW:96:VAL:HA	43:JW:97:PRO:HD2	1.37	0.43
22:JB:75:C:C1'	45:JY:56:VAL:HG13	2.48	0.43
1:AA:1019:C:H2'	1:AA:1020:U:C6	2.53	0.43
1:AA:1112:C:H2'	3:AC:178:LEU:CD2	2.43	0.43
1:AA:1127:G:H2'	1:AA:1128:C:H6	1.83	0.43
1:AA:1391:U:H2'	1:AA:1392:G:C8	2.53	0.43
1:AA:17:U:N3	1:AA:1079:G:N2	2.65	0.43
1:AA:211:G:C2'	1:AA:211:G:N3	2.79	0.43
1:AA:309:G:H2'	1:AA:310:G:C8	2.52	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:332:G:H5''	20:AT:13:LEU:HG	2.00	0.43
1:AA:518:C:H42	12:AL:47:LYS:HD2	0.46	0.43
1:AA:127:G:O5'	1:AA:635:G:H1'	2.19	0.43
1:AA:637:G:H2'	1:AA:638:G:C8	2.53	0.43
1:AA:903:G:H2'	1:AA:904:C:C6	2.54	0.43
2:AB:98:LEU:H	2:AB:101:MET:HE3	1.83	0.43
7:AG:49:ILE:HG21	7:AG:124:LEU:HD12	2.01	0.43
7:AG:23:VAL:O	7:AG:27:ILE:HG13	2.17	0.43
11:AK:58:PRO:HB2	11:AK:93:GLN:HG2	1.98	0.43
13:AM:88:ARG:HD3	13:AM:98:VAL:HG21	1.72	0.43
15:AO:57:LEU:HD12	15:AO:60:VAL:HG21	2.00	0.43
15:AO:78:TYR:CD2	15:AO:79:ARG:HG3	2.54	0.43
20:AT:30:LYS:O	20:AT:34:LYS:HG3	2.17	0.43
50:B4:8:ASN:HD21	50:B4:10:ARG:HE	1.66	0.43
53:B7:93:LEU:HD13	53:B7:124:LEU:HD11	2.00	0.43
22:BB:1861:G:C2	53:B7:199:ASN:CB	3.00	0.43
22:BB:1029:C:H2'	22:BB:1030:U:H4'	1.99	0.43
22:BB:9:U:O2'	22:BB:10:A:H8	1.99	0.43
22:BB:984:A:H5'	22:BB:1202:U:C1'	2.48	0.43
22:BB:1678:G:H2'	22:BB:1679:U:C6	2.53	0.43
22:BB:1887:G:C6	22:BB:1888:C:N1	2.86	0.43
22:BB:2272:A:OP1	36:BP:12:ARG:CZ	2.65	0.43
22:BB:2419:C:H2'	22:BB:2420:C:C4'	2.49	0.43
22:BB:8:A:H2	22:BB:2608:A:H62	1.62	0.43
22:BB:491:A:H3'	42:BV:3:ARG:NH1	2.33	0.43
22:BB:63:A:N6	22:BB:89:A:C6	2.86	0.43
22:BB:800:U:OP1	22:BB:801:A:H5'	2.18	0.43
22:BB:800:U:C3'	22:BB:804:C:H41	2.27	0.43
22:BB:868:U:H2'	22:BB:869:C:C5	2.54	0.43
24:BD:247:VAL:O	24:BD:250:TRP:HB2	2.18	0.43
24:BD:67:PHE:HD2	24:BD:103:ARG:NH2	2.17	0.43
24:BD:85:ASP:N	24:BD:86:PRO:HD2	2.31	0.43
25:BE:176:ARG:CD	37:BQ:19:ASP:HB3	2.47	0.43
27:BG:106:ILE:HG13	27:BG:107:GLY:H	1.82	0.43
28:BH:50:LEU:HD22	28:BH:50:LEU:N	2.33	0.43
29:BI:25:ALA:HA	29:BI:29:LEU:HD23	2.00	0.43
34:BN:55:MET:CE	34:BN:55:MET:HA	2.48	0.43
35:BO:65:LEU:HD12	35:BO:68:GLN:O	2.18	0.43
37:BQ:100:ARG:HB2	37:BQ:120:ASP:O	2.18	0.43
38:BR:24:PHE:HB2	38:BR:28:ARG:HB2	1.99	0.43
39:BS:32:LYS:HA	39:BS:63:HIS:O	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:BW:136:VAL:HA	43:BW:147:ILE:HD11	1.99	0.43
43:BW:18:MET:N	43:BW:36:ARG:HH12	2.11	0.43
45:BY:52:GLN:O	45:BY:52:GLN:HG3	2.18	0.43
46:BZ:4:LYS:NZ	46:BZ:31:SER:H	2.16	0.43
1:CA:1097:C:HO2'	1:CA:1169:A:H8	1.66	0.43
1:CA:1189:C:OP2	10:CJ:51:ARG:CZ	2.65	0.43
1:CA:1263:C:O2'	1:GA:1263:C:O2'	1.91	0.43
1:CA:1345:U:O5'	9:CI:120:ARG:NH2	2.51	0.43
1:CA:1392:G:H4'	1:CA:1531:A:C5'	2.47	0.43
1:CA:159:G:H1'	1:CA:162:A:H61	1.81	0.43
1:CA:190:A:O3'	1:IA:190:A:H4'	2.18	0.43
1:CA:713:G:H2'	1:CA:714:G:C4	2.54	0.43
1:CA:969:A:O3'	10:CJ:55:LYS:NZ	2.52	0.43
2:CB:77:ALA:O	2:CB:81:VAL:HG23	2.18	0.43
3:CC:191:THR:HG22	3:CC:193:TYR:H	1.81	0.43
1:CA:620:C:C2'	4:CD:138:TYR:CE1	2.98	0.43
4:CD:167:GLY:HA3	4:CD:168:ARG:HH21	1.83	0.43
1:CA:8:A:N6	4:CD:206:PHE:HA	2.32	0.43
6:CF:4:TYR:HE2	6:CF:67:MET:H	1.65	0.43
7:CG:23:VAL:O	7:CG:27:ILE:HG13	2.17	0.43
7:CG:93:PRO:HA	7:CG:96:GLN:HB2	1.99	0.43
12:CL:41:ARG:CG	12:CL:42:THR:H	2.30	0.43
12:CL:6:THR:N	12:CL:9:GLN:HG3	2.33	0.43
1:CA:659:U:OP1	15:CO:4:THR:O	2.36	0.43
15:CO:79:ARG:HA	15:CO:82:ILE:HD12	2.00	0.43
1:CA:760:G:C6	17:CQ:94:ASN:ND2	2.81	0.43
18:CR:51:LEU:HB3	18:CR:56:THR:HA	2.00	0.43
50:D4:8:ASN:HD21	50:D4:10:ARG:HE	1.66	0.43
22:DB:1029:C:H2'	22:DB:1030:U:H4'	1.99	0.43
22:DB:1069:G:OP2	30:DJ:9:LYS:HE2	2.17	0.43
22:DB:1150:C:OP1	31:DK:51:LEU:CB	2.63	0.43
22:DB:1175:A:N1	22:DB:1198:C:O2	2.47	0.43
22:DB:119:G:H2'	22:DB:120:G:H8	1.83	0.43
22:DB:1353:A:N3	22:DB:1618:U:OP2	2.51	0.43
22:DB:1447:U:H2'	22:DB:1448:A:O4'	2.17	0.43
22:DB:1773:C:H2'	22:DB:1774:A:C8	2.53	0.43
22:DB:1883:A:N7	22:DB:1953:A:C5	2.86	0.43
22:DB:1885:C:O2'	24:DD:241:GLY:C	2.56	0.43
22:DB:1893:G:O2'	22:DB:1894:U:H5'	2.18	0.43
22:DB:2190:A:H5''	22:DB:2191:A:O5'	2.18	0.43
22:DB:2236:U:H4'	44:DX:10:SER:OG	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:DB:2317:G:H2'	22:DB:2318:U:C6	2.53	0.43
22:DB:865:A:C1'	46:DZ:39:ALA:HB2	2.09	0.43
22:DB:868:U:H2'	22:DB:869:C:C5	2.54	0.43
24:DD:247:VAL:O	24:DD:250:TRP:HB2	2.18	0.43
22:DB:1816:G:H22	24:DD:252:LYS:HE3	1.72	0.43
22:DB:1835:C:H4'	24:DD:255:LYS:HE2	2.00	0.43
24:DD:63:ARG:HH22	24:DD:157:ARG:NH1	2.16	0.43
27:DG:168:ALA:O	27:DG:171:GLN:HB2	2.17	0.43
28:DH:155:ASP:O	28:DH:160:LYS:HD2	2.18	0.43
29:DI:29:LEU:N	29:DI:29:LEU:HD22	2.33	0.43
32:DL:118:LEU:O	32:DL:123:PHE:HB3	2.18	0.43
32:DL:83:ARG:O	32:DL:84:ALA:HB3	2.18	0.43
34:DN:44:LYS:HA	34:DN:94:TRP:NE1	2.34	0.43
34:DN:98:VAL:CG1	34:DN:99:LYS:H	2.05	0.43
39:DS:10:LYS:HD3	39:DS:12:TYR:HD2	1.83	0.43
41:DU:7:LEU:HD12	41:DU:41:ALA:O	2.18	0.43
22:DB:309:G:P	42:DV:93:ARG:HB3	2.50	0.43
43:DW:111:GLY:HA3	43:DW:173:PRO:HB3	2.00	0.43
46:DZ:6:VAL:N	46:DZ:51:LEU:HG	2.34	0.43
1:EA:1283:G:O2'	1:EA:1284:C:H5'	2.17	0.43
1:EA:1239:A:H2'	1:EA:1298:C:H42	1.82	0.43
1:EA:1320:C:C4	19:ES:36:ARG:CB	2.98	0.43
1:EA:1342:C:H2'	1:EA:1343:G:H8	1.82	0.43
1:EA:1347:G:N2	1:EA:1373:G:H2'	2.33	0.43
1:EA:309:G:H2'	1:EA:310:G:C8	2.52	0.43
1:EA:62:U:H4'	1:EA:378:G:N2	2.33	0.43
1:EA:633:G:H2'	1:EA:634:C:O4'	2.19	0.43
1:EA:665:A:C8	1:EA:733:A:H1'	2.53	0.43
1:EA:918:A:H2'	1:EA:919:A:C8	2.53	0.43
2:EB:102:LEU:H	2:EB:102:LEU:CD1	2.28	0.43
2:EB:16:HIS:NE2	2:EB:214:ILE:HA	2.33	0.43
2:EB:90:MET:HA	2:EB:91:PRO:HD3	1.76	0.43
3:EC:167:TRP:NE1	5:EE:25:ARG:CZ	2.81	0.43
4:ED:97:LEU:HD23	4:ED:100:ARG:HD2	1.99	0.43
5:EE:94:ALA:HB3	5:EE:118:ILE:HA	2.00	0.43
6:EF:48:LEU:HD21	6:EF:60:PHE:CZ	2.54	0.43
9:EI:44:VAL:O	9:EI:47:LEU:HD23	2.18	0.43
10:EJ:42:THR:HG23	10:EJ:67:THR:H	1.83	0.43
11:EK:122:LYS:HB2	11:EK:123:LYS:HD3	1.99	0.43
1:EA:689:C:P	11:EK:51:LYS:NZ	2.84	0.43
15:EO:10:LYS:C	15:EO:12:ILE:H	2.20	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:EQ:26:GLN:HG2	17:EQ:38:ARG:H	1.84	0.43
19:ES:17:GLU:O	19:ES:21:GLU:HG3	2.18	0.43
20:ET:88:VAL:CB	20:ET:92:LEU:HD12	2.47	0.43
22:FB:2210:C:H5'	47:F1:39:VAL:CG2	2.48	0.43
51:F5:57:ARG:HE	51:F5:57:ARG:HA	1.82	0.43
52:F6:2:LYS:N	52:F6:2:LYS:HD3	2.33	0.43
53:F7:34:LEU:HD22	53:F7:165:VAL:HG23	1.99	0.43
22:FB:114:C:P	22:FB:126:C:H41	2.28	0.43
22:FB:1290:A:O2'	35:FO:24:GLN:HG2	2.18	0.43
22:FB:1321:A:H2'	22:FB:1322:G:O4'	2.19	0.43
22:FB:1447:U:H2'	22:FB:1448:A:O4'	2.17	0.43
22:FB:1672:A:H62	22:FB:1988:A:H1'	1.82	0.43
22:FB:2556:A:H4'	22:FB:2591:C:N4	2.33	0.43
22:FB:2617:G:O2'	22:FB:2618:A:H5'	2.18	0.43
22:FB:2760:G:C4'	31:FK:149:LYS:CE	2.85	0.43
22:FB:2787:A:N6	22:FB:2864:C:N4	2.66	0.43
22:FB:800:U:OP1	22:FB:801:A:H5'	2.18	0.43
22:FB:903:G:H5''	22:FB:904:U:H5	1.83	0.43
22:FB:979:A:H2'	22:FB:980:G:C8	2.53	0.43
24:FD:104:TYR:O	24:FD:105:ILE:HG22	2.18	0.43
24:FD:72:LYS:HZ1	24:FD:75:VAL:HG11	1.80	0.43
25:FE:30:PRO:HD2	25:FE:90:SER:OG	2.18	0.43
31:FK:78:ASP:H	31:FK:147:ARG:NH2	2.16	0.43
31:FK:74:MET:HE3	31:FK:75:ILE:HG23	2.00	0.43
33:FM:63:ARG:CZ	51:F5:9:MET:SD	3.07	0.43
35:FO:79:VAL:HA	35:FO:83:VAL:CB	2.47	0.43
35:FO:55:ALA:HA	35:FO:80:MET:CE	2.48	0.43
37:FQ:18:GLN:HA	37:FQ:21:THR:HG23	2.01	0.43
37:FQ:72:SER:HB2	37:FQ:78:GLU:O	2.18	0.43
39:FS:25:LEU:HB3	39:FS:26:GLN:H	1.53	0.43
38:FR:43:ALA:CA	39:FS:75:LYS:CG	2.75	0.43
22:FB:529:U:O3'	40:FT:43:ASP:OD1	2.36	0.43
22:FB:348:U:C4'	42:FV:13:LYS:CB	2.70	0.43
43:FW:75:LYS:NZ	43:FW:76:ARG:HH22	2.16	0.43
22:FB:2239:C:C4'	44:FX:14:ARG:NH1	2.74	0.43
46:FZ:4:LYS:HD2	46:FZ:52:GLU:OE1	2.19	0.43
46:FZ:4:LYS:NZ	46:FZ:31:SER:H	2.16	0.43
1:GA:1019:C:H2'	1:GA:1020:U:C6	2.54	0.43
1:GA:1283:G:O2'	1:GA:1284:C:H5'	2.17	0.43
1:GA:1388:C:O2'	1:GA:1389:C:H5'	2.19	0.43
1:GA:1497:G:H2'	1:GA:1498:U:C6	2.53	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:GA:214:U:H2'	1:GA:215:C:C6	2.53	0.43
1:GA:509:A:H4'	1:GA:510:A:OP1	2.18	0.43
1:GA:551:U:H2'	1:GA:552:U:C5	2.53	0.43
1:GA:812:C:H4'	1:GA:813:U:C5'	2.48	0.43
1:GA:837:G:H2'	1:GA:838:C:C6	2.53	0.43
1:GA:870:U:H3	1:GA:872:A:N6	2.15	0.43
1:GA:961:U:O2'	1:GA:962:C:H5'	2.18	0.43
3:GC:36:ASP:HB2	3:GC:37:GLN:HE22	1.82	0.43
4:GD:13:ARG:NH1	4:GD:33:MET:HA	2.33	0.43
4:GD:77:ASN:O	4:GD:80:GLU:HG2	2.18	0.43
9:GI:18:PHE:H	9:GI:62:TYR:HD2	1.66	0.43
11:GK:34:ASP:HB2	11:GK:35:PRO:CD	2.48	0.43
1:GA:970:C:C1'	13:GM:126:LYS:HD3	2.42	0.43
13:GM:76:ALA:HA	13:GM:79:LYS:CB	2.47	0.43
1:GA:325:A:N6	16:GP:25:ARG:NH1	2.66	0.43
1:GA:1014:A:OP2	19:GS:14:HIS:O	2.36	0.43
22:HB:1148:G:C6	22:HB:1149:G:H1'	2.53	0.43
22:HB:1338:G:N2	40:HT:106:LEU:CD2	2.81	0.43
22:HB:1619:A:H2'	22:HB:1619:A:N3	2.33	0.43
22:HB:1853:C:H2'	22:HB:1854:G:C8	2.54	0.43
22:HB:2366:U:H4'	44:HX:38:VAL:CG2	2.48	0.43
22:HB:2380:U:H2'	22:HB:2382:C:H5	1.83	0.43
22:HB:2043:A:C2	22:HB:2424:G:H5'	2.53	0.43
22:HB:2444:C:H5''	52:H6:3:VAL:HG22	2.00	0.43
22:HB:1039:A:C2	22:HB:2466:G:O4'	2.71	0.43
22:HB:2546:G:H2'	22:HB:2547:C:C6	2.54	0.43
22:HB:489:A:O2'	42:HV:5:SER:CB	2.62	0.43
22:HB:506:G:H1'	40:HT:81:HIS:O	2.18	0.43
22:HB:51:A:C2	22:HB:155:G:O2'	2.64	0.43
22:HB:563:U:H2'	22:HB:564:U:C6	2.52	0.43
22:HB:1817:U:H5'	24:HD:233:HIS:CD2	2.53	0.43
22:HB:1835:C:H4'	24:HD:255:LYS:HZ2	1.83	0.43
25:HE:54:LYS:CE	37:HQ:6:LYS:CE	2.27	0.43
27:HG:2:GLN:HB3	27:HG:6:THR:HG23	2.01	0.43
29:HI:36:VAL:O	29:HI:37:SER:HB2	2.17	0.43
31:HK:111:LYS:HB2	31:HK:111:LYS:HZ2	1.83	0.43
22:HB:2748:C:H5''	31:HK:119:LEU:HD22	1.99	0.43
31:HK:78:ASP:H	31:HK:147:ARG:HH22	1.67	0.43
33:HM:34:HIS:C	33:HM:35:LYS:HZ2	2.21	0.43
33:HM:75:VAL:HG22	33:HM:76:LYS:H	1.83	0.43
34:HN:35:LEU:HD22	34:HN:102:ARG:HD3	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:HN:91:VAL:O	34:HN:91:VAL:HG22	2.17	0.43
35:HO:65:LEU:HD12	35:HO:68:GLN:O	2.18	0.43
42:HV:36:VAL:HG12	42:HV:37:LEU:N	2.33	0.43
42:HV:72:ARG:HG3	42:HV:73:GLU:N	2.33	0.43
43:HW:3:LEU:HB3	43:HW:4:THR:H	1.70	0.43
43:HW:75:LYS:NZ	43:HW:76:ARG:HH22	2.16	0.43
45:HY:36:GLN:HG3	45:HY:37:LEU:N	2.34	0.43
22:HB:940:G:OP1	46:HZ:35:SER:CB	2.65	0.43
1:IA:1006:C:H2'	1:IA:1007:C:N1	2.33	0.43
1:IA:1063:C:H3'	1:IA:1063:C:OP2	2.17	0.43
1:IA:1102:A:O3'	2:IB:98:LEU:HD13	2.18	0.43
1:IA:1110:A:H3'	1:IA:1111:A:C8	2.54	0.43
1:IA:140:A:H2'	1:IA:141:A:O4'	2.18	0.43
1:IA:202:G:H1'	1:IA:469:C:O2'	2.18	0.43
1:IA:50:A:H1'	1:IA:52:G:C5'	2.48	0.43
1:IA:551:U:H2'	1:IA:552:U:C5	2.53	0.43
1:IA:684:A:O4'	11:IK:38:ASN:CA	2.63	0.43
1:IA:877:C:H5''	8:IH:88:LYS:CG	2.48	0.43
2:IB:165:VAL:HB	2:IB:170:GLU:OE1	2.17	0.43
2:IB:213:LEU:HA	2:IB:216:SER:OG	2.18	0.43
2:IB:41:ILE:HG22	2:IB:42:ILE:N	2.34	0.43
4:ID:10:ARG:HH21	4:ID:14:ARG:HE	1.63	0.43
1:IA:623:C:N4	4:ID:139:ARG:NH2	2.66	0.43
5:IE:94:ALA:HB3	5:IE:118:ILE:HA	2.01	0.43
7:IG:3:ARG:NH1	7:IG:3:ARG:HG2	2.33	0.43
8:IH:104:ARG:HH21	8:IH:138:TRP:HB3	1.83	0.43
8:IH:39:LEU:CD1	8:IH:44:PHE:HB3	2.43	0.43
7:IG:16:LEU:CB	9:II:41:VAL:C	2.86	0.43
10:IJ:7:LYS:NZ	10:IJ:69:ASN:HD22	2.17	0.43
1:IA:685:G:H4'	11:IK:40:ILE:O	2.19	0.43
12:IL:41:ARG:CG	12:IL:42:THR:H	2.30	0.43
12:IL:41:ARG:HB3	12:IL:41:ARG:HH11	1.82	0.43
22:JB:1378:A:O3'	47:J1:1:MET:HE1	2.19	0.43
22:JB:2265:A:H3'	49:J3:31:THR:CG2	2.49	0.43
33:JM:61:PRO:N	51:J5:27:SER:CB	2.80	0.43
22:JB:1077:U:H3'	22:JB:1078:A:H5''	1.99	0.43
22:JB:109:A:H2'	45:JY:58:ALA:HB1	1.15	0.43
22:JB:1166:A:C2'	22:JB:1168:G:N7	2.81	0.43
22:JB:1173:G:H2'	22:JB:1174:G:C8	2.51	0.43
22:JB:984:A:H5'	22:JB:1202:U:C1'	2.48	0.43
22:JB:1260:A:O3'	38:JR:2:PRO:HA	2.16	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:JB:1335:A:H2'	22:JB:1336:G:C8	2.52	0.43
22:JB:1352:G:H5'	22:JB:1406:A:N6	2.34	0.43
22:JB:1654:A:H2'	22:JB:1655:C:O4'	2.17	0.43
22:JB:1853:C:H2'	22:JB:1854:G:C8	2.54	0.43
1:IA:1494:G:H2'	22:JB:1895:A:N3	2.33	0.43
1:IA:1483:A:N1	22:JB:1943:A:O4'	2.51	0.43
22:JB:2044:G:H4'	22:JB:2045:A:C5	2.53	0.43
22:JB:2263:C:H1'	22:JB:2304:G:C2	2.53	0.43
22:JB:2380:U:H2'	22:JB:2382:C:H5	1.83	0.43
22:JB:2399:C:C2	51:J5:32:GLN:N	2.86	0.43
22:JB:1140:A:N6	22:JB:2470:U:C5	2.84	0.43
22:JB:2492:G:C3'	22:JB:2493:U:P	3.02	0.43
22:JB:2592:U:H4'	22:JB:2593:A:OP1	2.18	0.43
22:JB:2787:A:N6	22:JB:2864:C:N4	2.66	0.43
22:JB:1726:C:O2'	22:JB:2833:C:C2	2.68	0.43
22:JB:66:U:C5	22:JB:87:G:C2	3.06	0.43
22:JB:2752:C:H5'	25:JE:166:THR:HB	2.01	0.43
26:JF:6:VAL:HG22	26:JF:7:ILE:N	2.33	0.43
27:JG:106:ILE:HG13	27:JG:107:GLY:H	1.82	0.43
29:JI:4:ILE:HG23	29:JI:15:GLY:HA3	2.00	0.43
30:JJ:28:GLY:O	30:JJ:34:ILE:HD11	2.18	0.43
34:JN:37:ALA:O	34:JN:38:MET:HB3	2.18	0.43
34:JN:74:PRO:HG3	34:JN:93:TYR:CE1	2.54	0.43
34:JN:95:VAL:HG23	34:JN:96:SER:N	2.34	0.43
41:JU:42:ILE:HB	41:JU:50:VAL:CG2	2.47	0.43
41:JU:54:SER:HB2	41:JU:79:ILE:HB	1.99	0.43
42:JV:59:LYS:NZ	42:JV:59:LYS:HB3	2.32	0.43
22:JB:312:G:H2'	42:JV:88:THR:OG1	2.18	0.43
43:JW:17:SER:HA	43:JW:36:ARG:HH22	1.84	0.43
43:JW:41:ARG:HH11	43:JW:44:ARG:NE	2.16	0.43
43:JW:75:LYS:NZ	43:JW:76:ARG:HH22	2.16	0.43
45:JY:54:ASN:C	45:JY:57:LYS:HB3	2.38	0.43
1:AA:1182:G:H4'	1:AA:1183:A:O5'	2.18	0.43
1:AA:1305:G:H21	1:AA:1331:G:H2'	1.82	0.43
1:AA:1308:U:OP1	13:AM:97:PRO:CG	2.62	0.43
1:AA:1323:G:H4'	1:AA:1362:C:N3	2.33	0.43
1:AA:137:C:H1'	1:AA:227:G:H22	1.82	0.43
1:AA:888:G:H21	1:AA:909:A:H62	1.67	0.43
3:AC:84:ILE:HG23	3:AC:85:ARG:N	2.32	0.43
4:AD:41:GLY:O	4:AD:45:GLN:HG3	2.17	0.43
8:AH:67:PRO:O	8:AH:76:PRO:HA	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:AJ:23:ILE:HG23	10:AJ:85:LEU:HD13	1.99	0.43
10:AJ:7:LYS:O	10:AJ:8:LEU:HD23	2.19	0.43
1:AA:980:C:C1'	14:AN:19:ARG:NE	2.79	0.43
1:AA:1187:G:O2'	14:AN:60:SER:HA	2.18	0.43
16:AP:8:ARG:HE	16:AP:15:PRO:HB3	1.82	0.43
1:AA:235:C:O2	17:AQ:4:LYS:CE	2.67	0.43
19:AS:11:VAL:HG22	19:AS:39:THR:HB	2.00	0.43
50:B4:29:ASN:HB2	50:B4:33:ARG:NH1	2.34	0.43
50:B4:40:HIS:ND1	50:B4:41:GLN:N	2.67	0.43
22:BB:1010:U:N3	22:BB:1168:G:N1	2.67	0.43
22:BB:103:U:H2'	22:BB:104:C:O4'	2.19	0.43
22:BB:1302:C:H2'	22:BB:1303:U:O4'	2.17	0.43
22:BB:1335:A:H2'	22:BB:1336:G:C8	2.53	0.43
22:BB:1507:A:C2	22:BB:1509:A:H4'	2.53	0.43
22:BB:1791:C:O2'	22:BB:1792:C:H3'	2.19	0.43
22:BB:1851:A:H3'	22:BB:1852:G:H8	1.83	0.43
22:BB:1873:A:H3'	22:BB:1874:G:H8	1.83	0.43
22:BB:2679:G:C3'	22:BB:2680:U:H5''	2.49	0.43
22:BB:2504:G:C2'	22:BB:2721:A:H2'	2.47	0.43
22:BB:2760:G:H5'	31:BK:146:THR:CG2	2.49	0.43
22:BB:58:C:C2'	45:BY:44:ARG:NH1	2.65	0.43
22:BB:979:A:H2'	22:BB:980:G:C8	2.53	0.43
24:BD:49:ILE:HG22	24:BD:50:THR:H	1.83	0.43
24:BD:63:ARG:HH22	24:BD:157:ARG:NH1	2.16	0.43
22:BB:2767:C:C2	25:BE:61:LYS:CE	3.02	0.43
26:BF:116:LYS:H	26:BF:116:LYS:HE3	1.83	0.43
26:BF:6:VAL:HG22	26:BF:7:ILE:N	2.32	0.43
27:BG:66:ILE:HG22	27:BG:66:ILE:O	2.18	0.43
28:BH:144:VAL:HA	28:BH:147:ASN:OD1	2.19	0.43
22:BB:1091:C:C3'	30:BJ:125:ASN:CB	2.92	0.43
32:BL:93:ARG:HB3	37:BQ:77:VAL:HG21	2.00	0.43
34:BN:50:ALA:HA	34:BN:53:ILE:HD11	2.01	0.43
34:BN:72:ASP:C	34:BN:73:LYS:HG2	2.38	0.43
22:BB:2827:G:H5'	35:BO:60:LEU:HD21	2.00	0.43
36:BP:9:ARG:HH12	36:BP:11:LEU:N	2.16	0.43
22:BB:592:G:OP1	38:BR:7:GLY:HA2	2.19	0.43
39:BS:36:LYS:HZ3	39:BS:36:LYS:HA	1.82	0.43
22:BB:1336:G:H5''	40:BT:119:LYS:HZ1	1.81	0.43
40:BT:55:ASP:N	40:BT:58:ARG:HB3	2.33	0.43
43:BW:111:GLY:HA3	43:BW:173:PRO:HB3	2.00	0.43
44:BX:49:GLN:N	44:BX:49:GLN:NE2	2.65	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:BX:74:LYS:HZ2	44:BX:74:LYS:H	1.64	0.43
1:CA:16:A:H2	1:CA:1080:A:H1'	1.83	0.43
1:CA:1127:G:H2'	1:CA:1128:C:H6	1.83	0.43
1:CA:1279:A:O2'	1:CA:1281:U:H5''	2.18	0.43
1:CA:1283:G:O2'	1:CA:1284:C:H5'	2.17	0.43
1:CA:1360:A:H2'	1:CA:1361:G:H5'	2.01	0.43
1:CA:1347:G:N2	1:CA:1373:G:H2'	2.33	0.43
1:CA:140:A:H2'	1:CA:141:A:O4'	2.18	0.43
1:CA:348:G:N2	1:CA:349:A:H62	2.17	0.43
1:CA:633:G:H2'	1:CA:634:C:O4'	2.19	0.43
1:CA:659:U:H5''	15:CO:5:LYS:HE2	1.98	0.43
1:CA:665:A:C8	1:CA:733:A:H1'	2.53	0.43
1:CA:706:A:O2'	11:CK:29:ILE:CD1	2.61	0.43
1:CA:710:G:OP1	6:CF:54:LYS:CE	2.65	0.43
3:CC:47:LEU:HD11	3:CC:83:ARG:CZ	2.48	0.43
4:CD:79:PHE:HB2	4:CD:93:PHE:CE1	2.53	0.43
6:CF:49:ALA:HB2	18:CR:79:LEU:N	2.32	0.43
1:CA:1345:U:C4'	9:CI:120:ARG:HH12	2.23	0.43
9:CI:18:PHE:H	9:CI:62:TYR:HD2	1.66	0.43
10:CJ:23:ILE:HG23	10:CJ:85:LEU:HD13	1.99	0.43
10:CJ:33:GLN:HG2	10:CJ:33:GLN:O	2.17	0.43
1:CA:1230:C:C2	13:CM:126:LYS:HE3	2.44	0.43
14:CN:24:CYS:N	14:CN:33:VAL:HG11	2.33	0.43
15:CO:10:LYS:C	15:CO:12:ILE:H	2.21	0.43
15:CO:70:LEU:C	15:CO:78:TYR:HB2	2.38	0.43
1:CA:186:C:O4'	20:CT:78:ALA:HB1	2.14	0.43
50:D4:29:ASN:HB2	50:D4:33:ARG:NH1	2.34	0.43
53:D7:77:LYS:HE2	53:D7:84:VAL:HB	2.01	0.43
23:DA:84:G:H2'	23:DA:85:G:C8	2.53	0.43
22:DB:1018:C:H4'	31:DK:134:MET:HB3	1.99	0.43
22:DB:103:U:H2'	22:DB:104:C:O4'	2.19	0.43
22:DB:1352:G:H5'	22:DB:1406:A:N6	2.34	0.43
22:DB:1480:G:H4'	22:DB:1543:G:H4'	2.00	0.43
22:DB:1935:A:H2'	22:DB:1936:A:C8	2.54	0.43
22:DB:2042:A:H5''	26:DF:66:ASN:HD21	1.75	0.43
22:DB:2237:C:H5	44:DX:3:HIS:CE1	2.36	0.43
22:DB:2556:A:H4'	22:DB:2591:C:N4	2.33	0.43
22:DB:2659:C:C1'	25:DE:187:ALA:CA	2.75	0.43
22:DB:79:G:H4'	22:DB:356:A:N3	2.33	0.43
22:DB:504:G:H4'	40:DT:27:VAL:HG13	2.01	0.43
22:DB:563:U:H2'	22:DB:564:U:C6	2.53	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:DB:716:U:H2'	22:DB:717:G:H4'	2.00	0.43
22:DB:676:G:H1'	22:DB:950:G:H1'	2.00	0.43
24:DD:260:ARG:HB3	24:DD:261:ARG:H	1.51	0.43
24:DD:78:LYS:N	24:DD:78:LYS:HD2	2.34	0.43
26:DF:6:VAL:HG22	26:DF:7:ILE:N	2.33	0.43
28:DH:18:ASN:N	28:DH:18:ASN:HD22	2.15	0.43
31:DK:78:ASP:H	31:DK:147:ARG:HH22	1.66	0.43
32:DL:47:VAL:HG13	32:DL:48:GLY:N	2.24	0.43
34:DN:35:LEU:HD13	34:DN:103:VAL:HG21	1.99	0.43
35:DO:55:ALA:HA	35:DO:80:MET:CE	2.47	0.43
35:DO:5:LYS:HE3	35:DO:5:LYS:N	2.34	0.43
40:DT:56:LEU:HA	48:D2:28:PRO:HG3	1.93	0.43
1:EA:1095:U:H2'	1:EA:1096:C:C6	2.54	0.43
1:EA:1126:U:H2'	1:EA:1127:G:O4'	2.18	0.43
1:EA:1397:C:O2'	1:EA:1398:A:OP2	2.32	0.43
1:EA:966:G:N3	9:EI:128:ARG:C	2.70	0.43
3:EC:47:LEU:HD11	3:EC:83:ARG:CZ	2.48	0.43
1:EA:622:A:OP2	4:ED:139:ARG:NH2	2.51	0.43
5:EE:102:ALA:CB	5:EE:120:THR:HB	2.49	0.43
5:EE:130:ASN:HA	5:EE:133:TYR:CE1	2.54	0.43
7:EG:23:VAL:O	7:EG:27:ILE:HG13	2.17	0.43
1:EA:826:C:O2'	8:EH:15:ASN:O	2.37	0.43
8:EH:83:ILE:O	8:EH:84:ARG:HB2	2.18	0.43
8:EH:91:ARG:HH12	17:EQ:34:LYS:HZ3	1.60	0.43
10:EJ:7:LYS:NZ	10:EJ:69:ASN:HD22	2.17	0.43
12:EL:83:VAL:HG22	12:EL:84:LEU:H	1.83	0.43
13:EM:3:ARG:HA	13:EM:8:GLU:O	2.18	0.43
13:EM:76:ALA:HA	13:EM:79:LYS:CB	2.47	0.43
10:EJ:62:HIS:CA	14:EN:59:ALA:HB3	2.24	0.43
1:EA:375:U:C1'	16:EP:17:TYR:CE2	3.02	0.43
48:F2:25:LEU:CD1	48:F2:27:ALA:H	2.32	0.43
49:F3:42:PRO:HD3	49:F3:47:HIS:C	2.38	0.43
51:F5:13:ARG:HH11	51:F5:23:MET:CA	2.31	0.43
53:F7:176:PRO:C	53:F7:178:ASP:H	2.22	0.43
53:F7:66:VAL:O	53:F7:84:VAL:HG13	2.19	0.43
23:FA:99:G:H2'	23:FA:100:G:C8	2.49	0.43
22:FB:119:G:H2'	22:FB:120:G:H8	1.83	0.43
22:FB:1352:G:H5'	22:FB:1406:A:N6	2.34	0.43
22:FB:1585:A:H2'	22:FB:1586:A:C8	2.54	0.43
22:FB:1596:A:H2'	22:FB:1597:A:O4'	2.19	0.43
22:FB:1851:A:H3'	22:FB:1852:G:H8	1.83	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:FB:2184:C:H2'	22:FB:2185:U:C6	2.53	0.43
22:FB:219:G:H5'	51:F5:5:LYS:HZ1	1.79	0.43
22:FB:219:G:N2	22:FB:231:G:N7	2.67	0.43
22:FB:2419:C:H2'	22:FB:2420:C:C4'	2.49	0.43
22:FB:2679:G:C3'	22:FB:2680:U:H5''	2.49	0.43
22:FB:2709:C:H2'	22:FB:2710:C:C6	2.53	0.43
22:FB:2717:G:N1	22:FB:2747:C:O2	2.45	0.43
22:FB:2763:U:C4'	25:FE:41:THR:H	2.28	0.43
22:FB:2701:A:C4	22:FB:2848:A:C5	3.05	0.43
22:FB:3130:G:H1'	22:FB:3159:G:N2	2.32	0.43
22:FB:295:C:N4	22:FB:368:A:N6	2.64	0.43
22:FB:683:A:H5'	22:FB:685:U:OP1	2.18	0.43
22:FB:821:A:H2'	22:FB:822:G:O4'	2.18	0.43
22:FB:964:A:H61	22:FB:976:C:H42	1.66	0.43
24:FD:49:ILE:HG22	24:FD:50:THR:H	1.83	0.43
22:FB:2797:G:OP1	25:FE:111:LYS:NZ	2.51	0.43
25:FE:33:ILE:HB	25:FE:49:ILE:HG21	2.00	0.43
25:FE:59:VAL:CG1	25:FE:61:LYS:HG3	2.46	0.43
22:FB:2616:U:OP1	25:FE:80:GLU:O	2.36	0.43
27:FG:33:LYS:C	27:FG:34:ILE:HD13	2.38	0.43
27:FG:35:VAL:CG1	27:FG:88:LYS:HA	2.49	0.43
29:FI:29:LEU:HD22	29:FI:29:LEU:N	2.34	0.43
30:FJ:28:GLY:O	30:FJ:34:ILE:HD11	2.18	0.43
22:FB:539:A:H5'	31:FK:138:GLY:C	2.38	0.43
31:FK:30:LYS:HB2	31:FK:31:THR:H	1.62	0.43
22:FB:1149:G:OP1	31:FK:55:ALA:CB	2.66	0.43
22:FB:597:U:C4'	33:FM:28:LYS:HZ3	2.31	0.43
33:FM:75:VAL:HG22	33:FM:76:LYS:H	1.83	0.43
35:FO:13:ASN:ND2	35:FO:13:ASN:H	2.16	0.43
38:FR:93:LYS:C	38:FR:95:LEU:N	2.71	0.43
39:FS:62:GLU:OE2	39:FS:96:LEU:HD12	2.18	0.43
42:FV:72:ARG:HG3	42:FV:73:GLU:N	2.33	0.43
43:FW:69:VAL:HG12	43:FW:70:GLN:N	2.34	0.43
22:FB:2343:C:OP1	44:FX:38:VAL:O	2.36	0.43
46:FZ:6:VAL:N	46:FZ:51:LEU:HG	2.34	0.43
1:GA:1006:C:H2'	1:GA:1007:C:N1	2.33	0.43
1:GA:1511:G:H2'	1:GA:1512:U:C6	2.53	0.43
1:GA:201:G:H2'	1:GA:202:G:O4'	2.18	0.43
1:GA:50:A:H1'	1:GA:52:G:C5'	2.48	0.43
1:GA:658:G:H4'	15:GO:5:LYS:CB	2.43	0.43
1:GA:729:A:H2'	1:GA:730:G:C8	2.53	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:GA:917:G:H2'	1:GA:918:A:O4'	2.18	0.43
2:GB:48:MET:HE3	2:GB:52:GLU:HG3	1.99	0.43
2:GB:77:ALA:O	2:GB:81:VAL:HG23	2.18	0.43
3:GC:59:ARG:CA	3:GC:64:VAL:HG13	2.44	0.43
4:GD:176:LEU:N	4:GD:176:LEU:HD23	2.34	0.43
7:GG:3:ARG:NH1	7:GG:3:ARG:HG2	2.33	0.43
8:GH:13:ILE:C	8:GH:15:ASN:H	2.20	0.43
9:GI:29:ASN:OD1	9:GI:64:THR:HA	2.19	0.43
1:GA:1060:C:C2'	10:GJ:56:HIS:HB3	2.48	0.43
10:GJ:64:GLU:C	14:GN:57:ARG:O	2.49	0.43
12:GL:39:VAL:CG1	12:GL:41:ARG:HB2	2.48	0.43
12:GL:55:VAL:HG12	12:GL:56:ALA:N	2.33	0.43
13:GM:19:LEU:O	13:GM:25:ILE:HD12	2.18	0.43
1:GA:236:G:C1'	17:GQ:25:ARG:NE	2.77	0.43
1:GA:265:G:N9	17:GQ:64:PRO:CB	2.76	0.43
17:GQ:9:VAL:O	17:GQ:11:VAL:HG13	2.18	0.43
19:GS:9:VAL:O	19:GS:11:VAL:HG23	2.17	0.43
53:H7:155:VAL:HG11	53:H7:169:ILE:CA	2.49	0.43
53:H7:77:LYS:NZ	53:H7:84:VAL:HB	2.33	0.43
23:HA:71:G:N3	23:HA:71:G:H2'	2.33	0.43
22:HB:1042:G:H4'	52:H6:8:LYS:HD2	1.23	0.43
22:HB:1119:U:C3'	22:HB:1120:C:P	3.01	0.43
22:HB:1335:A:H2'	22:HB:1336:G:C8	2.53	0.43
22:HB:1338:G:C4	40:HT:117:ILE:HD13	2.54	0.43
22:HB:1468:A:N1	35:HO:80:MET:CB	2.80	0.43
22:HB:1654:A:H2'	22:HB:1655:C:O4'	2.17	0.43
22:HB:1678:G:H2'	22:HB:1679:U:C6	2.53	0.43
22:HB:172:A:O3'	33:HM:55:ARG:NH2	2.51	0.43
22:HB:1911:A:H3'	22:HB:1912:G:C8	2.53	0.43
22:HB:1989:C:O2'	22:HB:2798:A:O2'	2.24	0.43
22:HB:2044:G:H4'	22:HB:2045:A:C5	2.53	0.43
22:HB:2263:C:H1'	22:HB:2304:G:C2	2.52	0.43
22:HB:230:C:H2'	22:HB:231:G:O4'	2.18	0.43
22:HB:2403:C:H5'	22:HB:2404:A:OP1	2.19	0.43
22:HB:819:C:H1'	22:HB:2423:G:O2'	2.18	0.43
22:HB:3171:A:O3'	53:H7:105:ARG:NE	2.51	0.43
22:HB:463:C:P	26:HF:46:ARG:HH21	2.41	0.43
22:HB:627:A:H2'	22:HB:628:A:C8	2.52	0.43
22:HB:680:U:OP2	33:HM:48:PHE:O	2.35	0.43
22:HB:760:U:C3'	40:HT:111:ARG:O	2.66	0.43
24:HD:49:ILE:HG22	24:HD:50:THR:H	1.83	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:HB:2550:C:C3'	25:HE:144:ARG:HG2	2.48	0.43
27:HG:136:LEU:HB2	27:HG:150:ARG:HH22	1.82	0.43
29:HI:4:ILE:HG23	29:HI:15:GLY:HA3	2.00	0.43
30:HJ:12:LEU:H	30:HJ:12:LEU:HD23	1.83	0.43
30:HJ:74:MET:HE3	30:HJ:74:MET:HB3	1.85	0.43
31:HK:131:VAL:HG22	31:HK:131:VAL:O	2.19	0.43
31:HK:136:PRO:O	31:HK:137:LYS:HB3	2.17	0.43
33:HM:139:ARG:NH1	33:HM:141:VAL:HG21	2.34	0.43
34:HN:75:VAL:HB	34:HN:92:GLU:OE1	2.18	0.43
22:HB:2797:G:N7	35:HO:3:HIS:CE1	2.87	0.43
36:HP:9:ARG:HH12	36:HP:11:LEU:N	2.16	0.43
22:HB:2272:A:H5'	36:HP:12:ARG:NE	2.33	0.43
36:HP:8:ARG:HH12	36:HP:9:ARG:HE	1.66	0.43
22:HB:542:A:C2	38:HR:41:ASN:ND2	2.86	0.43
39:HS:10:LYS:HD3	39:HS:12:TYR:HD2	1.83	0.43
40:HT:73:ASN:N	40:HT:73:ASN:HD22	2.11	0.43
43:HW:41:ARG:HB2	43:HW:41:ARG:NH2	2.32	0.43
43:HW:72:ASP:HB2	43:HW:77:ALA:C	2.39	0.43
46:HZ:14:GLY:O	46:HZ:17:VAL:HB	2.17	0.43
1:IA:1051:C:H5	1:IA:1201:A:OP2	2.02	0.43
1:IA:127:G:H4'	17:IQ:4:LYS:HZ1	1.78	0.43
1:IA:1283:G:O2'	1:IA:1284:C:H5'	2.17	0.43
1:IA:159:G:H1'	1:IA:162:A:H61	1.81	0.43
1:IA:247:G:O6	17:IQ:96:GLN:CD	2.56	0.43
1:IA:903:G:O2'	1:IA:904:C:H5'	2.18	0.43
1:IA:917:G:H2'	1:IA:918:A:O4'	2.18	0.43
1:IA:926:G:H21	1:IA:1505:G:C1'	2.31	0.43
2:IB:8:LYS:HB2	2:IB:9:GLU:H	1.49	0.43
3:IC:65:ALA:HB1	3:IC:102:ASN:ND2	2.32	0.43
3:IC:18:TRP:NE1	14:IN:51:GLY:C	2.71	0.43
4:ID:176:LEU:N	4:ID:176:LEU:HD23	2.33	0.43
5:IE:102:ALA:CB	5:IE:120:THR:HB	2.48	0.43
6:IF:79:LEU:O	6:IF:85:VAL:HB	2.18	0.43
1:IA:824:C:C4'	8:IH:3:THR:CG2	2.96	0.43
8:IH:45:ILE:HD12	8:IH:47:GLY:O	2.18	0.43
11:IK:23:ALA:HB3	11:IK:86:GLY:C	2.39	0.43
16:IP:20:VAL:HG22	16:IP:32:TYR:CZ	2.53	0.43
1:IA:1224:G:O3'	19:IS:78:ARG:NH2	2.51	0.43
49:J3:47:HIS:O	49:J3:48:VAL:HG12	2.19	0.43
22:JB:1173:G:C5'	39:JS:23:GLU:HB2	2.48	0.43
22:JB:1307:U:O2'	35:JO:23:ALA:HB2	2.17	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:JB:1613:G:O3'	22:JB:1614:C:C6	2.71	0.43
22:JB:1678:G:H2'	22:JB:1679:U:C6	2.53	0.43
22:JB:1743:C:O5'	37:JQ:123:ARG:HB3	2.17	0.43
22:JB:427:C:P	22:JB:1862:C:HO2'	2.40	0.43
22:JB:1893:G:O2'	22:JB:1894:U:H5'	2.19	0.43
22:JB:2351:G:O2'	22:JB:2352:A:H5'	2.18	0.43
22:JB:2260:C:H5''	22:JB:2368:G:N2	2.33	0.43
22:JB:245:C:O2	22:JB:245:C:H2'	2.17	0.43
22:JB:2617:G:N3	22:JB:2617:G:C2'	2.78	0.43
22:JB:563:U:H2'	22:JB:564:U:C6	2.53	0.43
22:JB:609:U:H2'	22:JB:610:G:H8	1.82	0.43
22:JB:627:A:H2'	22:JB:628:A:C8	2.53	0.43
22:JB:868:U:H2'	22:JB:869:C:C5	2.54	0.43
22:JB:976:C:H2'	22:JB:977:G:C8	2.53	0.43
22:JB:1886:G:H5'	24:JD:242:ALA:HB2	2.00	0.43
25:JE:7:THR:HB	25:JE:194:GLY:N	2.33	0.43
27:JG:136:LEU:HB2	27:JG:150:ARG:HH22	1.82	0.43
29:JI:29:LEU:HD22	29:JI:29:LEU:N	2.33	0.43
32:JL:98:ILE:HG23	32:JL:98:ILE:O	2.19	0.43
35:JO:54:THR:HB	35:JO:62:SER:HB3	2.00	0.43
1:IA:1462:G:C4'	37:JQ:121:ARG:CZ	2.74	0.43
37:JQ:72:SER:HB2	37:JQ:78:GLU:O	2.18	0.43
40:JT:34:SER:HA	40:JT:35:PRO:HD3	1.90	0.43
42:JV:83:LEU:HD12	42:JV:92:THR:HG21	2.00	0.43
22:JB:309:G:P	42:JV:93:ARG:NE	2.85	0.43
43:JW:143:ILE:HD13	43:JW:144:GLY:N	2.34	0.43
43:JW:116:VAL:HG11	43:JW:169:VAL:HG12	2.00	0.43
43:JW:41:ARG:HH11	43:JW:44:ARG:HE	1.66	0.43
44:JX:34:GLY:O	44:JX:68:VAL:HA	2.18	0.43
45:JY:57:LYS:O	45:JY:61:ALA:HB3	2.18	0.43
1:AA:1053:G:H4'	1:AA:1054:C:H5'	2.00	0.43
1:AA:1095:U:H2'	1:AA:1096:C:C6	2.54	0.43
1:AA:1110:A:H3'	1:AA:1111:A:C8	2.54	0.43
1:AA:1279:A:O2'	1:AA:1281:U:H5''	2.18	0.43
1:AA:1392:G:H21	1:AA:1502:A:C4'	2.21	0.43
1:AA:181:G:P	20:GT:102:GLY:HA3	2.58	0.43
1:AA:201:G:H2'	1:AA:202:G:O4'	2.18	0.43
1:AA:197:A:C4	1:AA:221:C:H4'	2.53	0.43
1:AA:348:G:N2	1:AA:349:A:H62	2.17	0.43
1:AA:560:U:C5'	1:AA:562:C:O5'	2.66	0.43
1:AA:702:A:OP1	22:BB:1840:A:C1'	2.67	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:713:G:H2'	1:AA:714:G:C4	2.54	0.43
1:AA:918:A:C2	1:AA:1079:G:C2	3.02	0.43
4:AD:10:ARG:NH2	4:AD:14:ARG:HE	2.17	0.43
1:AA:409:G:OP1	4:AD:22:LYS:HB3	2.19	0.43
5:AE:102:ALA:CB	5:AE:120:THR:HB	2.48	0.43
6:AF:4:TYR:HE2	6:AF:67:MET:H	1.65	0.43
6:AF:77:ARG:O	6:AF:81:ILE:HG13	2.18	0.43
1:AA:1373:G:H3'	7:AG:36:LYS:NZ	2.34	0.43
7:AG:95:ARG:HG2	7:AG:99:LEU:CG	2.47	0.43
8:AH:45:ILE:HD12	8:AH:47:GLY:O	2.18	0.43
11:AK:104:GLN:HG2	11:AK:105:VAL:N	2.33	0.43
11:AK:62:GLN:CA	11:AK:93:GLN:HB3	2.49	0.43
12:AL:55:VAL:HG12	12:AL:56:ALA:N	2.33	0.43
1:AA:1412:C:C5'	12:AL:65:GLU:OE2	2.41	0.43
1:AA:1322:C:C5'	13:AM:101:GLN:O	2.62	0.43
1:AA:952:U:O2	13:AM:125:ARG:CG	2.66	0.43
13:AM:88:ARG:HB2	13:AM:92:HIS:CG	2.49	0.43
1:AA:668:G:N9	15:AO:45:VAL:HG12	2.27	0.43
16:AP:39:TYR:CD2	16:AP:41:PRO:HG3	2.53	0.43
16:AP:45:THR:HB	16:AP:46:PRO:HD2	1.99	0.43
17:AQ:9:VAL:O	17:AQ:11:VAL:HG13	2.18	0.43
6:AF:98:LEU:HD23	18:AR:30:ASP:OD1	2.17	0.43
18:AR:34:TYR:HA	18:AR:37:VAL:CG2	2.48	0.43
6:AF:46:ARG:NH2	18:AR:35:ARG:HH11	2.11	0.43
22:BB:157:G:O5'	50:B4:36:ALA:CB	2.66	0.43
52:B6:2:LYS:HD3	52:B6:2:LYS:N	2.33	0.43
23:BA:7:C:N3	23:BA:118:G:N1	2.66	0.43
22:BB:1488:G:C2	22:BB:1535:C:C4	2.88	0.43
22:BB:1596:A:H2'	22:BB:1597:A:O4'	2.19	0.43
22:BB:1619:A:N3	22:BB:1619:A:H2'	2.34	0.43
22:BB:1781:C:H2'	22:BB:1782:A:C8	2.54	0.43
22:BB:1893:G:O2'	22:BB:1894:U:H5'	2.18	0.43
22:BB:1672:A:H62	22:BB:1988:A:H1'	1.83	0.43
22:BB:1992:G:OP1	40:BT:62:ARG:NE	2.35	0.43
22:BB:2184:C:H2'	22:BB:2185:U:C6	2.53	0.43
22:BB:2556:A:H4'	22:BB:2591:C:N4	2.33	0.43
22:BB:2606:G:C1'	22:BB:2757:G:C2	3.00	0.43
22:BB:2771:C:C2	22:BB:2781:G:N1	2.86	0.43
22:BB:2671:C:H1'	22:BB:2822:U:O4'	2.18	0.43
22:BB:627:A:H2'	22:BB:628:A:C8	2.53	0.43
22:BB:821:A:H2'	22:BB:822:G:C8	2.53	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:BB:899:G:H2'	22:BB:900:U:O4'	2.19	0.43
24:BD:142:VAL:HG23	24:BD:143:HIS:N	2.25	0.43
22:BB:1795:C:C5'	24:BD:250:TRP:CH2	2.73	0.43
25:BE:30:PRO:HD2	25:BE:90:SER:OG	2.19	0.43
27:BG:136:LEU:HB2	27:BG:150:ARG:HH22	1.82	0.43
27:BG:80:ARG:H	27:BG:83:MET:HG2	1.82	0.43
22:BB:2725:C:C3'	28:BH:142:GLY:H	2.31	0.43
30:BJ:54:PRO:HD2	30:BJ:72:PRO:CG	2.46	0.43
31:BK:31:THR:HB	31:BK:71:THR:OG1	2.17	0.43
22:BB:9:U:H5'	31:BK:36:ASN:HB3	1.04	0.43
31:BK:71:THR:O	31:BK:72:PRO:O	2.37	0.43
22:BB:966:A:P	34:BN:18:MET:HE1	2.58	0.43
22:BB:2474:G:C5'	34:BN:83:ARG:H	2.30	0.43
22:BB:457:C:H5''	38:BR:3:ARG:HG2	2.00	0.43
22:BB:506:G:C4'	40:BT:82:ASN:CA	2.96	0.43
41:BU:7:LEU:HD12	41:BU:41:ALA:O	2.18	0.43
42:BV:72:ARG:HG3	42:BV:73:GLU:N	2.33	0.43
1:CA:1053:G:H4'	1:CA:1054:C:H5'	2.00	0.43
1:CA:1318:A:O3'	19:CS:10:PHE:HB2	2.19	0.43
1:CA:1333:A:C2	1:CA:1334:G:H1'	2.54	0.43
1:CA:201:G:H2'	1:CA:202:G:O4'	2.18	0.43
1:CA:560:U:C5	1:CA:566:G:C4	3.06	0.43
1:CA:760:G:C6	17:CQ:94:ASN:CG	2.90	0.43
1:CA:918:A:H2'	1:CA:919:A:C8	2.53	0.43
2:CB:171:ALA:O	2:CB:174:VAL:HB	2.18	0.43
4:CD:205:GLU:N	5:CE:101:ILE:HG12	2.34	0.43
7:CG:3:ARG:NH1	7:CG:3:ARG:HG2	2.32	0.43
10:CJ:10:GLY:C	10:CJ:16:LEU:HD11	2.38	0.43
12:CL:83:VAL:HG22	12:CL:84:LEU:H	1.83	0.43
13:CM:37:THR:CG2	13:CM:55:ARG:HE	2.31	0.43
1:CA:276:G:O4'	17:CQ:18:THR:CG2	2.67	0.43
1:CA:128:G:O5'	17:CQ:3:LYS:HE3	1.85	0.43
17:CQ:48:GLU:OE2	17:CQ:50:LYS:HD2	2.18	0.43
17:CQ:9:VAL:H	17:CQ:22:LEU:H	1.65	0.43
20:CT:35:THR:HA	20:CT:38:LYS:HE3	2.00	0.43
48:D2:25:LEU:HD13	48:D2:26:THR:N	2.33	0.43
22:DB:1007:A:C6	22:DB:1171:A:C6	3.05	0.43
22:DB:1029:C:O3'	22:DB:1045:G:N2	2.52	0.43
22:DB:561:U:H4'	22:DB:1233:A:N6	2.33	0.43
22:DB:1363:C:H1'	22:DB:1588:A:O2'	2.18	0.43
22:DB:1619:A:H2'	22:DB:1619:A:N3	2.34	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:DB:2184:C:H2'	22:DB:2185:U:C6	2.53	0.43
22:DB:2592:U:H4'	22:DB:2593:A:OP1	2.17	0.43
22:DB:2612:G:H1'	25:DE:62:PRO:CG	2.42	0.43
22:DB:295:C:N4	22:DB:368:A:N6	2.64	0.43
22:DB:512:A:C5'	40:DT:15:LYS:HB3	2.45	0.43
22:DB:547:U:C4'	31:DK:30:LYS:CG	2.57	0.43
22:DB:576:A:H62	22:DB:584:A:H2	1.65	0.43
22:DB:634:G:H2'	22:DB:635:C:C6	2.53	0.43
22:DB:683:A:H5'	22:DB:685:U:OP1	2.18	0.43
22:DB:979:A:H2'	22:DB:980:G:C8	2.53	0.43
24:DD:55:GLY:H	24:DD:220:HIS:CE1	2.36	0.43
24:DD:67:PHE:HD2	24:DD:103:ARG:NH2	2.17	0.43
28:DH:144:VAL:HA	28:DH:147:ASN:OD1	2.19	0.43
28:DH:29:PRO:HG2	28:DH:79:VAL:HA	1.99	0.43
31:DK:131:VAL:HG22	31:DK:131:VAL:O	2.19	0.43
32:DL:71:LYS:HE3	32:DL:101:ASN:CG	2.39	0.43
34:DN:127:PRO:HB2	34:DN:129:GLN:NE2	2.31	0.43
22:DB:886:A:H4'	34:DN:66:TYR:CE2	2.53	0.43
34:DN:72:ASP:C	34:DN:73:LYS:HG2	2.37	0.43
35:DO:65:LEU:HD12	35:DO:68:GLN:O	2.18	0.43
23:DA:50:U:OP1	36:DP:97:HIS:HB3	2.18	0.43
22:DB:545:C:C4'	38:DR:53:LYS:HE3	2.48	0.43
38:DR:61:TRP:CZ2	38:DR:97:ASP:HA	2.54	0.43
41:DU:42:ILE:HD12	41:DU:42:ILE:N	2.33	0.43
41:DU:54:SER:HB2	41:DU:79:ILE:HB	1.99	0.43
42:DV:51:VAL:HG11	42:DV:74:LEU:CD2	2.49	0.43
43:DW:141:MET:HB2	43:DW:171:VAL:HG13	2.00	0.43
43:DW:71:MET:HG3	43:DW:72:ASP:H	1.84	0.43
43:DW:72:ASP:HB2	43:DW:77:ALA:C	2.39	0.43
43:DW:75:LYS:NZ	43:DW:76:ARG:HH22	2.16	0.43
44:DX:74:LYS:HZ2	44:DX:74:LYS:H	1.64	0.43
45:DY:54:ASN:C	45:DY:57:LYS:HB3	2.38	0.43
1:EA:1053:G:H4'	1:EA:1054:C:H5'	2.00	0.43
1:EA:1128:C:C4'	1:EA:1146:A:H61	2.31	0.43
1:EA:348:G:N2	1:EA:349:A:H62	2.17	0.43
1:EA:592:G:H2'	1:EA:593:G:H8	1.81	0.43
7:EG:49:ILE:HG21	7:EG:124:LEU:HD12	2.01	0.43
7:EG:93:PRO:HA	7:EG:96:GLN:HB2	1.99	0.43
8:EH:104:ARG:HH21	8:EH:138:TRP:HB3	1.83	0.43
13:EM:65:LYS:HD2	13:EM:69:GLU:HG2	2.00	0.43
15:EO:57:LEU:HD12	15:EO:60:VAL:HG21	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:EA:751:U:O2'	15:EO:69:TYR:CE2	2.71	0.43
18:ER:51:LEU:HB3	18:ER:56:THR:HA	2.00	0.43
19:ES:49:ILE:HB	19:ES:60:VAL:CB	2.47	0.43
1:EA:1313:U:P	19:ES:6:LYS:CB	3.07	0.43
22:FB:2350:G:O3'	49:F3:46:LYS:HD2	2.19	0.43
50:F4:8:ASN:HD21	50:F4:10:ARG:HE	1.66	0.43
23:FA:116:C:O2'	36:FP:49:GLN:C	2.54	0.43
23:FA:62:C:P	36:FP:6:THR:CG2	2.59	0.43
23:FA:71:G:N3	23:FA:71:G:H2'	2.34	0.43
22:FB:1029:C:H2'	22:FB:1030:U:H4'	2.00	0.43
22:FB:103:U:H2'	22:FB:104:C:O4'	2.19	0.43
22:FB:1145:C:C5	22:FB:1147:G:O5'	2.72	0.43
22:FB:1162:A:O2'	38:FR:78:THR:CB	2.66	0.43
22:FB:1674:C:C5'	25:FE:134:TRP:CB	2.96	0.43
22:FB:2028:C:H2'	22:FB:2029:G:C8	2.53	0.43
22:FB:402:A:C2	22:FB:2392:G:C4'	3.00	0.43
22:FB:24:G:H2'	40:FT:99:ALA:HB3	1.44	0.43
22:FB:2663:U:N3	22:FB:2707:G:H1'	2.33	0.43
22:FB:45:C:N3	22:FB:156:G:N2	2.65	0.43
22:FB:627:A:H2'	22:FB:628:A:C8	2.52	0.43
22:FB:7:G:H4'	31:FK:161:GLN:HA	2.00	0.43
22:FB:821:A:H2'	22:FB:822:G:C8	2.53	0.43
22:FB:891:A:C5	22:FB:909:C:N4	2.87	0.43
22:FB:991:A:H61	22:FB:2020:G:H21	1.65	0.43
24:FD:170:SER:C	24:FD:172:TYR:N	2.72	0.43
22:FB:2661:G:C5	25:FE:10:GLY:C	2.92	0.43
22:FB:624:A:N7	26:FF:170:LEU:HB3	2.34	0.43
27:FG:38:GLU:HA	27:FG:152:MET:HG2	2.00	0.43
28:FH:40:GLU:O	28:FH:41:LEU:HD22	2.18	0.43
28:FH:76:VAL:HB	28:FH:77:LYS:NZ	2.33	0.43
30:FJ:52:ILE:HG23	30:FJ:53:ILE:N	2.31	0.43
31:FK:149:LYS:HZ2	31:FK:149:LYS:CA	2.32	0.43
31:FK:149:LYS:HZ2	31:FK:149:LYS:C	2.22	0.43
31:FK:65:LYS:HG2	31:FK:66:HIS:CD2	2.53	0.43
33:FM:65:PHE:HA	51:F5:11:LYS:CG	2.49	0.43
36:FP:96:TYR:CE1	36:FP:100:VAL:HB	2.54	0.43
38:FR:76:TYR:CG	38:FR:77:SER:N	2.85	0.43
22:FB:504:G:C4'	40:FT:25:PHE:HD2	2.20	0.43
22:FB:1992:G:C5'	40:FT:62:ARG:CB	2.94	0.43
22:FB:887:G:H5'	43:FW:172:LEU:HD13	2.01	0.43
43:FW:41:ARG:HH11	43:FW:44:ARG:NE	2.16	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:FW:45:GLN:O	43:FW:46:GLN:HB2	2.18	0.43
45:FY:54:ASN:C	45:FY:57:LYS:HB3	2.39	0.43
46:FZ:15:ASN:HA	46:FZ:18:LYS:HE3	1.99	0.43
22:FB:941:U:H1'	46:FZ:23:LEU:HA	1.99	0.43
1:GA:1013:G:P	19:GS:18:LYS:HZ2	2.41	0.43
1:GA:273:A:H1'	17:GQ:15:MET:HB3	2.01	0.43
1:GA:400:C:H2'	1:GA:401:C:C6	2.53	0.43
1:GA:417:C:H2'	1:GA:418:C:O4'	2.18	0.43
1:GA:546:G:H2'	1:GA:546:G:N3	2.33	0.43
1:GA:615:C:H2'	1:GA:616:G:H8	1.83	0.43
1:GA:649:G:O2'	1:GA:650:G:H5'	2.18	0.43
1:GA:665:A:C8	1:GA:733:A:H1'	2.53	0.43
1:GA:824:C:H1'	8:GH:2:LEU:CA	2.48	0.43
4:GD:126:ILE:HG22	4:GD:127:THR:N	2.24	0.43
6:GF:16:GLN:HE21	6:GF:20:ALA:HB2	1.83	0.43
6:GF:4:TYR:HE2	6:GF:67:MET:H	1.65	0.43
7:GG:43:PHE:C	7:GG:45:ASP:H	2.21	0.43
8:GH:1:MET:HG2	8:GH:2:LEU:N	2.31	0.43
9:GI:86:VAL:HA	9:GI:89:ASN:O	2.16	0.43
10:GJ:42:THR:HG23	10:GJ:67:THR:H	1.83	0.43
11:GK:104:GLN:HG2	11:GK:105:VAL:N	2.33	0.43
12:GL:85:ILE:HG22	12:GL:86:ARG:N	2.32	0.43
13:GM:37:THR:CG2	13:GM:55:ARG:HE	2.31	0.43
17:GQ:9:VAL:HG13	17:GQ:56:VAL:HG22	2.00	0.43
1:AA:179:A:O3'	20:GT:101:GLY:N	2.47	0.43
51:H5:16:ILE:HG13	51:H5:17:THR:N	2.33	0.43
53:H7:158:LYS:CD	53:H7:158:LYS:H	2.24	0.43
23:HA:84:G:H2'	23:HA:85:G:C8	2.53	0.43
22:HB:1036:G:C3'	22:HB:1037:U:P	3.00	0.43
22:HB:1141:U:H4'	22:HB:1142:G:O5'	2.19	0.43
22:HB:123:A:OP1	50:H4:14:LYS:CA	2.67	0.43
22:HB:1532:A:H2'	22:HB:1533:G:H5'	2.01	0.43
22:HB:51:A:O4'	22:HB:155:G:N2	2.52	0.43
22:HB:1672:A:H62	22:HB:1988:A:H1'	1.82	0.43
22:HB:1848:U:H2'	22:HB:1849:G:H5'	2.01	0.43
1:GA:1517:G:H1'	22:HB:1902:A:C4'	2.48	0.43
22:HB:1948:C:H2'	22:HB:1949:A:C8	2.54	0.43
22:HB:2348:A:H2'	22:HB:2349:G:H8	1.82	0.43
22:HB:2542:U:H1'	22:HB:2545:A:N1	2.33	0.43
22:HB:2034:A:H62	22:HB:2593:A:H1'	1.83	0.43
22:HB:10:A:C2	22:HB:2608:A:N3	2.86	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:HB:2709:C:H2'	22:HB:2710:C:C6	2.53	0.43
22:HB:2727:G:H1'	22:HB:2736:U:H5	1.82	0.43
22:HB:222:G:N2	22:HB:397:U:H1'	2.29	0.43
22:HB:507:A:H2'	22:HB:508:G:H8	1.84	0.43
22:HB:683:A:H5'	22:HB:685:U:OP1	2.18	0.43
22:HB:868:U:H2'	22:HB:869:C:C5	2.54	0.43
24:HD:78:LYS:N	24:HD:78:LYS:HD2	2.33	0.43
25:HE:111:LYS:CE	25:HE:160:MET:HB3	2.48	0.43
27:HG:38:GLU:HA	27:HG:152:MET:HG2	2.00	0.43
28:HH:76:VAL:HB	28:HH:77:LYS:NZ	2.33	0.43
30:HJ:111:LYS:HD3	30:HJ:123:ALA:C	2.38	0.43
34:HN:44:LYS:O	34:HN:46:ASN:N	2.47	0.43
34:HN:55:MET:CE	34:HN:55:MET:HA	2.48	0.43
35:HO:13:ASN:H	35:HO:13:ASN:ND2	2.17	0.43
22:HB:1468:A:N7	35:HO:77:ARG:HG2	2.34	0.43
22:HB:1669:A:P	35:HO:9:LYS:HZ1	2.41	0.43
32:HL:86:GLY:N	37:HQ:84:ALA:CB	2.68	0.43
22:HB:510:G:H22	40:HT:19:LYS:H	1.65	0.43
41:HU:92:ALA:HB1	45:HY:27:GLU:HB3	1.82	0.43
42:HV:76:LEU:HB3	42:HV:80:LYS:HZ1	1.83	0.43
43:HW:71:MET:O	43:HW:78:PRO:HA	2.19	0.43
44:HX:46:LYS:C	44:HX:46:LYS:HZ3	2.21	0.43
46:HZ:2:LYS:O	46:HZ:54:GLN:HB2	2.18	0.43
1:IA:1221:G:O2'	19:IS:77:THR:CG2	2.54	0.43
1:IA:1373:G:C4'	7:IG:34:GLY:C	2.87	0.43
1:IA:1388:C:O2'	1:IA:1389:C:H5'	2.19	0.43
1:IA:451:A:H5'	16:IP:72:ARG:CZ	2.49	0.43
1:IA:615:C:H2'	1:IA:616:G:H8	1.83	0.43
3:IC:11:ARG:C	3:IC:16:ARG:HB3	2.39	0.43
6:IF:37:VAL:HG12	6:IF:38:GLU:N	2.32	0.43
7:IG:137:LYS:O	7:IG:141:VAL:HG23	2.19	0.43
8:IH:111:ILE:HD13	8:IH:120:THR:HG22	2.00	0.43
1:IA:968:A:OP2	9:II:126:SER:O	2.36	0.43
10:IJ:7:LYS:O	10:IJ:8:LEU:HD23	2.19	0.43
13:IM:56:LEU:HA	13:IM:60:VAL:CG2	2.48	0.43
15:IO:78:TYR:CD2	15:IO:79:ARG:HG3	2.54	0.43
16:IP:3:LYS:H	16:IP:24:ALA:HB2	1.82	0.43
17:IQ:21:VAL:HG12	17:IQ:22:LEU:N	2.32	0.43
19:IS:17:GLU:O	19:IS:21:GLU:HG3	2.18	0.43
49:J3:17:GLY:C	49:J3:19:GLY:H	2.22	0.43
22:JB:3121:G:OP1	53:J7:129:GLY:CA	2.66	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:JA:71:G:H2'	23:JA:71:G:N3	2.34	0.43
22:JB:1321:A:H2'	22:JB:1322:G:O4'	2.19	0.43
22:JB:1467:U:O3'	35:JO:77:ARG:NH2	2.52	0.43
22:JB:155:G:H2'	22:JB:156:G:C8	2.53	0.43
22:JB:1585:A:H2'	22:JB:1586:A:C8	2.54	0.43
22:JB:1596:A:H2'	22:JB:1597:A:O4'	2.18	0.43
22:JB:1750:A:H5''	22:JB:2695:C:C4'	2.48	0.43
22:JB:1791:C:O2'	22:JB:1792:C:H3'	2.19	0.43
22:JB:1948:C:H2'	22:JB:1949:A:C8	2.54	0.43
22:JB:2010:G:H2'	22:JB:2011:U:C6	2.53	0.43
22:JB:991:A:N6	22:JB:2020:G:H21	2.17	0.43
22:JB:2190:A:H5''	22:JB:2191:A:O5'	2.18	0.43
22:JB:230:C:H2'	22:JB:231:G:O4'	2.18	0.43
22:JB:2260:C:C1'	22:JB:2367:A:C2	3.01	0.43
22:JB:2397:A:H4'	49:J3:21:TYR:CZ	2.47	0.43
22:JB:2466:G:H2'	22:JB:2467:A:H8	1.83	0.43
22:JB:2546:G:H2'	22:JB:2547:C:C6	2.54	0.43
22:JB:2573:C:H2'	22:JB:2574:G:H8	1.82	0.43
22:JB:2781:G:H2'	22:JB:2782:G:C8	2.46	0.43
22:JB:507:A:H2'	22:JB:508:G:H8	1.83	0.43
22:JB:634:G:H2'	22:JB:635:C:C6	2.53	0.43
22:JB:1884:A:O2'	24:JD:244:ARG:HD3	2.19	0.43
31:JK:149:LYS:NZ	31:JK:149:LYS:HA	2.32	0.43
31:JK:31:THR:HB	31:JK:71:THR:OG1	2.18	0.43
35:JO:13:ASN:ND2	35:JO:13:ASN:H	2.17	0.43
41:JU:17:TYR:H	41:JU:20:MET:CB	2.30	0.43
43:JW:13:LYS:HG2	43:JW:20:ALA:HA	1.99	0.43
43:JW:18:MET:SD	43:JW:18:MET:N	2.92	0.43
43:JW:71:MET:HG3	43:JW:72:ASP:H	1.84	0.43
22:JB:2241:U:OP1	44:JX:16:SER:O	2.35	0.43
1:AA:1333:A:C2	1:AA:1334:G:H1'	2.54	0.43
1:AA:140:A:H2'	1:AA:141:A:O4'	2.19	0.43
1:AA:1392:G:O2'	1:AA:1502:A:H5''	2.18	0.43
1:AA:421:U:H2'	1:AA:423:G:O6	2.19	0.43
1:AA:579:G:O2'	15:AO:57:LEU:HD21	2.18	0.43
1:AA:720:C:H4'	18:AR:52:PRO:CB	2.48	0.43
2:AB:77:ALA:O	2:AB:81:VAL:HG23	2.18	0.43
4:AD:176:LEU:N	4:AD:176:LEU:HD23	2.34	0.43
1:AA:400:C:H5''	4:AD:73:ARG:HH21	1.83	0.43
1:AA:7:G:N7	5:AE:119:LEU:HD13	2.34	0.43
6:AF:79:LEU:O	6:AF:85:VAL:HB	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:AG:49:ILE:HG12	7:AG:53:LYS:NZ	2.34	0.43
8:AH:86:ILE:HB	8:AH:133:LEU:CD2	2.49	0.43
1:AA:1129:C:P	9:AI:18:PHE:CZ	2.90	0.43
9:AI:29:ASN:OD1	9:AI:64:THR:HA	2.18	0.43
12:AL:29:GLY:O	12:AL:30:ALA:C	2.56	0.43
13:AM:37:THR:CG2	13:AM:55:ARG:HE	2.31	0.43
13:AM:69:GLU:C	13:AM:71:ARG:H	2.21	0.43
1:AA:980:C:H2'	14:AN:21:TYR:OH	2.17	0.43
14:AN:24:CYS:N	14:AN:33:VAL:HG11	2.33	0.43
19:AS:35:SER:H	19:AS:51:VAL:CG1	2.32	0.43
20:AT:88:VAL:CB	20:AT:92:LEU:HD12	2.47	0.43
47:B1:41:PRO:HB2	47:B1:57:ASP:C	2.38	0.43
48:B2:25:LEU:HD13	48:B2:26:THR:N	2.33	0.43
22:BB:2003:A:H62	48:B2:9:LYS:HE2	1.83	0.43
53:B7:111:LEU:CD1	53:B7:148:ILE:HA	2.49	0.43
23:BA:98:C:C5	43:BW:11:LYS:NZ	2.86	0.43
22:BB:1000:G:H4'	22:BB:1168:G:OP1	2.19	0.43
22:BB:1141:U:H1'	22:BB:1142:G:C8	2.53	0.43
22:BB:1010:U:C2	22:BB:1168:G:N2	2.79	0.43
22:BB:1174:G:O2'	22:BB:1175:A:H5'	2.18	0.43
22:BB:1352:G:H5'	22:BB:1406:A:N6	2.34	0.43
22:BB:1453:A:C5'	22:BB:1454:U:H5	2.24	0.43
22:BB:1585:A:H2'	22:BB:1586:A:C8	2.54	0.43
22:BB:1935:A:H2'	22:BB:1936:A:C8	2.54	0.43
22:BB:2029:G:H1'	48:B2:22:HIS:HB3	2.00	0.43
22:BB:634:G:H2'	22:BB:635:C:C6	2.53	0.43
22:BB:683:A:OP1	33:BM:46:GLY:N	2.51	0.43
22:BB:782:U:H2'	22:BB:783:G:C8	2.54	0.43
22:BB:964:A:H61	22:BB:976:C:H42	1.66	0.43
24:BD:55:GLY:H	24:BD:220:HIS:CE1	2.36	0.43
24:BD:23:GLY:O	24:BD:24:LEU:HG	2.18	0.43
25:BE:203:LYS:HZ3	25:BE:203:LYS:HB3	1.83	0.43
22:BB:809:C:OP2	26:BF:57:LYS:HG3	2.18	0.43
27:BG:35:VAL:CG1	27:BG:88:LYS:HA	2.49	0.43
30:BJ:52:ILE:HG23	30:BJ:53:ILE:N	2.31	0.43
31:BK:96:ASP:OD1	31:BK:117:GLU:HB2	2.19	0.43
32:BL:77:THR:HG23	32:BL:78:SER:N	2.34	0.43
34:BN:35:LEU:HD22	34:BN:102:ARG:HD3	2.00	0.43
34:BN:45:SER:C	34:BN:47:GLN:N	2.70	0.43
22:BB:2814:G:O3'	35:BO:50:GLN:HG2	2.16	0.43
1:CA:1110:A:H3'	1:CA:1111:A:C8	2.54	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:1359:C:OP1	14:CN:22:THR:HB	2.17	0.43
1:CA:1433:A:H4'	37:DQ:116:ARG:CZ	2.47	0.43
1:CA:421:U:H2'	1:CA:423:G:O6	2.19	0.43
1:CA:738:C:C2	15:CO:46:HIS:NE2	2.86	0.43
1:CA:761:G:O4'	17:CQ:103:GLY:HA2	2.18	0.43
1:CA:80:C:H2'	1:CA:81:C:C6	2.53	0.43
1:CA:8:A:H5'	5:CE:121:LYS:CA	2.46	0.43
1:CA:917:G:H2'	1:CA:918:A:O4'	2.18	0.43
2:CB:41:ILE:HG22	2:CB:42:ILE:N	2.34	0.43
4:CD:10:ARG:NH2	4:CD:14:ARG:HE	2.17	0.43
4:CD:176:LEU:HD23	4:CD:176:LEU:N	2.33	0.43
5:CE:80:ILE:HG13	5:CE:80:ILE:O	2.19	0.43
9:CI:107:ARG:HG3	9:CI:107:ARG:H	1.66	0.43
10:CJ:38:ILE:HA	10:CJ:39:PRO:HD2	1.86	0.43
10:CJ:7:LYS:NZ	10:CJ:69:ASN:HD22	2.16	0.43
1:CA:553:A:O4'	12:CL:31:PRO:CG	2.66	0.43
12:CL:46:LYS:HE3	12:CL:47:LYS:HE2	2.01	0.43
12:CL:68:ALA:HB3	12:CL:100:ILE:HD11	2.01	0.43
17:CQ:78:GLU:HB2	17:CQ:81:ARG:HH11	1.83	0.43
6:CF:48:LEU:HD23	18:CR:78:LEU:N	2.31	0.43
49:D3:26:LYS:HB3	49:D3:27:ASN:H	1.67	0.43
22:DB:1192:A:O3'	39:DS:25:LEU:CD1	2.56	0.43
22:DB:1289:A:OP2	22:DB:1662:G:C2	2.72	0.43
22:DB:1585:A:H2'	22:DB:1586:A:C8	2.54	0.43
22:DB:1672:A:H62	22:DB:1988:A:H1'	1.82	0.43
22:DB:1851:A:H3'	22:DB:1852:G:H8	1.83	0.43
22:DB:1853:C:H2'	22:DB:1854:G:C8	2.53	0.43
22:DB:1932:G:H2'	22:DB:1933:G:H8	1.83	0.43
22:DB:2040:A:N1	48:D2:2:ALA:N	2.67	0.43
22:DB:2181:A:OP1	29:DI:28:TRP:CD1	2.72	0.43
22:DB:2523:G:H2'	22:DB:2524:G:O4'	2.18	0.43
22:DB:2787:A:N6	22:DB:2864:C:N4	2.66	0.43
22:DB:677:G:H1'	22:DB:951:G:P	2.58	0.43
22:DB:821:A:H2'	22:DB:822:G:C8	2.53	0.43
24:DD:104:TYR:O	24:DD:105:ILE:HG22	2.18	0.43
24:DD:121:PRO:HG3	24:DD:132:PRO:HD3	2.00	0.43
24:DD:213:ARG:O	24:DD:219:PRO:HD3	2.19	0.43
25:DE:1:MET:C	25:DE:2:LYS:HD3	2.39	0.43
27:DG:38:GLU:HA	27:DG:152:MET:HG2	2.00	0.43
28:DH:55:PRO:HD2	28:DH:61:HIS:HE2	1.82	0.43
29:DI:4:ILE:HG23	29:DI:15:GLY:HA3	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DO:45:ARG:O	35:DO:47:PHE:N	2.43	0.43
35:DO:76:VAL:HG13	35:DO:77:ARG:N	2.32	0.43
36:DP:9:ARG:HH12	36:DP:11:LEU:N	2.16	0.43
37:DQ:18:GLN:HA	37:DQ:21:THR:HG23	2.00	0.43
37:DQ:28:ARG:HG3	37:DQ:30:GLY:H	1.82	0.43
37:DQ:63:ARG:O	37:DQ:65:SER:N	2.52	0.43
38:DR:111:ASP:HA	38:DR:114:ARG:CB	2.49	0.43
22:DB:523:A:H2	38:DR:11:ARG:NH1	2.16	0.43
42:DV:36:VAL:HG12	42:DV:37:LEU:N	2.33	0.43
43:DW:96:VAL:HA	43:DW:97:PRO:HD2	1.37	0.43
1:EA:201:G:H2'	1:EA:202:G:O4'	2.18	0.43
1:EA:211:G:N3	1:EA:211:G:C2'	2.80	0.43
1:EA:318:G:H2'	1:EA:319:G:C8	2.53	0.43
1:EA:541:G:H2'	1:EA:542:G:C8	2.54	0.43
1:EA:80:C:H2'	1:EA:81:C:C6	2.53	0.43
1:EA:917:G:H2'	1:EA:918:A:O4'	2.18	0.43
3:EC:11:ARG:C	3:EC:16:ARG:HB3	2.39	0.43
7:EG:95:ARG:HG2	7:EG:99:LEU:CG	2.48	0.43
12:EL:29:GLY:O	12:EL:30:ALA:C	2.56	0.43
12:EL:41:ARG:HH11	12:EL:41:ARG:HB3	1.83	0.43
12:EL:46:LYS:HE3	12:EL:47:LYS:HE2	2.01	0.43
13:EM:19:LEU:O	13:EM:25:ILE:HD12	2.18	0.43
15:EO:70:LEU:C	15:EO:78:TYR:HB2	2.38	0.43
47:F1:41:PRO:HB2	47:F1:57:ASP:C	2.39	0.43
22:FB:2073:A:N3	47:F1:58:LYS:HE3	2.34	0.43
53:F7:109:TRP:CE2	53:F7:156:LEU:HB2	2.52	0.43
22:FB:1004:A:C2	22:FB:1173:G:N1	2.85	0.43
22:FB:1047:G:N1	22:FB:1048:U:O2	2.52	0.43
22:FB:1781:C:H2'	22:FB:1782:A:C8	2.54	0.43
22:FB:1815:G:OP1	24:FD:54:ILE:HB	2.17	0.43
22:FB:1853:C:H2'	22:FB:1854:G:C8	2.54	0.43
22:FB:1948:C:N4	22:FB:2571:G:C1'	2.61	0.43
22:FB:2261:G:C2	22:FB:2404:A:C8	3.06	0.43
22:FB:2363:G:P	44:FX:39:ARG:NE	2.70	0.43
22:FB:226:C:N1	22:FB:2373:C:O2'	2.50	0.43
22:FB:2546:G:H2'	22:FB:2547:C:C6	2.53	0.43
22:FB:576:A:H62	22:FB:584:A:H2	1.66	0.43
22:FB:634:G:H2'	22:FB:635:C:C6	2.53	0.43
22:FB:661:C:OP1	51:F5:20:GLY:HA3	2.19	0.43
22:FB:800:U:C3'	22:FB:804:C:H41	2.28	0.43
22:FB:868:U:H2'	22:FB:869:C:C5	2.54	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:FB:899:G:H2'	22:FB:900:U:O4'	2.19	0.43
24:FD:108:PRO:HB3	24:FD:195:ALA:H	1.84	0.43
22:FB:1780:A:H4'	24:FD:222:ARG:CZ	2.48	0.43
24:FD:78:LYS:N	24:FD:78:LYS:HD2	2.33	0.43
26:FF:16:GLU:CG	26:FF:17:LEU:H	2.22	0.43
28:FH:155:ASP:O	28:FH:160:LYS:HD2	2.18	0.43
22:FB:2638:G:C6	28:FH:181:GLY:O	2.67	0.43
22:FB:2738:A:N3	28:FH:64:LEU:HA	2.34	0.43
29:FI:26:ARG:HG2	47:F1:73:LYS:N	2.31	0.43
30:FJ:12:LEU:HD23	30:FJ:12:LEU:H	1.83	0.43
31:FK:126:VAL:HG13	31:FK:127:ILE:N	2.34	0.43
31:FK:71:THR:O	31:FK:72:PRO:O	2.37	0.43
33:FM:63:ARG:HA	51:F5:12:ARG:HG2	2.01	0.43
35:FO:22:ARG:HH11	35:FO:22:ARG:HG3	1.84	0.43
37:FQ:28:ARG:HG3	37:FQ:30:GLY:H	1.82	0.43
38:FR:33:ARG:NH2	38:FR:34:ASN:HD21	2.14	0.43
38:FR:38:THR:O	38:FR:41:ASN:HB3	2.18	0.43
38:FR:93:LYS:O	38:FR:94:VAL:HB	2.19	0.43
42:FV:83:LEU:HD12	42:FV:92:THR:HG21	2.01	0.43
43:FW:143:ILE:HD13	43:FW:144:GLY:N	2.34	0.43
43:FW:18:MET:N	43:FW:36:ARG:HH12	2.11	0.43
43:FW:72:ASP:HB2	43:FW:77:ALA:C	2.39	0.43
1:GA:1051:C:H5	1:GA:1201:A:OP2	2.02	0.43
1:GA:127:G:H2'	1:GA:128:G:C8	2.47	0.43
1:GA:1323:G:H4'	1:GA:1362:C:N3	2.33	0.43
1:GA:1350:A:O2'	7:GG:33:ASP:HA	2.19	0.43
1:GA:193:C:O2'	20:GT:64:ASP:C	2.57	0.43
1:GA:195:A:OP2	20:GT:65:LYS:HE3	2.19	0.43
1:GA:701:C:HO2'	1:GA:702:A:P	2.42	0.43
1:GA:903:G:O2'	1:GA:904:C:H5'	2.19	0.43
3:GC:12:LEU:HD23	3:GC:16:ARG:HG3	2.00	0.43
3:GC:47:LEU:HD11	3:GC:83:ARG:CZ	2.48	0.43
4:GD:41:GLY:O	4:GD:45:GLN:HG3	2.18	0.43
1:GA:400:C:C4'	4:GD:73:ARG:NH2	2.80	0.43
12:GL:46:LYS:HE3	12:GL:47:LYS:HE2	2.01	0.43
1:GA:1226:C:C5	13:GM:104:ARG:HB2	2.53	0.43
1:GA:1321:C:C5'	13:GM:87:TYR:CZ	3.01	0.43
15:GO:17:ARG:HB3	15:GO:18:PHE:H	1.59	0.43
18:GR:34:TYR:HA	18:GR:37:VAL:CG2	2.49	0.43
13:GM:84:ILE:HD12	19:GS:66:MET:HA	1.98	0.43
50:H4:29:ASN:HB2	50:H4:33:ARG:NH1	2.33	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:HB:2328:G:O3'	51:H5:42:ARG:CD	2.65	0.43
22:HB:419:G:C5'	53:H7:197:GLU:O	2.63	0.43
53:H7:33:ILE:HD12	53:H7:206:LYS:CE	2.49	0.43
22:HB:3175:C:C2'	53:H7:206:LYS:HE2	2.46	0.43
23:HA:119:G:H2'	23:HA:119:G:N3	2.33	0.43
22:HB:1352:G:H5'	22:HB:1406:A:N6	2.34	0.43
22:HB:1544:A:C5	22:HB:1545:G:H1'	2.54	0.43
22:HB:155:G:H2'	22:HB:156:G:C8	2.53	0.43
22:HB:1596:A:H2'	22:HB:1597:A:O4'	2.19	0.43
22:HB:1791:C:O2'	22:HB:1792:C:H3'	2.19	0.43
22:HB:1807:A:N3	22:HB:1808:C:H1'	2.34	0.43
22:HB:1935:A:H2'	22:HB:1936:A:C8	2.54	0.43
22:HB:2010:G:H2'	22:HB:2011:U:C6	2.53	0.43
22:HB:2240:C:H5'	22:HB:2367:A:O5'	2.18	0.43
22:HB:245:C:O2	22:HB:245:C:H2'	2.17	0.43
22:HB:2494:C:H1'	31:HK:107:GLN:OE1	2.17	0.43
22:HB:2606:G:H1'	22:HB:2757:G:N2	2.20	0.43
22:HB:2522:G:O2'	22:HB:2624:G:C5	2.62	0.43
22:HB:2634:G:N2	22:HB:2642:G:N7	2.66	0.43
22:HB:3876:A:H62	53:H7:45:ASP:N	2.15	0.43
22:HB:510:G:H2'	22:HB:512:A:OP2	2.18	0.43
22:HB:682:G:N1	26:HF:49:ALA:CB	2.80	0.43
22:HB:875:G:H2'	22:HB:876:A:H8	1.78	0.43
25:HE:7:THR:HB	25:HE:194:GLY:N	2.33	0.43
25:HE:33:ILE:HB	25:HE:49:ILE:HG21	2.00	0.43
26:HF:62:LYS:NZ	26:HF:62:LYS:HB3	2.34	0.43
28:HH:18:ASN:HD22	28:HH:18:ASN:N	2.16	0.43
28:HH:29:PRO:HG2	28:HH:78:GLY:O	2.18	0.43
30:HJ:72:PRO:N	30:HJ:73:PRO:HD2	2.32	0.43
34:HN:35:LEU:HD13	34:HN:103:VAL:HG21	2.00	0.43
38:HR:38:THR:O	38:HR:41:ASN:HB3	2.18	0.43
22:HB:984:A:OP2	39:HS:80:TYR:HE2	1.99	0.43
40:HT:34:SER:HA	40:HT:35:PRO:HD3	1.91	0.43
40:HT:73:ASN:H	40:HT:73:ASN:ND2	2.15	0.43
43:HW:69:VAL:HG12	43:HW:70:GLN:N	2.33	0.43
43:HW:70:GLN:NE2	43:HW:81:VAL:HG22	2.33	0.43
22:HB:869:C:O2'	44:HX:56:ASP:OD2	2.36	0.43
45:HY:57:LYS:O	45:HY:61:ALA:HB3	2.18	0.43
1:IA:1091:U:OP1	1:IA:1172:C:H4'	2.18	0.43
1:IA:1095:U:H2'	1:IA:1096:C:C6	2.54	0.43
1:IA:125:U:O3'	1:IA:605:U:O2'	2.36	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:IA:1348:U:H2'	1:IA:1349:A:C8	2.54	0.43
1:IA:649:G:O2'	1:IA:650:G:H5'	2.18	0.43
1:IA:686:U:O5'	11:IK:41:THR:CG2	2.37	0.43
1:IA:888:G:H21	1:IA:909:A:H62	1.66	0.43
3:IC:47:LEU:HD11	3:IC:83:ARG:CZ	2.48	0.43
10:IJ:96:ILE:HG13	10:IJ:96:ILE:H	1.60	0.43
12:IL:53:ARG:HG3	12:IL:69:TYR:HE1	1.84	0.43
22:JB:2074:U:C2	47:J1:43:TRP:O	2.71	0.43
49:J3:11:LYS:HB2	49:J3:11:LYS:NZ	2.25	0.43
22:JB:2505:G:HO2'	52:J6:34:GLN:CG	2.30	0.43
53:J7:93:LEU:HD13	53:J7:124:LEU:HD11	2.00	0.43
22:JB:1363:C:O2'	22:JB:1588:A:C2'	2.66	0.43
22:JB:1544:A:C5	22:JB:1545:G:H1'	2.54	0.43
22:JB:165:G:H2'	22:JB:166:G:C5	2.54	0.43
22:JB:1672:A:H62	22:JB:1988:A:H1'	1.82	0.43
22:JB:1750:A:H4'	22:JB:2695:C:H1'	1.98	0.43
22:JB:1807:A:N3	22:JB:1808:C:H1'	2.33	0.43
22:JB:3877:A:C5	22:JB:1862:C:C5	2.89	0.43
22:JB:1873:A:H3'	22:JB:1874:G:H8	1.83	0.43
22:JB:2325:A:O2'	49:J3:25:THR:CG2	2.60	0.43
22:JB:2348:A:H2'	22:JB:2349:G:H8	1.82	0.43
22:JB:2403:C:H5'	22:JB:2404:A:OP1	2.19	0.43
22:JB:2603:G:H2'	22:JB:2604:G:O4'	2.18	0.43
22:JB:2679:G:C3'	22:JB:2680:U:H5''	2.48	0.43
22:JB:3122:U:C5'	53:J7:133:LYS:HE3	2.49	0.43
22:JB:392:G:N2	47:J1:14:ILE:CD1	2.82	0.43
22:JB:2570:C:H6	24:JD:237:GLU:O	1.99	0.43
22:JB:1791:C:C5'	24:JD:263:ARG:NH1	2.73	0.43
26:JF:40:ARG:HH11	26:JF:40:ARG:HB3	1.84	0.43
27:JG:63:GLN:HE21	27:JG:63:GLN:HB3	1.58	0.43
23:JA:44:C:H5'	27:JG:66:ILE:HG13	2.01	0.43
22:JB:3188:U:H5'	29:JI:20:VAL:HA	1.21	0.43
22:JB:1075:C:C1'	30:JJ:88:SER:OG	2.56	0.43
22:JB:920:G:P	34:JN:26:ASP:OD2	2.77	0.43
34:JN:69:ILE:HG21	34:JN:97:VAL:HG11	1.99	0.43
37:JQ:100:ARG:HD3	37:JQ:100:ARG:N	2.33	0.43
45:JY:36:GLN:HG3	45:JY:37:LEU:N	2.34	0.43
46:JZ:4:LYS:HD2	46:JZ:52:GLU:OE1	2.19	0.43
46:JZ:6:VAL:N	46:JZ:51:LEU:HG	2.34	0.43
1:AA:1239:A:H2'	1:AA:1298:C:H42	1.82	0.43
1:AA:448:A:H2'	1:AA:449:C:H5'	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:816:A:OP2	1:AA:1527:C:C5'	2.66	0.43
1:AA:903:G:O2'	1:AA:904:C:H5'	2.18	0.43
2:AB:20:GLU:HG3	2:AB:190:THR:HB	2.00	0.43
3:AC:128:PHE:HB3	3:AC:129:ALA:H	1.66	0.43
3:AC:47:LEU:HD11	3:AC:83:ARG:CZ	2.48	0.43
10:AJ:26:ALA:HB3	10:AJ:85:LEU:HD21	2.01	0.43
10:AJ:78:ASN:O	10:AJ:79:ARG:C	2.56	0.43
12:AL:92:ASP:OD1	12:AL:93:LEU:HG	2.18	0.43
13:AM:15:VAL:HG21	13:AM:48:LEU:HD11	2.00	0.43
13:AM:87:TYR:CD1	13:AM:90:LEU:CD1	3.00	0.43
14:AN:50:LYS:HB3	14:AN:52:GLN:NE2	2.30	0.43
1:AA:265:G:C4	17:AQ:64:PRO:HB2	2.50	0.43
20:AT:96:GLY:O	20:AT:97:ALA:HB3	2.18	0.43
22:BB:123:A:N9	50:B4:10:ARG:NH2	2.66	0.43
53:B7:111:LEU:HD22	53:B7:148:ILE:HA	2.01	0.43
22:BB:1071:U:H5	30:BJ:79:ARG:HH11	1.66	0.43
22:BB:1140:A:H1'	22:BB:2548:G:N2	2.33	0.43
22:BB:1888:C:H3'	22:BB:1913:G:N7	2.34	0.43
22:BB:2212:U:H2'	22:BB:2213:G:C8	2.54	0.43
22:BB:2222:U:H2'	22:BB:2223:U:C6	2.53	0.43
22:BB:2448:A:O3'	34:BN:58:HIS:ND1	2.52	0.43
22:BB:245:C:H2'	22:BB:245:C:O2	2.17	0.43
22:BB:2498:U:H5'	22:BB:2546:G:H22	1.78	0.43
22:BB:2603:G:N3	22:BB:2604:G:H1'	2.33	0.43
22:BB:2655:C:C3'	22:BB:2656:G:P	3.02	0.43
22:BB:2711:G:H5''	22:BB:2712:G:OP1	2.19	0.43
22:BB:2522:G:C6	22:BB:2745:A:H1'	2.54	0.43
22:BB:387:A:H62	22:BB:413:G:C1'	2.31	0.43
22:BB:222:G:N2	22:BB:397:U:H1'	2.29	0.43
22:BB:546:A:O4'	38:BR:53:LYS:CE	2.67	0.43
22:BB:576:A:H62	22:BB:584:A:H2	1.66	0.43
22:BB:658:G:H1'	22:BB:2330:G:P	2.39	0.43
22:BB:683:A:H5'	22:BB:685:U:OP1	2.18	0.43
22:BB:984:A:H1'	22:BB:1201:G:H21	1.83	0.43
24:BD:121:PRO:HG3	24:BD:132:PRO:HD3	1.99	0.43
25:BE:98:GLU:OE2	25:BE:175:ILE:HG13	2.18	0.43
25:BE:51:TYR:CD1	37:BQ:5:ILE:CG1	2.60	0.43
27:BG:70:ALA:CB	27:BG:85:VAL:HG21	2.43	0.43
29:BI:29:LEU:HD22	29:BI:29:LEU:N	2.34	0.43
22:BB:1092:U:C4'	30:BJ:117:ALA:HB2	2.41	0.43
1:AA:1471:G:C5'	32:BL:17:ARG:HH11	2.31	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:BQ:63:ARG:O	37:BQ:65:SER:N	2.52	0.43
37:BQ:80:VAL:HG12	37:BQ:82:PRO:HD3	1.99	0.43
38:BR:111:ASP:HA	38:BR:114:ARG:CB	2.49	0.43
38:BR:61:TRP:CZ2	38:BR:97:ASP:HA	2.54	0.43
40:BT:115:ASN:OD1	40:BT:117:ILE:HG23	2.19	0.43
42:BV:36:VAL:CG1	42:BV:37:LEU:H	2.31	0.43
42:BV:51:VAL:HG11	42:BV:74:LEU:CD2	2.49	0.43
22:BB:494:A:H1'	42:BV:56:LYS:CB	2.48	0.43
22:BB:916:U:O2'	43:BW:122:ILE:HB	2.19	0.43
43:BW:18:MET:N	43:BW:18:MET:SD	2.92	0.43
22:BB:2342:U:H4'	44:BX:38:VAL:O	2.18	0.43
45:BY:54:ASN:C	45:BY:57:LYS:HB3	2.39	0.43
46:BZ:6:VAL:N	46:BZ:51:LEU:HG	2.34	0.43
1:CA:1128:C:C4'	1:CA:1146:A:H61	2.31	0.43
1:CA:1239:A:H2'	1:CA:1298:C:H42	1.82	0.43
1:CA:825:G:H2'	1:CA:826:C:O4'	2.18	0.43
2:CB:211:ILE:HA	2:CB:214:ILE:HG12	2.00	0.43
4:CD:57:ARG:NH2	5:CE:111:GLU:OE1	2.52	0.43
5:CE:130:ASN:HA	5:CE:133:TYR:CE1	2.53	0.43
5:CE:94:ALA:HB3	5:CE:118:ILE:HA	2.01	0.43
13:CM:85:GLY:HA2	13:CM:93:ARG:HG3	1.99	0.43
14:CN:50:LYS:HB3	14:CN:52:GLN:NE2	2.30	0.43
15:CO:78:TYR:CD2	15:CO:79:ARG:HG3	2.54	0.43
22:DB:2328:G:O5'	51:D5:42:ARG:HD2	2.18	0.43
52:D6:2:LYS:N	52:D6:2:LYS:HD3	2.34	0.43
23:DA:10:U:H4'	36:DP:28:ARG:CZ	2.48	0.43
22:DB:1019:U:OP2	31:DK:63:ARG:CG	2.67	0.43
22:DB:1141:U:H1'	22:DB:1142:G:C8	2.53	0.43
22:DB:1166:A:HO2'	22:DB:1167:A:H8	1.62	0.43
22:DB:1807:A:N3	22:DB:1808:C:H1'	2.33	0.43
22:DB:1911:A:H3'	22:DB:1912:G:C8	2.53	0.43
22:DB:2212:U:H2'	22:DB:2213:G:C8	2.54	0.43
22:DB:2506:C:O2'	22:DB:2507:U:H5'	2.18	0.43
22:DB:2752:C:C1'	25:DE:166:THR:HG22	2.48	0.43
22:DB:2785:A:H2'	22:DB:2786:G:C8	2.53	0.43
22:DB:3130:G:H1'	22:DB:3159:G:N2	2.32	0.43
22:DB:387:A:H62	22:DB:413:G:C1'	2.32	0.43
22:DB:397:U:H2'	22:DB:398:C:O4'	2.19	0.43
22:DB:800:U:C3'	22:DB:804:C:H41	2.28	0.43
22:DB:80:A:H3'	22:DB:81:C:C6	2.53	0.43
22:DB:984:A:H1'	22:DB:1201:G:H21	1.83	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:DE:44:TYR:HB2	25:DE:82:ARG:HG2	2.00	0.43
26:DF:163:ASN:CB	26:DF:166:TRP:HB2	2.48	0.43
27:DG:170:LEU:HA	27:DG:173:MET:HB3	2.00	0.43
27:DG:2:GLN:HB3	27:DG:6:THR:HG23	2.00	0.43
27:DG:80:ARG:H	27:DG:83:MET:HG2	1.83	0.43
22:DB:2725:C:C4'	28:DH:141:VAL:HG22	2.41	0.43
30:DJ:12:LEU:H	30:DJ:12:LEU:HD23	1.83	0.43
22:DB:538:A:C3'	31:DK:139:ARG:NH2	2.80	0.43
32:DL:46:HIS:CB	32:DL:121:ARG:HH21	2.31	0.43
32:DL:98:ILE:HG23	32:DL:98:ILE:O	2.19	0.43
22:DB:676:G:P	33:DM:26:THR:CA	2.83	0.43
35:DO:112:LEU:HD22	35:DO:113:ILE:C	2.39	0.43
22:DB:1292:A:C5'	35:DO:33:ARG:HD3	2.05	0.43
35:DO:59:ASP:HB3	35:DO:60:LEU:H	1.62	0.43
38:DR:28:ARG:CG	38:DR:34:ASN:HB3	2.48	0.43
22:DB:1005:U:OP2	38:DR:51:ARG:CZ	2.67	0.43
40:DT:109:ARG:HB2	40:DT:115:ASN:ND2	2.34	0.43
44:DX:45:PHE:H	44:DX:76:ALA:N	2.16	0.43
1:EA:1006:C:H2'	1:EA:1007:C:N1	2.33	0.43
1:EA:1127:G:H2'	1:EA:1128:C:H6	1.83	0.43
1:EA:1333:A:C2	1:EA:1334:G:H1'	2.54	0.43
1:EA:1391:U:H2'	1:EA:1392:G:C8	2.53	0.43
1:EA:448:A:H2'	1:EA:449:C:H5'	2.00	0.43
1:EA:518:C:C2	12:EL:50:SER:N	2.85	0.43
1:EA:613:C:H5'	4:ED:86:LYS:HD2	1.92	0.43
1:EA:778:G:N3	11:EK:120:ARG:HB3	2.34	0.43
2:EB:93:VAL:HA	2:EB:148:TYR:O	2.18	0.43
1:EA:1056:U:O3'	3:EC:155:GLY:HA3	2.19	0.43
4:ED:13:ARG:NH1	4:ED:33:MET:HA	2.33	0.43
1:EA:436:C:H1'	4:ED:157:LEU:HB2	2.01	0.43
5:EE:104:ALA:HA	5:EE:107:ARG:NH1	2.33	0.43
9:EI:10:ARG:HE	9:EI:104:ARG:CG	2.27	0.43
1:EA:1123:A:C4'	10:EJ:37:PRO:O	2.64	0.43
1:EA:803:G:N2	11:EK:120:ARG:HH12	2.16	0.43
10:EJ:63:PHE:CG	14:EN:58:LYS:HA	2.43	0.43
15:EO:36:ILE:HD11	15:EO:63:ARG:NH1	2.34	0.43
1:EA:449:C:C4'	16:EP:42:ARG:O	2.66	0.43
20:ET:96:GLY:O	20:ET:97:ALA:HB3	2.18	0.43
47:F1:58:LYS:C	47:F1:60:ASN:H	2.22	0.43
51:F5:16:ILE:HG13	51:F5:17:THR:N	2.33	0.43
52:F6:23:VAL:H	52:F6:36:GLN:HE22	1.67	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:FA:11:G:H5'	36:FP:14:ARG:NH2	2.33	0.43
22:FB:10:A:C5	22:FB:2608:A:N9	2.86	0.43
22:FB:1145:C:H3'	22:FB:1147:G:P	2.59	0.43
22:FB:1935:A:H2'	22:FB:1936:A:C8	2.54	0.43
22:FB:2438:A:N6	22:FB:2472:U:C4	2.71	0.43
22:FB:2506:C:O2'	22:FB:2507:U:H5'	2.18	0.43
22:FB:3:U:C4	22:FB:2874:A:C6	3.07	0.43
22:FB:387:A:H62	22:FB:413:G:C1'	2.32	0.43
22:FB:58:C:H5''	22:FB:72:A:N6	2.29	0.43
22:FB:1805:G:H21	24:FD:52:ARG:CD	2.30	0.43
24:FD:55:GLY:C	24:FD:218:LYS:HB2	2.38	0.43
22:FB:2490:U:H4'	25:FE:122:PHE:CE1	2.53	0.43
25:FE:1:MET:C	25:FE:2:LYS:HD3	2.39	0.43
26:FF:163:ASN:CB	26:FF:166:TRP:HB2	2.49	0.43
22:FB:1269:G:C2	26:FF:76:THR:CA	2.92	0.43
22:FB:2284:U:C2'	27:FG:152:MET:HE3	2.40	0.43
27:FG:170:LEU:HA	27:FG:173:MET:HB3	2.01	0.43
27:FG:19:GLN:HE21	27:FG:19:GLN:HB3	1.54	0.43
27:FG:45:GLU:HG2	27:FG:48:LYS:HB3	2.01	0.43
22:FB:2638:G:C5	28:FH:180:GLY:C	2.82	0.43
28:FH:9:ILE:HD13	28:FH:69:ARG:HH12	1.83	0.43
30:FJ:72:PRO:N	30:FJ:73:PRO:HD2	2.33	0.43
32:FL:77:THR:OG1	32:FL:78:SER:N	2.48	0.43
32:FL:83:ARG:O	32:FL:84:ALA:HB3	2.19	0.43
22:FB:1256:C:O4'	33:FM:15:ASP:OD2	2.36	0.43
35:FO:5:LYS:N	35:FO:5:LYS:HE3	2.34	0.43
35:FO:65:LEU:HD12	35:FO:68:GLN:O	2.18	0.43
38:FR:45:TYR:CA	39:FS:76:SER:HG	2.05	0.43
44:FX:5:LYS:HB3	44:FX:6:GLY:H	1.61	0.43
1:GA:107:G:N1	20:GT:14:LYS:CB	2.48	0.43
1:GA:1095:U:H2'	1:GA:1096:C:C6	2.54	0.43
1:GA:1110:A:H3'	1:GA:1111:A:C8	2.54	0.43
1:GA:1128:C:C4'	1:GA:1146:A:H61	2.31	0.43
1:GA:1348:U:H2'	1:GA:1349:A:C8	2.54	0.43
1:GA:1393:U:O3'	1:GA:1394:A:N7	2.32	0.43
1:GA:546:G:P	4:GD:72:GLU:CB	3.07	0.43
1:GA:764:C:H5'	15:GO:50:HIS:CE1	2.54	0.43
1:GA:794:A:O2'	1:GA:1521:G:H4'	2.18	0.43
1:GA:932:C:C4'	7:GG:4:ARG:HE	2.21	0.43
2:GB:115:LEU:HG	2:GB:153:ARG:HH21	1.84	0.43
2:GB:20:GLU:HG3	2:GB:190:THR:HB	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:GD:168:ARG:N	4:GD:168:ARG:HE	2.17	0.43
4:GD:60:GLU:HG3	4:GD:203:VAL:CG2	2.49	0.43
1:GA:8:A:N9	5:GE:107:ARG:NH2	2.67	0.43
1:GA:1374:A:C4'	7:GG:28:ASN:OD1	2.60	0.43
9:GI:77:ILE:O	9:GI:81:ILE:HG13	2.18	0.43
10:GJ:38:ILE:HA	10:GJ:39:PRO:HD2	1.86	0.43
12:GL:29:GLY:O	12:GL:30:ALA:C	2.56	0.43
12:GL:53:ARG:HG3	12:GL:69:TYR:HE1	1.84	0.43
12:GL:92:ASP:OD1	12:GL:93:LEU:HG	2.18	0.43
13:GM:49:THR:O	13:GM:53:VAL:HG23	2.18	0.43
15:GO:8:LYS:HA	15:GO:11:VAL:HG23	1.99	0.43
1:GA:751:U:C5'	15:GO:23:GLY:O	2.63	0.43
15:GO:36:ILE:HD11	15:GO:63:ARG:NH1	2.34	0.43
15:GO:78:TYR:CD2	15:GO:79:ARG:HG3	2.53	0.43
48:H2:46:CYS:HB2	48:H2:50:GLY:HA2	2.01	0.43
52:H6:2:LYS:N	52:H6:2:LYS:HD3	2.33	0.43
53:H7:66:VAL:O	53:H7:84:VAL:HG13	2.18	0.43
22:HB:1293:A:N1	22:HB:1303:U:N3	2.64	0.43
22:HB:1340:C:H5''	40:HT:32:ARG:HH21	1.83	0.43
22:HB:1585:A:H2'	22:HB:1586:A:C8	2.54	0.43
22:HB:1827:G:N2	22:HB:1828:C:N4	2.67	0.43
22:HB:1873:A:H3'	22:HB:1874:G:H8	1.83	0.43
22:HB:2190:A:H5''	22:HB:2191:A:O5'	2.18	0.43
22:HB:2351:G:O2'	22:HB:2352:A:H5'	2.18	0.43
22:HB:2556:A:H4'	22:HB:2591:C:N4	2.33	0.43
22:HB:2603:G:N3	22:HB:2604:G:H1'	2.33	0.43
22:HB:2679:G:C3'	22:HB:2680:U:H5''	2.49	0.43
22:HB:2784:A:H3'	22:HB:2784:A:N3	2.33	0.43
22:HB:468:A:H2'	22:HB:469:G:H4'	1.99	0.43
22:HB:673:G:H5''	26:HF:93:TYR:HD1	1.25	0.43
22:HB:984:A:H5'	22:HB:1202:U:C1'	2.48	0.43
22:HB:991:A:N6	22:HB:2020:G:H21	2.17	0.43
24:HD:11:PRO:HD2	24:HD:24:LEU:N	2.34	0.43
24:HD:108:PRO:HB3	24:HD:195:ALA:H	1.84	0.43
25:HE:98:GLU:OE2	25:HE:175:ILE:HG13	2.19	0.43
26:HF:40:ARG:HH11	26:HF:40:ARG:HB3	1.84	0.43
26:HF:56:ARG:O	26:HF:57:LYS:HB2	2.18	0.43
26:HF:59:TYR:HB3	26:HF:60:GLY:H	1.59	0.43
27:HG:80:ARG:H	27:HG:83:MET:HG2	1.82	0.43
28:HH:40:GLU:O	28:HH:41:LEU:HD22	2.18	0.43
34:HN:37:ALA:O	34:HN:38:MET:HB3	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:HN:44:LYS:HZ3	34:HN:44:LYS:HB3	1.82	0.43
38:HR:24:PHE:HB2	38:HR:28:ARG:HB2	1.99	0.43
43:HW:18:MET:N	43:HW:18:MET:SD	2.91	0.43
43:HW:17:SER:HA	43:HW:36:ARG:HH22	1.84	0.43
44:HX:49:GLN:N	44:HX:49:GLN:NE2	2.65	0.43
46:HZ:6:VAL:N	46:HZ:51:LEU:HG	2.34	0.43
1:IA:1296:C:O2'	1:IA:1297:C:H5'	2.19	0.43
1:IA:1520:G:H2'	1:IA:1521:G:H8	1.81	0.43
1:IA:329:A:O3'	1:IA:330:C:H4'	2.19	0.43
1:IA:652:U:H2'	1:IA:752:G:N1	2.34	0.43
1:IA:812:C:H4'	1:IA:813:U:C5'	2.49	0.43
2:IB:171:ALA:O	2:IB:174:VAL:HB	2.18	0.43
2:IB:20:GLU:HG3	2:IB:190:THR:HB	2.00	0.43
3:IC:20:SER:O	14:IN:54:PRO:HD3	2.18	0.43
4:ID:108:LEU:HA	4:ID:170:VAL:CG2	2.46	0.43
9:II:17:VAL:O	9:II:19:LEU:HD23	2.19	0.43
10:IJ:78:ASN:O	10:IJ:79:ARG:C	2.56	0.43
12:IL:43:VAL:O	12:IL:45:PRO:HD3	2.19	0.43
12:IL:46:LYS:HE3	12:IL:47:LYS:HE2	2.01	0.43
13:IM:69:GLU:C	13:IM:71:ARG:H	2.21	0.43
1:IA:129(A):G:OP1	17:IQ:63:ARG:CG	2.66	0.43
18:IR:63:GLN:HA	18:IR:66:LEU:CB	2.45	0.43
19:IS:35:SER:H	19:IS:51:VAL:CG1	2.32	0.43
22:JB:2325:A:C2'	49:J3:25:THR:HG21	2.48	0.43
50:J4:29:ASN:HB2	50:J4:33:ARG:NH1	2.34	0.43
22:JB:231:G:C2	51:J5:7:HIS:CD2	3.01	0.43
23:JA:118:G:HO2'	23:JA:119:G:H8	1.63	0.43
23:JA:84:G:H2'	23:JA:85:G:C8	2.53	0.43
22:JB:1002:C:O2'	39:JS:86:HIS:HB3	2.18	0.43
22:JB:1003:C:O2	39:JS:88:GLN:CG	2.66	0.43
22:JB:1035:G:H21	22:JB:1155:G:C5'	2.32	0.43
22:JB:103:U:H2'	22:JB:104:C:O4'	2.19	0.43
22:JB:1619:A:H2'	22:JB:1619:A:N3	2.34	0.43
22:JB:1777:A:O2'	22:JB:1921:A:N6	2.50	0.43
1:IA:1418:A:H1'	22:JB:1942:G:O4'	2.18	0.43
22:JB:2263:C:OP1	49:J3:8:ILE:HA	2.18	0.43
22:JB:2276:C:H42	22:JB:2299:A:C1'	2.21	0.43
22:JB:2293:G:OP1	27:JG:88:LYS:NZ	2.44	0.43
22:JB:2409:A:H5''	22:JB:2410:U:OP2	2.19	0.43
22:JB:198:A:H2'	22:JB:244:C:N4	2.33	0.43
22:JB:2542:U:H1'	22:JB:2545:A:N1	2.34	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:JB:79:G:C4'	22:JB:356:A:C2	3.01	0.43
22:JB:297:A:H61	22:JB:366:U:H3	1.62	0.43
22:JB:683:A:H5'	22:JB:685:U:OP1	2.18	0.43
22:JB:68:C:H5'	22:JB:111:G:H21	1.82	0.43
22:JB:869:C:O2'	44:JX:24:LYS:HG2	2.19	0.43
22:JB:1148:G:N2	31:JK:56:THR:OG1	2.50	0.43
22:JB:2542:U:H4'	32:JL:40:GLY:C	2.38	0.43
22:JB:1203:A:H5'	33:JM:36:GLY:HA3	1.31	0.43
22:JB:576:A:OP1	33:JM:40:ARG:NH1	2.52	0.43
35:JO:15:SER:O	35:JO:19:ALA:HB3	2.19	0.43
40:JT:115:ASN:OD1	40:JT:117:ILE:HG23	2.19	0.43
41:JU:61:LYS:N	41:JU:72:ARG:HD3	2.20	0.43
42:JV:36:VAL:CG1	42:JV:37:LEU:H	2.31	0.43
1:AA:1077:G:H1	5:AE:45:PHE:CZ	1.76	0.43
1:AA:300:A:H4'	1:AA:564:C:H41	1.84	0.43
1:AA:420:U:O2'	1:AA:421:U:H5''	2.18	0.43
1:AA:541:G:H2'	1:AA:542:G:C8	2.54	0.43
1:AA:22:G:N2	1:AA:913:A:H2	2.15	0.43
2:AB:90:MET:SD	2:AB:90:MET:N	2.91	0.43
1:AA:438:G:OP1	4:AD:125:HIS:CD2	2.72	0.43
4:AD:168:ARG:N	4:AD:168:ARG:HE	2.17	0.43
5:AE:89:ILE:HD13	5:AE:90:VAL:H	1.83	0.43
10:AJ:96:ILE:HG22	10:AJ:97:GLU:N	2.33	0.43
13:AM:3:ARG:HA	13:AM:8:GLU:O	2.18	0.43
1:AA:727:G:C4'	15:AO:51:HIS:HD2	2.31	0.43
15:AO:8:LYS:HA	15:AO:11:VAL:HG23	1.99	0.43
1:AA:760:G:N3	17:AQ:98:LEU:HD22	2.33	0.43
19:AS:2:PRO:HG2	19:AS:3:ARG:H	1.83	0.43
47:B1:41:PRO:CG	47:B1:57:ASP:HA	2.49	0.43
48:B2:45:ILE:HG23	48:B2:51:TYR:N	2.33	0.43
49:B3:43:VAL:HG23	49:B3:44:ALA:N	2.30	0.43
52:B6:23:VAL:H	52:B6:36:GLN:HE22	1.67	0.43
53:B7:33:ILE:HD12	53:B7:206:LYS:CE	2.49	0.43
53:B7:66:VAL:O	53:B7:84:VAL:HG13	2.19	0.43
22:BB:1042:G:O5'	52:B6:7:VAL:CA	2.66	0.43
22:BB:118:U:H4'	22:BB:120:G:OP1	2.18	0.43
22:BB:1338:G:N3	40:BT:107:ILE:HD13	2.32	0.43
22:BB:1483:G:O6	22:BB:1539:U:C4	2.67	0.43
22:BB:1807:A:N3	22:BB:1808:C:H1'	2.34	0.43
22:BB:1853:C:H2'	22:BB:1854:G:C8	2.54	0.43
22:BB:1885:C:O3'	24:BD:241:GLY:C	2.52	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:BB:2010:G:H2'	22:BB:2011:U:C6	2.53	0.43
22:BB:2419:C:H2'	22:BB:2420:C:H4'	2.01	0.43
22:BB:2506:C:O2'	22:BB:2507:U:H5'	2.19	0.43
22:BB:2523:G:H2'	22:BB:2524:G:O4'	2.18	0.43
22:BB:2546:G:H2'	22:BB:2547:C:C6	2.54	0.43
22:BB:2510:A:C1'	22:BB:2637:C:HO2'	2.32	0.43
22:BB:2787:A:N6	22:BB:2864:C:N4	2.66	0.43
22:BB:107:G:C4'	22:BB:358:C:HO2'	2.31	0.43
22:BB:455:A:H61	26:BF:32:THR:HG23	1.83	0.43
22:BB:80:A:H3'	22:BB:81:C:C6	2.53	0.43
22:BB:907:U:H2'	22:BB:909:C:C6	2.54	0.43
24:BD:108:PRO:HB3	24:BD:195:ALA:H	1.84	0.43
24:BD:22:SER:HA	24:BD:206:LEU:HA	2.01	0.43
24:BD:213:ARG:O	24:BD:219:PRO:HD3	2.19	0.43
24:BD:43:ARG:HG3	24:BD:60:ARG:HB2	2.00	0.43
26:BF:19:LEU:HD11	26:BF:108:ILE:O	2.19	0.43
26:BF:78:VAL:HG13	26:BF:78:VAL:O	2.19	0.43
27:BG:170:LEU:HA	27:BG:173:MET:HB3	2.01	0.43
28:BH:9:ILE:HD13	28:BH:69:ARG:HH12	1.83	0.43
30:BJ:12:LEU:HD23	30:BJ:12:LEU:H	1.84	0.43
31:BK:139:ARG:HH22	31:BK:142:ARG:NH1	2.06	0.43
32:BL:86:GLY:C	37:BQ:84:ALA:CA	2.86	0.43
34:BN:74:PRO:HG3	34:BN:93:TYR:CE1	2.53	0.43
35:BO:13:ASN:H	35:BO:13:ASN:ND2	2.16	0.43
37:BQ:72:SER:HB2	37:BQ:78:GLU:O	2.18	0.43
22:BB:1996:A:C4'	40:BT:117:ILE:HA	2.45	0.43
22:BB:512:A:OP2	40:BT:16:GLN:NE2	2.50	0.43
44:BX:34:GLY:O	44:BX:68:VAL:HA	2.18	0.43
45:BY:57:LYS:O	45:BY:61:ALA:HB3	2.19	0.43
1:CA:1006:C:H2'	1:CA:1007:C:N1	2.33	0.43
1:CA:1095:U:H2'	1:CA:1096:C:C6	2.54	0.43
1:CA:1324:A:H1'	1:CA:1362:C:P	2.59	0.43
1:CA:420:U:O2'	1:CA:421:U:H5''	2.18	0.43
1:CA:541:G:H2'	1:CA:542:G:C8	2.54	0.43
1:CA:546:G:H2'	1:CA:546:G:N3	2.33	0.43
1:CA:689:C:H3'	11:CK:51:LYS:CE	2.49	0.43
1:CA:903:G:O2'	1:CA:904:C:H5'	2.19	0.43
1:CA:903:G:H2'	1:CA:904:C:C6	2.54	0.43
2:CB:20:GLU:HG3	2:CB:190:THR:HB	2.00	0.43
8:CH:111:ILE:HD13	8:CH:120:THR:HG22	2.00	0.43
8:CH:83:ILE:O	8:CH:84:ARG:HB2	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:CI:29:ASN:OD1	9:CI:64:THR:HA	2.19	0.43
1:CA:1226:C:H5''	13:CM:111:LYS:CE	2.49	0.43
1:CA:1216:G:P	14:CN:3:ARG:CZ	3.07	0.43
14:CN:8:GLU:O	14:CN:11:LYS:HB2	2.18	0.43
17:CQ:26:GLN:HB3	17:CQ:38:ARG:H	1.84	0.43
19:CS:17:GLU:O	19:CS:21:GLU:HG3	2.19	0.43
48:D2:25:LEU:CD1	48:D2:27:ALA:H	2.32	0.43
53:D7:128:LEU:CD1	53:D7:133:LYS:HD2	2.49	0.43
53:D7:126:PRO:HD3	53:D7:135:PRO:HD3	2.01	0.43
53:D7:66:VAL:O	53:D7:84:VAL:HG13	2.18	0.43
23:DA:9:G:H1'	23:DA:117:G:N2	2.34	0.43
22:DB:115:G:P	22:DB:118:U:OP1	2.76	0.43
22:DB:1292:A:H2'	22:DB:1293:A:O4'	2.18	0.43
1:CA:270:A:H5''	22:DB:1738:U:H1'	2.00	0.43
22:DB:1781:C:H2'	22:DB:1782:A:C8	2.54	0.43
22:DB:1809:G:OP1	24:DD:63:ARG:CZ	2.66	0.43
22:DB:1873:A:H3'	22:DB:1874:G:H8	1.83	0.43
1:CA:1517:G:C1'	22:DB:1902:A:O3'	2.67	0.43
22:DB:1992:G:H4'	40:DT:62:ARG:CA	2.49	0.43
22:DB:2010:G:H2'	22:DB:2011:U:C6	2.53	0.43
22:DB:2056:C:OP1	24:DD:229:VAL:HG23	2.19	0.43
22:DB:213:C:H2'	22:DB:214:C:N1	2.34	0.43
22:DB:2222:U:H2'	22:DB:2223:U:C6	2.53	0.43
22:DB:2285:U:H5'	27:DG:40:LEU:HD21	1.96	0.43
22:DB:2419:C:H2'	22:DB:2420:C:H4'	2.01	0.43
22:DB:245:C:O2	22:DB:245:C:H2'	2.17	0.43
22:DB:2603:G:N3	22:DB:2604:G:H1'	2.33	0.43
22:DB:2694:G:H2'	22:DB:2695:C:C6	2.54	0.43
22:DB:2711:G:H5''	22:DB:2712:G:OP1	2.19	0.43
22:DB:549:G:OP1	31:DK:32:TYR:HE2	2.02	0.43
22:DB:782:U:H2'	22:DB:783:G:C8	2.54	0.43
22:DB:899:G:H2'	22:DB:900:U:O4'	2.19	0.43
24:DD:11:PRO:HD2	24:DD:24:LEU:N	2.34	0.43
22:DB:777:A:O2'	24:DD:210:GLY:HA3	2.18	0.43
24:DD:43:ARG:HG3	24:DD:60:ARG:HB2	2.00	0.43
22:DB:1807:A:C5'	24:DD:88:ARG:NE	2.79	0.43
26:DF:19:LEU:HD11	26:DF:108:ILE:O	2.19	0.43
26:DF:62:LYS:NZ	26:DF:62:LYS:HB3	2.34	0.43
28:DH:9:ILE:HD13	28:DH:69:ARG:HH12	1.83	0.43
29:DI:34:LEU:HB3	29:DI:35:ALA:H	1.44	0.43
29:DI:36:VAL:O	29:DI:37:SER:HB2	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:DK:96:ASP:OD1	31:DK:117:GLU:HB2	2.19	0.43
22:DB:2394:G:H5'	33:DM:63:ARG:HB3	1.90	0.43
34:DN:10:PHE:CD2	34:DN:13:GLN:HB2	2.53	0.43
34:DN:38:MET:HA	34:DN:99:LYS:CD	2.48	0.43
22:DB:1237:G:H5'	39:DS:89:ASN:OD1	2.19	0.43
41:DU:15:LYS:O	41:DU:19:ALA:HB3	2.19	0.43
22:DB:1050:G:H5'	43:DW:37:LYS:CE	2.42	0.43
46:DZ:2:LYS:O	46:DZ:54:GLN:HB2	2.18	0.43
1:EA:1097:C:HO2'	1:EA:1169:A:H8	1.67	0.43
1:EA:1114:C:C2'	14:EN:61:TRP:HB2	2.38	0.43
1:EA:1367:C:O4'	10:EJ:60:ARG:NH2	2.44	0.43
1:EA:159:G:H1'	1:EA:162:A:H61	1.81	0.43
1:EA:356:A:O2'	1:EA:357:G:H5'	2.19	0.43
1:EA:903:G:O2'	1:EA:904:C:H5'	2.18	0.43
1:EA:903:G:H2'	1:EA:904:C:C6	2.54	0.43
1:EA:966:G:C5'	9:EI:127:LYS:HE2	2.48	0.43
4:ED:194:LEU:H	4:ED:194:LEU:CD2	2.32	0.43
7:EG:16:LEU:HB2	9:EI:41:VAL:CA	2.46	0.43
1:EA:825:G:H21	8:EH:11:THR:HG22	1.83	0.43
10:EJ:38:ILE:HD11	10:EJ:72:VAL:H	1.83	0.43
10:EJ:5:ARG:H	10:EJ:100:THR:HA	1.83	0.43
10:EJ:7:LYS:O	10:EJ:8:LEU:HD23	2.19	0.43
11:EK:62:GLN:CA	11:EK:93:GLN:HB3	2.49	0.43
12:EL:55:VAL:HG12	12:EL:56:ALA:N	2.33	0.43
1:EA:238:G:P	17:EQ:38:ARG:NH2	2.90	0.43
19:ES:5:LEU:HD21	19:ES:9:VAL:HG22	2.01	0.43
50:F4:40:HIS:ND1	50:F4:41:GLN:N	2.66	0.43
22:FB:1174:G:O2'	22:FB:1175:A:H5'	2.18	0.43
22:FB:1245:G:H2'	22:FB:1246:G:C8	2.54	0.43
22:FB:114:C:O2	22:FB:124:A:N3	2.52	0.43
22:FB:1296:G:HO2'	22:FB:1297:A:H3'	1.83	0.43
22:FB:1619:A:N3	22:FB:1619:A:H2'	2.34	0.43
1:EA:1409:C:H5'	22:FB:1896:A:O2'	2.19	0.43
22:FB:2212:U:H2'	22:FB:2213:G:C8	2.54	0.43
22:FB:2419:C:H2'	22:FB:2420:C:H4'	2.01	0.43
22:FB:2523:G:H2'	22:FB:2524:G:O4'	2.18	0.43
22:FB:2592:U:H4'	22:FB:2593:A:OP1	2.18	0.43
22:FB:2598:C:O2	25:FE:154:LYS:HE3	2.16	0.43
22:FB:2602:G:OP1	22:FB:2800:C:O2'	2.37	0.43
22:FB:222:G:N2	22:FB:397:U:H1'	2.29	0.43
22:FB:717:G:H2'	22:FB:739:G:N2	2.23	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:FB:2284:U:N3	27:FG:40:LEU:HD13	2.33	0.43
27:FG:86:GLY:C	27:FG:87:ILE:HG13	2.34	0.43
28:FH:29:PRO:HG2	28:FH:78:GLY:O	2.18	0.43
34:FN:46:ASN:HA	34:FN:49:GLU:CB	2.49	0.43
22:FB:1985:G:C5'	35:FO:14:SER:OG	2.65	0.43
38:FR:111:ASP:HA	38:FR:114:ARG:CB	2.49	0.43
38:FR:61:TRP:CZ2	38:FR:97:ASP:HA	2.54	0.43
39:FS:32:LYS:HA	39:FS:63:HIS:O	2.18	0.43
22:FB:504:G:C2	40:FT:78:ASN:ND2	2.72	0.43
41:FU:15:LYS:HG3	41:FU:19:ALA:CB	2.47	0.43
43:FW:136:VAL:HA	43:FW:147:ILE:HD11	1.99	0.43
43:FW:71:MET:HG3	43:FW:72:ASP:H	1.84	0.43
43:FW:71:MET:O	43:FW:78:PRO:HA	2.19	0.43
44:FX:30:VAL:HG12	44:FX:66:LYS:CE	2.44	0.43
1:AA:192:U:C4	1:GA:190:A:O3'	2.71	0.43
1:GA:359:U:H2'	1:GA:360:A:O4'	2.18	0.43
1:GA:62:U:H4'	1:GA:378:G:N2	2.33	0.43
1:GA:202:G:H1'	1:GA:469:C:O2'	2.19	0.43
1:GA:652:U:H2'	1:GA:752:G:N1	2.34	0.43
2:GB:16:HIS:NE2	2:GB:214:ILE:HA	2.34	0.43
2:GB:90:MET:SD	2:GB:90:MET:N	2.91	0.43
1:GA:509:A:C4	4:GD:54:TYR:CE2	3.06	0.43
5:GE:102:ALA:CB	5:GE:120:THR:HB	2.49	0.43
12:GL:41:ARG:HH11	12:GL:41:ARG:HB3	1.82	0.43
12:GL:43:VAL:O	12:GL:45:PRO:HD3	2.19	0.43
17:GQ:26:GLN:HG2	17:GQ:38:ARG:H	1.84	0.43
17:GQ:48:GLU:OE2	17:GQ:50:LYS:HD2	2.18	0.43
1:GA:264:U:C2'	17:GQ:64:PRO:N	2.79	0.43
1:GA:187:G:OP1	20:GT:82:SER:HB2	2.18	0.43
22:HB:2328:G:C3'	51:H5:42:ARG:CD	2.80	0.43
22:HB:2329:C:P	51:H5:42:ARG:HD2	2.26	0.43
51:H5:57:ARG:HE	51:H5:57:ARG:HA	1.83	0.43
22:HB:1035:G:H21	22:HB:1155:G:C5'	2.32	0.43
22:HB:103:U:H2'	22:HB:104:C:O4'	2.19	0.43
22:HB:1141:U:H1'	22:HB:1142:G:C8	2.53	0.43
22:HB:1342:U:H5'	22:HB:1343:C:H5	1.84	0.43
22:HB:1374:G:O2'	47:H1:53:GLU:CG	2.47	0.43
22:HB:1541:G:H2'	22:HB:1542:G:C8	2.54	0.43
22:HB:165:G:H2'	22:HB:166:G:C5	2.54	0.43
22:HB:1829:C:C5'	22:HB:1911:A:O5'	2.67	0.43
22:HB:1925:C:H2'	22:HB:1926:U:C5	2.54	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:HB:1994:U:H5''	40:HT:120:ARG:CA	2.43	0.43
22:HB:2409:A:H5''	22:HB:2410:U:OP2	2.19	0.43
22:HB:2419:C:H2'	22:HB:2420:C:H4'	2.01	0.43
22:HB:2506:C:O2'	22:HB:2507:U:H5'	2.18	0.43
22:HB:487:G:C3'	22:HB:488:A:P	3.04	0.43
22:HB:927:C:H2'	22:HB:928:G:H8	1.84	0.43
22:HB:976:C:H2'	22:HB:977:G:C8	2.54	0.43
22:HB:988:G:H21	22:HB:1012:A:H1'	1.84	0.43
27:HG:108:LEU:HA	27:HG:114:PHE:CD2	2.47	0.43
28:HH:50:LEU:HD22	28:HH:50:LEU:N	2.33	0.43
22:HB:1090:C:C2	30:HJ:132:ARG:HD2	2.54	0.43
30:HJ:24:GLY:C	30:HJ:26:ALA:H	2.22	0.43
31:HK:147:ARG:HG2	31:HK:147:ARG:HH21	1.84	0.43
34:HN:74:PRO:HG3	34:HN:93:TYR:CE1	2.54	0.43
35:HO:5:LYS:N	35:HO:5:LYS:HE3	2.34	0.43
37:HQ:63:ARG:O	37:HQ:65:SER:N	2.52	0.43
37:HQ:72:SER:HB2	37:HQ:78:GLU:O	2.18	0.43
38:HR:28:ARG:CG	38:HR:34:ASN:HB3	2.48	0.43
38:HR:61:TRP:CZ2	38:HR:97:ASP:HA	2.54	0.43
22:HB:1006:C:H41	39:HS:11:GLN:NE2	2.16	0.43
39:HS:40:VAL:HG13	39:HS:51:ALA:CB	2.47	0.43
39:HS:80:TYR:HB3	39:HS:81:ARG:H	1.64	0.43
41:HU:17:TYR:H	41:HU:20:MET:CB	2.29	0.43
43:HW:116:VAL:HG11	43:HW:169:VAL:HG12	2.01	0.43
1:IA:1115:C:H5'	10:IJ:46:ARG:HH21	1.82	0.43
1:IA:400:C:H2'	1:IA:401:C:C6	2.53	0.43
1:IA:417:C:H2'	1:IA:418:C:O4'	2.17	0.43
1:IA:825:G:H2'	1:IA:826:C:O4'	2.18	0.43
1:IA:975:A:HO2'	14:IN:31:ARG:HB3	1.79	0.43
3:IC:116:VAL:O	3:IC:119:ARG:HB3	2.19	0.43
1:IA:1190:G:P	3:IC:4:LYS:H	2.35	0.43
3:IC:70:VAL:HG12	3:IC:71:ALA:N	2.33	0.43
4:ID:180:GLY:O	4:ID:182:LYS:HG3	2.18	0.43
1:IA:508:C:H4'	4:ID:54:TYR:CD1	2.53	0.43
6:IF:48:LEU:HD21	6:IF:60:PHE:CZ	2.54	0.43
6:IF:65:VAL:HB	6:IF:66:GLU:H	1.65	0.43
13:IM:19:LEU:O	13:IM:25:ILE:HD12	2.18	0.43
14:IN:23:ARG:HD3	14:IN:30:ALA:H	1.84	0.43
15:IO:36:ILE:HD11	15:IO:63:ARG:NH1	2.34	0.43
15:IO:57:LEU:HD12	15:IO:60:VAL:HG21	2.01	0.43
17:IQ:26:GLN:HG2	17:IQ:38:ARG:H	1.84	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:IT:56:MET:HE2	20:IT:103:GLY:O	2.18	0.43
22:JB:2261:G:O3'	49:J3:3:LYS:HG3	2.18	0.43
22:JB:1141:U:H1'	22:JB:1142:G:C8	2.53	0.43
22:JB:1141:U:H4'	22:JB:1142:G:O5'	2.19	0.43
22:JB:1148:G:C4'	31:JK:133:GLY:HA2	2.33	0.43
22:JB:1619:A:O2'	22:JB:1620:C:H5'	2.19	0.43
22:JB:1773:C:H2'	22:JB:1774:A:C8	2.53	0.43
22:JB:1781:C:H2'	22:JB:1782:A:C8	2.54	0.43
22:JB:1848:U:H2'	22:JB:1849:G:H5'	2.01	0.43
22:JB:1897:C:H2'	22:JB:1898:U:H5'	2.01	0.43
22:JB:1935:A:H2'	22:JB:1936:A:C8	2.54	0.43
22:JB:213:C:H2'	22:JB:214:C:N1	2.34	0.43
22:JB:2186:G:H4'	24:JD:151:LYS:HE2	1.99	0.43
22:JB:2252:A:H2'	22:JB:2253:A:O4'	2.19	0.43
22:JB:2432:A:H61	22:JB:2479:U:H3	1.67	0.43
22:JB:2556:A:H4'	22:JB:2591:C:N4	2.33	0.43
22:JB:2577:A:O3'	24:JD:228:PRO:CB	2.65	0.43
22:JB:2603:G:N3	22:JB:2604:G:H1'	2.33	0.43
22:JB:2709:C:H2'	22:JB:2710:C:C6	2.53	0.43
22:JB:2727:G:H1'	22:JB:2736:U:H5	1.82	0.43
22:JB:2785:A:H2'	22:JB:2786:G:C8	2.53	0.43
22:JB:81:C:OP1	22:JB:307:C:H5'	2.18	0.43
22:JB:3877:A:N7	22:JB:1862:C:C4	2.72	0.43
22:JB:387:A:H62	22:JB:413:G:C1'	2.31	0.43
22:JB:672:C:O2'	26:JF:94:THR:N	2.51	0.43
22:JB:73:A:C5'	45:JY:48:ARG:NE	2.79	0.43
22:JB:875:G:H2'	22:JB:876:A:H8	1.78	0.43
24:JD:170:SER:C	24:JD:172:TYR:N	2.71	0.43
24:JD:22:SER:HA	24:JD:206:LEU:HA	2.01	0.43
24:JD:23:GLY:O	24:JD:24:LEU:HG	2.18	0.43
27:JG:38:GLU:HA	27:JG:152:MET:HG2	2.01	0.43
27:JG:4:LEU:O	27:JG:8:TYR:HB3	2.19	0.43
27:JG:66:ILE:HG22	27:JG:66:ILE:O	2.18	0.43
27:JG:2:GLN:HB3	27:JG:6:THR:HG23	2.01	0.43
30:JJ:12:LEU:HD23	30:JJ:12:LEU:H	1.83	0.43
30:JJ:72:PRO:C	30:JJ:74:MET:N	2.72	0.43
31:JK:126:VAL:HG13	31:JK:127:ILE:N	2.34	0.43
31:JK:43:VAL:CG2	31:JK:166:LEU:H	2.32	0.43
32:JL:83:ARG:O	32:JL:84:ALA:HB3	2.19	0.43
39:JS:32:LYS:HA	39:JS:63:HIS:O	2.18	0.43
39:JS:62:GLU:OE2	39:JS:96:LEU:HD12	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:JB:528:G:C5'	40:JT:35:PRO:CB	2.95	0.43
22:JB:870:C:O4'	44:JX:24:LYS:HE2	2.19	0.43
45:JY:43:VAL:C	45:JY:45:GLN:H	2.20	0.43
1:AA:1051:C:H5	1:AA:1201:A:OP2	2.02	0.43
1:AA:147:G:O2'	1:AA:148:G:H5'	2.19	0.43
1:AA:326:G:H2'	1:AA:327:A:H5'	2.00	0.43
1:AA:331:G:N3	20:AT:8:ARG:N	2.67	0.43
1:AA:356:A:O2'	1:AA:357:G:H5'	2.19	0.43
1:AA:652:U:H2'	1:AA:752:G:N1	2.34	0.43
1:AA:80:C:H2'	1:AA:81:C:C6	2.53	0.43
2:AB:172:ILE:HG22	2:AB:176:GLU:CD	2.39	0.43
3:AC:120:VAL:O	3:AC:124:ILE:HG13	2.19	0.43
3:AC:70:VAL:HG12	3:AC:71:ALA:N	2.33	0.43
5:AE:76:ILE:HG23	5:AE:118:ILE:CD1	2.48	0.43
6:AF:48:LEU:HD21	6:AF:60:PHE:CZ	2.54	0.43
8:AH:83:ILE:O	8:AH:84:ARG:HB2	2.18	0.43
9:AI:105:ASP:HB3	9:AI:107:ARG:HG3	2.01	0.43
13:AM:19:LEU:O	13:AM:25:ILE:HD12	2.18	0.43
14:AN:8:GLU:O	14:AN:11:LYS:HB2	2.19	0.43
17:AQ:20:THR:HA	17:AQ:43:LEU:CD2	2.49	0.43
53:B7:34:LEU:N	53:B7:34:LEU:HD12	2.34	0.43
53:B7:63:ARG:HD2	53:B7:81:PRO:O	2.19	0.43
22:BB:1070:G:N3	30:BJ:127:VAL:HG22	2.34	0.43
22:BB:1139:A:N6	22:BB:2469:G:C5'	2.82	0.43
22:BB:1541:G:H2'	22:BB:1542:G:C8	2.54	0.43
22:BB:1613:G:OP1	22:BB:1614:C:OP1	2.36	0.43
22:BB:213:C:H2'	22:BB:214:C:N1	2.34	0.43
22:BB:2380:U:H2'	22:BB:2382:C:H5	1.83	0.43
22:BB:2444:C:O3'	52:B6:3:VAL:HG21	2.19	0.43
22:BB:2464:G:H4'	34:BN:123:GLY:H	1.84	0.43
22:BB:2481:G:H5''	22:BB:2482:A:C5'	2.49	0.43
22:BB:2542:U:H1'	22:BB:2545:A:N1	2.34	0.43
22:BB:2717:G:C6	22:BB:2748:C:N4	2.87	0.43
22:BB:2825:A:C2	35:BO:61:HIS:HD2	2.18	0.43
22:BB:584:A:H2'	22:BB:585:U:C6	2.54	0.43
22:BB:628:A:H2'	22:BB:629:C:H5'	2.00	0.43
22:BB:217:U:H5'	22:BB:633:G:O2'	2.18	0.43
22:BB:658:G:H5''	22:BB:2331:A:C5'	2.49	0.43
22:BB:910:U:C6	22:BB:911:A:C8	3.06	0.43
24:BD:11:PRO:HD2	24:BD:24:LEU:N	2.34	0.43
22:BB:742:G:C1'	24:BD:18:THR:CB	2.97	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:BB:1581:C:P	24:BD:25:THR:HG1	2.41	0.43
24:BD:43:ARG:NH1	24:BD:60:ARG:HD2	2.34	0.43
25:BE:111:LYS:CE	25:BE:160:MET:HB3	2.48	0.43
25:BE:1:MET:C	25:BE:2:LYS:HD3	2.39	0.43
26:BF:116:LYS:HD2	26:BF:116:LYS:O	2.19	0.43
26:BF:56:ARG:O	26:BF:57:LYS:HB2	2.18	0.43
26:BF:62:LYS:HB3	26:BF:62:LYS:NZ	2.34	0.43
27:BG:2:GLN:HB3	27:BG:6:THR:HG23	2.01	0.43
30:BJ:39:LYS:HZ2	30:BJ:39:LYS:HB3	1.84	0.43
31:BK:122:HIS:HB2	31:BK:123:PRO:CD	2.49	0.43
31:BK:126:VAL:HG13	31:BK:127:ILE:N	2.34	0.43
34:BN:44:LYS:HA	34:BN:94:TRP:NE1	2.34	0.43
35:BO:5:LYS:HE3	35:BO:5:LYS:N	2.34	0.43
38:BR:93:LYS:C	38:BR:95:LEU:N	2.71	0.43
39:BS:10:LYS:HD3	39:BS:12:TYR:HD2	1.83	0.43
39:BS:40:VAL:HG13	39:BS:51:ALA:CB	2.47	0.43
41:BU:15:LYS:O	41:BU:19:ALA:HB3	2.19	0.43
43:BW:25:ASN:N	43:BW:25:ASN:HD22	2.17	0.43
22:BB:2236:U:P	44:BX:4:LYS:HD3	2.59	0.43
1:CA:1224:G:O2'	13:CM:102:ARG:CA	2.67	0.43
1:CA:1388:C:O2'	1:CA:1389:C:H5'	2.19	0.43
1:CA:1391:U:H2'	1:CA:1392:G:C8	2.54	0.43
1:CA:1433:A:H1'	37:DQ:116:ARG:HE	1.83	0.43
1:CA:356:A:O2'	1:CA:357:G:H5'	2.19	0.43
1:CA:448:A:H2'	1:CA:449:C:H5'	2.00	0.43
1:CA:588:G:H5''	8:CH:5:PRO:CG	2.49	0.43
1:CA:673:G:H5''	6:CF:87:ARG:CZ	2.47	0.43
1:CA:652:U:H2'	1:CA:752:G:N1	2.34	0.43
2:CB:149:LEU:HD23	2:CB:153:ARG:HA	2.01	0.43
2:CB:115:LEU:HG	2:CB:153:ARG:HH21	1.83	0.43
3:CC:116:VAL:O	3:CC:119:ARG:HB3	2.19	0.43
3:CC:3:ASN:HD22	3:CC:3:ASN:N	2.15	0.43
1:CA:545:C:H5''	4:CD:72:GLU:OE2	2.17	0.43
5:CE:104:ALA:HA	5:CE:107:ARG:NH1	2.33	0.43
8:CH:64:LYS:NZ	8:CH:79:VAL:HG21	2.34	0.43
9:CI:17:VAL:O	9:CI:19:LEU:HD23	2.19	0.43
10:CJ:83:GLU:HA	10:CJ:86:MET:SD	2.58	0.43
13:CM:65:LYS:HD2	13:CM:69:GLU:HG2	2.01	0.43
14:CN:23:ARG:HD3	14:CN:30:ALA:H	1.84	0.43
1:CA:994:A:H2	14:CN:5:ALA:CB	2.31	0.43
16:CP:39:TYR:CD2	16:CP:41:PRO:HG3	2.53	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:CP:45:THR:HB	16:CP:46:PRO:HD2	2.00	0.43
19:CS:35:SER:H	19:CS:51:VAL:CG1	2.32	0.43
19:CS:49:ILE:HB	19:CS:60:VAL:CB	2.46	0.43
20:CT:19:SER:HB3	20:CT:22:ARG:HH21	1.84	0.43
22:DB:16:G:H5''	48:D2:17:ASP:HB3	2.01	0.43
51:D5:30:ARG:HB2	51:D5:31:HIS:H	1.64	0.43
52:D6:23:VAL:H	52:D6:36:GLN:HE22	1.67	0.43
53:D7:176:PRO:C	53:D7:178:ASP:H	2.22	0.43
53:D7:33:ILE:HD12	53:D7:206:LYS:CE	2.49	0.43
23:DA:71:G:H2'	23:DA:71:G:N3	2.34	0.43
22:DB:1087:C:H2'	22:DB:1088:A:C8	2.54	0.43
22:DB:1541:G:H2'	22:DB:1542:G:C8	2.54	0.43
22:DB:1702:C:H2'	22:DB:1703:C:C6	2.54	0.43
22:DB:1717:A:H3'	22:DB:1718:A:H8	1.82	0.43
22:DB:1885:C:H5''	22:DB:1954:A:N1	2.33	0.43
22:DB:1992:G:H1'	35:DO:105:GLY:C	2.40	0.43
22:DB:1992:G:H1'	35:DO:105:GLY:HA3	1.98	0.43
22:DB:2224:U:C3'	22:DB:2225:G:H5'	2.46	0.43
22:DB:2241:U:C6	22:DB:2306:A:H2	2.37	0.43
22:DB:2542:U:H1'	22:DB:2545:A:N1	2.33	0.43
22:DB:2546:G:H2'	22:DB:2547:C:C6	2.54	0.43
22:DB:2573:C:H2'	22:DB:2574:G:H8	1.82	0.43
22:DB:2613:A:H1'	25:DE:77:ILE:HD11	1.72	0.43
22:DB:475:U:H5'	50:D4:4:THR:HG23	2.01	0.43
22:DB:504:G:O2'	40:DT:26:ALA:HA	2.18	0.43
22:DB:720:A:N6	22:DB:738:G:C1'	2.81	0.43
22:DB:876:A:H1'	23:DA:102:A:C2	2.54	0.43
22:DB:907:U:H2'	22:DB:909:C:C6	2.54	0.43
22:DB:917:U:C2	43:DW:166:LEU:HD13	2.40	0.43
22:DB:988:G:H21	22:DB:1012:A:H1'	1.84	0.43
22:DB:991:A:H61	22:DB:2020:G:H21	1.66	0.43
26:DF:15:ILE:CG2	26:DF:16:GLU:N	2.79	0.43
27:DG:63:GLN:HB3	27:DG:63:GLN:HE21	1.58	0.43
29:DI:4:ILE:HG22	29:DI:5:LEU:H	1.84	0.43
33:DM:139:ARG:NH1	33:DM:141:VAL:HG21	2.34	0.43
34:DN:35:LEU:HD22	34:DN:102:ARG:HD3	2.00	0.43
34:DN:50:ALA:HA	34:DN:53:ILE:HD11	2.01	0.43
35:DO:13:ASN:H	35:DO:13:ASN:ND2	2.17	0.43
22:DB:2795:A:OP1	35:DO:5:LYS:HD2	2.19	0.43
38:DR:42:ALA:C	39:DS:75:LYS:HD2	2.30	0.43
43:DW:17:SER:HA	43:DW:36:ARG:HH22	1.84	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:DW:41:ARG:HH11	43:DW:44:ARG:HE	1.66	0.43
43:DW:69:VAL:HG12	43:DW:70:GLN:N	2.34	0.43
43:DW:71:MET:O	43:DW:78:PRO:HA	2.19	0.43
45:DY:36:GLN:HG3	45:DY:37:LEU:N	2.33	0.43
1:EA:111:G:H5'	16:EP:27:LYS:HA	2.01	0.43
1:EA:1324:A:H1'	1:EA:1362:C:P	2.59	0.43
1:EA:147:G:O2'	1:EA:148:G:H5'	2.19	0.43
2:EB:115:LEU:HG	2:EB:153:ARG:HH21	1.84	0.43
2:EB:213:LEU:HA	2:EB:216:SER:OG	2.18	0.43
2:EB:77:ALA:O	2:EB:81:VAL:HG23	2.18	0.43
3:EC:116:VAL:O	3:EC:119:ARG:HB3	2.19	0.43
3:EC:70:VAL:HG12	3:EC:71:ALA:N	2.33	0.43
4:ED:168:ARG:N	4:ED:168:ARG:HE	2.16	0.43
4:ED:10:ARG:NH2	4:ED:66:ARG:NH1	2.66	0.43
1:EA:642:A:C1'	8:EH:113:SER:HA	2.48	0.43
1:EA:877:C:H5'	8:EH:84:ARG:HG3	2.00	0.43
11:EK:48:ILE:HG22	11:EK:49:GLY:N	2.33	0.43
12:EL:53:ARG:HG3	12:EL:69:TYR:HE1	1.84	0.43
18:ER:63:GLN:HA	18:ER:66:LEU:CB	2.45	0.43
47:F1:10:VAL:N	47:F1:11:PRO:CD	2.80	0.43
49:F3:47:HIS:O	49:F3:48:VAL:HG12	2.18	0.43
22:FB:3104:C:H5''	53:F7:204:TYR:OH	2.18	0.43
53:F7:77:LYS:HE2	53:F7:84:VAL:HB	2.01	0.43
22:FB:1087:C:H2'	22:FB:1088:A:C8	2.54	0.43
22:FB:1141:U:H1'	22:FB:1142:G:C8	2.53	0.43
22:FB:1495:G:H4'	22:FB:1577:G:H5''	2.01	0.43
22:FB:1807:A:N3	22:FB:1808:C:H1'	2.34	0.43
22:FB:1823:G:N2	22:FB:1958:G:H1'	2.33	0.43
22:FB:1873:A:H3'	22:FB:1874:G:H8	1.83	0.43
22:FB:1912:G:O3'	22:FB:1913:G:O5'	2.37	0.43
22:FB:2010:G:H2'	22:FB:2011:U:C6	2.53	0.43
22:FB:2222:U:H2'	22:FB:2223:U:C6	2.53	0.43
22:FB:2261:G:C6	22:FB:2404:A:C4	3.07	0.43
22:FB:2601:C:OP1	25:FE:159:HIS:ND1	2.49	0.43
22:FB:1750:A:C5'	22:FB:2695:C:H4'	2.47	0.43
22:FB:2711:G:H5''	22:FB:2712:G:OP1	2.19	0.43
22:FB:2616:U:N3	22:FB:2756:A:N7	2.67	0.43
22:FB:2785:A:H2'	22:FB:2786:G:C8	2.53	0.43
22:FB:614:G:H4'	22:FB:669:G:H21	1.84	0.43
22:FB:58:C:C1'	22:FB:72:A:C2	3.02	0.43
22:FB:980:G:H5'	46:FZ:13:PRO:C	2.31	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:FB:1812:U:OP1	24:FD:160:GLY:HA3	2.19	0.43
26:FF:116:LYS:H	26:FF:116:LYS:HE3	1.83	0.43
22:FB:2283:G:C2'	27:FG:153:ASP:OD1	2.66	0.43
27:FG:69:LYS:HZ1	27:FG:72:LYS:CA	2.32	0.43
29:FI:4:ILE:HG22	29:FI:5:LEU:H	1.84	0.43
31:FK:122:HIS:HB2	31:FK:123:PRO:CD	2.49	0.43
33:FM:122:VAL:HG22	33:FM:124:ALA:N	2.33	0.43
34:FN:107:VAL:HG22	43:FW:112:LEU:HG	2.01	0.43
23:FA:92:G:C2	34:FN:22:ALA:HA	2.52	0.43
34:FN:50:ALA:HA	34:FN:53:ILE:HD11	2.00	0.43
34:FN:74:PRO:HG3	34:FN:93:TYR:CE1	2.53	0.43
34:FN:38:MET:HA	34:FN:99:LYS:CD	2.48	0.43
37:FQ:100:ARG:N	37:FQ:100:ARG:HD3	2.33	0.43
37:FQ:63:ARG:O	37:FQ:65:SER:N	2.52	0.43
40:FT:109:ARG:HB2	40:FT:115:ASN:ND2	2.34	0.43
22:FB:504:G:P	40:FT:29:LYS:NZ	2.92	0.43
41:FU:54:SER:CB	41:FU:79:ILE:HB	2.49	0.43
43:FW:141:MET:HB2	43:FW:171:VAL:HG13	2.00	0.43
43:FW:18:MET:N	43:FW:18:MET:SD	2.92	0.43
43:FW:19:ILE:HG23	43:FW:20:ALA:N	2.24	0.43
43:FW:43:PHE:HB2	43:FW:69:VAL:CG2	2.49	0.43
44:FX:45:PHE:H	44:FX:76:ALA:N	2.16	0.43
46:FZ:2:LYS:O	46:FZ:54:GLN:HB2	2.18	0.43
1:GA:1283:G:H2'	1:GA:1284:C:O4'	2.19	0.43
1:GA:1316:G:N3	1:GA:1318:A:H8	2.17	0.43
1:GA:1333:A:C2	1:GA:1334:G:H1'	2.54	0.43
1:GA:1395:C:C5'	1:GA:1401:G:H21	2.26	0.43
1:GA:251:G:C3'	17:GQ:67:LYS:HZ2	2.31	0.43
1:GA:276:G:OP1	17:GQ:20:THR:CG2	2.67	0.43
1:GA:329:A:O3'	1:GA:330:C:H4'	2.19	0.43
1:GA:633:G:H2'	1:GA:634:C:O4'	2.18	0.43
1:GA:713:G:H2'	1:GA:714:G:C4	2.53	0.43
1:GA:815:A:C2	1:GA:1527:C:O2'	2.66	0.43
2:GB:41:ILE:HG22	2:GB:42:ILE:N	2.34	0.43
1:GA:16:A:H1'	5:GE:17:ALA:H	0.79	0.43
1:GA:922:G:H4'	5:GE:20:GLN:HG2	2.01	0.43
8:GH:18:ARG:NH2	8:GH:83:ILE:HG22	2.31	0.43
9:GI:17:VAL:O	9:GI:19:LEU:HD23	2.19	0.43
11:GK:23:ALA:HB3	11:GK:86:GLY:C	2.39	0.43
1:GA:273:A:O2'	17:GQ:15:MET:HG2	2.19	0.43
22:HB:2030:U:H5'	48:H2:19:ARG:HH21	1.83	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
49:H3:43:VAL:HG23	49:H3:44:ALA:N	2.30	0.43
50:H4:41:GLN:H	50:H4:41:GLN:CD	2.23	0.43
53:H7:55:PRO:HD2	53:H7:182:ASN:ND2	2.34	0.43
53:H7:63:ARG:HD2	53:H7:81:PRO:O	2.19	0.43
22:HB:1292:A:H2'	22:HB:1293:A:O4'	2.18	0.43
22:HB:1401:G:C6	22:HB:1413:U:C4	3.07	0.43
22:HB:1573:G:H3'	22:HB:1574:A:O4'	2.19	0.43
22:HB:1773:C:H2'	22:HB:1774:A:C8	2.53	0.43
22:HB:2276:C:H42	22:HB:2299:A:C1'	2.21	0.43
22:HB:2339:A:OP1	51:H5:49:VAL:HG22	2.18	0.43
22:HB:2466:G:H2'	22:HB:2467:A:H8	1.83	0.43
22:HB:2470:U:H3	22:HB:2548:G:H4'	1.84	0.43
22:HB:2616:U:N3	22:HB:2756:A:N7	2.67	0.43
22:HB:2760:G:C8	31:HK:145:HIS:O	2.72	0.43
22:HB:2785:A:H2'	22:HB:2786:G:C8	2.53	0.43
22:HB:2823:G:O2'	22:HB:2824:C:H5'	2.19	0.43
22:HB:2861:A:H2'	48:H2:31:THR:HG22	2.01	0.43
22:HB:3126:A:H5'	53:H7:26:PHE:CZ	2.53	0.43
22:HB:387:A:H62	22:HB:413:G:C1'	2.32	0.43
22:HB:533:C:H4'	22:HB:550:C:H1'	2.01	0.43
22:HB:609:U:H2'	22:HB:610:G:H8	1.83	0.43
22:HB:69:G:OP1	22:HB:110:U:C4	2.71	0.43
22:HB:821:A:H2'	22:HB:822:G:O4'	2.18	0.43
22:HB:891:A:O4'	22:HB:893:G:C8	2.72	0.43
24:HD:43:ARG:HG3	24:HD:60:ARG:HB2	2.00	0.43
24:HD:68:LYS:HZ2	24:HD:190:TYR:HE2	1.67	0.43
25:HE:24:THR:HG22	25:HE:25:VAL:H	1.83	0.43
26:HF:163:ASN:CB	26:HF:166:TRP:HB2	2.48	0.43
27:HG:111:ILE:HA	27:HG:135:GLN:OE1	2.19	0.43
27:HG:4:LEU:O	27:HG:8:TYR:HB3	2.19	0.43
27:HG:77:PHE:O	27:HG:78:LYS:HE3	2.19	0.43
28:HH:125:VAL:N	28:HH:126:PRO:HD2	2.34	0.43
22:HB:1148:G:C4'	31:HK:134:MET:SD	3.07	0.43
34:HN:72:ASP:C	34:HN:73:LYS:HG2	2.38	0.43
35:HO:97:ILE:H	35:HO:97:ILE:HD12	1.82	0.43
32:HL:91:PHE:N	37:HQ:79:ARG:HD3	2.34	0.43
22:HB:1336:G:C5'	40:HT:103:LEU:HB3	2.45	0.43
40:HT:109:ARG:HB2	40:HT:115:ASN:ND2	2.34	0.43
43:HW:111:GLY:HA3	43:HW:173:PRO:HB3	2.00	0.43
43:HW:143:ILE:HD13	43:HW:144:GLY:N	2.34	0.43
1:IA:1128:C:C4'	1:IA:1146:A:H61	2.31	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:IA:1392:G:OP1	1:IA:1531:A:OP1	2.27	0.43
1:IA:16:A:O2'	1:IA:17:U:H5'	2.19	0.43
1:IA:323:U:C2'	20:IT:15:ARG:HH12	2.11	0.43
1:IA:62:U:H4'	1:IA:378:G:N2	2.33	0.43
1:IA:560:U:HO2'	1:IA:561:U:P	2.41	0.43
1:IA:641:U:C1'	8:IH:116:LYS:HG2	2.20	0.43
1:IA:688:G:H4'	11:IK:42:TRP:CH2	2.53	0.43
1:IA:718:G:C5	18:IR:81:PHE:HE2	2.14	0.43
1:IA:768:A:OP1	1:IA:804:U:H5''	2.19	0.43
3:IC:5:ILE:HB	3:IC:6:HIS:H	1.67	0.43
1:IA:8:A:H2'	4:ID:209:ARG:NH1	2.32	0.43
6:IF:97:PHE:HZ	18:IR:62:GLU:OE2	1.98	0.43
1:IA:878:G:OP1	8:IH:88:LYS:HB2	2.19	0.43
10:IJ:38:ILE:HG13	10:IJ:38:ILE:O	2.19	0.43
11:IK:34:ASP:HB2	11:IK:35:PRO:CD	2.48	0.43
1:IA:911:U:H5''	12:IL:94:PRO:HG2	2.00	0.43
16:IP:8:ARG:NH2	16:IP:15:PRO:HB3	2.31	0.43
1:IA:277:C:N4	17:IQ:96:GLN:HG2	2.34	0.43
47:J1:31:ILE:CG2	47:J1:32:HIS:H	2.23	0.43
22:JB:1378:A:H5''	47:J1:4:ASP:OD2	2.18	0.43
22:JB:465:C:N3	50:J4:39:ARG:CD	2.81	0.43
53:J7:128:LEU:CD1	53:J7:133:LYS:HD2	2.49	0.43
22:JB:1293:A:N1	22:JB:1303:U:N3	2.64	0.43
22:JB:1342:U:H5'	22:JB:1343:C:H5	1.84	0.43
22:JB:1424:U:H2'	22:JB:1425:G:C8	2.54	0.43
22:JB:1541:G:H2'	22:JB:1542:G:C8	2.54	0.43
22:JB:1573:G:H3'	22:JB:1574:A:O4'	2.19	0.43
22:JB:1817:U:OP1	24:JD:247:VAL:CG2	2.54	0.43
22:JB:1925:C:H2'	22:JB:1926:U:C5	2.54	0.43
22:JB:1995:G:H5''	40:JT:117:ILE:HD12	2.00	0.43
22:JB:2260:C:O2'	22:JB:2368:G:H1'	2.19	0.43
22:JB:2263:C:P	49:J3:28:ARG:HD3	2.59	0.43
22:JB:2506:C:O2'	22:JB:2507:U:H5'	2.18	0.43
22:JB:2570:C:C5	24:JD:237:GLU:C	2.92	0.43
22:JB:2616:U:N3	22:JB:2756:A:N7	2.67	0.43
22:JB:2711:G:H5''	22:JB:2712:G:OP1	2.19	0.43
22:JB:2786:G:C5'	25:JE:59:VAL:CG1	2.97	0.43
22:JB:573:C:H5'	38:JR:40:LEU:HB3	1.98	0.43
22:JB:686:C:H42	22:JB:821:A:H61	1.63	0.43
22:JB:821:A:H2'	22:JB:822:G:O4'	2.18	0.43
22:JB:839:U:C5'	22:JB:2407:G:C2'	2.96	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:JD:213:ARG:O	24:JD:219:PRO:HD3	2.19	0.43
22:JB:1820:G:C5	24:JD:221:GLN:HG2	2.51	0.43
25:JE:33:ILE:HB	25:JE:49:ILE:HG21	2.00	0.43
26:JF:163:ASN:CB	26:JF:166:TRP:HB2	2.49	0.43
26:JF:78:VAL:HG13	26:JF:78:VAL:O	2.19	0.43
27:JG:77:PHE:O	27:JG:78:LYS:HE3	2.18	0.43
31:JK:139:ARG:NH1	31:JK:142:ARG:HD2	2.33	0.43
31:JK:44:VAL:HG12	31:JK:45:ASP:N	2.34	0.43
33:JM:139:ARG:NH1	33:JM:141:VAL:HG21	2.34	0.43
33:JM:65:PHE:HB3	33:JM:66:ASN:H	1.65	0.43
35:JO:112:LEU:HD22	35:JO:113:ILE:C	2.39	0.43
35:JO:5:LYS:HE3	35:JO:5:LYS:N	2.34	0.43
37:JQ:40:ARG:HG2	37:JQ:90:GLN:HA	2.00	0.43
41:JU:11:VAL:CG1	41:JU:26:SER:HB2	2.45	0.43
43:JW:45:GLN:O	43:JW:46:GLN:HB2	2.18	0.43
22:JB:869:C:P	44:JX:57:HIS:CB	3.07	0.43
46:JZ:2:LYS:O	46:JZ:54:GLN:HB2	2.18	0.43
46:JZ:4:LYS:NZ	46:JZ:31:SER:H	2.16	0.43
1:AA:1062:U:H2'	1:AA:1063:C:C5	2.54	0.43
1:AA:1103:C:OP1	2:AB:98:LEU:HD11	2.18	0.43
1:AA:1256:A:N6	3:AC:26:LYS:HZ2	2.11	0.43
1:AA:1260:C:H4'	1:AA:1284:C:C5'	2.48	0.43
1:AA:1358:U:O2'	1:AA:1359:C:H5'	2.19	0.43
1:AA:616:G:H1	1:AA:624:C:H42	1.67	0.43
1:AA:875:C:H1'	8:AH:11:THR:CG2	2.45	0.43
1:AA:948:C:P	13:AM:108:ARG:CG	3.07	0.43
2:AB:104:ASN:HB3	2:AB:108:ILE:HD12	2.01	0.43
2:AB:41:ILE:HG22	2:AB:42:ILE:N	2.34	0.43
3:AC:152:ILE:O	3:AC:199:LYS:HB2	2.19	0.43
1:AA:864:A:P	5:AE:86:ALA:HB2	2.51	0.43
6:AF:49:ALA:N	18:AR:77:GLY:O	2.52	0.43
10:AJ:5:ARG:H	10:AJ:100:THR:HA	1.83	0.43
12:AL:53:ARG:HG3	12:AL:69:TYR:HE1	1.84	0.43
13:AM:65:LYS:HD2	13:AM:69:GLU:HG2	2.01	0.43
13:AM:71:ARG:HA	13:AM:74:VAL:HG23	1.99	0.43
53:B7:55:PRO:HD2	53:B7:182:ASN:ND2	2.34	0.43
22:BB:3124:G:H21	53:B7:209:MSE:SE	2.52	0.43
22:BB:874:A:C2	23:BA:81:C:H4'	2.53	0.43
23:BA:9:G:H1'	23:BA:117:G:N2	2.34	0.43
22:BB:1087:C:H2'	22:BB:1088:A:C8	2.54	0.43
22:BB:1204:G:OP1	33:BM:35:LYS:HG2	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:BB:321:A:N1	22:BB:1223:G:C2	2.87	0.43
22:BB:1226:A:N6	22:BB:1249:G:H21	2.16	0.43
22:BB:1400:A:N1	22:BB:1413:U:C4	2.87	0.43
22:BB:1696:C:H2'	22:BB:1697:U:O4'	2.19	0.43
22:BB:1710:U:H5''	22:BB:1711:C:OP2	2.19	0.43
22:BB:1784:C:O2'	22:BB:1785:A:H5'	2.19	0.43
22:BB:1911:A:H3'	22:BB:1912:G:C8	2.53	0.43
22:BB:1992:G:H5''	40:BT:62:ARG:NE	2.33	0.43
22:BB:2224:U:C3'	22:BB:2225:G:H5'	2.46	0.43
22:BB:2309:G:C4'	44:BX:71:ASN:ND2	2.82	0.43
22:BB:425:A:N6	22:BB:2391:A:O4'	2.52	0.43
22:BB:2409:A:H5''	22:BB:2410:U:OP2	2.19	0.43
22:BB:2592:U:H4'	22:BB:2593:A:OP1	2.18	0.43
22:BB:2694:G:H2'	22:BB:2695:C:C6	2.54	0.43
22:BB:2663:U:H3	22:BB:2707:G:H1'	1.84	0.43
22:BB:2505:G:C5'	22:BB:2722:C:C5'	2.96	0.43
22:BB:2616:U:N3	22:BB:2756:A:N7	2.67	0.43
22:BB:81:C:C5'	22:BB:307:C:H5'	2.49	0.43
22:BB:639:G:H2'	22:BB:640:C:C6	2.54	0.43
22:BB:817:A:P	33:BM:45:LYS:CE	3.07	0.43
25:BE:33:ILE:HB	25:BE:49:ILE:HG21	2.00	0.43
26:BF:163:ASN:CB	26:BF:166:TRP:HB2	2.49	0.43
27:BG:8:TYR:O	27:BG:13:ARG:HB2	2.19	0.43
22:BB:817:A:P	33:BM:45:LYS:HE2	2.58	0.43
22:BB:2372:A:N3	33:BM:59:ARG:HG2	2.34	0.43
34:BN:99:LYS:CG	43:BW:73:LYS:HZ1	2.32	0.43
37:BQ:7:ILE:HG22	37:BQ:9:ARG:HG3	2.01	0.43
38:BR:93:LYS:O	38:BR:94:VAL:HB	2.19	0.43
41:BU:42:ILE:HD12	41:BU:42:ILE:N	2.33	0.43
43:BW:116:VAL:HG11	43:BW:169:VAL:HG12	2.01	0.43
43:BW:71:MET:O	43:BW:78:PRO:HA	2.19	0.43
22:BB:2236:U:H3'	44:BX:4:LYS:HZ2	1.84	0.43
41:BU:46:PHE:CB	45:BY:23:LYS:NZ	2.72	0.43
41:BU:9:ALA:H	45:BY:26:MET:HG2	1.83	0.43
45:BY:36:GLN:HG3	45:BY:37:LEU:N	2.34	0.43
1:CA:1114:C:H2'	1:CA:1115:C:C6	2.54	0.43
1:CA:1225:A:H5'	13:CM:104:ARG:H	1.59	0.43
1:CA:1305:G:H21	1:CA:1331:G:H2'	1.83	0.43
1:CA:1358:U:O2'	1:CA:1359:C:H5'	2.19	0.43
1:CA:147:G:O2'	1:CA:148:G:H5'	2.19	0.43
1:CA:326:G:H2'	1:CA:327:A:H5'	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:409:G:H2'	1:CA:410:G:O4'	2.19	0.43
1:CA:636:U:H2'	1:CA:637:G:O4'	2.19	0.43
1:CA:775:G:H2'	1:CA:776:G:C8	2.54	0.43
3:CC:120:VAL:O	3:CC:124:ILE:HG13	2.19	0.43
3:CC:12:LEU:HD23	3:CC:16:ARG:HG3	2.00	0.43
3:CC:152:ILE:O	3:CC:199:LYS:HB2	2.19	0.43
4:CD:126:ILE:CG2	4:CD:127:THR:H	2.25	0.43
4:CD:13:ARG:HB3	4:CD:39:PRO:HA	2.01	0.43
6:CF:79:LEU:O	6:CF:85:VAL:HB	2.19	0.43
7:CG:103:TRP:CZ2	7:CG:138:LYS:HA	2.54	0.43
9:CI:78:LYS:O	9:CI:102:LEU:HB3	2.19	0.43
3:CC:23:TYR:CZ	10:CJ:10:GLY:N	2.87	0.43
10:CJ:17:ASP:O	10:CJ:20:ALA:HB3	2.19	0.43
12:CL:39:VAL:CG1	12:CL:41:ARG:HB2	2.48	0.43
1:CA:1228:C:C5'	13:CM:117:VAL:C	2.87	0.43
18:CR:39:VAL:HG23	18:CR:43:PHE:CD1	2.54	0.43
18:CR:45:SER:C	18:CR:47:THR:H	2.22	0.43
47:D1:11:PRO:O	47:D1:12:CYS:HB2	2.19	0.43
49:D3:43:VAL:HG23	49:D3:44:ALA:N	2.30	0.43
53:D7:155:VAL:HG11	53:D7:169:ILE:CA	2.49	0.43
53:D7:77:LYS:NZ	53:D7:84:VAL:HB	2.33	0.43
22:DB:1018:C:O2'	31:DK:135:LEU:N	2.52	0.43
22:DB:1383:C:H5'	24:DD:48:ARG:CG	2.46	0.43
22:DB:1377:G:H4'	22:DB:1800:A:C8	2.54	0.43
22:DB:1888:C:O2'	22:DB:1912:G:O3'	2.36	0.43
22:DB:1917:C:H42	22:DB:1950:C:N4	2.17	0.43
22:DB:2033:C:H1'	25:DE:156:MET:SD	2.59	0.43
22:DB:221:A:OP2	51:D5:7:HIS:NE2	2.44	0.43
22:DB:2481:G:H5''	22:DB:2482:A:C5'	2.49	0.43
22:DB:2520:A:HO2'	22:DB:2745:A:H2	1.66	0.43
22:DB:2616:U:N3	22:DB:2756:A:N7	2.67	0.43
22:DB:507:A:H2'	22:DB:508:G:H8	1.83	0.43
22:DB:586:G:H2'	22:DB:587:A:C8	2.53	0.43
22:DB:627:A:H2'	22:DB:628:A:C8	2.53	0.43
22:DB:61:U:O2	22:DB:89:A:N1	2.52	0.43
24:DD:108:PRO:HB3	24:DD:195:ALA:H	1.84	0.43
27:DG:106:ILE:HG13	27:DG:107:GLY:H	1.83	0.43
27:DG:66:ILE:HG22	27:DG:66:ILE:O	2.19	0.43
22:DB:2725:C:C2	28:DH:139:GLN:HA	2.53	0.43
33:DM:59:ARG:O	33:DM:61:PRO:HD3	2.19	0.43
34:DN:105:PHE:CE1	34:DN:112:GLU:HA	2.54	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:DN:74:PRO:HG3	34:DN:93:TYR:CE1	2.54	0.43
34:DN:38:MET:HA	34:DN:99:LYS:HD2	2.00	0.43
35:DO:22:ARG:HH11	35:DO:22:ARG:HG3	1.84	0.43
41:DU:43:GLN:OE1	41:DU:49:ARG:HA	2.19	0.43
41:DU:65:VAL:HG21	41:DU:67:ARG:NH2	2.29	0.43
43:DW:143:ILE:HD13	43:DW:144:GLY:N	2.33	0.43
43:DW:136:VAL:HA	43:DW:147:ILE:HD11	1.99	0.43
43:DW:18:MET:SD	43:DW:18:MET:N	2.91	0.43
44:DX:46:LYS:C	44:DX:46:LYS:HZ3	2.21	0.43
1:EA:1110:A:H3'	1:EA:1111:A:C8	2.54	0.43
1:EA:1351:U:O4'	7:EG:33:ASP:OD1	2.37	0.43
1:EA:1394:A:H8	1:EA:1501:C:HO2'	1.59	0.43
1:EA:421:U:H2'	1:EA:423:G:O6	2.19	0.43
1:EA:588:G:H3'	8:EH:5:PRO:HG2	1.65	0.43
1:EA:652:U:H2'	1:EA:752:G:N1	2.34	0.43
1:EA:837:G:H2'	1:EA:838:C:C6	2.53	0.43
1:EA:8:A:OP2	4:ED:209:ARG:HD2	2.19	0.43
1:EA:964:A:H2'	1:EA:965:A:C8	2.54	0.43
2:EB:178:ARG:HD3	2:EB:196:LEU:CB	2.48	0.43
2:EB:20:GLU:HG3	2:EB:190:THR:HB	2.00	0.43
4:ED:161:ASN:HD22	4:ED:161:ASN:N	2.16	0.43
1:EA:643:C:O2'	8:EH:132:GLU:CD	2.58	0.43
8:EH:45:ILE:HD12	8:EH:47:GLY:O	2.18	0.43
12:EL:58:VAL:HB	12:EL:66:VAL:CG2	2.42	0.43
13:EM:37:THR:CG2	13:EM:55:ARG:HE	2.31	0.43
20:ET:19:SER:HB3	20:ET:22:ARG:HH21	1.84	0.43
22:FB:394:U:H5''	47:F1:15:ILE:HD11	2.01	0.43
53:F7:93:LEU:HD13	53:F7:124:LEU:HD11	2.00	0.43
53:F7:155:VAL:HG11	53:F7:169:ILE:CA	2.49	0.43
22:FB:1288:A:C2	35:FO:19:ALA:O	2.72	0.43
22:FB:1541:G:H2'	22:FB:1542:G:C8	2.54	0.43
22:FB:1925:C:H2'	22:FB:1926:U:C5	2.54	0.43
22:FB:1948:C:H2'	22:FB:1949:A:C8	2.54	0.43
22:FB:1917:C:H42	22:FB:1950:C:N4	2.17	0.43
22:FB:2063:A:OP1	47:F1:20:VAL:HG21	2.19	0.43
22:FB:213:C:H2'	22:FB:214:C:N1	2.34	0.43
22:FB:2396:C:OP1	51:F5:44:LYS:CD	2.60	0.43
22:FB:2481:G:H5''	22:FB:2482:A:C5'	2.49	0.43
22:FB:2492:G:H2'	22:FB:2493:U:C6	2.54	0.43
22:FB:2542:U:H1'	22:FB:2545:A:N1	2.33	0.43
22:FB:2603:G:N3	22:FB:2604:G:H1'	2.33	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:FB:507:A:OP2	40:FT:20:LEU:CD2	2.67	0.43
22:FB:584:A:H2'	22:FB:585:U:C6	2.54	0.43
22:FB:940:G:N2	46:FZ:40:VAL:N	2.66	0.43
22:FB:984:A:H1'	22:FB:1201:G:H21	1.83	0.43
24:FD:55:GLY:H	24:FD:220:HIS:CE1	2.36	0.43
24:FD:11:PRO:HD2	24:FD:24:LEU:N	2.34	0.43
25:FE:40:GLN:C	25:FE:42:ASP:N	2.73	0.43
28:FH:125:VAL:N	28:FH:126:PRO:HD2	2.34	0.43
28:FH:29:PRO:HG2	28:FH:79:VAL:HA	2.00	0.43
32:FL:98:ILE:HG23	32:FL:98:ILE:O	2.19	0.43
22:FB:227:G:C5'	33:FM:55:ARG:HE	2.32	0.43
34:FN:69:ILE:HG21	34:FN:97:VAL:HG11	1.99	0.43
35:FO:112:LEU:HD22	35:FO:113:ILE:C	2.39	0.43
22:FB:2686:C:O4'	35:FO:64:ARG:HG3	2.18	0.43
35:FO:5:LYS:HB2	35:FO:6:ALA:H	1.60	0.43
35:FO:76:VAL:HG13	35:FO:77:ARG:N	2.32	0.43
36:FP:80:ALA:O	36:FP:84:ILE:HA	2.19	0.43
25:FE:19:ARG:CD	37:FQ:65:SER:HA	2.48	0.43
42:FV:51:VAL:HG11	42:FV:74:LEU:CD2	2.49	0.43
45:FY:57:LYS:O	45:FY:61:ALA:HB3	2.18	0.43
1:GA:1053:G:H4'	1:GA:1054:C:H5'	2.00	0.43
1:GA:1062:U:H2'	1:GA:1063:C:C5	2.54	0.43
1:GA:1226:C:H41	13:GM:104:ARG:NE	1.64	0.43
1:GA:1296:C:O2'	1:GA:1297:C:H5'	2.19	0.43
1:GA:1367:C:OP1	9:GI:115:GLY:HA3	2.19	0.43
1:GA:175:C:H4'	20:GT:25:ARG:HB3	1.99	0.43
1:GA:348:G:N2	1:GA:349:A:H62	2.17	0.43
1:GA:409:G:H2'	1:GA:410:G:O4'	2.19	0.43
1:GA:768:A:OP1	1:GA:804:U:H5''	2.19	0.43
1:GA:825:G:H2'	1:GA:826:C:O4'	2.18	0.43
1:GA:903:G:H2'	1:GA:904:C:C6	2.54	0.43
1:GA:888:G:H21	1:GA:909:A:H62	1.67	0.43
1:GA:22:G:H1'	1:GA:914:A:N6	2.34	0.43
2:GB:93:VAL:HA	2:GB:148:TYR:O	2.18	0.43
3:GC:152:ILE:O	3:GC:199:LYS:HB2	2.19	0.43
3:GC:83:ARG:HA	3:GC:86:VAL:HB	2.01	0.43
1:GA:15:G:H2'	5:GE:17:ALA:HB3	1.97	0.43
5:GE:94:ALA:HB3	5:GE:118:ILE:HA	2.00	0.43
6:GF:48:LEU:HD21	6:GF:60:PHE:CZ	2.54	0.43
7:GG:137:LYS:O	7:GG:141:VAL:HG23	2.19	0.43
8:GH:86:ILE:HB	8:GH:133:LEU:CD2	2.49	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:GN:24:CYS:N	14:GN:33:VAL:HG11	2.33	0.43
1:GA:895:G:H4'	17:GQ:100:LYS:HZ1	1.83	0.43
19:GS:35:SER:H	19:GS:51:VAL:CG1	2.32	0.43
19:GS:73:GLU:HG2	19:GS:74:PHE:CD1	2.54	0.43
47:H1:11:PRO:O	47:H1:12:CYS:HB2	2.19	0.43
47:H1:41:PRO:HB2	47:H1:57:ASP:C	2.39	0.43
48:H2:25:LEU:CD1	48:H2:27:ALA:H	2.32	0.43
49:H3:33:ALA:O	49:H3:34:LYS:HB2	2.19	0.43
51:H5:31:HIS:HB3	51:H5:32:GLN:H	1.62	0.43
53:H7:77:LYS:HE2	53:H7:84:VAL:HB	2.00	0.43
22:HB:1109:A:O3'	30:HJ:7:ILE:CD1	2.67	0.43
22:HB:1166:A:H2'	22:HB:1168:G:C8	2.54	0.43
22:HB:118:U:H4'	22:HB:120:G:OP1	2.18	0.43
22:HB:1256:C:O2'	33:HM:17:LYS:HD3	2.19	0.43
22:HB:1424:U:H2'	22:HB:1425:G:C8	2.54	0.43
22:HB:1619:A:O2'	22:HB:1620:C:H5'	2.19	0.43
22:HB:1781:C:H2'	22:HB:1782:A:C8	2.54	0.43
22:HB:2029:G:OP1	48:H2:15:LYS:HE2	2.15	0.43
22:HB:2284:U:N3	22:HB:2290:A:N6	2.67	0.43
22:HB:2422:C:O2'	22:HB:2423:G:H5'	2.19	0.43
22:HB:198:A:H2'	22:HB:244:C:N4	2.33	0.43
22:HB:511:A:O3'	40:HT:16:GLN:NE2	2.51	0.43
22:HB:576:A:H62	22:HB:584:A:H2	1.65	0.43
22:HB:603:C:C4	22:HB:604:U:O4	2.71	0.43
24:HD:124:GLU:HA	24:HD:125:PRO:HD3	1.89	0.43
24:HD:22:SER:HA	24:HD:206:LEU:HA	2.01	0.43
27:HG:45:GLU:HG2	27:HG:48:LYS:HB3	2.01	0.43
27:HG:78:LYS:HG3	27:HG:80:ARG:NH1	2.21	0.43
27:HG:35:VAL:CG1	27:HG:88:LYS:HA	2.49	0.43
31:HK:141:GLY:C	31:HK:143:ALA:H	2.22	0.43
32:HL:71:LYS:HE3	32:HL:101:ASN:CG	2.40	0.43
33:HM:63:ARG:CD	51:H5:8:LYS:HE2	2.49	0.43
34:HN:45:SER:C	34:HN:47:GLN:N	2.70	0.43
34:HN:50:ALA:HA	34:HN:53:ILE:HD11	2.01	0.43
34:HN:65:ILE:HB	43:HW:115:ILE:HD12	2.01	0.43
32:HL:119:ARG:NH1	37:HQ:43:ASN:HA	2.34	0.43
37:HQ:73:PHE:HB3	37:HQ:74:GLY:H	1.64	0.43
38:HR:51:ARG:NH2	38:HR:54:LYS:HE3	2.34	0.43
41:HU:15:LYS:O	41:HU:19:ALA:HB3	2.19	0.43
43:HW:10:PRO:O	43:HW:14:LEU:HD23	2.17	0.43
43:HW:16:GLU:HB3	43:HW:17:SER:H	1.63	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:HW:71:MET:HG3	43:HW:72:ASP:H	1.84	0.43
1:IA:1053:G:H4'	1:IA:1054:C:H5'	2.00	0.43
1:IA:1202:G:C2'	1:IA:1202:G:N3	2.76	0.43
1:IA:1225:A:OP1	13:IM:102:ARG:HG2	2.19	0.43
1:IA:1395:C:C5'	1:IA:1401:G:H21	2.26	0.43
1:IA:421:U:H2'	1:IA:423:G:O6	2.19	0.43
1:IA:546:G:H2'	1:IA:546:G:N3	2.33	0.43
1:IA:633:G:H2'	1:IA:634:C:O4'	2.18	0.43
1:IA:713:G:H2'	1:IA:714:G:C4	2.53	0.43
1:IA:729:A:H2'	1:IA:730:G:C8	2.54	0.43
1:IA:759:A:C2'	1:IA:760:G:H5'	2.42	0.43
3:IC:34:LEU:HA	3:IC:37:GLN:OE1	2.18	0.43
7:IG:49:ILE:HG21	7:IG:124:LEU:HD12	2.00	0.43
8:IH:86:ILE:HB	8:IH:133:LEU:CD2	2.49	0.43
9:II:78:LYS:O	9:II:102:LEU:HB3	2.19	0.43
10:IJ:38:ILE:HA	10:IJ:39:PRO:HD2	1.86	0.43
13:IM:97:PRO:HA	13:IM:110:ARG:CZ	2.49	0.43
14:IN:8:GLU:O	14:IN:11:LYS:HB2	2.19	0.43
15:IO:70:LEU:C	15:IO:78:TYR:HB2	2.39	0.43
15:IO:78:TYR:CE2	15:IO:79:ARG:HG3	2.54	0.43
16:IP:39:TYR:CD2	16:IP:41:PRO:HG3	2.53	0.43
17:IQ:48:GLU:OE2	17:IQ:50:LYS:HD2	2.18	0.43
19:IS:73:GLU:HG2	19:IS:74:PHE:CD1	2.54	0.43
48:J2:25:LEU:HD13	48:J2:26:THR:N	2.33	0.43
51:J5:27:SER:CB	51:J5:30:ARG:HH12	2.32	0.43
52:J6:2:LYS:HD3	52:J6:2:LYS:N	2.33	0.43
23:JA:9:G:H1'	23:JA:117:G:N2	2.34	0.43
22:JB:1166:A:HO2'	22:JB:1167:A:H8	1.62	0.43
22:JB:1292:A:H2'	22:JB:1293:A:O4'	2.19	0.43
22:JB:1762:C:O2'	22:JB:1763:G:H5'	2.19	0.43
22:JB:1980:A:OP1	25:JE:135:HIS:CD2	2.72	0.43
22:JB:2062:U:H2'	22:JB:2063:A:H8	1.82	0.43
22:JB:2311:U:P	44:JX:71:ASN:CA	2.89	0.43
22:JB:2419:C:H2'	22:JB:2420:C:H4'	2.01	0.43
22:JB:576:A:H62	22:JB:584:A:H2	1.65	0.43
22:JB:63:A:H5'	41:JU:73:ASN:N	1.71	0.43
24:JD:108:PRO:HB3	24:JD:195:ALA:H	1.84	0.43
24:JD:120:GLY:O	24:JD:121:PRO:C	2.57	0.43
24:JD:49:ILE:HG22	24:JD:50:THR:H	1.83	0.43
27:JG:45:GLU:HG2	27:JG:48:LYS:HB3	2.01	0.43
27:JG:80:ARG:H	27:JG:83:MET:HG2	1.82	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:JI:25:ALA:HA	29:JI:29:LEU:HD23	2.00	0.43
32:JL:71:LYS:HE3	32:JL:101:ASN:CG	2.39	0.43
36:JP:96:TYR:CE1	36:JP:100:VAL:HB	2.54	0.43
37:JQ:6:LYS:HZ3	37:JQ:6:LYS:HB3	1.84	0.43
41:JU:15:LYS:O	41:JU:19:ALA:HB3	2.19	0.43
41:JU:54:SER:CB	41:JU:79:ILE:HB	2.49	0.43
41:JU:7:LEU:HD12	41:JU:41:ALA:O	2.18	0.43
1:AA:1006:C:H2'	1:AA:1007:C:N1	2.33	0.42
1:AA:1114:C:H2'	1:AA:1115:C:C6	2.54	0.42
1:AA:1128:C:C4'	1:AA:1146:A:H61	2.31	0.42
1:AA:1225:A:H5'	13:AM:103:THR:C	2.40	0.42
1:AA:1348:U:H2'	1:AA:1349:A:C8	2.54	0.42
1:AA:1388:C:O2'	1:AA:1389:C:H5'	2.19	0.42
1:AA:50:A:H1'	1:AA:52:G:H5''	2.01	0.42
1:AA:529:G:O6	12:AL:46:LYS:CE	2.67	0.42
1:AA:919:A:N3	1:AA:1079:G:C2	2.87	0.42
1:AA:980:C:H4'	14:AN:19:ARG:NH1	2.32	0.42
3:AC:105:GLU:HG2	3:AC:106:VAL:N	2.26	0.42
3:AC:116:VAL:O	3:AC:119:ARG:HB3	2.19	0.42
3:AC:12:LEU:HD23	3:AC:16:ARG:HG3	2.00	0.42
4:AD:77:ASN:O	4:AD:80:GLU:HG2	2.18	0.42
1:AA:1345:U:H5'	9:AI:120:ARG:CZ	2.41	0.42
11:AK:34:ASP:HB2	11:AK:35:PRO:CD	2.48	0.42
11:AK:50:TYR:CD2	11:AK:54:ARG:HB3	2.54	0.42
1:AA:552:U:C1'	12:AL:31:PRO:HB2	2.29	0.42
12:AL:43:VAL:O	12:AL:45:PRO:HD3	2.19	0.42
1:AA:1225:A:H5''	13:AM:104:ARG:CA	2.49	0.42
13:AM:89:GLY:O	13:AM:92:HIS:O	2.26	0.42
1:AA:264:U:O2'	17:AQ:64:PRO:O	2.36	0.42
17:AQ:78:GLU:HB2	17:AQ:81:ARG:HH11	1.83	0.42
19:AS:49:ILE:HB	19:AS:60:VAL:CB	2.47	0.42
48:B2:25:LEU:CD1	48:B2:27:ALA:H	2.32	0.42
51:B5:30:ARG:HB2	51:B5:31:HIS:H	1.65	0.42
53:B7:138:LEU:HD13	53:B7:144:ILE:HD12	2.01	0.42
23:BA:111:C:H5''	23:BA:112:A:H5''	2.01	0.42
22:BB:1292:A:H2'	22:BB:1293:A:O4'	2.18	0.42
22:BB:1354:A:H4'	41:BU:56:MET:HG3	2.01	0.42
22:BB:159:A:H1'	22:BB:447:U:C5'	2.49	0.42
22:BB:1823:G:N2	22:BB:1958:G:H1'	2.33	0.42
22:BB:1887:G:N2	22:BB:1912:G:C5'	2.78	0.42
22:BB:1925:C:H2'	22:BB:1926:U:C5	2.54	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:BB:1948:C:H2'	22:BB:1949:A:C8	2.54	0.42
22:BB:1917:C:H42	22:BB:1950:C:N4	2.17	0.42
22:BB:201:G:H2'	22:BB:202:A:C8	2.54	0.42
22:BB:2284:U:H1'	27:BG:152:MET:HE2	2.00	0.42
22:BB:2327:U:H2'	22:BB:2328:G:C8	2.54	0.42
22:BB:2573:C:H2'	22:BB:2574:G:H8	1.82	0.42
22:BB:2662:C:H4'	37:BQ:65:SER:HB3	2.01	0.42
22:BB:2723:C:H1'	28:BH:150:LYS:HE3	1.94	0.42
22:BB:2784:A:N3	22:BB:2784:A:H3'	2.34	0.42
22:BB:317:U:H1'	22:BB:1224:A:OP2	2.19	0.42
22:BB:397:U:H2'	22:BB:398:C:O4'	2.19	0.42
22:BB:568:G:OP1	22:BB:569:C:OP1	2.36	0.42
22:BB:586:G:H2'	22:BB:587:A:C8	2.53	0.42
22:BB:680:U:P	33:BM:48:PHE:CA	2.76	0.42
22:BB:693:A:H2'	22:BB:694:G:C8	2.54	0.42
24:BD:105:ILE:HD13	24:BD:106:LEU:H	1.84	0.42
24:BD:47:GLY:O	24:BD:48:ARG:HB2	2.18	0.42
30:BJ:24:GLY:C	30:BJ:26:ALA:H	2.23	0.42
31:BK:116:ARG:HH12	31:BK:119:LEU:HD12	1.81	0.42
32:BL:47:VAL:CG2	32:BL:76:ARG:HD3	2.49	0.42
32:BL:98:ILE:HG23	32:BL:98:ILE:O	2.19	0.42
33:BM:107:LYS:HD2	33:BM:108:LEU:N	2.34	0.42
25:BE:6:GLY:CA	37:BQ:2:GLN:O	2.65	0.42
37:BQ:5:ILE:HD12	37:BQ:6:LYS:H	1.84	0.42
38:BR:38:THR:O	38:BR:41:ASN:HB3	2.18	0.42
41:BU:38:ILE:O	41:BU:38:ILE:HG23	2.19	0.42
42:BV:48:VAL:CG1	42:BV:50:GLY:H	2.27	0.42
34:BN:66:TYR:CB	43:BW:117:VAL:HG23	2.39	0.42
43:BW:41:ARG:HH11	43:BW:44:ARG:HE	1.66	0.42
1:CA:1051:C:H5	1:CA:1201:A:OP2	2.02	0.42
1:CA:1072:G:H2'	1:CA:1073:U:C6	2.54	0.42
1:CA:1318:A:H2	19:CS:37:ARG:NH1	1.87	0.42
1:CA:378:G:OP1	16:CP:25:ARG:HG3	2.06	0.42
1:CA:403:C:O2'	4:CD:122:ARG:CD	2.63	0.42
1:CA:413:G:H1	4:CD:31:CYS:CA	2.31	0.42
1:CA:488:C:H4'	4:CD:131:ARG:CD	2.24	0.42
1:CA:539:A:H2'	1:CA:540:G:O4'	2.19	0.42
1:CA:616:G:H1	1:CA:624:C:H42	1.67	0.42
2:CB:172:ILE:HG22	2:CB:176:GLU:CD	2.39	0.42
3:CC:70:VAL:HG12	3:CC:71:ALA:N	2.33	0.42
4:CD:161:ASN:N	4:CD:161:ASN:HD22	2.16	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:CG:13:GLN:HA	7:CG:14:PRO:HD2	1.91	0.42
8:CH:62:TYR:C	8:CH:63:LEU:HD12	2.39	0.42
8:CH:95:VAL:HB	8:CH:96:GLY:H	1.62	0.42
10:CJ:26:ALA:HB3	10:CJ:85:LEU:HD21	2.01	0.42
10:CJ:38:ILE:HD11	10:CJ:72:VAL:H	1.83	0.42
1:CA:1190:G:C6	10:CJ:51:ARG:NH1	2.84	0.42
11:CK:62:GLN:CA	11:CK:93:GLN:HB3	2.49	0.42
1:CA:1322:C:C5'	13:CM:101:GLN:O	2.64	0.42
13:CM:69:GLU:C	13:CM:71:ARG:H	2.21	0.42
1:CA:236:G:C4'	17:CQ:42:TYR:HH	2.19	0.42
19:CS:5:LEU:HD21	19:CS:9:VAL:HG22	2.01	0.42
1:CA:332:G:OP2	20:CT:8:ARG:HA	2.19	0.42
22:DB:2265:A:N3	49:D3:31:THR:HG21	2.34	0.42
53:D7:111:LEU:CD1	53:D7:148:ILE:HA	2.49	0.42
53:D7:55:PRO:HD2	53:D7:182:ASN:ND2	2.34	0.42
53:D7:46:LEU:HG	53:D7:47:LYS:H	1.84	0.42
22:DB:1174:G:O2'	22:DB:1175:A:H5'	2.18	0.42
22:DB:118:U:H4'	22:DB:120:G:OP1	2.18	0.42
22:DB:1293:A:OP1	35:DO:33:ARG:NE	2.48	0.42
22:DB:1823:G:N2	22:DB:1958:G:H1'	2.33	0.42
22:DB:1925:C:H2'	22:DB:1926:U:C5	2.54	0.42
22:DB:2313:G:O2'	36:DP:15:ARG:HG3	2.18	0.42
22:DB:2552:C:HO3'	22:DB:2553:G:P	2.35	0.42
22:DB:2614:A:H5'	25:DE:77:ILE:H	1.70	0.42
22:DB:2828:C:H2'	22:DB:2829:A:C8	2.54	0.42
22:DB:57:G:H2'	22:DB:72:A:H62	1.84	0.42
24:DD:57:GLY:H	24:DD:217:ARG:HA	1.84	0.42
22:DB:2551:A:C5	25:DE:144:ARG:HB2	2.06	0.42
26:DF:40:ARG:HB3	26:DF:40:ARG:HH11	1.84	0.42
26:DF:56:ARG:O	26:DF:57:LYS:HB2	2.18	0.42
31:DK:122:HIS:HB2	31:DK:123:PRO:CD	2.49	0.42
31:DK:141:GLY:C	31:DK:143:ALA:H	2.22	0.42
22:DB:678:G:OP1	33:DM:38:LYS:CD	2.66	0.42
34:DN:131:LYS:OXT	43:DW:43:PHE:CD2	2.72	0.42
34:DN:37:ALA:O	34:DN:38:MET:HB3	2.19	0.42
37:DQ:7:ILE:HG22	37:DQ:9:ARG:HG3	2.01	0.42
38:DR:93:LYS:O	38:DR:94:VAL:HB	2.19	0.42
39:DS:22:VAL:HG13	39:DS:90:PHE:CZ	2.54	0.42
22:DB:63:A:C4'	41:DU:70:GLY:HA2	2.48	0.42
42:DV:83:LEU:HD12	42:DV:92:THR:HG21	2.01	0.42
1:EA:1114:C:H2'	1:EA:1115:C:C6	2.54	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:EA:1260:C:H4'	1:EA:1284:C:C5'	2.48	0.42
1:EA:1283:G:H2'	1:EA:1284:C:O4'	2.19	0.42
1:EA:129(A):G:H5''	1:EA:130:A:H2'	2.01	0.42
1:EA:1388:C:O2'	1:EA:1389:C:H5'	2.19	0.42
1:EA:420:U:O2'	1:EA:421:U:H5''	2.18	0.42
1:EA:775:G:H2'	1:EA:776:G:C8	2.54	0.42
1:EA:925:G:C6	1:EA:927:G:N7	2.87	0.42
4:ED:10:ARG:NH2	4:ED:14:ARG:HE	2.17	0.42
9:EI:17:VAL:O	9:EI:19:LEU:HD23	2.19	0.42
9:EI:29:ASN:ND2	9:EI:64:THR:HG23	2.27	0.42
10:EJ:38:ILE:HA	10:EJ:39:PRO:HD2	1.86	0.42
11:EK:21:ILE:HB	11:EK:83:ILE:O	2.19	0.42
3:EC:14:ILE:HG12	14:EN:57:ARG:HD2	2.01	0.42
15:EO:78:TYR:CE2	15:EO:79:ARG:HG3	2.54	0.42
19:ES:35:SER:H	19:ES:51:VAL:CG1	2.32	0.42
48:F2:25:LEU:HD13	48:F2:26:THR:N	2.33	0.42
22:FB:475:U:H5''	50:F4:5:TYR:HB2	2.00	0.42
53:F7:126:PRO:HD3	53:F7:135:PRO:HD3	2.01	0.42
53:F7:34:LEU:N	53:F7:34:LEU:HD12	2.34	0.42
23:FA:57:U:O5'	27:FG:25:VAL:HG21	2.19	0.42
22:FB:1207:G:O2'	22:FB:1208:A:H5'	2.19	0.42
22:FB:1226:A:N6	22:FB:1249:G:H21	2.16	0.42
22:FB:1292:A:H2'	22:FB:1293:A:O4'	2.18	0.42
22:FB:1696:C:H2'	22:FB:1697:U:O4'	2.20	0.42
22:FB:1742:G:O4'	22:FB:2835:A:N9	2.51	0.42
22:FB:179:U:H6	22:FB:179:U:O5'	2.02	0.42
22:FB:1897:C:H2'	22:FB:1898:U:H5'	2.01	0.42
22:FB:2264:C:P	49:F3:28:ARG:NH1	2.74	0.42
22:FB:245:C:O2	22:FB:245:C:H2'	2.17	0.42
22:FB:2573:C:H2'	22:FB:2574:G:H8	1.82	0.42
22:FB:2694:G:H2'	22:FB:2695:C:C6	2.54	0.42
22:FB:1742:G:H5'	22:FB:2835:A:C6	2.54	0.42
22:FB:1856:U:H3	22:FB:3865:A:H62	1.66	0.42
22:FB:427:C:H2'	22:FB:428:A:C8	2.54	0.42
22:FB:643:A:N1	22:FB:2382:C:C4'	2.82	0.42
22:FB:638:A:H61	22:FB:647:G:H2'	1.83	0.42
22:FB:782:U:H2'	22:FB:783:G:C8	2.54	0.42
22:FB:80:A:H3'	22:FB:81:C:C6	2.53	0.42
22:FB:9:U:O4	22:FB:2607:C:O2'	2.32	0.42
24:FD:22:SER:HA	24:FD:206:LEU:HA	2.01	0.42
24:FD:43:ARG:NH1	24:FD:60:ARG:HD2	2.33	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:FD:47:GLY:O	24:FD:48:ARG:HB2	2.18	0.42
26:FF:40:ARG:HB3	26:FF:40:ARG:HH11	1.84	0.42
28:FH:160:LYS:HZ3	28:FH:160:LYS:C	2.22	0.42
31:FK:131:VAL:HG22	31:FK:131:VAL:O	2.19	0.42
31:FK:96:ASP:OD1	31:FK:117:GLU:HB2	2.19	0.42
33:FM:65:PHE:HA	51:F5:11:LYS:HG3	2.00	0.42
35:FO:108:VAL:O	35:FO:108:VAL:HG13	2.19	0.42
22:FB:88:G:H22	41:FU:65:VAL:HG21	1.68	0.42
22:FB:337:G:C1'	42:FV:9:HIS:NE2	2.82	0.42
44:FX:74:LYS:HZ2	44:FX:74:LYS:H	1.65	0.42
1:GA:147:G:O2'	1:GA:148:G:H5'	2.19	0.42
1:GA:159:G:H1'	1:GA:162:A:H61	1.81	0.42
1:GA:190:A:H2	20:GT:104:LEU:C	2.21	0.42
1:GA:728:A:H3'	1:GA:729:A:H8	1.84	0.42
3:GC:116:VAL:O	3:GC:119:ARG:HB3	2.19	0.42
3:GC:128:PHE:HB3	3:GC:129:ALA:H	1.66	0.42
4:GD:161:ASN:N	4:GD:161:ASN:HD22	2.16	0.42
4:GD:180:GLY:O	4:GD:182:LYS:HG3	2.18	0.42
4:GD:13:ARG:HB3	4:GD:39:PRO:HA	2.01	0.42
8:GH:83:ILE:O	8:GH:84:ARG:HB2	2.18	0.42
10:GJ:38:ILE:HG13	10:GJ:38:ILE:O	2.19	0.42
1:GA:35:G:N9	12:GL:118:SER:HA	2.24	0.42
13:GM:65:LYS:HD2	13:GM:69:GLU:HG2	2.01	0.42
13:GM:3:ARG:HA	13:GM:8:GLU:O	2.18	0.42
1:GA:755:G:OP2	15:GO:65:ARG:NH1	2.52	0.42
17:GQ:78:GLU:HB2	17:GQ:81:ARG:HH11	1.83	0.42
19:GS:45:VAL:HG13	19:GS:62:ILE:CG1	2.44	0.42
22:HB:2860:C:H2'	48:H2:33:CYS:O	2.18	0.42
51:H5:10:ALA:O	51:H5:14:ILE:HG13	2.19	0.42
53:H7:111:LEU:CD1	53:H7:148:ILE:HA	2.49	0.42
23:HA:20:A:O2'	23:HA:21:C:H5'	2.19	0.42
23:HA:78:A:O2'	43:HW:79:ILE:HG22	2.19	0.42
22:HB:1710:U:H5''	22:HB:1711:C:OP2	2.19	0.42
22:HB:1743:C:N4	37:HQ:125:MET:O	2.52	0.42
22:HB:1888:C:C2'	22:HB:1913:G:N7	2.81	0.42
22:HB:1917:C:H42	22:HB:1950:C:N4	2.17	0.42
22:HB:2034:A:H5''	22:HB:2557:G:P	2.59	0.42
22:HB:2250:G:P	44:HX:18:PRO:HD3	2.56	0.42
22:HB:2399:C:H41	51:H5:31:HIS:CG	2.37	0.42
22:HB:2711:G:H5''	22:HB:2712:G:OP1	2.19	0.42
22:HB:2861:A:N1	48:H2:31:THR:CB	2.78	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:HB:686:C:H42	22:HB:821:A:H61	1.63	0.42
22:HB:69:G:O4'	22:HB:72:A:C8	2.72	0.42
22:HB:64:C:C2	22:HB:88:G:N1	2.87	0.42
22:HB:959:C:OP1	22:HB:972:C:H4'	2.19	0.42
27:HG:7:LYS:O	27:HG:12:VAL:HG22	2.19	0.42
27:HG:96:MET:HA	27:HG:99:PHE:HB2	2.01	0.42
33:HM:58:ALA:O	51:H5:9:MET:SD	2.77	0.42
33:HM:82:ASP:C	33:HM:83:LEU:HD12	2.40	0.42
35:HO:108:VAL:O	35:HO:108:VAL:HG13	2.19	0.42
35:HO:22:ARG:HG3	35:HO:22:ARG:HH11	1.84	0.42
22:HB:2827:G:H5'	35:HO:60:LEU:HB3	1.50	0.42
25:HE:19:ARG:NH2	37:HQ:84:ALA:CB	2.82	0.42
38:HR:33:ARG:NH2	38:HR:34:ASN:HD21	2.14	0.42
38:HR:101:ARG:HH12	39:HS:43:GLU:HG2	1.84	0.42
42:HV:32:GLN:HG2	42:HV:50:GLY:HA2	2.01	0.42
42:HV:51:VAL:HG11	42:HV:74:LEU:CD2	2.49	0.42
34:HN:28:VAL:HG11	43:HW:117:VAL:HG12	2.01	0.42
43:HW:45:GLN:O	43:HW:46:GLN:HB2	2.18	0.42
1:IA:1172:C:H2'	1:IA:1173:G:C8	2.47	0.42
1:IA:1184:G:O2'	1:IA:1185:G:H5'	2.19	0.42
1:IA:1283:G:H2'	1:IA:1284:C:O4'	2.19	0.42
1:IA:129(A):G:H5"	1:IA:130:A:H2'	2.01	0.42
1:IA:1358:U:O2'	1:IA:1359:C:H5'	2.19	0.42
1:IA:1496:C:O2	22:JB:1902:A:C2	2.71	0.42
1:IA:539:A:H2'	1:IA:540:G:O4'	2.19	0.42
1:IA:657:G:O4'	15:IO:28:GLN:HG2	2.19	0.42
1:IA:775:G:H2'	1:IA:776:G:C8	2.54	0.42
4:ID:79:PHE:HB2	4:ID:93:PHE:CE1	2.53	0.42
5:IE:80:ILE:O	5:IE:80:ILE:HG13	2.18	0.42
10:IJ:17:ASP:O	10:IJ:20:ALA:HB3	2.19	0.42
10:IJ:55:LYS:HB2	10:IJ:55:LYS:HZ3	1.84	0.42
11:IK:104:GLN:HG2	11:IK:105:VAL:H	1.84	0.42
1:IA:690:G:OP2	11:IK:27:ASN:HB2	2.18	0.42
1:IA:683:G:HO2'	11:IK:38:ASN:CG	2.21	0.42
11:IK:50:TYR:CD2	11:IK:54:ARG:HB3	2.54	0.42
11:IK:50:TYR:O	11:IK:55:LYS:HE3	2.19	0.42
11:IK:62:GLN:CA	11:IK:93:GLN:HB3	2.49	0.42
17:IQ:78:GLU:HB2	17:IQ:81:ARG:HH11	1.83	0.42
51:J5:13:ARG:HH11	51:J5:23:MET:CA	2.31	0.42
51:J5:3:LYS:CE	51:J5:5:LYS:HE3	2.49	0.42
53:J7:155:VAL:HG11	53:J7:169:ILE:CA	2.49	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
53:J7:77:LYS:NZ	53:J7:84:VAL:HB	2.34	0.42
23:JA:53:G:C8	36:JP:64:LYS:CE	3.01	0.42
22:JB:118:U:H4'	22:JB:120:G:OP1	2.18	0.42
22:JB:1194:U:H4'	22:JB:1195:U:OP1	2.19	0.42
22:JB:1197:U:C3'	22:JB:1198:C:C5'	2.92	0.42
22:JB:17:G:C5'	48:J2:14:SER:N	2.82	0.42
1:IA:1409:C:H1'	22:JB:1897:C:OP1	2.18	0.42
22:JB:1999:U:H5'	48:J2:3:LYS:HB2	1.98	0.42
22:JB:1999:U:O2	48:J2:6:VAL:HA	2.12	0.42
22:JB:2034:A:H5''	22:JB:2557:G:P	2.59	0.42
22:JB:923:A:H1'	22:JB:2243:C:O2'	2.17	0.42
22:JB:2283:G:H1'	27:JG:129:ASN:C	2.39	0.42
22:JB:2325:A:H2	49:J3:26:LYS:C	2.21	0.42
22:JB:2340:C:OP2	33:JM:60:LEU:CD2	2.67	0.42
22:JB:2422:C:O2'	22:JB:2423:G:H5'	2.19	0.42
22:JB:2823:G:O2'	22:JB:2824:C:H5'	2.19	0.42
25:JE:111:LYS:CE	25:JE:160:MET:HB3	2.49	0.42
27:JG:111:ILE:HA	27:JG:135:GLN:OE1	2.19	0.42
27:JG:69:LYS:HZ1	27:JG:72:LYS:CA	2.32	0.42
27:JG:35:VAL:CG1	27:JG:88:LYS:HA	2.49	0.42
27:JG:8:TYR:O	27:JG:13:ARG:HB2	2.19	0.42
28:JH:155:ASP:O	28:JH:160:LYS:HD2	2.18	0.42
22:JB:1090:C:C2	30:JJ:132:ARG:CD	2.90	0.42
32:JL:76:ARG:HH21	32:JL:90:ARG:CZ	2.32	0.42
35:JO:108:VAL:O	35:JO:108:VAL:HG13	2.19	0.42
38:JR:51:ARG:NH2	38:JR:54:LYS:HE3	2.34	0.42
40:JT:118:LYS:HZ2	40:JT:118:LYS:HB3	1.84	0.42
43:JW:19:ILE:HG23	43:JW:20:ALA:N	2.23	0.42
43:JW:71:MET:O	43:JW:78:PRO:HA	2.19	0.42
44:JX:45:PHE:H	44:JX:76:ALA:N	2.16	0.42
46:JZ:34:VAL:HG22	46:JZ:35:SER:N	2.34	0.42
1:AA:1091:U:OP1	1:AA:1172:C:H4'	2.18	0.42
1:AA:1360:A:H2'	1:AA:1361:G:H5'	2.01	0.42
1:AA:1324:A:H1'	1:AA:1362:C:P	2.59	0.42
1:AA:815:A:H1'	1:AA:1529:G:N1	2.33	0.42
1:AA:202:G:H1'	1:AA:469:C:O2'	2.19	0.42
1:AA:711:G:H4'	24:BD:184:ARG:HH22	1.84	0.42
1:AA:932:C:OP1	7:AG:3:ARG:HB3	1.76	0.42
3:AC:3:ASN:N	3:AC:3:ASN:HD22	2.15	0.42
1:AA:437:U:O2'	4:AD:119:GLN:OE1	2.36	0.42
4:AD:126:ILE:HG22	4:AD:127:THR:N	2.24	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AD:60:GLU:HG3	4:AD:203:VAL:CG2	2.49	0.42
5:AE:148:VAL:HG21	8:AH:104:ARG:HD2	2.00	0.42
12:AL:41:ARG:CG	12:AL:42:THR:H	2.30	0.42
13:AM:88:ARG:NH2	13:AM:99:ARG:HG3	2.34	0.42
14:AN:23:ARG:HD3	14:AN:30:ALA:H	1.84	0.42
18:AR:39:VAL:HG23	18:AR:43:PHE:CD1	2.54	0.42
50:B4:37:LYS:HZ2	50:B4:37:LYS:HB3	1.84	0.42
51:B5:10:ALA:O	51:B5:14:ILE:HG13	2.19	0.42
53:B7:165:VAL:O	53:B7:167:VAL:HG23	2.20	0.42
22:BB:1245:G:H2'	22:BB:1246:G:C8	2.55	0.42
22:BB:1296:G:HO2'	22:BB:1297:A:H3'	1.83	0.42
22:BB:1488:G:C6	22:BB:1536:G:N3	2.65	0.42
22:BB:1544:A:C5	22:BB:1545:G:H1'	2.54	0.42
22:BB:1441:A:N6	22:BB:1587:A:OP2	2.52	0.42
22:BB:165:G:H2'	22:BB:166:G:C5	2.54	0.42
22:BB:1702:C:H2'	22:BB:1703:C:C6	2.55	0.42
1:AA:1495:U:O2'	22:BB:1902:A:N1	2.49	0.42
22:BB:2034:A:H5''	22:BB:2557:G:P	2.59	0.42
22:BB:872:G:H1'	22:BB:2247:A:C2	2.53	0.42
22:BB:2335:U:C5'	44:BX:19:LYS:HG3	2.50	0.42
22:BB:2785:A:H2'	22:BB:2786:G:C8	2.53	0.42
22:BB:26:G:H2'	22:BB:27:G:O4'	2.19	0.42
22:BB:2828:C:H2'	22:BB:2829:A:C8	2.55	0.42
22:BB:676:G:H1'	22:BB:950:G:O2'	2.18	0.42
22:BB:990:A:H2'	22:BB:993:C:H41	1.83	0.42
22:BB:991:A:H61	22:BB:2020:G:H21	1.66	0.42
24:BD:198:ASN:HB3	24:BD:201:HIS:CB	2.49	0.42
24:BD:260:ARG:HB3	24:BD:261:ARG:H	1.51	0.42
25:BE:118:LYS:HA	25:BE:118:LYS:HZ3	1.83	0.42
26:BF:15:ILE:CG2	26:BF:16:GLU:H	2.19	0.42
27:BG:45:GLU:HG2	27:BG:48:LYS:HB3	2.01	0.42
29:BI:4:ILE:HG22	29:BI:5:LEU:H	1.84	0.42
30:BJ:71:THR:O	30:BJ:74:MET:HB2	2.19	0.42
32:BL:122:ARG:HH21	32:BL:124:MET:HE1	1.83	0.42
22:BB:637:G:N2	33:BM:72:TYR:CE2	2.80	0.42
22:BB:968:C:C5	34:BN:77:LYS:HE2	2.54	0.42
34:BN:38:MET:HA	34:BN:99:LYS:HD2	2.00	0.42
35:BO:108:VAL:HG13	35:BO:108:VAL:O	2.19	0.42
36:BP:19:THR:O	36:BP:23:ALA:HB3	2.19	0.42
36:BP:80:ALA:O	36:BP:84:ILE:HA	2.19	0.42
38:BR:76:TYR:CG	38:BR:77:SER:N	2.84	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:BV:32:GLN:HG2	42:BV:50:GLY:HA2	2.01	0.42
43:BW:69:VAL:HG12	43:BW:70:GLN:N	2.33	0.42
43:BW:71:MET:HG3	43:BW:72:ASP:H	1.84	0.42
44:BX:45:PHE:H	44:BX:76:ALA:N	2.16	0.42
46:BZ:2:LYS:O	46:BZ:54:GLN:HB2	2.18	0.42
46:BZ:34:VAL:HG22	46:BZ:35:SER:N	2.34	0.42
1:CA:1260:C:H4'	1:CA:1284:C:C5'	2.48	0.42
1:CA:1348:U:H2'	1:CA:1349:A:C8	2.54	0.42
1:CA:201:G:H2'	1:CA:202:G:C8	2.54	0.42
1:CA:335:C:H4'	1:CA:1434:A:H1'	2.01	0.42
1:CA:673:G:H4'	18:CR:75:ILE:CB	2.49	0.42
1:CA:837:G:H2'	1:CA:838:C:C6	2.53	0.42
1:CA:863:U:N3	1:CA:865:A:H5''	2.35	0.42
1:CA:964:A:H2'	1:CA:965:A:C8	2.54	0.42
2:CB:147:LYS:N	2:CB:147:LYS:HD2	2.34	0.42
4:CD:168:ARG:HE	4:CD:168:ARG:N	2.17	0.42
1:CA:16:A:C3'	5:CE:16:THR:HA	2.48	0.42
7:CG:148:ASN:HA	7:CG:151:TYR:CE1	2.54	0.42
8:CH:86:ILE:HB	8:CH:133:LEU:CD2	2.49	0.42
11:CK:104:GLN:HG2	11:CK:105:VAL:N	2.33	0.42
11:CK:34:ASP:HB2	11:CK:35:PRO:CD	2.48	0.42
11:CK:50:TYR:CD2	11:CK:54:ARG:HB3	2.54	0.42
12:CL:83:VAL:HB	12:CL:107:ALA:CB	2.46	0.42
17:CQ:26:GLN:HG2	17:CQ:38:ARG:H	1.84	0.42
1:CA:279:A:P	17:CQ:95:TYR:HE2	2.39	0.42
17:CQ:9:VAL:O	17:CQ:11:VAL:HG13	2.18	0.42
23:DA:9:G:H1'	23:DA:117:G:C2	2.54	0.42
22:DB:1207:G:O2'	22:DB:1208:A:H5'	2.19	0.42
22:DB:561:U:H4'	22:DB:1233:A:C6	2.54	0.42
22:DB:1239:A:P	39:DS:73:LYS:CD	3.01	0.42
22:DB:1245:G:H2'	22:DB:1246:G:C8	2.54	0.42
22:DB:1226:A:N6	22:DB:1249:G:H21	2.16	0.42
22:DB:1488:G:O6	22:DB:1536:G:N2	2.52	0.42
22:DB:1480:G:H4'	22:DB:1543:G:C4'	2.49	0.42
22:DB:1544:A:C5	22:DB:1545:G:H1'	2.54	0.42
22:DB:1394:G:C2	22:DB:1588:A:C4	3.03	0.42
22:DB:1696:C:H2'	22:DB:1697:U:O4'	2.20	0.42
22:DB:179:U:O5'	22:DB:179:U:H6	2.02	0.42
22:DB:1897:C:H2'	22:DB:1898:U:H5'	2.01	0.42
22:DB:2035:G:O4'	25:DE:142:GLY:HA2	2.18	0.42
22:DB:2562:G:H3'	22:DB:2563:U:C6	2.53	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:DB:2585:C:H2'	22:DB:2586:G:H8	1.84	0.42
22:DB:159:A:H1'	22:DB:447:U:C5'	2.49	0.42
22:DB:584:A:H2'	22:DB:585:U:C6	2.54	0.42
22:DB:628:A:H2'	22:DB:629:C:H5'	2.00	0.42
22:DB:1805:G:H4'	24:DD:44:ASN:C	2.39	0.42
25:DE:144:ARG:HD3	25:DE:146:THR:HB	2.02	0.42
25:DE:4:ILE:HG21	25:DE:48:GLN:HG3	2.00	0.42
27:DG:8:TYR:O	27:DG:13:ARG:HB2	2.19	0.42
31:DK:43:VAL:CG2	31:DK:166:LEU:H	2.32	0.42
32:DL:83:ARG:NH2	37:DQ:81:PHE:CE2	2.78	0.42
23:DA:92:G:C4	34:DN:21:ASP:C	2.81	0.42
22:DB:2254:C:H5''	34:DN:86:LYS:HG2	1.84	0.42
38:DR:38:THR:O	38:DR:41:ASN:HB3	2.18	0.42
42:DV:72:ARG:HG3	42:DV:73:GLU:N	2.33	0.42
43:DW:116:VAL:HG11	43:DW:169:VAL:HG12	2.01	0.42
46:DZ:34:VAL:HG22	46:DZ:35:SER:N	2.35	0.42
1:EA:1242:C:H2'	1:EA:1243:C:O4'	2.19	0.42
1:EA:409:G:H2'	1:EA:410:G:O4'	2.19	0.42
1:EA:521:G:C5'	12:EL:72:GLY:H	2.32	0.42
1:EA:616:G:H1	1:EA:624:C:H42	1.67	0.42
1:EA:636:U:H2'	1:EA:637:G:O4'	2.19	0.42
1:EA:948:C:N4	1:EA:949:A:H62	2.17	0.42
2:EB:20:GLU:CB	2:EB:190:THR:HB	2.49	0.42
2:EB:32:ILE:HG22	2:EB:33:TYR:N	2.33	0.42
3:EC:12:LEU:CD2	14:EN:51:GLY:HA3	2.48	0.42
3:EC:83:ARG:HA	3:EC:86:VAL:HB	2.01	0.42
4:ED:176:LEU:HD23	4:ED:176:LEU:N	2.34	0.42
4:ED:205:GLU:CA	5:EE:101:ILE:HG23	2.49	0.42
7:EG:31:MET:HE3	7:EG:34:GLY:HA2	2.01	0.42
13:EM:69:GLU:C	13:EM:71:ARG:H	2.22	0.42
15:EO:17:ARG:HB3	15:EO:18:PHE:H	1.59	0.42
16:EP:45:THR:HB	16:EP:46:PRO:HD2	2.00	0.42
17:EQ:9:VAL:HG22	17:EQ:56:VAL:HG22	2.01	0.42
47:F1:11:PRO:O	47:F1:12:CYS:HB2	2.19	0.42
53:F7:138:LEU:HD13	53:F7:144:ILE:HD12	2.01	0.42
53:F7:165:VAL:O	53:F7:167:VAL:HG23	2.19	0.42
53:F7:13:LYS:HZ1	53:F7:177:GLU:HA	1.82	0.42
23:FA:9:G:H1'	23:FA:117:G:N2	2.34	0.42
22:FB:1377:G:H4'	22:FB:1800:A:C8	2.54	0.42
22:FB:1453:A:H2'	22:FB:1453:A:N3	2.34	0.42
22:FB:176:A:H2'	47:F1:31:ILE:HG21	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:FB:201:G:H2'	22:FB:202:A:C8	2.54	0.42
22:FB:2224:U:C3'	22:FB:2225:G:H5'	2.47	0.42
22:FB:2264:C:H3'	49:F3:28:ARG:CB	2.48	0.42
22:FB:2562:G:H3'	22:FB:2563:U:C6	2.53	0.42
22:FB:2713:A:O3'	22:FB:2714:A:H5'	2.19	0.42
22:FB:2752:C:H2'	22:FB:2753:C:C6	2.54	0.42
22:FB:2823:G:O2'	22:FB:2824:C:H5'	2.19	0.42
22:FB:2828:C:H2'	22:FB:2829:A:C8	2.54	0.42
22:FB:159:A:H1'	22:FB:447:U:C5'	2.49	0.42
22:FB:50:G:N2	22:FB:117:A:H1'	2.35	0.42
22:FB:586:G:H2'	22:FB:587:A:C8	2.53	0.42
22:FB:639:G:H2'	22:FB:640:C:C6	2.54	0.42
22:FB:76:C:H2'	22:FB:77:C:O4'	2.19	0.42
22:FB:940:G:O2'	46:FZ:34:VAL:HG23	2.05	0.42
22:FB:2056:C:H5'	24:FD:229:VAL:HG23	1.97	0.42
22:FB:1884:A:H2	24:FD:244:ARG:HD2	1.82	0.42
25:FE:154:LYS:HZ3	25:FE:156:MET:CB	2.33	0.42
26:FF:116:LYS:O	26:FF:116:LYS:HD2	2.19	0.42
27:FG:66:ILE:HG22	27:FG:66:ILE:O	2.18	0.42
28:FH:162:VAL:HG13	28:FH:162:VAL:O	2.19	0.42
29:FI:25:ALA:HA	29:FI:29:LEU:HD23	2.00	0.42
30:FJ:72:PRO:C	30:FJ:74:MET:N	2.72	0.42
31:FK:43:VAL:HG21	31:FK:165:VAL:HA	2.00	0.42
31:FK:44:VAL:HG12	31:FK:45:ASP:N	2.34	0.42
32:FL:25:LEU:HB2	32:FL:52:VAL:HG23	2.02	0.42
32:FL:77:THR:HG23	32:FL:78:SER:N	2.34	0.42
34:FN:36:ILE:HG21	43:FW:74:ARG:CA	2.30	0.42
37:FQ:7:ILE:HG22	37:FQ:9:ARG:HG3	2.01	0.42
39:FS:22:VAL:HG13	39:FS:90:PHE:HZ	1.84	0.42
22:FB:497:C:C4'	40:FT:80:LEU:HD13	2.43	0.42
22:FB:70:A:N7	41:FU:31:PRO:HD2	2.34	0.42
1:GA:15:G:N2	1:GA:1080:A:O2'	2.42	0.42
1:GA:1172:C:H2'	1:GA:1173:G:C8	2.47	0.42
1:GA:1184:G:O2'	1:GA:1185:G:H5'	2.19	0.42
1:GA:1202:G:N3	1:GA:1202:G:C2'	2.75	0.42
1:GA:428:G:H5'	1:GA:430:A:O5'	2.20	0.42
1:GA:539:A:H2'	1:GA:540:G:O4'	2.19	0.42
1:GA:545:C:H4'	4:GD:72:GLU:OE2	2.19	0.42
1:GA:616:G:O2'	1:GA:617:G:H5'	2.19	0.42
1:GA:959:A:H2'	1:GA:960:U:C4'	2.48	0.42
1:GA:988:G:H2'	1:GA:989:C:O4'	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:GC:11:ARG:C	3:GC:16:ARG:HB3	2.39	0.42
3:GC:34:LEU:HA	3:GC:37:GLN:OE1	2.18	0.42
10:GJ:17:ASP:O	10:GJ:20:ALA:HB3	2.19	0.42
11:GK:62:GLN:CA	11:GK:93:GLN:HB3	2.49	0.42
1:GA:1226:C:C3'	13:GM:111:LYS:HE3	2.48	0.42
13:GM:78:ILE:HG23	13:GM:81:LEU:HG	2.02	0.42
1:GA:1114:C:C5'	14:GN:57:ARG:NH2	2.47	0.42
16:GP:51:VAL:HB	16:GP:79:VAL:HG13	2.01	0.42
18:GR:63:GLN:HA	18:GR:66:LEU:CB	2.45	0.42
20:GT:96:GLY:O	20:GT:97:ALA:HB3	2.18	0.42
22:HB:2337:A:C2	51:H5:52:LYS:HG2	2.38	0.42
53:H7:128:LEU:CD1	53:H7:133:LYS:HD2	2.49	0.42
22:HB:1040:A:H1'	22:HB:2465:G:O4'	2.19	0.42
22:HB:1128:G:H2'	22:HB:1129:A:O4'	2.19	0.42
22:HB:51:A:N6	22:HB:116:A:C2	2.86	0.42
22:HB:1455:C:H4'	22:HB:1643:A:H4'	2.01	0.42
22:HB:1696:C:H2'	22:HB:1697:U:O4'	2.19	0.42
22:HB:1809:G:C5'	24:HD:63:ARG:HH12	2.29	0.42
22:HB:1948:C:H41	22:HB:2571:G:H1'	1.84	0.42
22:HB:2001:G:C1'	38:HR:33:ARG:HD3	2.31	0.42
22:HB:213:C:H2'	22:HB:214:C:N1	2.34	0.42
22:HB:2252:A:H2'	22:HB:2253:A:O4'	2.19	0.42
22:HB:2241:U:N1	22:HB:2306:A:H2	2.08	0.42
22:HB:974:U:H5'	22:HB:2476:A:OP1	2.19	0.42
22:HB:2562:G:H3'	22:HB:2563:U:C6	2.53	0.42
22:HB:1470:G:C2	22:HB:2683:C:O2	2.69	0.42
22:HB:3877:A:OP1	53:H7:40:ASP:CG	2.49	0.42
22:HB:69:G:C4'	22:HB:72:A:O4'	2.67	0.42
22:HB:76:C:H2'	22:HB:77:C:O4'	2.19	0.42
22:HB:899:G:H2'	22:HB:900:U:O4'	2.19	0.42
22:HB:861:G:C2	22:HB:944:A:H1'	2.54	0.42
22:HB:95:G:N7	45:HY:41:HIS:NE2	2.56	0.42
22:HB:9:U:O2	22:HB:2608:A:N7	2.52	0.42
24:HD:198:ASN:HB3	24:HD:201:HIS:CB	2.49	0.42
24:HD:22:SER:HA	24:HD:206:LEU:C	2.40	0.42
27:HG:91:LEU:N	27:HG:91:LEU:HD23	2.35	0.42
30:HJ:119:SER:H	30:HJ:123:ALA:HB2	1.82	0.42
31:HK:116:ARG:HH12	31:HK:119:LEU:HD12	1.82	0.42
32:HL:113:PRO:HB3	32:HL:132:GLU:HB2	2.02	0.42
34:HN:44:LYS:HA	34:HN:94:TRP:NE1	2.34	0.42
37:HQ:100:ARG:HB2	37:HQ:120:ASP:O	2.18	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:HL:91:PHE:CD1	37:HQ:79:ARG:CD	3.02	0.42
44:HX:49:GLN:HB2	44:HX:73:GLY:HA3	2.00	0.42
45:HY:41:HIS:ND1	45:HY:45:GLN:HB2	2.31	0.42
1:IA:1062:U:H2'	1:IA:1063:C:C5	2.54	0.42
1:IA:1316:G:N3	1:IA:1318:A:H8	2.17	0.42
1:IA:409:G:H2'	1:IA:410:G:O4'	2.19	0.42
1:IA:428:G:H5'	1:IA:430:A:O5'	2.19	0.42
1:IA:793:U:O4	1:IA:1517:G:OP1	2.37	0.42
1:IA:815:A:C6	1:IA:1508:G:C2	3.07	0.42
1:IA:816:A:O3'	1:IA:817:C:H2'	2.19	0.42
1:IA:903:G:H2'	1:IA:904:C:C6	2.54	0.42
2:IB:149:LEU:HD23	2:IB:153:ARG:HA	2.02	0.42
2:IB:155:LEU:HD11	2:IB:159:PRO:HD3	2.01	0.42
2:IB:178:ARG:HD3	2:IB:196:LEU:CB	2.48	0.42
3:IC:12:LEU:HD23	3:IC:16:ARG:HG3	2.00	0.42
3:IC:83:ARG:HA	3:IC:86:VAL:HB	2.01	0.42
1:IA:620:C:H5''	4:ID:138:TYR:OH	2.19	0.42
4:ID:13:ARG:HB3	4:ID:39:PRO:HA	2.01	0.42
1:IA:587:G:P	8:IH:89:PRO:HA	2.58	0.42
7:IG:40:ALA:HB1	9:II:41:VAL:HG21	2.00	0.42
11:IK:104:GLN:HG2	11:IK:105:VAL:N	2.33	0.42
12:IL:72:GLY:CA	12:IL:102:ARG:HH11	2.30	0.42
1:IA:363:A:C5	12:IL:30:ALA:CB	3.00	0.42
12:IL:7:ILE:HG22	12:IL:8:ASN:OD1	2.20	0.42
13:IM:15:VAL:HG21	13:IM:48:LEU:HD11	2.00	0.42
1:IA:1360:A:OP1	14:IN:31:ARG:NH2	2.51	0.42
20:IT:19:SER:HB3	20:IT:22:ARG:HH21	1.84	0.42
22:JB:2074:U:N1	47:J1:43:TRP:O	2.48	0.42
29:JI:26:ARG:HD2	47:J1:68:ARG:NH1	2.29	0.42
22:JB:465:C:O2	50:J4:39:ARG:CB	2.67	0.42
50:J4:40:HIS:ND1	50:J4:41:GLN:N	2.67	0.42
53:J7:176:PRO:C	53:J7:178:ASP:H	2.22	0.42
53:J7:33:ILE:HD12	53:J7:206:LYS:CE	2.49	0.42
23:JA:9:G:H1'	23:JA:117:G:C2	2.54	0.42
22:JB:1128:G:H2'	22:JB:1129:A:O4'	2.19	0.42
22:JB:1455:C:O3'	22:JB:1644:G:C5'	2.60	0.42
22:JB:1725:C:O2'	22:JB:2835:A:H4'	2.18	0.42
22:JB:1781:C:H5''	24:JD:213:ARG:NE	2.31	0.42
22:JB:179:U:H6	22:JB:179:U:O5'	2.02	0.42
22:JB:2261:G:O6	22:JB:2404:A:C4	2.72	0.42
22:JB:427:C:H2'	22:JB:428:A:C8	2.54	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:JB:586:G:H5''	22:JB:1268:U:C2	2.54	0.42
22:JB:643:A:H2'	22:JB:644:A:O4'	2.18	0.42
22:JB:71:A:HO2'	22:JB:72:A:P	2.41	0.42
22:JB:927:C:H2'	22:JB:928:G:H8	1.84	0.42
25:JE:59:VAL:O	25:JE:63:MET:HG2	2.19	0.42
28:JH:125:VAL:N	28:JH:126:PRO:HD2	2.34	0.42
31:JK:96:ASP:OD1	31:JK:117:GLU:HB2	2.19	0.42
32:JL:47:VAL:CG2	32:JL:76:ARG:HD3	2.49	0.42
37:JQ:67:THR:CB	37:JQ:82:PRO:HB3	2.49	0.42
22:JB:760:U:O2'	40:JT:109:ARG:HG3	2.19	0.42
22:JB:1996:A:H5'	40:JT:117:ILE:HG22	1.99	0.42
40:JT:40:LEU:CD1	48:J2:20:ARG:HG2	2.40	0.42
43:JW:123:VAL:O	43:JW:124:ALA:CB	2.64	0.42
43:JW:141:MET:HB2	43:JW:171:VAL:HG13	2.00	0.42
45:JY:39:GLN:OE1	45:JY:42:ARG:HD2	2.19	0.42
1:AA:1242:C:H2'	1:AA:1243:C:O4'	2.19	0.42
1:AA:1283:G:H2'	1:AA:1284:C:O4'	2.19	0.42
1:AA:1306:A:H2'	1:AA:1307:U:H5'	2.01	0.42
1:AA:201:G:H2'	1:AA:202:G:C8	2.55	0.42
1:AA:409:G:H2'	1:AA:410:G:O4'	2.19	0.42
1:AA:539:A:H2'	1:AA:540:G:O4'	2.20	0.42
1:AA:546:G:N3	1:AA:546:G:H2'	2.33	0.42
1:AA:712:A:H4'	24:BD:182:LEU:HD12	1.74	0.42
1:AA:775:G:H2'	1:AA:776:G:C8	2.54	0.42
1:AA:837:G:H2'	1:AA:838:C:C6	2.53	0.42
1:AA:925:G:C6	1:AA:927:G:N7	2.87	0.42
1:AA:932:C:OP2	7:AG:3:ARG:HB3	1.74	0.42
8:AH:7:ALA:O	8:AH:11:THR:HG23	2.20	0.42
9:AI:116:LYS:HZ3	9:AI:121:ARG:N	2.17	0.42
13:AM:82:MET:HG2	13:AM:92:HIS:CA	2.46	0.42
15:AO:78:TYR:CE2	15:AO:79:ARG:HG3	2.54	0.42
53:B7:155:VAL:HG11	53:B7:169:ILE:CA	2.49	0.42
53:B7:77:LYS:NZ	53:B7:84:VAL:HB	2.34	0.42
22:BB:1070:G:H1'	30:BJ:127:VAL:HG23	2.01	0.42
22:BB:1207:G:O2'	22:BB:1208:A:H5'	2.19	0.42
22:BB:1342:U:H5'	22:BB:1343:C:H5	1.84	0.42
22:BB:1398:G:C5	22:BB:1416:A:C6	3.05	0.42
22:BB:1625:A:C2'	22:BB:1625:A:N3	2.82	0.42
22:BB:1762:C:O2'	22:BB:1763:G:H5'	2.19	0.42
22:BB:179:U:O5'	22:BB:179:U:H6	2.02	0.42
22:BB:1377:G:H4'	22:BB:1800:A:C8	2.54	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:702:A:OP1	22:BB:1840:A:H1'	2.19	0.42
22:BB:18:U:O3'	38:BR:23:GLY:HA2	2.18	0.42
1:AA:1495:U:O2'	22:BB:1902:A:C6	2.71	0.42
22:BB:658:G:C5'	22:BB:2331:A:H5'	2.48	0.42
22:BB:2412:A:C2	47:B1:30:GLU:HB3	2.54	0.42
22:BB:2562:G:H3'	22:BB:2563:U:C6	2.53	0.42
22:BB:2724:G:H4'	28:BH:146:ALA:HB3	1.97	0.42
22:BB:2850:U:H2'	22:BB:2851:G:O4'	2.20	0.42
22:BB:3190:G:H2'	22:BB:3191:A:O4'	2.20	0.42
22:BB:427:C:H2'	22:BB:428:A:C8	2.54	0.42
22:BB:502:A:N1	40:BT:28:ALA:CB	2.82	0.42
22:BB:57:G:C2	22:BB:72:A:C5	3.07	0.42
24:BD:120:GLY:O	24:BD:121:PRO:C	2.57	0.42
22:BB:777:A:C1'	24:BD:209:ALA:O	2.65	0.42
25:BE:181:LEU:HD11	37:BQ:16:ILE:HD12	1.98	0.42
25:BE:40:GLN:C	25:BE:42:ASP:N	2.73	0.42
27:BG:38:GLU:HA	27:BG:152:MET:HG2	2.01	0.42
22:BB:2646:C:C2	28:BH:111:HIS:HB2	2.54	0.42
29:BI:4:ILE:HG23	29:BI:15:GLY:HA3	2.00	0.42
31:BK:131:VAL:HG22	31:BK:131:VAL:O	2.19	0.42
38:BR:51:ARG:NH2	38:BR:54:LYS:HE3	2.34	0.42
40:BT:107:ILE:O	40:BT:107:ILE:HG23	2.19	0.42
42:BV:36:VAL:HG12	42:BV:37:LEU:N	2.33	0.42
43:BW:143:ILE:HD13	43:BW:144:GLY:N	2.34	0.42
22:BB:2310:G:H5''	44:BX:71:ASN:HA	1.80	0.42
46:BZ:4:LYS:HD2	46:BZ:52:GLU:OE1	2.19	0.42
1:CA:1242:C:H2'	1:CA:1243:C:O4'	2.19	0.42
1:CA:1283:G:H2'	1:CA:1284:C:O4'	2.19	0.42
1:CA:975:A:H5''	1:CA:1357:A:H2	1.85	0.42
1:CA:276:G:H21	17:CQ:68:ARG:HH22	0.58	0.42
1:CA:50:A:H1'	1:CA:52:G:H5''	2.01	0.42
1:CA:560:U:HO2'	1:CA:561:U:P	2.43	0.42
1:CA:583:A:H62	17:CQ:105:ALA:HB1	1.83	0.42
1:CA:619:U:C6	4:CD:133:VAL:CG1	2.81	0.42
1:CA:925:G:C6	1:CA:927:G:N7	2.87	0.42
1:CA:948:C:N4	1:CA:949:A:H62	2.18	0.42
2:CB:104:ASN:HB3	2:CB:108:ILE:HD12	2.02	0.42
3:CC:105:GLU:HG2	3:CC:106:VAL:N	2.26	0.42
4:CD:57:ARG:HH21	5:CE:111:GLU:CD	2.15	0.42
17:CQ:20:THR:HA	17:CQ:43:LEU:CD2	2.49	0.42
22:DB:2063:A:C4'	47:D1:20:VAL:HG21	2.47	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
53:D7:34:LEU:N	53:D7:34:LEU:HD12	2.34	0.42
22:DB:1030:U:P	22:DB:1046:U:C1'	3.07	0.42
22:DB:1035:G:H21	22:DB:1155:G:C5'	2.32	0.42
22:DB:1007:A:H61	22:DB:1171:A:N6	2.17	0.42
22:DB:1424:U:H2'	22:DB:1425:G:C8	2.54	0.42
22:DB:1450:G:N3	22:DB:1493:A:H2	2.17	0.42
22:DB:1619:A:O2'	22:DB:1620:C:H5'	2.19	0.42
22:DB:165:G:H2'	22:DB:166:G:C5	2.54	0.42
22:DB:1856:U:H5''	22:DB:2389:G:HO2'	1.83	0.42
22:DB:2034:A:H5''	22:DB:2557:G:P	2.59	0.42
22:DB:2056:C:H2'	22:DB:2057:U:C6	2.54	0.42
22:DB:2249:U:H5'	44:DX:18:PRO:HB2	2.00	0.42
22:DB:2327:U:H2'	22:DB:2328:G:C8	2.54	0.42
22:DB:2653:A:O2'	32:DL:41:ASN:C	2.57	0.42
22:DB:2752:C:H2'	22:DB:2753:C:C6	2.55	0.42
22:DB:2769:C:H4'	22:DB:2866:A:H61	1.84	0.42
22:DB:222:G:N2	22:DB:397:U:H1'	2.29	0.42
22:DB:427:C:H2'	22:DB:428:A:C8	2.54	0.42
22:DB:456:C:H4'	38:DR:2:PRO:HB2	1.97	0.42
22:DB:503:G:C5'	40:DT:30:TYR:HE2	2.24	0.42
22:DB:63:A:N6	22:DB:89:A:C6	2.87	0.42
22:DB:638:A:H61	22:DB:647:G:H2'	1.84	0.42
22:DB:969:U:C5	34:DN:21:ASP:CG	2.92	0.42
24:DD:105:ILE:HD13	24:DD:106:LEU:H	1.84	0.42
25:DE:108:SER:O	25:DE:191:ALA:HB2	2.20	0.42
25:DE:143:GLN:CB	25:DE:144:ARG:HE	2.32	0.42
25:DE:111:LYS:CE	25:DE:160:MET:HB3	2.48	0.42
25:DE:30:PRO:HB3	25:DE:50:GLY:O	2.19	0.42
25:DE:40:GLN:C	25:DE:42:ASP:N	2.73	0.42
25:DE:59:VAL:O	25:DE:63:MET:HG2	2.19	0.42
25:DE:30:PRO:HD2	25:DE:90:SER:OG	2.18	0.42
26:DF:116:LYS:HD2	26:DF:116:LYS:O	2.19	0.42
26:DF:78:VAL:O	26:DF:78:VAL:HG13	2.19	0.42
27:DG:45:GLU:HG2	27:DG:48:LYS:HB3	2.01	0.42
31:DK:147:ARG:HG2	31:DK:147:ARG:HH21	1.84	0.42
22:DB:565:A:O2'	31:DK:74:MET:SD	2.72	0.42
32:DL:25:LEU:HB2	32:DL:52:VAL:HG23	2.01	0.42
22:DB:644:A:P	33:DM:70:THR:HG21	2.59	0.42
33:DM:7:LYS:N	33:DM:8:PRO:CD	2.79	0.42
22:DB:1040:A:C3'	34:DN:125:LYS:HZ1	2.27	0.42
22:DB:1290:A:O4'	35:DO:24:GLN:HG2	2.18	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:DP:19:THR:O	36:DP:23:ALA:HB3	2.19	0.42
36:DP:80:ALA:O	36:DP:84:ILE:HA	2.19	0.42
37:DQ:72:SER:HB2	37:DQ:78:GLU:O	2.18	0.42
37:DQ:73:PHE:HB3	37:DQ:74:GLY:H	1.64	0.42
38:DR:101:ARG:HB3	38:DR:102:GLU:H	1.73	0.42
22:DB:523:A:C2	38:DR:11:ARG:NH1	2.87	0.42
41:DU:54:SER:CB	41:DU:79:ILE:HB	2.49	0.42
41:DU:61:LYS:N	41:DU:72:ARG:HD3	2.20	0.42
43:DW:124:ALA:N	43:DW:125:PRO:HD2	2.34	0.42
1:EA:1051:C:H5	1:EA:1201:A:OP2	2.02	0.42
1:EA:1072:G:H2'	1:EA:1073:U:C6	2.54	0.42
1:EA:1073:U:O2	2:EB:107:THR:HB	2.19	0.42
1:EA:1348:U:H2'	1:EA:1349:A:C8	2.54	0.42
1:EA:975:A:H5''	1:EA:1357:A:H2	1.85	0.42
1:EA:16:A:O2'	1:EA:17:U:H5'	2.19	0.42
1:EA:560:U:HO2'	1:EA:561:U:P	2.43	0.42
1:EA:880:C:OP1	12:EL:8:ASN:N	2.52	0.42
2:EB:147:LYS:HD2	2:EB:147:LYS:N	2.34	0.42
2:EB:149:LEU:HD23	2:EB:153:ARG:HA	2.01	0.42
2:EB:41:ILE:HG22	2:EB:42:ILE:N	2.34	0.42
3:EC:120:VAL:O	3:EC:124:ILE:HG13	2.19	0.42
4:ED:201:GLN:NE2	5:EE:99:GLY:CA	2.66	0.42
1:EA:825:G:O2'	8:EH:12:ARG:HA	2.20	0.42
1:EA:1226:C:P	13:EM:91:ARG:HH12	2.41	0.42
3:EC:21:ARG:HA	14:EN:54:PRO:HB3	2.02	0.42
14:EN:53:LEU:HA	14:EN:54:PRO:HD2	1.85	0.42
15:EO:78:TYR:CD2	15:EO:79:ARG:HG3	2.53	0.42
1:EA:449:C:H4'	16:EP:43:LYS:O	2.18	0.42
47:F1:57:ASP:HB3	47:F1:58:LYS:H	1.48	0.42
29:FI:1:MET:HE3	47:F1:66:SER:HB2	2.01	0.42
22:FB:52:A:H2	50:F4:28:ARG:HH21	1.64	0.42
22:FB:2399:C:OP1	51:F5:33:ASN:CA	2.37	0.42
53:F7:77:LYS:NZ	53:F7:84:VAL:HB	2.33	0.42
23:FA:115:G:H1	36:FP:49:GLN:HG3	1.84	0.42
23:FA:9:G:H1'	23:FA:117:G:C2	2.55	0.42
22:FB:1035:G:H21	22:FB:1155:G:C5'	2.32	0.42
22:FB:118:U:H4'	22:FB:120:G:OP1	2.18	0.42
22:FB:1342:U:H5'	22:FB:1343:C:H5	1.84	0.42
22:FB:1619:A:O2'	22:FB:1620:C:H5'	2.19	0.42
22:FB:165:G:H2'	22:FB:166:G:C5	2.54	0.42
22:FB:1710:U:H5''	22:FB:1711:C:OP2	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:FB:1717:A:H3'	22:FB:1718:A:H8	1.83	0.42
22:FB:1781:C:H5''	24:FD:213:ARG:CZ	2.49	0.42
22:FB:220:U:OP1	51:F5:3:LYS:HG2	2.18	0.42
22:FB:2261:G:N1	22:FB:2404:A:N9	2.67	0.42
22:FB:2284:U:H3	27:FG:40:LEU:CD1	2.32	0.42
22:FB:2327:U:H2'	22:FB:2328:G:C8	2.54	0.42
22:FB:2403:C:H5'	22:FB:2404:A:OP1	2.19	0.42
22:FB:2406:C:H5''	22:FB:2408:G:H1'	2.02	0.42
22:FB:2409:A:H5''	22:FB:2410:U:OP2	2.19	0.42
22:FB:397:U:H2'	22:FB:398:C:O4'	2.19	0.42
22:FB:58:C:C3'	22:FB:59:G:H5''	2.50	0.42
22:FB:628:A:H2'	22:FB:629:C:H5'	2.00	0.42
22:FB:660:G:HO2'	51:F5:17:THR:CG2	1.96	0.42
22:FB:914:C:H2'	22:FB:915:C:H6	1.81	0.42
22:FB:2708:U:C1'	25:FE:21:ILE:HG21	2.44	0.42
22:FB:2614:A:H2'	25:FE:79:ARG:CG	2.48	0.42
26:FF:19:LEU:HD11	26:FF:108:ILE:O	2.19	0.42
26:FF:78:VAL:HG13	26:FF:78:VAL:O	2.19	0.42
27:FG:32:GLU:HB2	27:FG:159:THR:OG1	2.19	0.42
27:FG:70:ALA:CB	27:FG:85:VAL:HG21	2.43	0.42
31:FK:122:HIS:O	31:FK:123:PRO:C	2.58	0.42
33:FM:139:ARG:NH1	33:FM:141:VAL:HG21	2.34	0.42
34:FN:44:LYS:NZ	34:FN:46:ASN:HB3	2.34	0.42
22:FB:1290:A:C4'	35:FO:24:GLN:CG	2.97	0.42
36:FP:19:THR:O	36:FP:23:ALA:HB3	2.20	0.42
40:FT:56:LEU:O	48:F2:25:LEU:HD12	2.19	0.42
41:FU:15:LYS:O	41:FU:19:ALA:HB3	2.19	0.42
41:FU:38:ILE:HG23	41:FU:38:ILE:O	2.19	0.42
42:FV:32:GLN:HG2	42:FV:50:GLY:HA2	2.01	0.42
46:FZ:47:VAL:CG1	46:FZ:50:LEU:HD22	2.50	0.42
1:GA:1059:C:O3'	10:GJ:51:ARG:HB3	2.20	0.42
1:GA:1114:C:H2'	1:GA:1115:C:C6	2.54	0.42
1:GA:356:A:O2'	1:GA:357:G:H5'	2.19	0.42
1:GA:603:U:H2'	1:GA:604:G:C8	2.53	0.42
1:GA:799:G:H2'	1:GA:800:G:C8	2.55	0.42
1:GA:923:A:H5'	5:GE:21:ALA:HB2	2.01	0.42
2:GB:104:ASN:HB3	2:GB:108:ILE:HD12	2.02	0.42
2:GB:140:HIS:O	2:GB:143:GLU:HB2	2.20	0.42
2:GB:172:ILE:HG22	2:GB:176:GLU:CD	2.38	0.42
1:GA:1112:C:O2	3:GC:178:LEU:HB3	2.19	0.42
1:GA:736:C:O2'	6:GF:89:MET:SD	2.75	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:GF:4:TYR:HA	6:GF:93:SER:H	1.85	0.42
7:GG:15:ASP:CB	7:GG:20:ASP:H	2.33	0.42
8:GH:7:ALA:O	8:GH:11:THR:HG23	2.20	0.42
8:GH:45:ILE:HD12	8:GH:47:GLY:O	2.18	0.42
12:GL:72:GLY:CA	12:GL:102:ARG:HH11	2.30	0.42
13:GM:11:ARG:NH2	13:GM:46:LYS:HA	2.35	0.42
17:GQ:20:THR:HA	17:GQ:43:LEU:CD2	2.49	0.42
17:GQ:26:GLN:HB3	17:GQ:38:ARG:H	1.84	0.42
18:GR:39:VAL:HG23	18:GR:43:PHE:CD1	2.54	0.42
19:GS:11:VAL:HG22	19:GS:39:THR:HB	2.00	0.42
22:HB:1373:G:C2'	47:H1:52:THR:HG23	2.46	0.42
53:H7:128:LEU:HD12	53:H7:133:LYS:HB2	2.01	0.42
22:HB:1207:G:O2'	22:HB:1208:A:H5'	2.19	0.42
22:HB:1762:C:O2'	22:HB:1763:G:H5'	2.19	0.42
22:HB:179:U:H6	22:HB:179:U:O5'	2.02	0.42
22:HB:2062:U:H2'	22:HB:2063:A:H8	1.82	0.42
22:HB:2327:U:H2'	22:HB:2328:G:C8	2.54	0.42
22:HB:642:A:N1	22:HB:2394:G:N3	2.67	0.42
22:HB:1040:A:H2	22:HB:2464:G:H21	1.65	0.42
22:HB:2481:G:H5''	22:HB:2482:A:C5'	2.49	0.42
22:HB:2015:G:C2	22:HB:2551:A:H2	2.38	0.42
22:HB:427:C:H2'	22:HB:428:A:C8	2.54	0.42
22:HB:340:G:H4'	22:HB:488:A:O4'	2.19	0.42
22:HB:508:G:OP2	40:HT:19:LYS:CE	2.63	0.42
22:HB:569:C:H2'	22:HB:570:G:O4'	2.19	0.42
22:HB:60:A:C6	22:HB:93:A:N3	2.86	0.42
22:HB:643:A:H2'	22:HB:644:A:O4'	2.18	0.42
22:HB:701:U:C2'	22:HB:702:A:H5'	2.50	0.42
22:HB:825:C:H5''	22:HB:1263:G:H2'	2.02	0.42
24:HD:67:PHE:HD2	24:HD:103:ARG:NH2	2.16	0.42
25:HE:119:ARG:NH2	25:HE:119:ARG:HB2	2.34	0.42
26:HF:78:VAL:HG13	26:HF:78:VAL:O	2.19	0.42
29:HI:4:ILE:HG22	29:HI:5:LEU:H	1.84	0.42
31:HK:44:VAL:HG12	31:HK:45:ASP:N	2.34	0.42
31:HK:96:ASP:OD1	31:HK:117:GLU:HB2	2.18	0.42
32:HL:25:LEU:HB2	32:HL:52:VAL:HG23	2.02	0.42
33:HM:59:ARG:O	33:HM:61:PRO:HD3	2.19	0.42
35:HO:15:SER:O	35:HO:19:ALA:HB3	2.19	0.42
22:HB:1307:U:HO2'	35:HO:23:ALA:HB2	1.76	0.42
22:HB:2795:A:OP1	35:HO:5:LYS:HB2	2.19	0.42
39:HS:32:LYS:HA	39:HS:63:HIS:O	2.18	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:HT:115:ASN:OD1	40:HT:117:ILE:HG23	2.19	0.42
41:HU:38:ILE:HG23	41:HU:38:ILE:O	2.19	0.42
46:HZ:34:VAL:HG22	46:HZ:35:SER:N	2.34	0.42
1:IA:1257:U:H4'	1:IA:1258:G:C5'	2.50	0.42
1:IA:1305:G:H21	1:IA:1331:G:H2'	1.83	0.42
1:IA:1483:A:H1'	22:JB:1930:C:O2	2.19	0.42
1:IA:147:G:O2'	1:IA:148:G:H5'	2.19	0.42
1:IA:326:G:H2'	1:IA:327:A:H5'	2.00	0.42
1:IA:666:G:O2'	1:IA:667:G:H5'	2.18	0.42
1:IA:683:G:H2'	1:IA:684:A:H8	1.83	0.42
1:IA:755:G:H2'	1:IA:756:C:C5	2.54	0.42
1:IA:948:C:N4	1:IA:949:A:H62	2.18	0.42
1:IA:959:A:H2'	1:IA:960:U:C4'	2.48	0.42
1:IA:988:G:H2'	1:IA:989:C:O4'	2.20	0.42
2:IB:77:ALA:O	2:IB:81:VAL:HG23	2.18	0.42
10:IJ:46:ARG:HH11	14:IN:59:ALA:CA	2.31	0.42
1:IA:684:A:C1'	11:IK:38:ASN:CA	2.97	0.42
11:IK:50:TYR:OH	11:IK:57:THR:HG23	2.20	0.42
11:IK:91:ARG:N	11:IK:91:ARG:HD2	2.32	0.42
1:IA:392:G:P	16:IP:11:SER:O	2.71	0.42
1:IA:845:A:HO2'	18:IR:23:LYS:HZ2	1.66	0.42
22:JB:1999:U:C5'	48:J2:3:LYS:HB3	2.50	0.42
22:JB:2264:C:C4'	49:J3:30:ASN:ND2	2.68	0.42
50:J4:8:ASN:HD21	50:J4:10:ARG:HE	1.66	0.42
53:J7:66:VAL:O	53:J7:84:VAL:HG13	2.18	0.42
23:JA:10:U:C1'	36:JP:49:GLN:HB2	2.49	0.42
22:JB:1169:C:O2'	46:JZ:29:GLY:HA3	2.20	0.42
22:JB:1173:G:N3	39:JS:88:GLN:NE2	2.64	0.42
22:JB:1265:G:C2	38:JR:32:TYR:CD1	3.06	0.42
22:JB:1917:C:H42	22:JB:1950:C:N4	2.17	0.42
22:JB:1949:A:N3	22:JB:2571:G:C2'	2.81	0.42
22:JB:1995:G:O3'	40:JT:117:ILE:HG22	2.19	0.42
22:JB:971:A:H4'	22:JB:2435:C:O2'	2.19	0.42
22:JB:2481:G:H5''	22:JB:2482:A:C5'	2.49	0.42
22:JB:2635:U:H3'	28:JH:181:GLY:HA2	1.98	0.42
22:JB:2784:A:H3'	22:JB:2784:A:N3	2.34	0.42
22:JB:1743:C:H4'	22:JB:2836:U:O3'	2.18	0.42
22:JB:3175:C:O4'	53:J7:31:GLU:CD	2.57	0.42
22:JB:397:U:H2'	22:JB:398:C:O4'	2.19	0.42
22:JB:631:G:C6	33:JM:96:TYR:HD2	2.17	0.42
22:JB:641:G:O6	51:J5:15:LYS:CE	2.67	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:JB:648:A:P	33:JM:131:LYS:HZ3	2.41	0.42
22:JB:693:A:H2'	22:JB:694:G:C8	2.54	0.42
22:JB:76:C:H2'	22:JB:77:C:O4'	2.19	0.42
22:JB:872:G:H1'	22:JB:2247:A:C2	2.53	0.42
22:JB:861:G:C2	22:JB:944:A:H1'	2.55	0.42
24:JD:67:PHE:HD2	24:JD:103:ARG:NH2	2.16	0.42
25:JE:40:GLN:C	25:JE:42:ASP:N	2.73	0.42
30:JJ:24:GLY:C	30:JJ:26:ALA:H	2.23	0.42
31:JK:131:VAL:HG22	31:JK:131:VAL:O	2.19	0.42
31:JK:71:THR:O	31:JK:72:PRO:O	2.37	0.42
34:JN:44:LYS:HB3	34:JN:44:LYS:HZ2	1.82	0.42
34:JN:98:VAL:HG22	34:JN:99:LYS:H	1.82	0.42
23:JA:53:G:H5''	36:JP:63:ASN:ND2	2.33	0.42
36:JP:80:ALA:O	36:JP:84:ILE:HA	2.19	0.42
1:AA:1228:C:H6	13:AM:117:VAL:HG11	1.84	0.42
1:AA:1257:U:H4'	1:AA:1258:G:C5'	2.50	0.42
1:AA:636:U:H2'	1:AA:637:G:O4'	2.19	0.42
1:AA:812:C:H4'	1:AA:813:U:C5'	2.49	0.42
1:AA:922:G:H1'	5:AE:20:GLN:HA	2.02	0.42
1:AA:958:A:N3	19:AS:55:LYS:HB3	2.34	0.42
1:AA:986:A:H2'	1:AA:987:G:C8	2.54	0.42
2:AB:115:LEU:HG	2:AB:153:ARG:HH21	1.83	0.42
3:AC:5:ILE:HB	3:AC:6:HIS:H	1.68	0.42
6:AF:10:LEU:HB2	6:AF:11:ASN:H	1.56	0.42
6:AF:80:ARG:HH21	6:AF:87:ARG:HA	1.83	0.42
12:AL:5:PRO:N	12:AL:9:GLN:HG3	2.35	0.42
1:AA:43:C:H5''	16:AP:12:LYS:CE	2.34	0.42
17:AQ:26:GLN:HG2	17:AQ:38:ARG:H	1.84	0.42
18:AR:45:SER:C	18:AR:47:THR:H	2.22	0.42
19:AS:73:GLU:HG2	19:AS:74:PHE:CD1	2.54	0.42
19:AS:5:LEU:HD21	19:AS:9:VAL:HG22	2.01	0.42
20:AT:102:GLY:C	1:GA:181:G:OP1	2.58	0.42
22:BB:2040:A:C5'	48:B2:8:LYS:HZ1	2.32	0.42
22:BB:2340:C:H6	51:B5:26:LYS:HZ3	1.63	0.42
22:BB:2338:C:P	51:B5:50:LEU:HD22	2.59	0.42
51:B5:3:LYS:CE	51:B5:5:LYS:HE3	2.49	0.42
53:B7:77:LYS:HE2	53:B7:84:VAL:HB	2.00	0.42
22:BB:1035:G:H21	22:BB:1155:G:C5'	2.32	0.42
22:BB:1042:G:H5'	52:B6:8:LYS:HB2	1.88	0.42
22:BB:1149:G:OP2	31:BK:132:PHE:CE1	2.72	0.42
22:BB:1197:U:O3'	22:BB:1198:C:OP1	2.37	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:BB:1261:G:N7	38:BR:2:PRO:CB	2.78	0.42
22:BB:1480:G:N3	22:BB:1561:A:C2	2.84	0.42
22:BB:1573:G:H3'	22:BB:1574:A:O4'	2.19	0.42
22:BB:1619:A:O2'	22:BB:1620:C:H5'	2.19	0.42
22:BB:1816:G:H22	24:BD:252:LYS:CE	2.29	0.42
22:BB:2007:G:H2'	22:BB:2008:C:C6	2.55	0.42
22:BB:2056:C:H2'	22:BB:2057:U:C6	2.54	0.42
22:BB:2229:G:H2'	34:BN:84:MET:HB3	2.00	0.42
22:BB:2351:G:O2'	22:BB:2352:A:H5'	2.18	0.42
22:BB:79:G:O2'	22:BB:305:A:N1	2.51	0.42
22:BB:505:G:C2'	40:BT:82:ASN:HB3	2.28	0.42
22:BB:507:A:H2'	22:BB:508:G:H8	1.84	0.42
22:BB:58:C:C3'	22:BB:59:G:H5''	2.50	0.42
22:BB:638:A:H61	22:BB:647:G:H2'	1.84	0.42
22:BB:718:A:C2	22:BB:740:A:C1'	3.02	0.42
22:BB:76:C:H2'	22:BB:77:C:O4'	2.19	0.42
22:BB:922:A:H1'	22:BB:2244:C:OP1	2.20	0.42
24:BD:22:SER:HA	24:BD:206:LEU:C	2.40	0.42
24:BD:218:LYS:HA	24:BD:219:PRO:HD3	1.79	0.42
22:BB:1796:A:H1'	24:BD:52:ARG:H	1.84	0.42
25:BE:58:LYS:NZ	25:BE:58:LYS:HB2	2.31	0.42
27:BG:96:MET:HA	27:BG:99:PHE:HB2	2.01	0.42
22:BB:2646:C:C1'	28:BH:111:HIS:CB	2.82	0.42
28:BH:125:VAL:N	28:BH:126:PRO:HD2	2.34	0.42
22:BB:2726:U:OP1	28:BH:141:VAL:HG23	2.06	0.42
30:BJ:28:GLY:O	30:BJ:34:ILE:HD11	2.18	0.42
31:BK:141:GLY:C	31:BK:143:ALA:H	2.22	0.42
22:BB:6:A:C2'	31:BK:161:GLN:HE22	2.32	0.42
32:BL:123:PHE:CG	32:BL:124:MET:N	2.88	0.42
32:BL:71:LYS:HE3	32:BL:101:ASN:CG	2.39	0.42
41:BU:43:GLN:OE1	41:BU:49:ARG:HA	2.19	0.42
42:BV:83:LEU:HD12	42:BV:92:THR:HG21	2.00	0.42
43:BW:124:ALA:N	43:BW:125:PRO:HD2	2.35	0.42
1:CA:1239:A:O2'	7:CG:115:ARG:NE	2.49	0.42
1:CA:129(A):G:H5''	1:CA:130:A:H2'	2.01	0.42
1:CA:1333:A:H4'	13:CM:114:ARG:CZ	2.49	0.42
1:CA:1349:A:OP1	9:CI:118:LYS:C	2.54	0.42
1:CA:1360:A:OP1	14:CN:20:ALA:O	2.38	0.42
1:CA:16:A:O2'	1:CA:17:U:H5'	2.19	0.42
1:CA:413:G:N2	4:CD:31:CYS:HA	2.34	0.42
4:CD:60:GLU:HG3	4:CD:203:VAL:CG2	2.49	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:753:A:O2'	8:CH:1:MET:HB2	2.18	0.42
8:CH:1:MET:HG2	8:CH:2:LEU:N	2.32	0.42
9:CI:26:VAL:CG2	9:CI:61:ALA:H	2.32	0.42
11:CK:50:TYR:OH	11:CK:57:THR:HG23	2.20	0.42
12:CL:5:PRO:N	12:CL:9:GLN:HG3	2.35	0.42
14:CN:53:LEU:HA	14:CN:54:PRO:HD2	1.84	0.42
10:CJ:65:LEU:CD1	14:CN:55:GLY:O	2.64	0.42
17:CQ:9:VAL:HG13	17:CQ:56:VAL:HG22	2.00	0.42
49:D3:47:HIS:O	49:D3:48:VAL:HG12	2.18	0.42
22:DB:931:G:C5'	23:DA:83:C:O4'	2.67	0.42
22:DB:1033:G:O6	31:DK:91:THR:HG21	2.19	0.42
22:DB:1710:U:H5''	22:DB:1711:C:OP2	2.20	0.42
22:DB:1784:C:O2'	22:DB:1785:A:H5'	2.19	0.42
22:DB:1937:G:N3	22:DB:1937:G:H2'	2.34	0.42
22:DB:760:U:N3	22:DB:1997:A:H1'	2.25	0.42
22:DB:2007:G:H2'	22:DB:2008:C:C6	2.55	0.42
22:DB:201:G:H2'	22:DB:202:A:C8	2.54	0.42
22:DB:2510:A:C4'	28:DH:157:TYR:OH	2.67	0.42
22:DB:3190:G:H2'	22:DB:3191:A:O4'	2.20	0.42
22:DB:58:C:C3'	22:DB:59:G:H5''	2.50	0.42
22:DB:614:G:H4'	22:DB:669:G:H21	1.85	0.42
22:DB:639:G:H2'	22:DB:640:C:C6	2.55	0.42
22:DB:693:A:H2'	22:DB:694:G:C8	2.54	0.42
22:DB:791:G:H2'	22:DB:792:U:H6	1.85	0.42
22:DB:887:G:H5''	43:DW:148:THR:HG22	2.01	0.42
22:DB:976:C:H2'	22:DB:977:G:C8	2.53	0.42
24:DD:68:LYS:HE2	24:DD:106:LEU:HD23	2.01	0.42
24:DD:22:SER:HA	24:DD:206:LEU:HA	2.01	0.42
26:DF:30:VAL:O	26:DF:30:VAL:HG22	2.18	0.42
27:DG:77:PHE:O	27:DG:78:LYS:HE3	2.18	0.42
27:DG:96:MET:HA	27:DG:99:PHE:HB2	2.01	0.42
28:DH:89:LEU:HD22	28:DH:161:GLY:CA	2.50	0.42
31:DK:122:HIS:O	31:DK:123:PRO:C	2.58	0.42
32:DL:123:PHE:CG	32:DL:124:MET:N	2.87	0.42
32:DL:21:CYS:HA	32:DL:53:ALA:CA	2.50	0.42
35:DO:104:ARG:HH22	40:DT:58:ARG:HH22	1.66	0.42
35:DO:108:VAL:O	35:DO:108:VAL:HG13	2.19	0.42
43:DW:115:ILE:HG22	43:DW:116:VAL:N	2.35	0.42
34:DN:38:MET:H	43:DW:74:ARG:HG2	1.65	0.42
45:DY:39:GLN:OE1	45:DY:42:ARG:HD2	2.19	0.42
1:EA:1091:U:OP1	1:EA:1172:C:H4'	2.18	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:EA:1257:U:H4'	1:EA:1258:G:C5'	2.49	0.42
1:EA:1316:G:N3	1:EA:1318:A:H8	2.17	0.42
1:EA:201:G:H2'	1:EA:202:G:C8	2.54	0.42
1:EA:539:A:H2'	1:EA:540:G:O4'	2.20	0.42
1:EA:688:G:H2'	1:EA:689:C:C6	2.54	0.42
1:EA:759:A:C5	17:EQ:103:GLY:N	2.69	0.42
1:EA:863:U:N3	1:EA:865:A:H5''	2.35	0.42
1:EA:877:C:H5'	8:EH:84:ARG:CG	2.49	0.42
1:EA:8:A:N6	4:ED:206:PHE:HA	2.35	0.42
6:EF:50:TYR:CD1	18:ER:80:PRO:CB	3.01	0.42
1:EA:643:C:C2	8:EH:132:GLU:N	2.83	0.42
1:EA:653:A:H61	8:EH:27:PRO:HB2	1.84	0.42
11:EK:50:TYR:CD2	11:EK:54:ARG:HB3	2.54	0.42
1:EA:689:C:OP1	11:EK:55:LYS:NZ	2.52	0.42
17:EQ:48:GLU:OE2	17:EQ:50:LYS:HD2	2.18	0.42
17:EQ:9:VAL:O	17:EQ:11:VAL:HG13	2.18	0.42
18:ER:39:VAL:HG23	18:ER:43:PHE:CD1	2.54	0.42
47:F1:41:PRO:CG	47:F1:57:ASP:HA	2.49	0.42
22:FB:1636:G:N9	50:F4:1:MET:N	2.58	0.42
53:F7:33:ILE:HD12	53:F7:206:LYS:CE	2.49	0.42
22:FB:1452:U:H2'	22:FB:1453:A:C8	2.49	0.42
22:FB:1508:G:OP2	24:FD:101:GLU:CD	2.57	0.42
22:FB:1544:A:C5	22:FB:1545:G:H1'	2.54	0.42
22:FB:2466:G:H2'	22:FB:2467:A:H8	1.83	0.42
22:FB:2653:A:C5'	32:FL:44:TYR:CZ	3.01	0.42
22:FB:2745:A:C5	22:FB:2746:G:C1'	3.01	0.42
22:FB:2850:U:H2'	22:FB:2851:G:O4'	2.20	0.42
22:FB:348:U:H4'	42:FV:13:LYS:CG	2.49	0.42
22:FB:491:A:H4'	42:FV:55:THR:CA	2.45	0.42
22:FB:832:A:H2'	22:FB:833:A:C8	2.51	0.42
22:FB:976:C:H2'	22:FB:977:G:C8	2.53	0.42
24:FD:105:ILE:HD13	24:FD:106:LEU:H	1.84	0.42
24:FD:120:GLY:O	24:FD:121:PRO:C	2.57	0.42
25:FE:30:PRO:HB3	25:FE:50:GLY:O	2.20	0.42
26:FF:30:VAL:HG22	26:FF:30:VAL:O	2.18	0.42
28:FH:144:VAL:HA	28:FH:147:ASN:OD1	2.19	0.42
28:FH:19:ALA:HB1	28:FH:44:ARG:HE	1.85	0.42
29:FI:8:PRO:HB2	29:FI:9:SER:H	1.60	0.42
32:FL:83:ARG:HH12	37:FQ:81:PHE:CB	2.25	0.42
34:FN:35:LEU:HD22	34:FN:102:ARG:HD3	2.00	0.42
34:FN:37:ALA:O	34:FN:38:MET:HB3	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:FR:101:ARG:HB3	38:FR:102:GLU:H	1.73	0.42
39:FS:22:VAL:HG13	39:FS:90:PHE:CZ	2.54	0.42
43:FW:124:ALA:N	43:FW:125:PRO:HD2	2.35	0.42
44:FX:80:SER:HB3	44:FX:83:ALA:HB3	2.01	0.42
46:FZ:34:VAL:HG22	46:FZ:35:SER:N	2.34	0.42
1:GA:1257:U:H4'	1:GA:1258:G:C5'	2.50	0.42
1:GA:129(A):G:H5''	1:GA:130:A:H2'	2.01	0.42
1:AA:182:U:C2'	1:GA:189:A:C8	2.64	0.42
1:GA:326:G:H2'	1:GA:327:A:H5'	2.00	0.42
1:GA:35:G:O2'	12:GL:117:ARG:C	2.57	0.42
1:GA:544:G:H22	1:GA:549:C:H4'	1.82	0.42
1:GA:775:G:H2'	1:GA:776:G:C8	2.54	0.42
1:GA:816:A:O3'	1:GA:817:C:H2'	2.19	0.42
1:GA:898:G:H2'	1:GA:900:A:OP2	2.19	0.42
1:GA:932:C:C4'	7:GG:4:ARG:CZ	2.95	0.42
1:GA:986:A:H2'	1:GA:987:G:C8	2.54	0.42
3:GC:39:ILE:HG12	3:GC:94:LEU:HD13	2.02	0.42
5:GE:130:ASN:HA	5:GE:133:TYR:CE1	2.54	0.42
9:GI:26:VAL:CG2	9:GI:61:ALA:H	2.33	0.42
10:GJ:7:LYS:O	10:GJ:8:LEU:HD23	2.19	0.42
11:GK:21:ILE:HB	11:GK:83:ILE:O	2.19	0.42
1:GA:1226:C:C4	13:GM:104:ARG:CB	3.02	0.42
13:GM:88:ARG:NH2	19:GS:2:PRO:HG3	2.34	0.42
15:GO:78:TYR:CE2	15:GO:79:ARG:HG3	2.54	0.42
16:GP:45:THR:HB	16:GP:46:PRO:HD2	2.00	0.42
19:GS:17:GLU:O	19:GS:21:GLU:HG3	2.19	0.42
19:GS:52:TYR:C	19:GS:53:ASN:HD22	2.23	0.42
22:HB:2861:A:N1	48:H2:40:LYS:CG	2.80	0.42
53:H7:112:ILE:HD12	53:H7:135:PRO:HB3	2.02	0.42
23:HA:111:C:H5''	23:HA:112:A:H5''	2.01	0.42
22:HB:1087:C:H2'	22:HB:1088:A:C8	2.54	0.42
22:HB:1194:U:H4'	22:HB:1195:U:OP1	2.20	0.42
22:HB:1338:G:N3	40:HT:117:ILE:HD13	2.33	0.42
22:HB:1381:G:H2'	22:HB:1382:G:C8	2.55	0.42
22:HB:1385:C:H5''	22:HB:2192:U:C4	2.55	0.42
22:HB:1377:G:H4'	22:HB:1800:A:C8	2.54	0.42
22:HB:1897:C:H2'	22:HB:1898:U:H5'	2.01	0.42
22:HB:1672:A:N6	22:HB:1987:G:N2	2.68	0.42
22:HB:2282:G:H21	27:HG:129:ASN:HD22	1.66	0.42
22:HB:2469:G:H5''	22:HB:2470:U:C5	2.54	0.42
22:HB:2503:G:N9	22:HB:2744:A:C2	2.59	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:HB:2576:G:OP1	24:HD:239:ARG:NH1	2.52	0.42
22:HB:2659:C:C5'	25:HE:191:ALA:HA	2.49	0.42
22:HB:397:U:H2'	22:HB:398:C:O4'	2.19	0.42
22:HB:486:U:H2'	22:HB:487:G:C8	2.54	0.42
22:HB:693:A:H2'	22:HB:694:G:C8	2.54	0.42
22:HB:57:G:C2'	22:HB:72:A:N7	2.82	0.42
22:HB:907:U:H2'	22:HB:909:C:C6	2.54	0.42
22:HB:94:C:O5'	45:HY:41:HIS:HB2	2.19	0.42
6:GF:81:ILE:CG2	24:HD:137:PRO:HB2	2.49	0.42
22:HB:1805:G:O3'	24:HD:52:ARG:NH1	2.47	0.42
25:HE:143:GLN:CB	25:HE:144:ARG:HE	2.32	0.42
25:HE:5:LEU:CD1	25:HE:28:ALA:H	2.20	0.42
25:HE:30:PRO:HB3	25:HE:50:GLY:O	2.20	0.42
22:HB:2008:C:O4'	31:HK:103:TYR:HE2	2.02	0.42
31:HK:43:VAL:HG21	31:HK:165:VAL:HA	2.00	0.42
32:HL:98:ILE:HG23	32:HL:98:ILE:O	2.19	0.42
34:HN:44:LYS:NZ	34:HN:46:ASN:HB3	2.34	0.42
36:HP:96:TYR:CE1	36:HP:100:VAL:HB	2.54	0.42
37:HQ:7:ILE:HG22	37:HQ:9:ARG:HG3	2.01	0.42
44:HX:31:VAL:HG12	44:HX:32:LYS:CG	2.50	0.42
1:IA:1149:C:H5''	9:II:12:GLU:HG2	1.99	0.42
1:IA:1227:A:OP1	19:IS:80:TYR:CE2	2.73	0.42
1:IA:1306:A:H2'	1:IA:1307:U:H5'	2.02	0.42
1:IA:1484:C:H4'	22:JB:1944:C:H5'	2.01	0.42
1:IA:292:G:N7	1:IA:305:G:N2	2.67	0.42
1:IA:359:U:H2'	1:IA:360:A:O4'	2.18	0.42
1:IA:667:G:H4'	15:IO:51:HIS:HB2	2.00	0.42
1:IA:707:C:H4'	11:IK:20:TYR:HB3	2.01	0.42
1:IA:932:C:OP1	7:IG:4:ARG:CG	2.67	0.42
1:IA:986:A:H2'	1:IA:987:G:C8	2.54	0.42
2:IB:115:LEU:HG	2:IB:153:ARG:HH21	1.83	0.42
3:IC:152:ILE:HB	3:IC:199:LYS:HB2	2.02	0.42
4:ID:10:ARG:NH2	4:ID:14:ARG:HE	2.17	0.42
1:IA:598:U:O2'	8:IH:95:VAL:HG23	2.19	0.42
11:IK:21:ILE:HB	11:IK:83:ILE:O	2.19	0.42
12:IL:11:VAL:HB	17:IQ:36:ILE:CD1	2.47	0.42
13:IM:78:ILE:HG23	13:IM:81:LEU:HG	2.02	0.42
17:IQ:32:TYR:O	17:IQ:34:LYS:N	2.52	0.42
17:IQ:9:VAL:HG13	17:IQ:56:VAL:HG22	2.00	0.42
19:IS:52:TYR:C	19:IS:53:ASN:HD22	2.23	0.42
1:IA:1441:G:C6	20:IT:27:LYS:HE3	2.53	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:JB:2375:G:C5	51:J5:31:HIS:CE1	3.05	0.42
53:J7:112:ILE:HD12	53:J7:135:PRO:HB3	2.02	0.42
53:J7:55:PRO:HD2	53:J7:182:ASN:ND2	2.35	0.42
53:J7:77:LYS:HE2	53:J7:84:VAL:HB	2.00	0.42
23:JA:115:G:H22	36:JP:49:GLN:HE22	1.53	0.42
22:JB:1007:A:O3'	38:JR:93:LYS:CD	2.67	0.42
22:JB:1040:A:N9	22:JB:2465:G:C4'	2.80	0.42
22:JB:1049:C:N3	22:JB:1129:A:C4	2.88	0.42
22:JB:123:A:O2'	50:J4:14:LYS:CG	2.67	0.42
22:JB:1785:A:H1'	22:JB:1883:A:C2	2.54	0.42
22:JB:1672:A:N6	22:JB:1987:G:N2	2.68	0.42
22:JB:2284:U:N3	22:JB:2290:A:N6	2.67	0.42
22:JB:2529:G:O6	22:JB:2538:C:N4	2.53	0.42
22:JB:2562:G:H3'	22:JB:2563:U:C6	2.54	0.42
22:JB:2828:C:H2'	22:JB:2829:A:C8	2.54	0.42
22:JB:486:U:H2'	22:JB:487:G:C8	2.55	0.42
22:JB:569:C:H2'	22:JB:570:G:O4'	2.19	0.42
22:JB:959:C:OP1	22:JB:972:C:H4'	2.20	0.42
22:JB:974:U:H5'	22:JB:2476:A:OP1	2.19	0.42
22:JB:990:A:H2'	22:JB:993:C:H41	1.83	0.42
24:JD:141:VAL:HB	24:JD:195:ALA:HA	2.02	0.42
24:JD:213:ARG:NE	24:JD:219:PRO:HA	2.30	0.42
25:JE:105:THR:O	25:JE:196:VAL:HG22	2.19	0.42
25:JE:1:MET:C	25:JE:2:LYS:HD3	2.40	0.42
27:JG:96:MET:HA	27:JG:99:PHE:HB2	2.02	0.42
28:JH:144:VAL:HA	28:JH:147:ASN:OD1	2.19	0.42
22:JB:1072:U:H2'	30:JJ:11:GLN:NE2	2.32	0.42
30:JJ:111:LYS:HZ3	30:JJ:123:ALA:HA	1.85	0.42
32:JL:83:ARG:HD3	32:JL:85:ASP:CB	2.48	0.42
33:JM:75:VAL:HG22	33:JM:76:LYS:H	1.83	0.42
35:JO:22:ARG:HH11	35:JO:22:ARG:HG3	1.84	0.42
22:JB:2685:A:C2'	35:JO:64:ARG:HD2	2.48	0.42
22:JB:2810:A:C2'	37:JQ:6:LYS:CG	2.86	0.42
22:JB:1174:G:C2	39:JS:88:GLN:HA	2.52	0.42
41:JU:27:PHE:HB3	41:JU:28:TRP:H	1.69	0.42
42:JV:36:VAL:HG12	42:JV:37:LEU:N	2.33	0.42
43:JW:124:ALA:N	43:JW:125:PRO:HD2	2.34	0.42
43:JW:127:PRO:HB2	43:JW:128:ARG:H	1.66	0.42
43:JW:72:ASP:HB2	43:JW:77:ALA:C	2.39	0.42
1:AA:1072:G:H2'	1:AA:1073:U:C6	2.54	0.42
1:AA:1106:G:OP1	3:AC:172:ARG:CG	2.59	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1249:C:O2'	9:AI:69:GLY:C	2.58	0.42
1:AA:1316:G:N3	1:AA:1318:A:H8	2.17	0.42
1:AA:1392:G:HO2'	1:AA:1502:A:H5''	1.83	0.42
1:AA:292:G:N7	1:AA:305:G:N2	2.67	0.42
1:AA:863:U:N3	1:AA:865:A:H5''	2.35	0.42
1:AA:903:G:H2'	1:AA:904:C:H6	1.84	0.42
1:AA:959:A:H2'	1:AA:960:U:C4'	2.48	0.42
1:AA:964:A:O3'	10:AJ:55:LYS:CD	2.67	0.42
1:AA:975:A:H5''	1:AA:1357:A:H2	1.85	0.42
2:AB:147:LYS:N	2:AB:147:LYS:HD2	2.34	0.42
4:AD:10:ARG:HH12	4:AD:11:LEU:HB3	1.84	0.42
7:AG:103:TRP:CZ2	7:AG:138:LYS:HA	2.54	0.42
7:AG:23:VAL:C	7:AG:25:ALA:H	2.22	0.42
9:AI:78:LYS:O	9:AI:102:LEU:HB3	2.19	0.42
10:AJ:38:ILE:O	10:AJ:38:ILE:HG13	2.19	0.42
11:AK:104:GLN:HG2	11:AK:105:VAL:H	1.84	0.42
1:AA:529:G:C6	12:AL:46:LYS:HB3	2.53	0.42
12:AL:68:ALA:HB3	12:AL:100:ILE:HD11	2.01	0.42
14:AN:33:VAL:CG1	14:AN:40:CYS:HB3	2.48	0.42
20:AT:102:GLY:CA	1:GA:180:U:O3'	2.67	0.42
47:B1:11:PRO:O	47:B1:12:CYS:HB2	2.19	0.42
22:BB:2411:A:N1	47:B1:29:PRO:HA	2.35	0.42
51:B5:31:HIS:HB3	51:B5:32:GLN:H	1.62	0.42
23:BA:20:A:O2'	23:BA:21:C:H5'	2.20	0.42
23:BA:71:G:H2'	23:BA:71:G:N3	2.34	0.42
22:BB:106:G:H5'	22:BB:304:A:C2	2.54	0.42
22:BB:123:A:O4'	50:B4:13:ALA:CB	2.67	0.42
22:BB:1326:U:H5''	22:BB:1345:G:C4'	2.49	0.42
22:BB:1424:U:H2'	22:BB:1425:G:C8	2.54	0.42
22:BB:1717:A:H3'	22:BB:1718:A:H8	1.83	0.42
22:BB:1829:C:H1'	22:BB:1911:A:H1'	1.03	0.42
22:BB:2372:A:O4'	33:BM:60:LEU:HD12	2.20	0.42
22:BB:2403:C:H5'	22:BB:2404:A:OP1	2.19	0.42
22:BB:2727:G:H1'	22:BB:2736:U:H5	1.82	0.42
22:BB:2752:C:H2'	22:BB:2753:C:C6	2.55	0.42
22:BB:418:C:OP1	53:B7:1:MET:HE3	2.19	0.42
22:BB:701:U:C2'	22:BB:702:A:H5'	2.49	0.42
22:BB:709:A:H2'	22:BB:710:C:C6	2.55	0.42
22:BB:811:G:P	26:BF:54:THR:C	2.96	0.42
22:BB:742:G:H5''	24:BD:17:THR:HG22	2.01	0.42
25:BE:119:ARG:HB2	25:BE:119:ARG:NH2	2.35	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BE:116:VAL:HG22	25:BE:155:ARG:O	2.20	0.42
25:BE:30:PRO:HB3	25:BE:50:GLY:O	2.20	0.42
25:BE:59:VAL:O	25:BE:63:MET:HG2	2.20	0.42
26:BF:30:VAL:O	26:BF:30:VAL:HG22	2.18	0.42
27:BG:106:ILE:HG12	27:BG:137:ILE:O	2.20	0.42
27:BG:32:GLU:HB2	27:BG:159:THR:OG1	2.19	0.42
27:BG:69:LYS:HZ1	27:BG:72:LYS:CA	2.32	0.42
27:BG:77:PHE:O	27:BG:78:LYS:HE3	2.19	0.42
28:BH:111:HIS:HA	28:BH:112:PRO:HD2	1.85	0.42
28:BH:155:ASP:O	28:BH:160:LYS:HD2	2.18	0.42
28:BH:29:PRO:HG2	28:BH:79:VAL:HA	2.00	0.42
31:BK:43:VAL:HG21	31:BK:165:VAL:HA	2.01	0.42
31:BK:44:VAL:HG12	31:BK:45:ASP:N	2.34	0.42
33:BM:139:ARG:NH1	33:BM:141:VAL:HG21	2.34	0.42
22:BB:682:G:O3'	33:BM:45:LYS:NZ	2.53	0.42
35:BO:112:LEU:HD22	35:BO:113:ILE:C	2.40	0.42
37:BQ:18:GLN:HA	37:BQ:21:THR:HG23	2.00	0.42
37:BQ:67:THR:CB	37:BQ:82:PRO:HB3	2.49	0.42
38:BR:33:ARG:HH21	38:BR:34:ASN:ND2	2.15	0.42
22:BB:503:G:C1'	40:BT:28:ALA:HA	2.49	0.42
41:BU:54:SER:CB	41:BU:79:ILE:HB	2.49	0.42
42:BV:92:THR:O	42:BV:107:ALA:HA	2.20	0.42
43:BW:72:ASP:HB2	43:BW:77:ALA:C	2.39	0.42
1:CA:1062:U:H2'	1:CA:1063:C:C5	2.54	0.42
1:CA:1091:U:OP1	1:CA:1172:C:H4'	2.18	0.42
1:CA:1257:U:H4'	1:CA:1258:G:C5'	2.50	0.42
1:CA:173:U:H6	1:CA:198:G:HO2'	1.66	0.42
1:CA:279:A:C1'	17:CQ:95:TYR:CE2	2.99	0.42
1:CA:329:A:O3'	1:CA:330:C:H4'	2.19	0.42
1:CA:815:A:N7	1:CA:1529:G:N7	2.67	0.42
2:CB:145:LEU:HA	2:CB:148:TYR:CD1	2.55	0.42
3:CC:22:TRP:CZ2	14:CN:54:PRO:HG3	2.54	0.42
9:CI:70:LYS:HA	9:CI:73:GLN:OE1	2.20	0.42
10:CJ:5:ARG:H	10:CJ:100:THR:HA	1.83	0.42
1:CA:280:C:N4	17:CQ:88:TYR:CD2	2.87	0.42
17:CQ:9:VAL:HG22	17:CQ:56:VAL:HG22	2.01	0.42
19:CS:73:GLU:HG2	19:CS:74:PHE:CD1	2.54	0.42
47:D1:58:LYS:C	47:D1:60:ASN:H	2.22	0.42
22:DB:124:A:C6	50:D4:18:PHE:CE2	3.05	0.42
53:D7:111:LEU:HD22	53:D7:148:ILE:HA	2.01	0.42
53:D7:112:ILE:HD12	53:D7:135:PRO:HB3	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:DB:876:A:H1'	23:DA:102:A:H2	1.83	0.42
23:DA:111:C:H5''	23:DA:112:A:H5''	2.02	0.42
23:DA:20:A:O2'	23:DA:21:C:H5'	2.19	0.42
22:DB:1004:A:C5	22:DB:1173:G:N1	2.88	0.42
22:DB:1453:A:H2'	22:DB:1453:A:N3	2.35	0.42
22:DB:1573:G:H3'	22:DB:1574:A:O4'	2.19	0.42
22:DB:1762:C:O2'	22:DB:1763:G:H5'	2.19	0.42
22:DB:1848:U:H2'	22:DB:1849:G:H5'	2.01	0.42
22:DB:1948:C:H2'	22:DB:1949:A:C8	2.54	0.42
22:DB:2252:A:H2'	22:DB:2253:A:O4'	2.19	0.42
22:DB:2284:U:N3	22:DB:2290:A:N6	2.67	0.42
22:DB:2351:G:O2'	22:DB:2352:A:H5'	2.19	0.42
22:DB:2380:U:H2'	22:DB:2382:C:H5	1.83	0.42
22:DB:2409:A:H5''	22:DB:2410:U:OP2	2.19	0.42
22:DB:2823:G:O2'	22:DB:2824:C:H5'	2.19	0.42
22:DB:3135:A:H1'	22:DB:3160:C:O5'	2.19	0.42
22:DB:365:U:H2'	22:DB:366:U:O4'	2.20	0.42
22:DB:565:A:N3	31:DK:74:MET:CB	2.73	0.42
22:DB:76:C:H2'	22:DB:77:C:O4'	2.19	0.42
24:DD:198:ASN:HB3	24:DD:201:HIS:CB	2.49	0.42
22:DB:706:A:P	24:DD:58:HIS:CE1	3.06	0.42
25:DE:144:ARG:HH21	25:DE:145:LYS:C	2.23	0.42
25:DE:98:GLU:OE2	25:DE:175:ILE:HG13	2.19	0.42
22:DB:2767:C:H4'	25:DE:60:ASN:HB2	0.48	0.42
29:DI:25:ALA:HA	29:DI:29:LEU:HD23	2.00	0.42
33:DM:107:LYS:HD2	33:DM:108:LEU:N	2.34	0.42
22:DB:2394:G:C3'	33:DM:64:GLY:CA	2.89	0.42
34:DN:13:GLN:HE21	34:DN:13:GLN:HB2	1.55	0.42
42:DV:24:VAL:HG21	42:DV:32:GLN:HB3	2.02	0.42
43:DW:123:VAL:O	43:DW:124:ALA:CB	2.64	0.42
46:DZ:47:VAL:CG1	46:DZ:50:LEU:HD22	2.50	0.42
1:EA:1306:A:H2'	1:EA:1307:U:H5'	2.02	0.42
1:EA:1358:U:O2'	1:EA:1359:C:H5'	2.20	0.42
1:EA:326:G:H2'	1:EA:327:A:H5'	2.00	0.42
1:EA:329:A:O3'	1:EA:330:C:H4'	2.19	0.42
1:EA:342:C:H2'	1:EA:343:U:C6	2.55	0.42
2:EB:140:HIS:O	2:EB:143:GLU:HB2	2.20	0.42
1:EA:1056:U:C4'	3:EC:162:GLN:O	2.58	0.42
5:EE:80:ILE:HG13	5:EE:80:ILE:O	2.19	0.42
6:EF:79:LEU:O	6:EF:85:VAL:HB	2.18	0.42
8:EH:62:TYR:C	8:EH:63:LEU:HD12	2.40	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:EJ:38:ILE:O	10:EJ:38:ILE:HG13	2.19	0.42
12:EL:39:VAL:CG1	12:EL:41:ARG:HB2	2.48	0.42
12:EL:7:ILE:HG22	12:EL:8:ASN:OD1	2.20	0.42
19:ES:22:LEU:HD22	19:ES:28:LYS:O	2.20	0.42
20:ET:35:THR:HA	20:ET:38:LYS:HE3	2.00	0.42
22:FB:124:A:O4'	50:F4:19:ARG:NE	2.51	0.42
53:F7:128:LEU:HD13	53:F7:133:LYS:HD2	2.02	0.42
22:FB:1498:G:N1	22:FB:1523:A:H1'	2.35	0.42
22:FB:1573:G:H3'	22:FB:1574:A:O4'	2.19	0.42
22:FB:1937:G:N3	22:FB:1937:G:H2'	2.34	0.42
22:FB:2007:G:H2'	22:FB:2008:C:C6	2.55	0.42
22:FB:2034:A:H5''	22:FB:2557:G:P	2.60	0.42
22:FB:2056:C:H2'	22:FB:2057:U:C6	2.54	0.42
22:FB:2186:G:C8	24:FD:149:PRO:CG	3.02	0.42
22:FB:2284:U:OP2	27:FG:133:LYS:CE	2.67	0.42
22:FB:2284:U:N3	22:FB:2290:A:N6	2.67	0.42
22:FB:2351:G:O2'	22:FB:2352:A:H5'	2.19	0.42
22:FB:2364:C:O2	44:FX:37:LEU:HD23	2.16	0.42
22:FB:3093:C:H5''	29:FI:20:VAL:O	2.20	0.42
22:FB:3135:A:H1'	22:FB:3160:C:O5'	2.19	0.42
22:FB:507:A:H2'	22:FB:508:G:H8	1.84	0.42
22:FB:509:U:H4'	42:FV:54:ILE:HG21	2.01	0.42
22:FB:610:G:O2'	26:FF:98:GLN:CG	2.52	0.42
22:FB:693:A:H2'	22:FB:694:G:C8	2.54	0.42
22:FB:991:A:N6	22:FB:2020:G:H21	2.16	0.42
25:FE:59:VAL:O	25:FE:63:MET:HG2	2.19	0.42
22:FB:672:C:H4'	26:FF:94:THR:HB	2.02	0.42
30:FJ:71:THR:O	30:FJ:74:MET:HB2	2.19	0.42
31:FK:141:GLY:C	31:FK:143:ALA:H	2.22	0.42
31:FK:43:VAL:CG2	31:FK:166:LEU:H	2.32	0.42
32:FL:118:LEU:O	32:FL:123:PHE:HB3	2.18	0.42
32:FL:76:ARG:HH21	32:FL:90:ARG:CZ	2.32	0.42
33:FM:59:ARG:O	33:FM:61:PRO:HD3	2.19	0.42
34:FN:44:LYS:HA	34:FN:94:TRP:NE1	2.34	0.42
22:FB:1291:G:P	35:FO:35:GLN:HB2	2.59	0.42
35:FO:45:ARG:O	35:FO:47:PHE:N	2.43	0.42
40:FT:86:LEU:HB3	40:FT:87:GLU:H	1.56	0.42
41:FU:75:ARG:O	41:FU:76:LYS:HD3	2.20	0.42
42:FV:24:VAL:HG21	42:FV:32:GLN:HB3	2.02	0.42
43:FW:17:SER:HA	43:FW:36:ARG:HH22	1.84	0.42
1:GA:1225:A:OP1	13:GM:102:ARG:CD	2.68	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:GA:1264:C:O2'	1:GA:1265:G:H5'	2.20	0.42
1:GA:1414:U:H2'	1:GA:1415:G:H8	1.85	0.42
1:GA:474:U:H2'	1:GA:475:C:C6	2.55	0.42
1:GA:476:U:H2'	1:GA:477:G:H8	1.85	0.42
1:GA:637:G:H2'	1:GA:638:G:C8	2.53	0.42
1:GA:636:U:H2'	1:GA:637:G:O4'	2.19	0.42
1:GA:666:G:O2'	1:GA:667:G:H5'	2.18	0.42
1:GA:683:G:H2'	1:GA:684:A:H8	1.83	0.42
1:GA:755:G:H2'	1:GA:756:C:C5	2.54	0.42
1:GA:759:A:C2'	1:GA:760:G:H5'	2.42	0.42
1:GA:875:C:H1'	8:GH:11:THR:CB	2.49	0.42
1:GA:22:G:N2	1:GA:913:A:C2	2.83	0.42
4:GD:10:ARG:NH2	4:GD:14:ARG:HE	2.17	0.42
7:GG:17:VAL:HG22	9:GI:41:VAL:CG1	2.35	0.42
7:GG:32:ARG:O	7:GG:33:ASP:HB2	2.20	0.42
1:GA:1378:C:C5'	7:GG:6:ARG:NH2	2.76	0.42
8:GH:62:TYR:C	8:GH:63:LEU:HD12	2.40	0.42
11:GK:91:ARG:N	11:GK:91:ARG:HD2	2.32	0.42
48:H2:25:LEU:HD13	48:H2:26:THR:N	2.34	0.42
49:H3:17:GLY:C	49:H3:19:GLY:H	2.22	0.42
51:H5:27:SER:CB	51:H5:30:ARG:HH12	2.32	0.42
51:H5:3:LYS:CE	51:H5:5:LYS:HE3	2.49	0.42
22:HB:1166:A:HO2'	22:HB:1167:A:H8	1.63	0.42
22:HB:586:G:H5''	22:HB:1268:U:C2	2.55	0.42
22:HB:1861:G:H5''	22:HB:1862:C:P	2.59	0.42
22:HB:2056:C:H2'	22:HB:2057:U:C6	2.54	0.42
22:HB:2203:G:O2'	22:HB:2205:C:C4	2.72	0.42
22:HB:2309:G:O2'	22:HB:2310:G:H5'	2.20	0.42
22:HB:2402:U:H1'	22:HB:2404:A:C5	2.54	0.42
22:HB:2633:A:H5''	22:HB:2634:G:H4'	2.01	0.42
22:HB:67:G:H2'	22:HB:68:C:O4'	2.20	0.42
22:HB:782:U:H2'	22:HB:783:G:C8	2.54	0.42
22:HB:990:A:H2'	22:HB:993:C:H41	1.83	0.42
24:HD:105:ILE:HD13	24:HD:106:LEU:H	1.85	0.42
24:HD:213:ARG:O	24:HD:219:PRO:HD3	2.19	0.42
25:HE:108:SER:O	25:HE:191:ALA:HB2	2.20	0.42
25:HE:118:LYS:HA	25:HE:118:LYS:HZ3	1.84	0.42
22:HB:2725:C:H4'	28:HH:141:VAL:HG23	2.00	0.42
32:HL:113:PRO:CD	37:HQ:75:GLU:CA	2.91	0.42
32:HL:123:PHE:CG	32:HL:124:MET:N	2.88	0.42
34:HN:46:ASN:HA	34:HN:49:GLU:CB	2.49	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:HO:43:GLU:C	35:HO:46:PRO:HD2	2.40	0.42
22:HB:2826:C:C3'	35:HO:64:ARG:NH1	2.79	0.42
35:HO:83:VAL:O	35:HO:86:LYS:HB3	2.19	0.42
40:HT:72:LEU:HA	40:HT:126:ILE:HG21	2.02	0.42
41:HU:92:ALA:CA	45:HY:27:GLU:CD	2.88	0.42
1:IA:1016:A:O2'	1:IA:1217:C:H1'	2.19	0.42
1:IA:996:A:N1	1:IA:1046:A:H4'	2.34	0.42
1:IA:1057:G:OP1	3:IC:163:ALA:CA	2.61	0.42
1:IA:348:G:N2	1:IA:349:A:H62	2.17	0.42
1:IA:603:U:H2'	1:IA:604:G:C8	2.54	0.42
1:IA:637:G:H2'	1:IA:638:G:C8	2.53	0.42
1:IA:728:A:H3'	1:IA:729:A:H8	1.84	0.42
1:IA:86:G:H5''	1:IA:87:G:N7	2.35	0.42
1:IA:8:A:H2'	4:ID:209:ARG:HD3	2.02	0.42
1:IA:92:G:H2'	1:IA:93:U:C6	2.54	0.42
1:IA:1102:A:C2	2:IB:108:ILE:HD11	2.54	0.42
3:IC:156:ARG:H	3:IC:163:ALA:HA	1.85	0.42
6:IF:48:LEU:HD22	18:IR:78:LEU:HA	2.02	0.42
7:IG:15:ASP:CB	7:IG:20:ASP:H	2.33	0.42
1:IA:967:C:H5''	9:II:128:ARG:HD2	1.72	0.42
12:IL:29:GLY:O	12:IL:30:ALA:C	2.57	0.42
12:IL:5:PRO:N	12:IL:9:GLN:HG3	2.35	0.42
14:IN:33:VAL:CG1	14:IN:40:CYS:HB3	2.48	0.42
1:IA:579:G:H1'	15:IO:54:ARG:HH21	1.83	0.42
20:IT:19:SER:HA	20:IT:22:ARG:NE	2.35	0.42
53:J7:63:ARG:HD2	53:J7:81:PRO:O	2.19	0.42
22:JB:1381:G:H2'	22:JB:1382:G:C8	2.55	0.42
22:JB:1710:U:H5''	22:JB:1711:C:OP2	2.20	0.42
22:JB:1745:C:O2'	37:JQ:113:LYS:CD	2.65	0.42
1:IA:1409:C:P	22:JB:1899:A:H61	2.42	0.42
22:JB:2056:C:H2'	22:JB:2057:U:C6	2.54	0.42
22:JB:2327:U:H2'	22:JB:2328:G:C8	2.54	0.42
22:JB:2491:C:H5'	25:JE:138:PRO:CB	2.39	0.42
22:JB:2820:C:H5''	37:JQ:62:SER:OG	0.56	0.42
22:JB:614:G:H4'	22:JB:669:G:H21	1.84	0.42
22:JB:701:U:C2'	22:JB:702:A:H5'	2.50	0.42
26:JF:158:ARG:HH12	26:JF:169:VAL:HG23	1.84	0.42
27:JG:106:ILE:HG12	27:JG:137:ILE:O	2.19	0.42
31:JK:147:ARG:HG2	31:JK:147:ARG:HH21	1.84	0.42
33:JM:59:ARG:O	33:JM:61:PRO:HD3	2.19	0.42
34:JN:105:PHE:CE1	34:JN:112:GLU:HA	2.54	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:JB:2823:G:C5'	37:JQ:103:LYS:O	2.67	0.42
38:JR:28:ARG:CG	38:JR:34:ASN:HB3	2.48	0.42
22:JB:592:G:O3'	38:JR:5:LYS:HA	2.19	0.42
38:JR:61:TRP:CZ2	38:JR:97:ASP:HA	2.54	0.42
42:JV:23:ILE:HG13	42:JV:87:GLU:CD	2.40	0.42
42:JV:32:GLN:HG2	42:JV:50:GLY:HA2	2.01	0.42
22:JB:492:G:C5'	42:JV:55:THR:HG23	2.41	0.42
22:JB:2241:U:H6	44:JX:15:ASP:CG	2.21	0.42
1:AA:1092:A:H5''	7:AG:4:ARG:CG	2.38	0.42
1:AA:1184:G:O2'	1:AA:1185:G:H5'	2.19	0.42
1:AA:1016:A:O2'	1:AA:1217:C:H1'	2.19	0.42
1:AA:1359:C:H2'	1:AA:1361:G:OP2	2.20	0.42
1:AA:173:U:H6	1:AA:198:G:HO2'	1.66	0.42
1:AA:230:G:C5'	16:AP:26:ARG:HH21	2.32	0.42
1:AA:544:G:H22	1:AA:549:C:H4'	1.82	0.42
1:AA:587:G:H4'	8:AH:1:MET:CE	2.49	0.42
1:AA:688:G:H2'	1:AA:689:C:C6	2.55	0.42
1:AA:812:C:O2'	1:AA:813:U:P	2.78	0.42
1:AA:958:A:C2	19:AS:56:GLN:CD	2.90	0.42
2:AB:61:LEU:HD13	2:AB:64:ARG:HH11	1.84	0.42
4:AD:13:ARG:HB3	4:AD:39:PRO:HA	2.01	0.42
5:AE:129:ILE:HG22	5:AE:133:TYR:OH	2.20	0.42
5:AE:94:ALA:HB3	5:AE:118:ILE:HA	2.01	0.42
1:AA:1093:A:H5'	7:AG:4:ARG:HH21	1.61	0.42
8:AH:62:TYR:C	8:AH:63:LEU:HD12	2.40	0.42
8:AH:64:LYS:C	8:AH:64:LYS:HE2	2.40	0.42
9:AI:18:PHE:H	9:AI:62:TYR:HD2	1.66	0.42
9:AI:17:VAL:O	9:AI:19:LEU:HD23	2.19	0.42
9:AI:26:VAL:CG2	9:AI:61:ALA:H	2.32	0.42
11:AK:65:ALA:C	11:AK:67:ASP:H	2.23	0.42
15:AO:36:ILE:HD11	15:AO:63:ARG:NH1	2.34	0.42
17:AQ:21:VAL:HG12	17:AQ:22:LEU:N	2.32	0.42
22:BB:1070:G:H5'	30:BJ:115:LEU:CA	2.44	0.42
22:BB:1000:G:H5'	22:BB:1168:G:H5''	2.01	0.42
22:BB:1202:U:H4'	39:BS:80:TYR:CZ	2.54	0.42
22:BB:1397:A:H1'	22:BB:1417:C:O2'	2.20	0.42
22:BB:1453:A:N3	22:BB:1453:A:H2'	2.35	0.42
22:BB:1542:G:C2'	22:BB:1560:A:H61	2.25	0.42
22:BB:1613:G:H5''	22:BB:1614:C:OP1	2.19	0.42
22:BB:1741:G:H2'	22:BB:1742:G:H8	1.83	0.42
22:BB:1973:C:O2'	22:BB:1974:U:H5'	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:BB:2252:A:H2'	22:BB:2253:A:O4'	2.19	0.42
22:BB:2333:A:H1'	44:BX:31:VAL:CA	2.49	0.42
22:BB:2338:C:C5'	51:B5:50:LEU:CD2	2.97	0.42
22:BB:2466:G:H2'	22:BB:2467:A:H8	1.83	0.42
22:BB:2579:A:H2'	22:BB:2580:C:C6	2.55	0.42
22:BB:335:A:C2	22:BB:453:U:OP1	2.73	0.42
22:BB:365:U:H2'	22:BB:366:U:O4'	2.20	0.42
22:BB:36:G:H4'	22:BB:463:C:C5	2.55	0.42
22:BB:543:G:C6	22:BB:570:G:C2	3.07	0.42
22:BB:591:G:OP2	38:BR:10:ARG:NH2	2.53	0.42
22:BB:730:C:H2'	22:BB:731:A:C8	2.55	0.42
22:BB:791:G:H2'	22:BB:792:U:H6	1.85	0.42
22:BB:796:A:H2'	22:BB:797:A:C4'	2.47	0.42
22:BB:976:C:H2'	22:BB:977:G:C8	2.53	0.42
22:BB:2658:A:H2'	25:BE:187:ALA:HB1	2.00	0.42
27:BG:30:ARG:H	27:BG:30:ARG:HE	1.60	0.42
28:BH:35:VAL:O	28:BH:36:PRO:O	2.38	0.42
22:BB:1142:G:O4'	31:BK:111:LYS:N	2.52	0.42
32:BL:25:LEU:HB2	32:BL:52:VAL:HG23	2.02	0.42
22:BB:596:C:O5'	33:BM:29:THR:HB	2.19	0.42
34:BN:102:ARG:HB3	34:BN:102:ARG:HH11	1.80	0.42
34:BN:95:VAL:HG23	34:BN:96:SER:N	2.34	0.42
34:BN:97:VAL:HB	34:BN:98:VAL:H	1.76	0.42
22:BB:2815:C:OP2	35:BO:50:GLN:HG2	2.16	0.42
38:BR:36:PHE:O	38:BR:37:GLN:HG2	2.20	0.42
23:BA:107:C:C5'	43:BW:88:TYR:C	2.27	0.42
44:BX:5:LYS:HB3	44:BX:6:GLY:H	1.61	0.42
1:CA:1101:A:O2'	1:CA:1102:A:P	2.78	0.42
1:CA:1189:C:C5'	3:CC:10:PHE:CZ	3.03	0.42
1:CA:1016:A:O2'	1:CA:1217:C:H1'	2.20	0.42
1:CA:1264:C:O2'	1:CA:1265:G:H5'	2.20	0.42
1:CA:202:G:H1'	1:CA:469:C:O2'	2.19	0.42
1:CA:255:G:H8	17:CQ:17:LYS:CE	2.29	0.42
1:CA:292:G:N7	1:CA:305:G:N2	2.67	0.42
1:CA:342:C:H2'	1:CA:343:U:C6	2.55	0.42
1:CA:519:C:H5'	1:CA:520:A:OP2	2.11	0.42
1:CA:603:U:H2'	1:CA:604:G:C8	2.54	0.42
1:CA:688:G:H2'	1:CA:689:C:C6	2.54	0.42
1:CA:812:C:H4'	1:CA:813:U:C5'	2.49	0.42
1:CA:968:A:H4'	10:CJ:56:HIS:ND1	2.34	0.42
7:CG:116:ALA:HA	7:CG:119:ARG:NH1	2.35	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:CI:105:ASP:HB3	9:CI:107:ARG:HG3	2.01	0.42
12:CL:72:GLY:CA	12:CL:102:ARG:HH11	2.30	0.42
15:CO:78:TYR:CE2	15:CO:79:ARG:HG3	2.54	0.42
22:DB:635:C:OP1	51:D5:63:PRO:HD3	2.19	0.42
22:DB:1194:U:H4'	22:DB:1195:U:OP1	2.20	0.42
22:DB:1363:C:O2'	22:DB:1588:A:H4'	2.20	0.42
22:DB:1452:U:H2'	22:DB:1453:A:C8	2.49	0.42
22:DB:1741:G:H2'	22:DB:1742:G:H8	1.84	0.42
22:DB:1883:A:H1'	22:DB:1953:A:H2'	2.01	0.42
22:DB:205:A:C2'	22:DB:206:U:H5''	2.49	0.42
22:DB:2403:C:H5'	22:DB:2404:A:OP1	2.19	0.42
22:DB:2466:G:H2'	22:DB:2467:A:H8	1.83	0.42
22:DB:2579:A:H2'	22:DB:2580:C:C6	2.55	0.42
22:DB:2615:U:H4'	25:DE:79:ARG:HB2	1.94	0.42
22:DB:2727:G:H1'	22:DB:2736:U:H5	1.82	0.42
22:DB:2850:U:H2'	22:DB:2851:G:O4'	2.20	0.42
22:DB:486:U:H2'	22:DB:487:G:C8	2.54	0.42
22:DB:545:C:C2'	38:DR:53:LYS:NZ	2.75	0.42
22:DB:939:C:H2'	22:DB:940:G:C8	2.54	0.42
22:DB:990:A:H2'	22:DB:993:C:H41	1.83	0.42
24:DD:120:GLY:O	24:DD:121:PRO:C	2.58	0.42
24:DD:144:ALA:N	24:DD:155:LEU:HD11	2.35	0.42
25:DE:105:THR:O	25:DE:196:VAL:HG22	2.19	0.42
27:DG:69:LYS:HZ1	27:DG:72:LYS:CA	2.32	0.42
30:DJ:72:PRO:C	30:DJ:74:MET:N	2.73	0.42
33:DM:26:THR:HG22	33:DM:27:ASP:N	2.35	0.42
22:DB:2465:G:H5'	34:DN:123:GLY:HA2	2.01	0.42
35:DO:15:SER:O	35:DO:19:ALA:HB3	2.19	0.42
36:DP:96:TYR:CE1	36:DP:100:VAL:HB	2.54	0.42
38:DR:94:VAL:CG1	39:DS:11:GLN:HA	2.49	0.42
44:DX:49:GLN:HB2	44:DX:73:GLY:HA3	2.00	0.42
1:EA:1194:U:C5'	5:EE:22:GLY:HA2	2.49	0.42
1:EA:1264:C:O2'	1:EA:1265:G:H5'	2.20	0.42
1:EA:522:C:N4	12:EL:53:ARG:NH2	2.68	0.42
1:EA:768:A:OP1	1:EA:804:U:H5''	2.19	0.42
3:EC:36:ASP:HB2	3:EC:37:GLN:HE22	1.82	0.42
4:ED:60:GLU:HG3	4:ED:203:VAL:CG2	2.49	0.42
5:EE:105:VAL:HG12	5:EE:109:ILE:HD11	2.02	0.42
5:EE:129:ILE:HG22	5:EE:133:TYR:OH	2.20	0.42
8:EH:64:LYS:NZ	8:EH:79:VAL:HG21	2.34	0.42
1:EA:1185:G:C3'	9:EI:110:GLU:OE1	2.67	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:EK:104:GLN:HG2	11:EK:105:VAL:N	2.34	0.42
12:EL:5:PRO:N	12:EL:9:GLN:HG3	2.35	0.42
13:EM:78:ILE:HG23	13:EM:81:LEU:HG	2.02	0.42
18:ER:45:SER:C	18:ER:47:THR:H	2.23	0.42
6:EF:49:ALA:HB2	18:ER:78:LEU:O	2.19	0.42
51:F5:3:LYS:CE	51:F5:5:LYS:HE3	2.49	0.42
22:FB:1194:U:H4'	22:FB:1195:U:OP1	2.20	0.42
22:FB:1254:G:H2'	22:FB:1255:A:C5	2.54	0.42
22:FB:1322:G:H5'	50:F4:8:ASN:CA	2.47	0.42
22:FB:1424:U:H2'	22:FB:1425:G:C8	2.54	0.42
22:FB:1702:C:H2'	22:FB:1703:C:C6	2.55	0.42
22:FB:1712:G:N3	22:FB:1712:G:H3'	2.35	0.42
22:FB:1784:C:O2'	22:FB:1785:A:H5'	2.19	0.42
22:FB:1829:C:H4'	22:FB:1911:A:C4'	2.47	0.42
22:FB:26:G:H2'	22:FB:27:G:O4'	2.20	0.42
22:FB:486:U:H2'	22:FB:487:G:C8	2.54	0.42
22:FB:791:G:H2'	22:FB:792:U:H6	1.85	0.42
22:FB:847:C:H1'	22:FB:2337:A:C5	2.54	0.42
22:FB:915:C:H2'	22:FB:916:U:H6	1.85	0.42
22:FB:990:A:H2'	22:FB:993:C:H41	1.83	0.42
24:FD:57:GLY:H	24:FD:217:ARG:HA	1.84	0.42
24:FD:213:ARG:O	24:FD:219:PRO:HD3	2.19	0.42
22:FB:1583:A:N3	24:FD:84:TYR:CE1	2.88	0.42
25:FE:118:LYS:HZ3	25:FE:118:LYS:HA	1.83	0.42
22:FB:2558:C:C5'	25:FE:133:LYS:HE3	2.49	0.42
25:FE:143:GLN:CB	25:FE:144:ARG:HE	2.32	0.42
25:FE:98:GLU:OE2	25:FE:175:ILE:HG13	2.19	0.42
22:FB:2785:A:C2	25:FE:61:LYS:NZ	2.87	0.42
26:FF:62:LYS:NZ	26:FF:62:LYS:HB3	2.34	0.42
27:FG:108:LEU:HA	27:FG:114:PHE:CD2	2.47	0.42
27:FG:72:LYS:HA	27:FG:72:LYS:NZ	2.35	0.42
27:FG:91:LEU:N	27:FG:91:LEU:HD23	2.35	0.42
30:FJ:24:GLY:C	30:FJ:26:ALA:H	2.22	0.42
31:FK:147:ARG:HG2	31:FK:147:ARG:HH21	1.84	0.42
31:FK:56:THR:C	31:FK:58:ILE:H	2.18	0.42
32:FL:113:PRO:HB3	32:FL:132:GLU:HB2	2.02	0.42
32:FL:78:SER:HA	32:FL:90:ARG:CD	2.49	0.42
33:FM:26:THR:HG22	33:FM:27:ASP:N	2.35	0.42
33:FM:82:ASP:C	33:FM:83:LEU:HD12	2.40	0.42
34:FN:95:VAL:HG23	34:FN:96:SER:N	2.34	0.42
23:FA:49:C:H5'	36:FP:94:TYR:CE1	2.51	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:FS:40:VAL:HG13	39:FS:51:ALA:CB	2.47	0.42
40:FT:34:SER:HA	40:FT:35:PRO:HD3	1.90	0.42
22:FB:864:C:C4'	46:FZ:42:GLY:H	2.22	0.42
1:GA:996:A:N1	1:GA:1046:A:H4'	2.34	0.42
1:GA:1250:A:H5'	9:GI:68:GLY:C	2.40	0.42
1:GA:1305:G:H21	1:GA:1331:G:H2'	1.83	0.42
1:GA:1358:U:O2'	1:GA:1359:C:H5'	2.20	0.42
1:GA:1367:C:OP1	9:GI:115:GLY:CA	2.67	0.42
1:GA:1367:C:P	9:GI:115:GLY:N	2.93	0.42
1:GA:1373:G:OP1	7:GG:36:LYS:HB2	2.05	0.42
1:GA:924:C:O2	1:GA:1502:A:C8	2.72	0.42
1:GA:132:C:H5'	1:GA:262:A:C4'	2.50	0.42
1:GA:421:U:H2'	1:GA:423:G:O6	2.19	0.42
1:GA:503:C:O2'	1:GA:504:C:H5'	2.19	0.42
1:GA:676:A:N3	11:GK:119:CYS:SG	2.93	0.42
1:GA:863:U:N3	1:GA:865:A:H5''	2.34	0.42
5:GE:105:VAL:HG12	5:GE:109:ILE:HD11	2.02	0.42
5:GE:76:ILE:HG23	5:GE:118:ILE:CD1	2.48	0.42
7:GG:148:ASN:HA	7:GG:151:TYR:CE1	2.55	0.42
7:GG:23:VAL:C	7:GG:25:ALA:H	2.23	0.42
8:GH:111:ILE:CG2	8:GH:120:THR:HA	2.50	0.42
8:GH:104:ARG:HH21	8:GH:138:TRP:HB3	1.83	0.42
8:GH:26:VAL:HG13	8:GH:59:LEU:HD13	2.02	0.42
12:GL:5:PRO:N	12:GL:9:GLN:HG3	2.35	0.42
15:GO:61:GLY:HA3	15:GO:65:ARG:NH1	2.35	0.42
18:GR:44:LEU:HG	18:GR:45:SER:N	2.35	0.42
18:GR:51:LEU:HA	18:GR:52:PRO:HD3	1.87	0.42
52:H6:23:VAL:H	52:H6:36:GLN:HE22	1.68	0.42
22:HB:3178:C:O3'	53:H7:38:GLY:CA	2.67	0.42
22:HB:1166:A:C4	22:HB:1168:G:C5	3.08	0.42
22:HB:1440:G:P	22:HB:1575:C:H41	2.43	0.42
22:HB:156:G:O3'	50:H4:36:ALA:HB3	2.14	0.42
22:HB:159:A:H1'	22:HB:447:U:C5'	2.49	0.42
22:HB:1717:A:H3'	22:HB:1718:A:H8	1.82	0.42
22:HB:1993:G:H2'	22:HB:1994:U:C6	2.55	0.42
22:HB:2007:G:H2'	22:HB:2008:C:C6	2.55	0.42
22:HB:205:A:C2'	22:HB:206:U:H5''	2.49	0.42
22:HB:217:U:O3'	22:HB:634:G:H5'	2.18	0.42
22:HB:923:A:C2	22:HB:2243:C:H1'	2.54	0.42
22:HB:2310:G:H4'	44:HX:71:ASN:C	2.36	0.42
22:HB:2550:C:O2	22:HB:2553:G:H1'	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:HB:2615:U:H4'	25:HE:79:ARG:HH21	1.84	0.42
22:HB:2646:C:O2	28:HH:109:TYR:CA	2.63	0.42
22:HB:2752:C:H2'	22:HB:2753:C:C6	2.55	0.42
22:HB:3115:G:O6	22:HB:3117:A:H2'	2.19	0.42
22:HB:58:C:C3'	22:HB:59:G:H5''	2.50	0.42
22:HB:709:A:H2'	22:HB:710:C:C6	2.55	0.42
22:HB:717:G:H2'	22:HB:739:G:N2	2.24	0.42
22:HB:728:G:H3'	22:HB:729:A:H8	1.83	0.42
22:HB:894:G:H2'	22:HB:895:G:C1'	2.50	0.42
22:HB:8:A:N1	22:HB:2869:U:C4	2.74	0.42
22:HB:969:U:O4	34:HN:20:GLY:CA	2.58	0.42
27:HG:106:ILE:HG12	27:HG:137:ILE:O	2.20	0.42
27:HG:72:LYS:NZ	27:HG:72:LYS:HA	2.35	0.42
22:HB:2646:C:H5'	28:HH:109:TYR:HE2	1.49	0.42
28:HH:144:VAL:HA	28:HH:147:ASN:OD1	2.19	0.42
28:HH:155:ASP:O	28:HH:160:LYS:HD2	2.18	0.42
31:HK:122:HIS:HB2	31:HK:123:PRO:CD	2.49	0.42
31:HK:71:THR:O	31:HK:72:PRO:O	2.37	0.42
22:HB:2662:C:C2	32:HL:82:LYS:HD2	2.54	0.42
32:HL:83:ARG:O	32:HL:84:ALA:HB3	2.18	0.42
32:HL:87:SER:HB2	37:HQ:83:PHE:CB	2.20	0.42
33:HM:79:GLN:O	33:HM:83:LEU:HD11	2.20	0.42
34:HN:12:LYS:NZ	34:HN:12:LYS:HB3	2.35	0.42
22:HB:2358:C:C5'	36:HP:19:THR:HG23	2.49	0.42
22:HB:542:A:HO2'	38:HR:38:THR:HB	1.84	0.42
41:HU:43:GLN:OE1	41:HU:49:ARG:HA	2.19	0.42
42:HV:59:LYS:N	42:HV:60:PRO:HD3	2.35	0.42
43:HW:124:ALA:N	43:HW:125:PRO:HD2	2.34	0.42
46:HZ:47:VAL:CG1	46:HZ:50:LEU:HD22	2.50	0.42
1:IA:1074:G:O2'	1:IA:1075:C:H5'	2.19	0.42
1:IA:1223:C:P	19:IS:78:ARG:NE	2.92	0.42
1:IA:1264:C:O2'	1:IA:1265:G:H5'	2.20	0.42
1:IA:1406:U:O2'	22:JB:1902:A:H1'	2.18	0.42
1:IA:1494:G:C2	22:JB:1895:A:C2	3.08	0.42
1:IA:132:C:H5'	1:IA:262:A:C4'	2.50	0.42
1:IA:356:A:O2'	1:IA:357:G:H5'	2.19	0.42
1:IA:474:U:H2'	1:IA:475:C:C6	2.55	0.42
1:IA:547:A:OP2	4:ID:2:GLY:CA	2.68	0.42
1:IA:560:U:H4'	1:IA:562:C:O5'	2.20	0.42
1:IA:616:G:O2'	1:IA:617:G:H5'	2.20	0.42
1:IA:910:C:H2'	1:IA:911:U:C6	2.55	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:IA:925:G:C4'	1:IA:1502:A:C1'	2.92	0.42
1:IA:925:G:C6	1:IA:927:G:N7	2.87	0.42
2:IB:140:HIS:O	2:IB:143:GLU:HB2	2.20	0.42
2:IB:61:LEU:HD13	2:IB:64:ARG:HH11	1.84	0.42
3:IC:152:ILE:O	3:IC:199:LYS:HB2	2.19	0.42
4:ID:173:TRP:CE3	4:ID:193:ASP:HB3	2.55	0.42
4:ID:194:LEU:H	4:ID:194:LEU:CD2	2.32	0.42
1:IA:935:A:C2	7:IG:3:ARG:NH2	2.85	0.42
7:IG:52:GLU:O	7:IG:53:LYS:C	2.58	0.42
1:IA:641:U:O2	8:IH:115:SER:O	2.38	0.42
8:IH:26:VAL:HG13	8:IH:59:LEU:HD13	2.02	0.42
1:IA:644:G:C1'	8:IH:92:ARG:HG2	2.49	0.42
10:IJ:38:ILE:HD11	10:IJ:72:VAL:H	1.83	0.42
18:IR:45:SER:C	18:IR:47:THR:H	2.22	0.42
22:JB:15:G:C3'	48:J2:17:ASP:O	2.67	0.42
50:J4:41:GLN:CD	50:J4:41:GLN:H	2.22	0.42
51:J5:10:ALA:O	51:J5:14:ILE:HG13	2.19	0.42
51:J5:41:ILE:HD13	51:J5:41:ILE:O	2.20	0.42
22:JB:220:U:H5'	51:J5:60:LEU:CD1	2.50	0.42
52:J6:23:VAL:H	52:J6:36:GLN:HE22	1.68	0.42
22:JB:3170:A:C2'	53:J7:131:ARG:HH12	2.29	0.42
22:JB:1018:C:OP1	31:JK:63:ARG:CD	2.67	0.42
22:JB:1207:G:O2'	22:JB:1208:A:H5'	2.19	0.42
22:JB:1507:A:C2	22:JB:1509:A:H4'	2.53	0.42
22:JB:47:G:N2	22:JB:155:G:C6	2.87	0.42
22:JB:1696:C:H2'	22:JB:1697:U:O4'	2.19	0.42
22:JB:16:G:C5'	48:J2:17:ASP:OD1	2.44	0.42
22:JB:1784:C:O2'	22:JB:1785:A:H5'	2.19	0.42
22:JB:1888:C:HO3'	22:JB:1889:G:P	2.35	0.42
22:JB:205:A:C2'	22:JB:206:U:H5''	2.49	0.42
22:JB:2212:U:H2'	22:JB:2213:G:C8	2.54	0.42
22:JB:2258:G:N3	22:JB:2306:A:N9	2.64	0.42
22:JB:2263:C:P	49:J3:8:ILE:HG13	2.58	0.42
22:JB:2469:G:H5''	22:JB:2470:U:C5	2.55	0.42
22:JB:2491:C:O4'	25:JE:138:PRO:CB	2.67	0.42
22:JB:2576:G:H2'	22:JB:2577:A:H8	1.84	0.42
22:JB:2752:C:H2'	22:JB:2753:C:C6	2.55	0.42
22:JB:2753:C:H4'	25:JE:163:GLU:HB3	2.02	0.42
22:JB:2771:C:C2'	22:JB:2772:U:H5'	2.49	0.42
22:JB:1725:C:H1'	22:JB:2835:A:HO2'	1.85	0.42
22:JB:547:U:H2'	22:JB:548:G:O4'	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:JB:584:A:H2'	22:JB:585:U:C6	2.54	0.42
22:JB:582:G:C5'	22:JB:584:A:H62	2.32	0.42
22:JB:58:C:C3'	22:JB:59:G:H5''	2.50	0.42
22:JB:644:A:C2	22:JB:2382:C:H5''	2.55	0.42
22:JB:709:A:H2'	22:JB:710:C:C6	2.55	0.42
22:JB:728:G:H3'	22:JB:729:A:H8	1.83	0.42
24:JD:144:ALA:N	24:JD:155:LEU:HD11	2.35	0.42
22:JB:1820:G:C5	24:JD:221:GLN:CG	2.98	0.42
24:JD:51:SER:HB3	24:JD:52:ARG:HD3	2.02	0.42
25:JE:108:SER:O	25:JE:191:ALA:HB2	2.20	0.42
26:JF:30:VAL:HG22	26:JF:30:VAL:O	2.18	0.42
27:JG:91:LEU:HD23	27:JG:91:LEU:N	2.34	0.42
22:JB:2701:A:C4	35:JO:6:ALA:CB	2.95	0.42
38:JR:111:ASP:HA	38:JR:114:ARG:CB	2.49	0.42
40:JT:55:ASP:O	48:J2:28:PRO:CG	2.66	0.42
41:JU:42:ILE:HD12	41:JU:42:ILE:N	2.33	0.42
41:JU:75:ARG:O	41:JU:76:LYS:HD3	2.20	0.42
22:JB:339:U:HO2'	42:JV:80:LYS:HZ1	1.51	0.42
34:JN:63:GLY:HA2	43:JW:173:PRO:OXT	2.19	0.42
44:JX:74:LYS:HZ2	44:JX:74:LYS:N	2.18	0.42
46:JZ:6:VAL:HB	46:JZ:7:ARG:H	1.62	0.42
1:AA:250:A:H5'	1:AA:252:U:H5''	2.02	0.42
1:AA:329:A:O3'	1:AA:330:C:H4'	2.19	0.42
1:AA:342:C:H2'	1:AA:343:U:C6	2.55	0.42
1:AA:476:U:H2'	1:AA:477:G:H8	1.85	0.42
1:AA:603:U:H2'	1:AA:604:G:C8	2.54	0.42
1:AA:767:A:N3	1:AA:1511:G:N2	2.50	0.42
1:AA:799:G:H2'	1:AA:800:G:C8	2.55	0.42
2:AB:149:LEU:HD23	2:AB:153:ARG:HA	2.01	0.42
3:AC:39:ILE:HG12	3:AC:94:LEU:HD13	2.02	0.42
5:AE:143:ARG:NH1	8:AH:82:HIS:HE1	2.18	0.42
5:AE:80:ILE:HG13	5:AE:80:ILE:O	2.19	0.42
8:AH:26:VAL:HG13	8:AH:59:LEU:HD13	2.02	0.42
10:AJ:17:ASP:O	10:AJ:20:ALA:HB3	2.19	0.42
1:AA:1124:G:P	10:AJ:33:GLN:HE22	2.43	0.42
10:AJ:7:LYS:NZ	10:AJ:69:ASN:HD22	2.16	0.42
11:AK:50:TYR:O	11:AK:55:LYS:HE3	2.19	0.42
11:AK:98:LEU:HB3	11:AK:99:GLN:H	1.56	0.42
13:AM:84:ILE:C	13:AM:86:CYS:H	2.23	0.42
14:AN:53:LEU:HA	14:AN:54:PRO:HD2	1.85	0.42
15:AO:70:LEU:C	15:AO:78:TYR:HB2	2.39	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
49:B3:47:HIS:O	49:B3:48:VAL:HG12	2.19	0.42
53:B7:104:ALA:HB2	53:B7:124:LEU:HB3	2.01	0.42
53:B7:126:PRO:HD3	53:B7:135:PRO:HD3	2.01	0.42
22:BB:1041:G:H2'	52:B6:7:VAL:HA	2.01	0.42
22:BB:1074:G:H2'	22:BB:1075:C:O4'	2.20	0.42
22:BB:1128:G:H2'	22:BB:1129:A:O4'	2.20	0.42
22:BB:1142:G:C8	31:BK:106:TYR:N	2.80	0.42
22:BB:115:G:OP1	22:BB:118:U:OP1	2.37	0.42
22:BB:1194:U:H4'	22:BB:1195:U:OP1	2.20	0.42
22:BB:1254:G:H2'	22:BB:1255:A:C5	2.54	0.42
22:BB:13:A:H61	22:BB:535:U:C2'	2.31	0.42
22:BB:1452:U:H2'	22:BB:1453:A:C8	2.49	0.42
22:BB:1582:A:OP2	24:BD:24:LEU:HB3	2.20	0.42
22:BB:1581:C:C2'	22:BB:1583:A:H5'	2.49	0.42
22:BB:1937:G:N3	22:BB:1937:G:H2'	2.35	0.42
22:BB:1940:C:H5'	22:BB:1967:U:H1'	2.01	0.42
22:BB:205:A:C2'	22:BB:206:U:H5''	2.49	0.42
22:BB:2245:A:O2'	22:BB:2246:A:P	2.78	0.42
22:BB:2284:U:N3	22:BB:2290:A:N6	2.67	0.42
22:BB:2338:C:H5'	51:B5:50:LEU:CD2	2.49	0.42
22:BB:2520:A:H1'	22:BB:2745:A:N1	2.35	0.42
22:BB:3112:G:H1	22:BB:3169:A:P	2.43	0.42
22:BB:3130:G:H1'	22:BB:3159:G:N2	2.32	0.42
22:BB:456:C:O2'	22:BB:457:C:H5'	2.20	0.42
22:BB:569:C:H2'	22:BB:570:G:O4'	2.19	0.42
22:BB:57:G:C4	22:BB:72:A:N6	2.88	0.42
22:BB:614:G:H4'	22:BB:669:G:H21	1.85	0.42
22:BB:661:C:H5'	51:B5:17:THR:HG23	2.01	0.42
22:BB:729:A:H2'	22:BB:730:C:C4'	2.50	0.42
22:BB:832:A:H2'	22:BB:833:A:C8	2.51	0.42
24:BD:57:GLY:H	24:BD:217:ARG:HA	1.84	0.42
26:BF:40:ARG:HB3	26:BF:40:ARG:HH11	1.84	0.42
27:BG:7:LYS:O	27:BG:12:VAL:HG22	2.19	0.42
27:BG:72:LYS:NZ	27:BG:72:LYS:HA	2.35	0.42
28:BH:18:ASN:N	28:BH:18:ASN:HD22	2.16	0.42
28:BH:89:LEU:HD22	28:BH:161:GLY:CA	2.50	0.42
30:BJ:72:PRO:C	30:BJ:74:MET:N	2.73	0.42
22:BB:1143:A:O2'	31:BK:101:THR:HB	2.20	0.42
31:BK:122:HIS:O	31:BK:123:PRO:C	2.58	0.42
31:BK:43:VAL:CG2	31:BK:166:LEU:H	2.32	0.42
22:BB:675:C:H5'	33:BM:26:THR:CB	2.50	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BN:105:PHE:CE1	34:BN:112:GLU:HA	2.55	0.42
34:BN:86:LYS:NZ	34:BN:86:LYS:HB2	2.35	0.42
36:BP:101:LYS:O	36:BP:103:LEU:N	2.53	0.42
37:BQ:23:GLN:HE21	37:BQ:23:GLN:HB3	1.52	0.42
37:BQ:68:VAL:O	37:BQ:70:LYS:HG2	2.20	0.42
38:BR:28:ARG:HG2	38:BR:34:ASN:CB	2.49	0.42
40:BT:109:ARG:HB2	40:BT:115:ASN:ND2	2.34	0.42
41:BU:77:LYS:HZ1	41:BU:79:ILE:HD11	1.83	0.42
42:BV:24:VAL:HG21	42:BV:32:GLN:HB3	2.02	0.42
34:BN:65:ILE:CG2	43:BW:115:ILE:CD1	2.91	0.42
1:CA:1382:C:H5'	7:CG:79:ARG:CB	2.49	0.42
1:CA:1456:A:P	20:CT:28:ALA:HB2	2.57	0.42
1:CA:544:G:H22	1:CA:549:C:H4'	1.81	0.42
1:CA:799:G:H2'	1:CA:800:G:C8	2.55	0.42
1:CA:812:C:O2'	1:CA:813:U:P	2.78	0.42
1:CA:986:A:H2'	1:CA:987:G:C8	2.54	0.42
1:CA:996:A:N1	1:CA:1046:A:H4'	2.34	0.42
2:CB:178:ARG:HD3	2:CB:196:LEU:CB	2.48	0.42
3:CC:67:THR:OG1	3:CC:102:ASN:HB2	2.20	0.42
3:CC:39:ILE:HG12	3:CC:94:LEU:HD13	2.02	0.42
1:CA:545:C:H5'	4:CD:72:GLU:OE2	2.19	0.42
5:CE:105:VAL:HG12	5:CE:109:ILE:HD11	2.02	0.42
7:CG:23:VAL:C	7:CG:25:ALA:H	2.23	0.42
3:CC:23:TYR:CZ	10:CJ:9:ARG:CG	2.85	0.42
12:CL:43:VAL:O	12:CL:45:PRO:HD3	2.19	0.42
1:CA:973:G:C2'	14:CN:29:ARG:HH22	2.32	0.42
15:CO:62:GLN:NE2	15:CO:66:LEU:HG	2.32	0.42
17:CQ:46:ASP:CG	17:CQ:49:GLU:HA	2.40	0.42
18:CR:26:LEU:N	18:CR:26:LEU:HD22	2.35	0.42
20:CT:23:ARG:NE	20:CT:30:LYS:NZ	2.68	0.42
50:D4:41:GLN:CD	50:D4:41:GLN:H	2.22	0.42
22:DB:1042:G:H5''	52:D6:8:LYS:HZ1	1.82	0.42
53:D7:63:ARG:HD2	53:D7:81:PRO:O	2.19	0.42
23:DA:77:G:N2	23:DA:105:G:H22	2.00	0.42
23:DA:92:G:N3	34:DN:21:ASP:CA	2.76	0.42
23:DA:99:G:H2'	23:DA:100:G:C8	2.49	0.42
22:DB:1128:G:H2'	22:DB:1129:A:O4'	2.19	0.42
22:DB:1254:G:H2'	22:DB:1255:A:C5	2.55	0.42
22:DB:1290:A:C2'	35:DO:24:GLN:HG2	2.50	0.42
22:DB:1342:U:H5'	22:DB:1343:C:H5	1.84	0.42
22:DB:1412:C:O5'	22:DB:1412:C:H6	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:DB:1498:G:N1	22:DB:1523:A:H1'	2.35	0.42
22:DB:1581:C:C2'	22:DB:1583:A:H5'	2.49	0.42
22:DB:1625:A:C2'	22:DB:1625:A:N3	2.82	0.42
22:DB:1714:A:H5''	22:DB:1715:A:H8	1.85	0.42
22:DB:176:A:H2'	47:D1:31:ILE:N	2.35	0.42
22:DB:2469:G:H5''	22:DB:2470:U:C5	2.55	0.42
22:DB:2614:A:O2'	25:DE:47:VAL:HG11	2.04	0.42
22:DB:26:G:H2'	22:DB:27:G:O4'	2.20	0.42
22:DB:3180:U:H2'	22:DB:3181:C:H5'	2.02	0.42
22:DB:48:A:N6	22:DB:143:A:C2	2.88	0.42
22:DB:569:C:H2'	22:DB:570:G:O4'	2.19	0.42
22:DB:641:G:O6	51:D5:15:LYS:NZ	2.52	0.42
22:DB:701:U:C2'	22:DB:702:A:H5'	2.50	0.42
22:DB:709:A:H2'	22:DB:710:C:C6	2.55	0.42
22:DB:796:A:H2'	22:DB:797:A:C4'	2.47	0.42
22:DB:832:A:H2'	22:DB:833:A:C8	2.51	0.42
22:DB:869:C:N1	44:DX:24:LYS:CG	2.60	0.42
22:DB:987:G:O4'	22:DB:1167:A:N6	2.53	0.42
22:DB:1807:A:H5''	24:DD:88:ARG:CZ	2.49	0.42
26:DF:15:ILE:CG2	26:DF:16:GLU:H	2.19	0.42
27:DG:32:GLU:HB2	27:DG:159:THR:OG1	2.19	0.42
27:DG:117:ILE:CB	27:DG:177:PHE:HA	2.48	0.42
27:DG:72:LYS:NZ	27:DG:72:LYS:HA	2.35	0.42
27:DG:7:LYS:O	27:DG:12:VAL:HG22	2.19	0.42
28:DH:19:ALA:HB1	28:DH:44:ARG:HE	1.85	0.42
28:DH:35:VAL:O	28:DH:36:PRO:O	2.38	0.42
30:DJ:24:GLY:C	30:DJ:26:ALA:H	2.22	0.42
31:DK:126:VAL:HG13	31:DK:127:ILE:N	2.34	0.42
31:DK:71:THR:O	31:DK:72:PRO:O	2.37	0.42
32:DL:77:THR:HG23	32:DL:78:SER:N	2.34	0.42
34:DN:36:ILE:HD13	34:DN:36:ILE:H	1.85	0.42
34:DN:68:ARG:HH11	34:DN:68:ARG:HG3	1.85	0.42
34:DN:42:TRP:HA	34:DN:94:TRP:CZ2	2.55	0.42
39:DS:22:VAL:HG13	39:DS:90:PHE:HZ	1.84	0.42
40:DT:115:ASN:OD1	40:DT:117:ILE:HG23	2.19	0.42
41:DU:38:ILE:HG23	41:DU:38:ILE:O	2.20	0.42
41:DU:75:ARG:O	41:DU:76:LYS:HD3	2.20	0.42
42:DV:32:GLN:HG2	42:DV:50:GLY:HA2	2.01	0.42
23:DA:107:C:H4'	43:DW:88:TYR:HA	2.01	0.42
45:DY:2:LYS:HD3	45:DY:2:LYS:N	2.35	0.42
1:EA:996:A:N1	1:EA:1046:A:H4'	2.34	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:EA:202:G:H1'	1:EA:469:C:O2'	2.19	0.42
1:EA:50:A:H1'	1:EA:52:G:H5''	2.01	0.42
1:EA:603:U:H2'	1:EA:604:G:C8	2.54	0.42
1:EA:898:G:H2'	1:EA:900:A:OP2	2.19	0.42
1:EA:910:C:H2'	1:EA:911:U:C6	2.55	0.42
1:EA:928:G:O2'	1:EA:929:G:H5'	2.19	0.42
1:EA:988:G:H2'	1:EA:989:C:O4'	2.20	0.42
4:ED:107:ARG:CA	4:ED:107:ARG:HH11	2.18	0.42
4:ED:10:ARG:HH12	4:ED:11:LEU:HB3	1.84	0.42
1:EA:921:U:H1'	5:EE:19:MET:HB3	2.01	0.42
6:EF:4:TYR:HA	6:EF:93:SER:H	1.85	0.42
7:EG:103:TRP:CZ2	7:EG:138:LYS:HA	2.54	0.42
7:EG:137:LYS:O	7:EG:141:VAL:HG23	2.19	0.42
7:EG:148:ASN:HA	7:EG:151:TYR:CE1	2.55	0.42
7:EG:13:GLN:HA	7:EG:14:PRO:HD2	1.91	0.42
7:EG:16:LEU:HD23	9:EI:41:VAL:HG12	0.50	0.42
8:EH:26:VAL:HG21	8:EH:32:LYS:HB3	2.01	0.42
8:EH:26:VAL:HG13	8:EH:59:LEU:HD13	2.01	0.42
8:EH:86:ILE:HB	8:EH:133:LEU:CD2	2.49	0.42
1:EA:1151:A:H5''	10:EJ:42:THR:O	2.18	0.42
11:EK:50:TYR:OH	11:EK:57:THR:HG23	2.20	0.42
11:EK:65:ALA:C	11:EK:67:ASP:H	2.22	0.42
13:EM:77:ASN:HA	13:EM:80:ARG:NH1	2.35	0.42
13:EM:84:ILE:C	13:EM:86:CYS:H	2.23	0.42
1:EA:1225:A:C4'	19:ES:78:ARG:CZ	2.96	0.42
48:F2:33:CYS:CA	48:F2:40:LYS:HB2	2.45	0.42
49:F3:17:GLY:C	49:F3:19:GLY:H	2.22	0.42
22:FB:2265:A:OP2	49:F3:28:ARG:HB3	2.15	0.42
49:F3:45:LYS:N	49:F3:45:LYS:HD2	2.35	0.42
22:FB:474:G:H22	50:F4:12:ARG:NH2	2.17	0.42
50:F4:41:GLN:CD	50:F4:41:GLN:H	2.22	0.42
53:F7:55:PRO:HD2	53:F7:182:ASN:ND2	2.34	0.42
22:FB:1074:G:H2'	22:FB:1075:C:O4'	2.20	0.42
22:FB:1164:C:H4'	38:FR:76:TYR:CD2	2.44	0.42
22:FB:1288:A:H2	35:FO:16:ALA:N	2.17	0.42
22:FB:1326:U:H5''	22:FB:1345:G:C4'	2.50	0.42
22:FB:1531:C:C2'	22:FB:1572:C:C1'	2.72	0.42
22:FB:1542:G:C2'	22:FB:1560:A:H61	2.25	0.42
22:FB:1704:G:H2'	22:FB:1718:A:N6	2.35	0.42
22:FB:1762:C:O2'	22:FB:1763:G:H5'	2.19	0.42
22:FB:1848:U:H2'	22:FB:1849:G:H5'	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:FB:1973:C:O2'	22:FB:1974:U:H5'	2.20	0.42
22:FB:2062:U:HO2'	47:F1:32:HIS:CE1	2.31	0.42
22:FB:205:A:C2'	22:FB:206:U:H5''	2.49	0.42
22:FB:2252:A:H2'	22:FB:2253:A:O4'	2.19	0.42
22:FB:2380:U:H2'	22:FB:2382:C:H5	1.83	0.42
22:FB:2469:G:H5''	22:FB:2470:U:C5	2.55	0.42
22:FB:2579:A:H2'	22:FB:2580:C:C6	2.55	0.42
22:FB:2727:G:H1'	22:FB:2736:U:H5	1.82	0.42
22:FB:2701:A:C5	22:FB:2848:A:N7	2.85	0.42
22:FB:3190:G:H2'	22:FB:3191:A:O4'	2.20	0.42
22:FB:36:G:H4'	22:FB:463:C:C5	2.55	0.42
22:FB:3876:A:N6	22:FB:1861:G:N2	2.67	0.42
22:FB:569:C:H2'	22:FB:570:G:O4'	2.19	0.42
22:FB:709:A:H2'	22:FB:710:C:C6	2.55	0.42
22:FB:796:A:H2'	22:FB:797:A:C4'	2.48	0.42
22:FB:818:G:O2'	33:FM:41:SER:HB3	2.19	0.42
24:FD:27:LYS:O	24:FD:28:ARG:O	2.38	0.42
25:FE:144:ARG:HD3	25:FE:146:THR:HB	2.02	0.42
25:FE:108:SER:O	25:FE:191:ALA:HB2	2.20	0.42
25:FE:73:ALA:HA	25:FE:74:PRO:HD3	1.70	0.42
27:FG:106:ILE:HG12	27:FG:137:ILE:O	2.20	0.42
27:FG:8:TYR:O	27:FG:13:ARG:HB2	2.19	0.42
22:FB:538:A:C8	31:FK:139:ARG:NH2	2.82	0.42
32:FL:71:LYS:HE3	32:FL:101:ASN:CG	2.39	0.42
22:FB:824:U:OP2	33:FM:33:GLY:HA2	2.20	0.42
36:FP:101:LYS:O	36:FP:103:LEU:N	2.53	0.42
40:FT:115:ASN:OD1	40:FT:117:ILE:HG23	2.19	0.42
41:FU:7:LEU:HD12	41:FU:41:ALA:O	2.19	0.42
42:FV:59:LYS:N	42:FV:60:PRO:HD3	2.35	0.42
1:GA:1279:A:O2'	1:GA:1281:U:H5''	2.18	0.42
1:GA:1374:A:O2'	7:GG:28:ASN:O	2.35	0.42
1:GA:541:G:H2'	1:GA:542:G:C8	2.54	0.42
1:GA:903:G:H2'	1:GA:904:C:H6	1.84	0.42
3:GC:118:GLN:O	3:GC:122:GLU:HG3	2.20	0.42
9:GI:78:LYS:O	9:GI:102:LEU:HB3	2.19	0.42
10:GJ:49:VAL:C	14:GN:45:ARG:HG3	2.30	0.42
10:GJ:11:PHE:HB3	14:GN:55:GLY:HA3	2.02	0.42
14:GN:8:GLU:O	14:GN:11:LYS:HB2	2.19	0.42
18:GR:73:ALA:HA	18:GR:78:LEU:HB3	2.02	0.42
22:HB:1378:A:P	47:H1:11:PRO:HG2	2.60	0.42
22:HB:760:U:O4	48:H2:3:LYS:HD2	2.17	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
53:H7:165:VAL:O	53:H7:167:VAL:HG23	2.19	0.42
23:HA:9:G:H1'	23:HA:117:G:N2	2.34	0.42
22:HB:1074:G:H2'	22:HB:1075:C:O4'	2.20	0.42
22:HB:1197:U:H2'	22:HB:1198:C:O4'	2.19	0.42
22:HB:1202:U:H1'	39:HS:80:TYR:OH	2.20	0.42
22:HB:1289:A:OP1	22:HB:1662:G:C2'	2.67	0.42
22:HB:1289:A:OP2	22:HB:1662:G:C2	2.72	0.42
22:HB:1555:A:N3	22:HB:1555:A:C2'	2.80	0.42
22:HB:1746:A:OP1	37:HQ:124:VAL:CB	2.67	0.42
22:HB:1784:C:O2'	22:HB:1785:A:H5'	2.19	0.42
22:HB:1816:G:H22	24:HD:252:LYS:HE3	1.84	0.42
22:HB:1888:C:O2	22:HB:1913:G:C2	2.73	0.42
22:HB:2212:U:H2'	22:HB:2213:G:C8	2.54	0.42
22:HB:2828:C:H2'	22:HB:2829:A:C8	2.55	0.42
22:HB:2850:U:H2'	22:HB:2851:G:O4'	2.20	0.42
22:HB:3:U:N3	22:HB:2875:C:C2	2.73	0.42
22:HB:3876:A:N6	53:H7:44:GLY:C	2.73	0.42
22:HB:503:G:N2	40:HT:74:SER:HB3	2.30	0.42
22:HB:584:A:H2'	22:HB:585:U:C6	2.54	0.42
22:HB:582:G:C5'	22:HB:584:A:H62	2.32	0.42
22:HB:592:G:H5''	38:HR:7:GLY:N	2.33	0.42
22:HB:639:G:H2'	22:HB:640:C:C6	2.54	0.42
22:HB:730:C:H2'	22:HB:731:A:C8	2.55	0.42
22:HB:75:C:H1'	45:HY:55:THR:CB	2.46	0.42
22:HB:761:G:C8	40:HT:110:ALA:O	2.72	0.42
24:HD:63:ARG:NH2	24:HD:157:ARG:HH11	2.18	0.42
22:HB:2489:C:O3'	25:HE:125:GLY:HA2	2.14	0.42
25:HE:116:VAL:HG22	25:HE:155:ARG:O	2.20	0.42
25:HE:105:THR:O	25:HE:196:VAL:HG22	2.20	0.42
25:HE:1:MET:C	25:HE:2:LYS:HD3	2.40	0.42
25:HE:44:TYR:CG	25:HE:82:ARG:HG2	2.54	0.42
26:HF:19:LEU:HD11	26:HF:108:ILE:O	2.19	0.42
26:HF:158:ARG:HH12	26:HF:169:VAL:HG23	1.84	0.42
27:HG:74:ILE:HG22	27:HG:76:ASN:N	2.31	0.42
31:HK:49:VAL:HG21	31:HK:88:VAL:HA	2.02	0.42
33:HM:26:THR:HG22	33:HM:27:ASP:N	2.35	0.42
35:HO:112:LEU:HD22	35:HO:113:ILE:C	2.39	0.42
36:HP:80:ALA:O	36:HP:84:ILE:HA	2.19	0.42
37:HQ:67:THR:CB	37:HQ:82:PRO:HB3	2.49	0.42
41:HU:75:ARG:O	41:HU:76:LYS:HD3	2.20	0.42
42:HV:24:VAL:HG21	42:HV:32:GLN:HB3	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:HN:64:LYS:HG3	43:HW:173:PRO:C	2.40	0.42
1:IA:1102:A:H5'	2:IB:98:LEU:HD22	2.01	0.42
1:IA:1528:U:HO2'	1:IA:1529:G:P	2.42	0.42
1:IA:511:C:H1'	1:IA:512:U:C5	2.55	0.42
1:IA:799:G:H2'	1:IA:800:G:C8	2.55	0.42
1:IA:863:U:N3	1:IA:865:A:H5''	2.35	0.42
1:IA:903:G:H2'	1:IA:904:C:H6	1.84	0.42
2:IB:147:LYS:HD2	2:IB:147:LYS:N	2.34	0.42
2:IB:16:HIS:NE2	2:IB:214:ILE:HA	2.34	0.42
1:IA:1206:G:C5'	3:IC:193:TYR:CA	2.93	0.42
4:ID:60:GLU:HG3	4:ID:203:VAL:CG2	2.49	0.42
6:IF:10:LEU:HB2	6:IF:11:ASN:H	1.56	0.42
8:IH:64:LYS:HE2	8:IH:64:LYS:C	2.40	0.42
9:II:2:GLU:HB3	9:II:3:GLN:H	1.53	0.42
10:IJ:26:ALA:HB3	10:IJ:85:LEU:HD21	2.01	0.42
1:IA:691:G:H3'	11:IK:26:ASN:HD21	1.85	0.42
12:IL:68:ALA:HB3	12:IL:100:ILE:HD11	2.01	0.42
13:IM:65:LYS:HD2	13:IM:69:GLU:HG2	2.01	0.42
17:IQ:20:THR:HA	17:IQ:43:LEU:CD2	2.49	0.42
17:IQ:81:ARG:CZ	17:IQ:84:LEU:HD12	2.50	0.42
19:IS:11:VAL:HG22	19:IS:39:THR:HB	2.01	0.42
49:J3:33:ALA:O	49:J3:34:LYS:HB2	2.19	0.42
53:J7:111:LEU:CD1	53:J7:148:ILE:HA	2.49	0.42
23:JA:116:C:O2'	36:JP:49:GLN:C	2.58	0.42
22:JB:1174:G:O2'	22:JB:1175:A:H5'	2.18	0.42
22:JB:1377:G:H4'	22:JB:1800:A:C8	2.54	0.42
22:JB:1993:G:H2'	22:JB:1994:U:C6	2.55	0.42
22:JB:2007:G:H2'	22:JB:2008:C:C6	2.55	0.42
22:JB:923:A:C1'	22:JB:2243:C:C4'	2.98	0.42
22:JB:2309:G:O2'	22:JB:2310:G:H5'	2.20	0.42
22:JB:2260:C:C3'	22:JB:2368:G:N3	2.83	0.42
22:JB:2557:G:H1'	25:JE:133:LYS:CD	2.45	0.42
22:JB:2633:A:H5''	22:JB:2634:G:H4'	2.01	0.42
22:JB:2850:U:H2'	22:JB:2851:G:O4'	2.20	0.42
22:JB:295:C:N4	22:JB:368:A:N6	2.64	0.42
22:JB:512:A:OP1	40:JT:16:GLN:CD	2.57	0.42
22:JB:587:A:C2	38:JR:33:ARG:CD	2.94	0.42
22:JB:614:G:H2'	22:JB:615:C:C6	2.54	0.42
22:JB:64:C:N1	41:JU:70:GLY:N	2.68	0.42
22:JB:782:U:H2'	22:JB:783:G:C8	2.54	0.42
22:JB:868:U:O2	44:JX:25:LYS:HD3	2.17	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:JB:907:U:H2'	22:JB:909:C:C6	2.54	0.42
22:JB:1813:A:C5'	24:JD:157:ARG:HH21	2.30	0.42
24:JD:225:ALA:O	24:JD:226:MET:HB3	2.20	0.42
25:JE:144:ARG:HD3	25:JE:146:THR:HB	2.02	0.42
25:JE:24:THR:HG22	25:JE:25:VAL:H	1.83	0.42
25:JE:73:ALA:HA	25:JE:74:PRO:HD3	1.70	0.42
25:JE:98:GLU:OE2	25:JE:175:ILE:HG13	2.19	0.42
26:JF:19:LEU:HD11	26:JF:108:ILE:O	2.19	0.42
22:JB:3094:A:H4'	29:JI:28:TRP:HZ3	1.77	0.42
29:JI:4:ILE:HG22	29:JI:5:LEU:H	1.84	0.42
31:JK:116:ARG:HH22	31:JK:126:VAL:CG1	2.27	0.42
31:JK:122:HIS:HB2	31:JK:123:PRO:CD	2.49	0.42
31:JK:93:LYS:C	31:JK:94:LYS:HZ3	2.23	0.42
32:JL:123:PHE:CG	32:JL:124:MET:N	2.88	0.42
33:JM:7:LYS:N	33:JM:8:PRO:CD	2.79	0.42
34:JN:44:LYS:NZ	34:JN:46:ASN:HB3	2.34	0.42
35:JO:83:VAL:O	35:JO:86:LYS:HB3	2.20	0.42
37:JQ:73:PHE:HB3	37:JQ:74:GLY:H	1.64	0.42
38:JR:93:LYS:O	38:JR:94:VAL:HB	2.19	0.42
22:JB:1202:U:N3	39:JS:80:TYR:OH	2.48	0.42
22:JB:1225:G:N1	40:JT:12:LYS:HE3	2.35	0.42
22:JB:346:C:H4'	42:JV:82:ALA:HB3	2.02	0.42
43:JW:25:ASN:N	43:JW:25:ASN:HD22	2.17	0.42
43:JW:67:LYS:HD2	43:JW:84:TYR:N	2.34	0.42
43:JW:69:VAL:HG12	43:JW:70:GLN:N	2.34	0.42
46:JZ:47:VAL:CG1	46:JZ:50:LEU:HD22	2.50	0.42
1:AA:129(A):G:H5"	1:AA:130:A:H2'	2.01	0.42
1:AA:815:A:C2	1:AA:1529:G:C2	3.02	0.42
1:AA:768:A:OP1	1:AA:804:U:H5"	2.19	0.42
1:AA:964:A:H2'	1:AA:965:A:C8	2.54	0.42
1:AA:969:A:OP2	10:AJ:56:HIS:ND1	2.53	0.42
3:AC:67:THR:OG1	3:AC:102:ASN:HB2	2.20	0.42
4:AD:194:LEU:CD2	4:AD:194:LEU:H	2.32	0.42
7:AG:137:LYS:O	7:AG:141:VAL:HG23	2.19	0.42
5:AE:152:ARG:HE	8:AH:42:GLU:CD	2.15	0.42
11:AK:50:TYR:OH	11:AK:57:THR:HG23	2.20	0.42
12:AL:83:VAL:HG22	12:AL:84:LEU:H	1.83	0.42
13:AM:77:ASN:HA	13:AM:80:ARG:NH1	2.35	0.42
1:AA:1047:G:O3'	14:AN:3:ARG:HG3	2.19	0.42
10:AJ:49:VAL:HG13	14:AN:45:ARG:CA	2.38	0.42
1:AA:668:G:C2	15:AO:45:VAL:HB	2.48	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:AO:88:ARG:HB3	22:BB:727:U:C4	2.54	0.42
1:AA:276:G:C5'	17:AQ:43:LEU:CD2	2.91	0.42
19:AS:17:GLU:O	19:AS:21:GLU:HG3	2.19	0.42
20:AT:19:SER:HA	20:AT:22:ARG:NE	2.35	0.42
49:B3:17:GLY:C	49:B3:19:GLY:H	2.23	0.42
50:B4:37:LYS:NZ	50:B4:37:LYS:HB3	2.35	0.42
50:B4:41:GLN:CD	50:B4:41:GLN:H	2.22	0.42
22:BB:2399:C:N4	51:B5:31:HIS:CE1	2.88	0.42
51:B5:41:ILE:O	51:B5:41:ILE:HD13	2.20	0.42
22:BB:1861:G:C6	53:B7:199:ASN:O	2.57	0.42
23:BA:99:G:H2'	23:BA:100:G:C8	2.49	0.42
22:BB:986:A:N6	22:BB:1000:G:H1'	2.35	0.42
22:BB:1471:G:N2	22:BB:2681:A:H61	2.06	0.42
22:BB:1714:A:H5''	22:BB:1715:A:H8	1.85	0.42
22:BB:1897:C:H2'	22:BB:1898:U:H5'	2.01	0.42
22:BB:2023:C:OP1	31:BK:132:PHE:HB2	2.19	0.42
22:BB:2585:C:H2'	22:BB:2586:G:H8	1.84	0.42
22:BB:2790:C:H2'	48:B2:43:HIS:HB2	2.01	0.42
22:BB:2823:G:O2'	22:BB:2824:C:H5'	2.19	0.42
22:BB:486:U:H2'	22:BB:487:G:C8	2.55	0.42
22:BB:894:G:H2'	22:BB:895:G:C1'	2.50	0.42
22:BB:914:C:H2'	22:BB:915:C:H6	1.82	0.42
22:BB:915:C:H2'	22:BB:916:U:H6	1.85	0.42
22:BB:939:C:H2'	22:BB:940:G:C8	2.54	0.42
22:BB:959:C:OP1	22:BB:972:C:H4'	2.20	0.42
24:BD:68:LYS:HE2	24:BD:106:LEU:HD23	2.01	0.42
24:BD:141:VAL:HB	24:BD:195:ALA:HA	2.02	0.42
24:BD:225:ALA:O	24:BD:226:MET:HB3	2.20	0.42
25:BE:105:THR:O	25:BE:196:VAL:HG22	2.19	0.42
25:BE:144:ARG:H	25:BE:144:ARG:CZ	2.33	0.42
25:BE:144:ARG:HD3	25:BE:146:THR:HB	2.02	0.42
25:BE:144:ARG:HH21	25:BE:145:LYS:C	2.23	0.42
25:BE:44:TYR:CG	25:BE:82:ARG:HG2	2.54	0.42
27:BG:11:GLN:O	27:BG:14:PRO:HD2	2.19	0.42
27:BG:44:LYS:O	27:BG:50:ILE:HG23	2.19	0.42
27:BG:91:LEU:HD23	27:BG:91:LEU:N	2.35	0.42
32:BL:83:ARG:HD3	32:BL:85:ASP:CB	2.48	0.42
33:BM:26:THR:HG22	33:BM:27:ASP:N	2.35	0.42
34:BN:37:ALA:O	34:BN:38:MET:HB3	2.19	0.42
34:BN:68:ARG:HG3	34:BN:68:ARG:HH11	1.85	0.42
35:BO:13:ASN:N	35:BO:13:ASN:ND2	2.67	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BO:22:ARG:HH11	35:BO:22:ARG:HG3	1.84	0.42
35:BO:83:VAL:O	35:BO:86:LYS:HB3	2.19	0.42
37:BQ:56:ALA:H	37:BQ:71:ILE:HG12	1.85	0.42
22:BB:1238:A:OP1	39:BS:72:ARG:O	2.38	0.42
22:BB:504:G:C2	40:BT:78:ASN:OD1	2.69	0.42
41:BU:75:ARG:O	41:BU:76:LYS:HD3	2.20	0.42
43:BW:115:ILE:HG22	43:BW:116:VAL:N	2.35	0.42
44:BX:31:VAL:HG12	44:BX:32:LYS:CG	2.49	0.42
45:BY:41:HIS:O	45:BY:42:ARG:HB2	2.20	0.42
1:CA:250:A:H5'	1:CA:252:U:H5''	2.02	0.42
1:CA:768:A:OP1	1:CA:804:U:H5''	2.19	0.42
1:CA:794:A:OP1	1:CA:1521:G:H1'	2.20	0.42
1:CA:903:G:H2'	1:CA:904:C:H6	1.84	0.42
1:CA:928:G:O2'	1:CA:929:G:H5'	2.19	0.42
2:CB:172:ILE:HG22	2:CB:176:GLU:OE1	2.20	0.42
2:CB:53:ARG:O	2:CB:53:ARG:HG2	2.20	0.42
10:CJ:7:LYS:O	10:CJ:8:LEU:HD23	2.19	0.42
11:CK:21:ILE:HB	11:CK:83:ILE:O	2.19	0.42
14:CN:33:VAL:CG1	14:CN:40:CYS:HB3	2.49	0.42
16:CP:66:PRO:HB2	16:CP:67:THR:H	1.67	0.42
1:CA:279:A:OP2	17:CQ:41:LYS:HE2	2.20	0.42
52:D6:17:VAL:CG2	52:D6:24:LEU:HG	2.50	0.42
22:DB:1018:C:O2'	31:DK:134:MET:C	2.57	0.42
22:DB:1032:A:N3	22:DB:1133:G:C4'	2.82	0.42
22:DB:115:G:OP1	22:DB:118:U:OP1	2.38	0.42
22:DB:1398:G:C2	22:DB:1416:A:C4	3.08	0.42
22:DB:1542:G:C2'	22:DB:1560:A:H61	2.25	0.42
22:DB:1312:G:N2	22:DB:1657:A:H5'	2.35	0.42
22:DB:1712:G:N3	22:DB:1712:G:H3'	2.35	0.42
22:DB:1883:A:O2'	22:DB:1954:A:P	2.78	0.42
22:DB:1973:C:O2'	22:DB:1974:U:H5'	2.20	0.42
22:DB:871:U:H2'	22:DB:2247:A:H2'	2.02	0.42
22:DB:1140:A:N6	22:DB:2470:U:H5	2.17	0.42
22:DB:2771:C:C2'	22:DB:2781:G:H22	2.33	0.42
22:DB:399:G:H4'	22:DB:400:U:C4	2.55	0.42
22:DB:547:U:H5''	31:DK:30:LYS:CG	2.13	0.42
22:DB:547:U:H2'	22:DB:548:G:O4'	2.19	0.42
22:DB:582:G:C5'	22:DB:584:A:H62	2.32	0.42
22:DB:661:C:OP1	51:D5:20:GLY:HA3	2.19	0.42
22:DB:730:C:H2'	22:DB:731:A:C8	2.55	0.42
22:DB:83:A:H5''	22:DB:84:G:O5'	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:DB:991:A:N6	22:DB:2020:G:H21	2.17	0.42
24:DD:27:LYS:O	24:DD:28:ARG:O	2.38	0.42
25:DE:44:TYR:CG	25:DE:82:ARG:HG2	2.54	0.42
27:DG:11:GLN:O	27:DG:14:PRO:HD2	2.19	0.42
27:DG:91:LEU:N	27:DG:91:LEU:HD23	2.35	0.42
28:DH:125:VAL:N	28:DH:126:PRO:HD2	2.34	0.42
28:DH:18:ASN:ND2	28:DH:18:ASN:N	2.68	0.42
31:DK:44:VAL:HG12	31:DK:45:ASP:N	2.34	0.42
32:DL:122:ARG:HH21	32:DL:124:MET:HE1	1.85	0.42
22:DB:2653:A:C5'	32:DL:42:LYS:HG2	2.45	0.42
34:DN:46:ASN:HA	34:DN:49:GLU:CB	2.49	0.42
36:DP:101:LYS:O	36:DP:103:LEU:N	2.53	0.42
37:DQ:68:VAL:O	37:DQ:70:LYS:HG2	2.20	0.42
37:DQ:67:THR:CB	37:DQ:82:PRO:HB3	2.49	0.42
38:DR:51:ARG:NH2	38:DR:54:LYS:HE3	2.35	0.42
40:DT:72:LEU:HA	40:DT:126:ILE:HG21	2.02	0.42
42:DV:59:LYS:N	42:DV:60:PRO:HD3	2.35	0.42
22:DB:886:A:C4	43:DW:167:THR:HG23	2.55	0.42
23:DA:108:G:P	43:DW:89:GLY:HA3	2.60	0.42
1:EA:1016:A:O2'	1:EA:1217:C:H1'	2.20	0.42
1:EA:1101:A:O2'	1:EA:1102:A:P	2.78	0.42
1:EA:1184:G:O2'	1:EA:1185:G:H5'	2.19	0.42
1:EA:1347:G:H2'	1:EA:1373:G:H1	1.83	0.42
1:EA:476:U:H2'	1:EA:477:G:H8	1.85	0.42
1:EA:812:C:O2'	1:EA:813:U:P	2.78	0.42
1:EA:903:G:H2'	1:EA:904:C:H6	1.85	0.42
1:EA:959:A:H2'	1:EA:960:U:C4'	2.49	0.42
2:EB:124:SER:HB2	2:EB:125:PRO:HD2	2.02	0.42
2:EB:155:LEU:HD11	2:EB:159:PRO:HD3	2.01	0.42
2:EB:172:ILE:HG22	2:EB:176:GLU:OE1	2.20	0.42
8:EH:7:ALA:O	8:EH:11:THR:HG23	2.20	0.42
9:EI:78:LYS:O	9:EI:102:LEU:HB3	2.19	0.42
9:EI:105:ASP:HB3	9:EI:107:ARG:HG3	2.01	0.42
10:EJ:17:ASP:O	10:EJ:20:ALA:HB3	2.20	0.42
13:EM:88:ARG:O	13:EM:98:VAL:HG12	2.05	0.42
14:EN:8:GLU:O	14:EN:11:LYS:HB2	2.19	0.42
1:EA:667:G:C4'	15:EO:51:HIS:ND1	2.59	0.42
17:EQ:81:ARG:CZ	17:EQ:84:LEU:HD12	2.50	0.42
1:EA:1313:U:O5'	19:ES:6:LYS:CD	2.67	0.42
53:F7:111:LEU:HD22	53:F7:148:ILE:HA	2.01	0.42
53:F7:46:LEU:HG	53:F7:47:LYS:H	1.84	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:FA:20:A:O2'	23:FA:21:C:H5'	2.19	0.42
23:FA:97:C:OP2	43:FW:11:LYS:HE2	2.19	0.42
22:FB:1029:C:OP1	22:FB:1047:G:O4'	2.38	0.42
22:FB:1128:G:H2'	22:FB:1129:A:O4'	2.20	0.42
22:FB:1145:C:C2'	22:FB:1146:G:OP1	2.63	0.42
22:FB:1412:C:H6	22:FB:1412:C:O5'	2.01	0.42
22:FB:1581:C:C2'	22:FB:1583:A:H5'	2.49	0.42
22:FB:1714:A:H5''	22:FB:1715:A:H8	1.85	0.42
22:FB:1752:U:H2'	22:FB:1753:A:O4'	2.19	0.42
22:FB:760:U:N3	22:FB:1997:A:H1'	2.25	0.42
22:FB:222:G:H2'	22:FB:223:C:O4'	2.20	0.42
22:FB:2585:C:H2'	22:FB:2586:G:H8	1.84	0.42
22:FB:10:A:C5	22:FB:2608:A:C5	3.08	0.42
22:FB:2662:C:H42	22:FB:2708:U:C4'	2.32	0.42
22:FB:3176:A:H1'	53:F7:33:ILE:HD13	2.00	0.42
22:FB:365:U:H2'	22:FB:366:U:O4'	2.20	0.42
22:FB:399:G:H4'	22:FB:400:U:C4	2.55	0.42
22:FB:567:G:C5'	31:FK:140:GLN:OE1	2.68	0.42
22:FB:701:U:C2'	22:FB:702:A:H5'	2.50	0.42
22:FB:939:C:H2'	22:FB:940:G:C8	2.54	0.42
22:FB:1810:U:OP2	24:FD:155:LEU:CA	2.67	0.42
24:FD:261:ARG:HG3	24:FD:262:LYS:H	1.84	0.42
24:FD:46:ARG:HG3	24:FD:47:GLY:H	1.80	0.42
25:FE:119:ARG:NH2	25:FE:119:ARG:HB2	2.35	0.42
22:FB:1675:C:C5'	25:FE:131:SER:OG	2.67	0.42
25:FE:111:LYS:CE	25:FE:160:MET:HB3	2.48	0.42
25:FE:105:THR:O	25:FE:196:VAL:HG22	2.20	0.42
27:FG:11:GLN:O	27:FG:14:PRO:HD2	2.19	0.42
27:FG:117:ILE:CB	27:FG:177:PHE:HA	2.48	0.42
27:FG:7:LYS:O	27:FG:12:VAL:HG22	2.19	0.42
27:FG:96:MET:HA	27:FG:99:PHE:HB2	2.02	0.42
31:FK:49:VAL:HG21	31:FK:88:VAL:HA	2.02	0.42
33:FM:79:GLN:O	33:FM:83:LEU:HD11	2.20	0.42
34:FN:98:VAL:HG13	34:FN:100:PRO:HD3	2.02	0.42
35:FO:15:SER:O	35:FO:19:ALA:HB3	2.19	0.42
35:FO:83:VAL:O	35:FO:86:LYS:HB3	2.19	0.42
35:FO:98:LEU:HB3	35:FO:99:ARG:H	1.68	0.42
37:FQ:68:VAL:O	37:FQ:70:LYS:HG2	2.20	0.42
37:FQ:73:PHE:HB3	37:FQ:74:GLY:H	1.64	0.42
22:FB:524:A:C5'	38:FR:30:LYS:HD3	2.49	0.42
22:FB:1238:A:O3'	39:FS:73:LYS:HG2	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:FS:80:TYR:HE1	39:FS:81:ARG:NH1	2.18	0.42
42:FV:92:THR:O	42:FV:107:ALA:HA	2.20	0.42
44:FX:49:GLN:HB2	44:FX:73:GLY:HA3	2.00	0.42
1:GA:1016:A:O2'	1:GA:1217:C:H1'	2.20	0.42
1:GA:1072:G:H2'	1:GA:1073:U:C6	2.54	0.42
1:GA:1101:A:O2'	1:GA:1102:A:P	2.78	0.42
1:GA:1306:A:H2'	1:GA:1307:U:H5'	2.02	0.42
1:GA:1495:U:O4'	22:HB:1895:A:C4	2.71	0.42
1:GA:197:A:O2'	1:GA:198:G:P	2.78	0.42
1:GA:511:C:H1'	1:GA:512:U:C5	2.55	0.42
1:GA:815:A:C2	1:GA:1527:C:C2'	3.03	0.42
1:GA:946:A:O3'	13:GM:114:ARG:CD	2.64	0.42
2:GB:20:GLU:CB	2:GB:190:THR:HB	2.49	0.42
2:GB:61:LEU:HD13	2:GB:64:ARG:HH11	1.84	0.42
4:GD:70:ILE:HG22	4:GD:71:SER:N	2.35	0.42
5:GE:129:ILE:HG22	5:GE:133:TYR:OH	2.20	0.42
5:GE:80:ILE:HG13	5:GE:80:ILE:O	2.19	0.42
6:GF:22:GLU:OE2	6:GF:79:LEU:HD22	2.20	0.42
12:GL:7:ILE:HG22	12:GL:8:ASN:OD1	2.20	0.42
17:GQ:32:TYR:O	17:GQ:34:LYS:N	2.52	0.42
20:GT:35:THR:HA	20:GT:38:LYS:HE3	2.00	0.42
22:HB:2859:U:N3	48:H2:51:TYR:HD1	2.17	0.42
50:H4:40:HIS:ND1	50:H4:41:GLN:N	2.66	0.42
22:HB:1044:U:P	52:H6:16:VAL:CG1	3.08	0.42
53:H7:138:LEU:HD13	53:H7:144:ILE:HD12	2.01	0.42
53:H7:93:LEU:HD13	53:H7:124:LEU:HD11	2.00	0.42
22:HB:986:A:N6	22:HB:1000:G:H1'	2.35	0.42
22:HB:1166:A:C2'	22:HB:1168:G:N7	2.81	0.42
22:HB:1174:G:O2'	22:HB:1175:A:H5'	2.18	0.42
22:HB:1437:A:N6	22:HB:1439:G:H22	2.18	0.42
22:HB:1507:A:C2	22:HB:1509:A:H4'	2.53	0.42
22:HB:1582:A:N7	24:HD:211:ARG:HD2	2.35	0.42
22:HB:1795:C:O2'	22:HB:1796:A:H5'	2.20	0.42
22:HB:1888:C:C2	22:HB:1913:G:N1	2.88	0.42
22:HB:2182:A:N6	22:HB:2205:C:N4	2.68	0.42
22:HB:2576:G:H2'	22:HB:2577:A:H8	1.84	0.42
22:HB:2694:G:H2'	22:HB:2695:C:C6	2.54	0.42
22:HB:26:G:H2'	22:HB:27:G:O4'	2.20	0.42
22:HB:2771:C:C2'	22:HB:2772:U:H5'	2.50	0.42
22:HB:1989:C:O2'	22:HB:2798:A:C2'	2.67	0.42
22:HB:320:A:N7	22:HB:341:A:N7	2.67	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:HB:3876:A:C6	53:H7:45:ASP:OD2	2.73	0.42
22:HB:542:A:HO2'	22:HB:543:G:H5'	1.85	0.42
22:HB:547:U:H2'	22:HB:548:G:O4'	2.19	0.42
22:HB:5:A:C6	22:HB:2873:G:C6	2.97	0.42
22:HB:638:A:H61	22:HB:647:G:H2'	1.84	0.42
22:HB:614:G:H4'	22:HB:669:G:H21	1.84	0.42
24:HD:120:GLY:O	24:HD:121:PRO:C	2.57	0.42
24:HD:27:LYS:O	24:HD:28:ARG:O	2.38	0.42
24:HD:68:LYS:HE2	24:HD:106:LEU:HD23	2.01	0.42
26:HF:116:LYS:HD2	26:HF:116:LYS:O	2.19	0.42
27:HG:136:LEU:HD13	27:HG:150:ARG:HH21	1.85	0.42
27:HG:8:TYR:O	27:HG:13:ARG:HB2	2.20	0.42
28:HH:171:LEU:O	28:HH:171:LEU:HD12	2.20	0.42
28:HH:89:LEU:HD22	28:HH:161:GLY:CA	2.50	0.42
31:HK:122:HIS:O	31:HK:123:PRO:C	2.58	0.42
31:HK:126:VAL:HG13	31:HK:127:ILE:N	2.34	0.42
22:HB:2826:C:C3'	35:HO:64:ARG:HH12	2.27	0.42
37:HQ:68:VAL:O	37:HQ:70:LYS:HG2	2.20	0.42
32:HL:83:ARG:CZ	37:HQ:81:PHE:CE2	3.00	0.42
39:HS:80:TYR:HE1	39:HS:81:ARG:NH1	2.18	0.42
39:HS:22:VAL:HG13	39:HS:90:PHE:CZ	2.54	0.42
22:HB:1284:G:C6	40:HT:107:ILE:O	2.72	0.42
41:HU:54:SER:CB	41:HU:79:ILE:HB	2.49	0.42
44:HX:5:LYS:HB3	44:HX:6:GLY:H	1.61	0.42
1:IA:1414:U:H2'	1:IA:1415:G:H8	1.85	0.42
1:IA:898:G:H2'	1:IA:900:A:OP2	2.19	0.42
4:ID:28:SER:N	4:ID:29:PRO:CD	2.83	0.42
4:ID:10:ARG:NH2	4:ID:66:ARG:NH1	2.66	0.42
7:IG:148:ASN:HA	7:IG:151:TYR:CE1	2.55	0.42
7:IG:23:VAL:C	7:IG:25:ALA:H	2.22	0.42
9:II:70:LYS:HA	9:II:73:GLN:OE1	2.20	0.42
1:IA:676:A:N3	11:IK:118:GLY:HA3	2.35	0.42
11:IK:65:ALA:C	11:IK:67:ASP:H	2.23	0.42
12:IL:83:VAL:HG22	12:IL:84:LEU:H	1.83	0.42
13:IM:84:ILE:HD11	13:IM:86:CYS:HB2	2.02	0.42
18:IR:26:LEU:HD22	18:IR:26:LEU:N	2.35	0.42
20:IT:23:ARG:NE	20:IT:30:LYS:NZ	2.68	0.42
48:J2:25:LEU:CD1	48:J2:27:ALA:H	2.32	0.42
49:J3:48:VAL:HG13	49:J3:49:VAL:N	2.35	0.42
53:J7:128:LEU:HD12	53:J7:133:LYS:HB2	2.01	0.42
53:J7:46:LEU:HG	53:J7:47:LYS:H	1.84	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:JB:986:A:N6	22:JB:1000:G:H1'	2.35	0.42
22:JB:1018:C:P	22:JB:1019:U:H3'	2.60	0.42
22:JB:1032:A:H1'	22:JB:1133:G:H4'	2.02	0.42
22:JB:1555:A:C2'	22:JB:1555:A:N3	2.81	0.42
22:JB:159:A:H1'	22:JB:447:U:C5'	2.49	0.42
22:JB:1715:A:H4'	22:JB:1754:G:H22	1.85	0.42
22:JB:1717:A:H3'	22:JB:1718:A:H8	1.82	0.42
22:JB:222:G:H2'	22:JB:223:C:O4'	2.20	0.42
22:JB:2542:U:H4'	32:JL:41:ASN:CA	2.44	0.42
22:JB:3124:G:C4'	53:J7:61:ALA:C	2.88	0.42
22:JB:3167:U:N3	53:J7:101:LYS:CG	2.75	0.42
22:JB:347:C:H4'	42:JV:14:LEU:HA	2.02	0.42
22:JB:488:A:N3	42:JV:76:LEU:HD13	2.35	0.42
22:JB:638:A:H61	22:JB:647:G:H2'	1.84	0.42
22:JB:69:G:H5'	22:JB:72:A:O4'	2.20	0.42
22:JB:730:C:H2'	22:JB:731:A:C8	2.55	0.42
22:JB:899:G:H2'	22:JB:900:U:O4'	2.19	0.42
22:JB:939:C:H2'	22:JB:940:G:C8	2.54	0.42
22:JB:94:C:O3'	45:JY:39:GLN:HG2	2.16	0.42
24:JD:143:HIS:HA	24:JD:161:THR:HB	2.02	0.42
22:JB:1790:G:C6	24:JD:183:ARG:HD2	2.55	0.42
24:JD:261:ARG:HG3	24:JD:262:LYS:H	1.85	0.42
22:JB:1673:C:O5'	25:JE:136:ARG:CZ	2.67	0.42
27:JG:13:ARG:HB3	27:JG:14:PRO:CD	2.45	0.42
30:JJ:71:THR:O	30:JJ:74:MET:HB2	2.19	0.42
31:JK:77:GLY:CA	31:JK:147:ARG:HH22	2.20	0.42
22:JB:631:G:C5	33:JM:96:TYR:CE2	3.00	0.42
34:JN:45:SER:C	34:JN:47:GLN:N	2.70	0.42
34:JN:86:LYS:NZ	34:JN:86:LYS:HB2	2.35	0.42
22:JB:1007:A:O3'	38:JR:93:LYS:HD3	2.20	0.42
41:JU:43:GLN:OE1	41:JU:49:ARG:HA	2.19	0.42
42:JV:92:THR:O	42:JV:107:ALA:HA	2.20	0.42
44:JX:46:LYS:HE2	44:JX:48:GLY:HA2	2.02	0.42
1:AA:1074:G:O2'	1:AA:1075:C:H5'	2.19	0.42
1:AA:1264:C:O2'	1:AA:1265:G:H5'	2.20	0.42
1:AA:1296:C:O2'	1:AA:1297:C:H5'	2.19	0.42
1:AA:1375:A:O4'	7:AG:29:LYS:HG2	2.20	0.42
1:AA:182:U:C1'	20:GT:105:SER:HB3	2.50	0.42
1:AA:910:C:H2'	1:AA:911:U:C6	2.55	0.42
2:AB:145:LEU:HA	2:AB:148:TYR:CD1	2.55	0.42
2:AB:172:ILE:HG22	2:AB:176:GLU:OE1	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AB:186:ALA:O	2:AB:201:ILE:HB	2.20	0.42
3:AC:118:GLN:O	3:AC:122:GLU:HG3	2.20	0.42
3:AC:11:ARG:C	3:AC:16:ARG:HB3	2.39	0.42
6:AF:23:LYS:O	6:AF:27:GLN:HG2	2.20	0.42
6:AF:4:TYR:HA	6:AF:93:SER:H	1.85	0.42
7:AG:148:ASN:HA	7:AG:151:TYR:CE1	2.55	0.42
12:AL:83:VAL:HB	12:AL:107:ALA:CB	2.46	0.42
12:AL:7:ILE:HG22	12:AL:8:ASN:OD1	2.20	0.42
10:AJ:64:GLU:C	14:AN:56:VAL:HA	2.37	0.42
16:AP:59:TRP:HB3	16:AP:64:ALA:HB3	2.02	0.42
1:AA:265:G:H1'	17:AQ:66:SER:N	2.18	0.42
19:AS:52:TYR:C	19:AS:53:ASN:HD22	2.23	0.42
47:B1:30:GLU:HG2	47:B1:30:GLU:H	1.54	0.42
22:BB:157:G:O5'	50:B4:36:ALA:HB3	2.19	0.42
22:BB:1136:G:H8	52:B6:4:ARG:CG	2.25	0.42
22:BB:1381:G:H2'	22:BB:1382:G:C8	2.55	0.42
22:BB:1437:A:C2	22:BB:1438:G:C5	2.67	0.42
22:BB:1453:A:C8	22:BB:1454:U:C5	3.08	0.42
22:BB:1498:G:N1	22:BB:1523:A:H1'	2.35	0.42
22:BB:1312:G:N2	22:BB:1657:A:H5'	2.35	0.42
22:BB:1712:G:N3	22:BB:1712:G:H3'	2.35	0.42
22:BB:1848:U:H2'	22:BB:1849:G:H5'	2.01	0.42
22:BB:1883:A:C4	22:BB:1953:A:C5	3.08	0.42
22:BB:760:U:N3	22:BB:1997:A:H1'	2.25	0.42
22:BB:1846:A:H2	22:BB:2211:U:HO2'	1.68	0.42
22:BB:2469:G:H5''	22:BB:2470:U:C5	2.55	0.42
22:BB:2633:A:H5''	22:BB:2634:G:H4'	2.01	0.42
22:BB:399:G:H4'	22:BB:400:U:C4	2.55	0.42
22:BB:546:A:H2'	22:BB:547:U:H5	1.81	0.42
22:BB:582:G:C5'	22:BB:584:A:H62	2.32	0.42
22:BB:7:G:C2	22:BB:2871:U:C2	3.08	0.42
24:BD:144:ALA:N	24:BD:155:LEU:HD11	2.35	0.42
24:BD:27:LYS:O	24:BD:28:ARG:O	2.38	0.42
25:BE:108:SER:O	25:BE:191:ALA:HB2	2.20	0.42
22:BB:6:A:C1'	31:BK:163:PRO:CG	2.98	0.42
31:BK:161:GLN:NE2	31:BK:163:PRO:HG2	2.35	0.42
32:BL:21:CYS:HA	32:BL:53:ALA:CA	2.50	0.42
32:BL:76:ARG:HH21	32:BL:90:ARG:CZ	2.32	0.42
34:BN:46:ASN:HA	34:BN:49:GLU:CB	2.49	0.42
35:BO:43:GLU:C	35:BO:46:PRO:HD2	2.40	0.42
38:BR:89:ASP:O	38:BR:90:LEU:HB2	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:BT:55:ASP:CA	40:BT:58:ARG:HB3	2.50	0.42
41:BU:17:TYR:H	41:BU:20:MET:CB	2.30	0.42
22:BB:348:U:H5'	42:BV:13:LYS:CE	2.49	0.42
42:BV:23:ILE:HG13	42:BV:87:GLU:CD	2.40	0.42
22:BB:917:U:H3'	43:BW:120:LEU:HD12	1.20	0.42
43:BW:123:VAL:O	43:BW:124:ALA:CB	2.64	0.42
43:BW:17:SER:HA	43:BW:36:ARG:HH22	1.84	0.42
1:CA:1305:G:H2'	1:CA:1331:G:N2	2.35	0.42
1:CA:1316:G:N3	1:CA:1318:A:H8	2.17	0.42
1:CA:1359:C:H2'	1:CA:1361:G:OP2	2.20	0.42
1:CA:378:G:H5''	16:CP:25:ARG:HD3	2.02	0.42
1:CA:474:U:H2'	1:CA:475:C:C6	2.55	0.42
1:CA:755:G:H2'	1:CA:756:C:C5	2.54	0.42
1:CA:860:A:OP1	8:CH:73:ASP:CG	2.58	0.42
1:CA:910:C:H2'	1:CA:911:U:C6	2.55	0.42
1:CA:939:G:O2'	7:CG:29:LYS:CE	2.67	0.42
1:CA:959:A:H2'	1:CA:960:U:C4'	2.49	0.42
1:CA:988:G:H2'	1:CA:989:C:O4'	2.20	0.42
2:CB:102:LEU:HD12	2:CB:102:LEU:N	2.30	0.42
2:CB:20:GLU:CB	2:CB:190:THR:HB	2.49	0.42
3:CC:118:GLN:O	3:CC:122:GLU:HG3	2.20	0.42
3:CC:36:ASP:HB2	3:CC:37:GLN:HE22	1.82	0.42
4:CD:194:LEU:H	4:CD:194:LEU:CD2	2.32	0.42
4:CD:70:ILE:HG22	4:CD:71:SER:N	2.35	0.42
10:CJ:38:ILE:HG13	10:CJ:38:ILE:O	2.19	0.42
1:CA:1307:U:H4'	13:CM:109:THR:HG22	2.02	0.42
13:CM:78:ILE:HG23	13:CM:81:LEU:HG	2.01	0.42
13:CM:77:ASN:HA	13:CM:80:ARG:NH1	2.35	0.42
13:CM:84:ILE:C	13:CM:86:CYS:H	2.23	0.42
10:CJ:63:PHE:CA	14:CN:58:LYS:HA	2.47	0.42
17:CQ:21:VAL:HG12	17:CQ:22:LEU:N	2.32	0.42
19:CS:22:LEU:HD22	19:CS:28:LYS:O	2.20	0.42
1:CA:958:A:N3	19:CS:55:LYS:HB3	2.35	0.42
22:DB:2859:U:C4	48:D2:53:ASP:OD1	2.71	0.42
49:D3:17:GLY:C	49:D3:19:GLY:H	2.22	0.42
51:D5:10:ALA:O	51:D5:14:ILE:HG13	2.19	0.42
51:D5:57:ARG:HE	51:D5:57:ARG:HA	1.82	0.42
53:D7:77:LYS:HZ1	53:D7:84:VAL:H	1.68	0.42
22:DB:1290:A:N9	35:DO:23:ALA:O	2.53	0.42
22:DB:16:G:C5'	48:D2:17:ASP:HB3	2.49	0.42
22:DB:1967:U:O2'	22:DB:1968:G:H5'	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:DB:2753:C:H4'	25:DE:163:GLU:HB3	2.02	0.42
22:DB:36:G:H4'	22:DB:463:C:C5	2.55	0.42
22:DB:496:C:O2'	22:DB:497:C:H5'	2.20	0.42
22:DB:546:A:H2'	22:DB:547:U:H5	1.81	0.42
22:DB:8:A:O2'	31:DK:36:ASN:ND2	2.52	0.42
22:DB:986:A:N6	22:DB:1000:G:H1'	2.35	0.42
24:DD:28:ARG:HD2	24:DD:84:TYR:CE2	2.55	0.42
23:DA:57:U:H1'	27:DG:26:MET:CE	2.49	0.42
31:DK:43:VAL:HG21	31:DK:165:VAL:HA	2.00	0.42
31:DK:49:VAL:HG21	31:DK:88:VAL:HA	2.02	0.42
22:DB:2628:C:H4'	32:DL:29:ILE:HD11	0.44	0.42
39:DS:80:TYR:HB3	39:DS:81:ARG:H	1.63	0.42
41:DU:17:TYR:H	41:DU:20:MET:CB	2.30	0.42
22:DB:339:U:H1'	42:DV:77:HIS:CE1	2.54	0.42
44:DX:80:SER:HB3	44:DX:83:ALA:HB3	2.01	0.42
1:EA:1062:U:H2'	1:EA:1063:C:C5	2.54	0.42
1:EA:1114:C:H2'	1:EA:1115:C:H6	1.85	0.42
1:EA:1305:G:H2'	1:EA:1331:G:N2	2.35	0.42
1:EA:250:A:H5'	1:EA:252:U:H5''	2.02	0.42
1:EA:474:U:H2'	1:EA:475:C:C6	2.55	0.42
1:EA:607:A:H5''	1:EA:630:G:N2	2.35	0.42
1:EA:735:C:OP1	18:ER:68:LYS:HE2	2.20	0.42
1:EA:812:C:H4'	1:EA:813:U:C5'	2.49	0.42
1:EA:86:G:H5''	1:EA:87:G:N7	2.35	0.42
2:EB:171:ALA:HA	2:EB:174:VAL:CG2	2.50	0.42
2:EB:48:MET:HE3	2:EB:52:GLU:HG3	2.02	0.42
2:EB:53:ARG:O	2:EB:53:ARG:HG2	2.20	0.42
3:EC:12:LEU:CD1	14:EN:51:GLY:N	2.82	0.42
1:EA:619:U:C5	4:ED:133:VAL:HG13	2.54	0.42
4:ED:13:ARG:HB3	4:ED:39:PRO:HA	2.01	0.42
9:EI:27:THR:HG23	9:EI:32:ASP:H	1.85	0.42
1:EA:778:G:H2'	11:EK:120:ARG:HB3	2.01	0.42
12:EL:43:VAL:O	12:EL:45:PRO:HD3	2.19	0.42
13:EM:97:PRO:HA	13:EM:110:ARG:CZ	2.49	0.42
18:ER:74:ARG:HA	18:ER:79:LEU:O	2.20	0.42
49:F3:43:VAL:HG23	49:F3:44:ALA:N	2.30	0.42
22:FB:1635:G:N2	50:F4:1:MET:H3	2.17	0.42
22:FB:1322:G:O2'	50:F4:7:PRO:HG3	2.20	0.42
53:F7:63:ARG:HD2	53:F7:81:PRO:O	2.19	0.42
22:FB:986:A:N6	22:FB:1000:G:H1'	2.35	0.42
22:FB:1261:G:H5'	26:FF:86:PRO:CD	2.46	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:FB:13:A:H61	22:FB:535:U:C2'	2.31	0.42
22:FB:156:G:C4	22:FB:157:G:N7	2.88	0.42
22:FB:1394:G:C2'	22:FB:1588:A:N6	2.83	0.42
22:FB:1625:A:N3	22:FB:1625:A:C2'	2.83	0.42
22:FB:1312:G:N2	22:FB:1657:A:H5'	2.35	0.42
22:FB:1967:U:O2'	22:FB:1968:G:H5'	2.20	0.42
22:FB:228:A:P	33:FM:55:ARG:HD3	2.60	0.42
22:FB:2325:A:C6	49:F3:27:ASN:HB3	2.54	0.42
22:FB:423:G:N2	22:FB:2386:G:N3	2.67	0.42
22:FB:2491:C:H2'	22:FB:2492:G:C4'	2.50	0.42
22:FB:2633:A:H5''	22:FB:2634:G:H4'	2.01	0.42
22:FB:2784:A:N3	22:FB:2784:A:H3'	2.34	0.42
22:FB:3876:A:C4	53:F7:45:ASP:OD2	2.72	0.42
22:FB:456:C:O2'	22:FB:457:C:H5'	2.20	0.42
22:FB:496:C:O2'	22:FB:497:C:H5'	2.20	0.42
22:FB:547:U:H2'	22:FB:548:G:O4'	2.19	0.42
22:FB:582:G:C5'	22:FB:584:A:H62	2.32	0.42
22:FB:729:A:H2'	22:FB:730:C:C4'	2.50	0.42
22:FB:874:A:O2'	23:FA:81:C:H5''	2.20	0.42
22:FB:891:A:HO3'	22:FB:893:G:P	2.41	0.42
22:FB:907:U:H2'	22:FB:909:C:C6	2.54	0.42
22:FB:677:G:O2'	22:FB:951:G:OP1	2.23	0.42
22:FB:959:C:OP1	22:FB:972:C:H4'	2.20	0.42
22:FB:2580:C:N4	24:FD:237:GLU:OE2	2.50	0.42
22:FB:2554:C:C2	25:FE:140:SER:OG	2.64	0.42
25:FE:144:ARG:HH21	25:FE:145:LYS:C	2.23	0.42
25:FE:167:VAL:O	25:FE:168:GLN:HB2	2.20	0.42
27:FG:2:GLN:HB3	27:FG:6:THR:HG23	2.01	0.42
32:FL:123:PHE:CG	32:FL:124:MET:N	2.87	0.42
33:FM:107:LYS:HD2	33:FM:108:LEU:N	2.34	0.42
34:FN:105:PHE:CE1	34:FN:112:GLU:HA	2.55	0.42
22:FB:1291:G:H4'	35:FO:34:ILE:HA	2.01	0.42
35:FO:43:GLU:C	35:FO:46:PRO:HD2	2.40	0.42
22:FB:457:C:C5'	38:FR:3:ARG:HD2	2.05	0.42
22:FB:828:C:C4'	39:FS:86:HIS:CE1	2.96	0.42
40:FT:40:LEU:HD12	48:F2:20:ARG:CG	2.45	0.42
22:FB:63:A:N6	41:FU:64:ARG:CD	2.82	0.42
22:FB:338:G:HO2'	42:FV:7:GLY:CA	2.23	0.42
43:FW:115:ILE:HG22	43:FW:116:VAL:N	2.35	0.42
43:FW:116:VAL:HG11	43:FW:169:VAL:HG12	2.01	0.42
43:FW:84:TYR:CD2	43:FW:93:GLU:HB2	2.51	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:FB:2344:G:OP1	44:FX:40:GLN:HB2	2.20	0.42
45:FY:39:GLN:OE1	45:FY:42:ARG:HD2	2.19	0.42
1:GA:1079:G:C1'	5:GE:14:ARG:NH2	2.82	0.42
1:GA:1242:C:H2'	1:GA:1243:C:O4'	2.19	0.42
1:GA:253:U:O2	17:GQ:15:MET:HE1	2.05	0.42
1:GA:50:A:H1'	1:GA:52:G:H5''	2.01	0.42
1:GA:720:C:H4'	18:GR:52:PRO:HG3	2.01	0.42
1:GA:859:A:H2'	1:GA:860:A:H5'	2.02	0.42
1:GA:948:C:N4	1:GA:949:A:H62	2.18	0.42
2:GB:145:LEU:HA	2:GB:148:TYR:CD1	2.55	0.42
2:GB:32:ILE:HD13	2:GB:40:HIS:HB3	2.02	0.42
3:GC:156:ARG:H	3:GC:163:ALA:HA	1.85	0.42
7:GG:52:GLU:O	7:GG:53:LYS:C	2.58	0.42
8:GH:26:VAL:HG21	8:GH:32:LYS:HB3	2.01	0.42
11:GK:50:TYR:OH	11:GK:57:THR:HG23	2.20	0.42
1:GA:976:G:OP1	14:GN:31:ARG:CG	2.68	0.42
18:GR:74:ARG:HA	18:GR:79:LEU:O	2.20	0.42
19:GS:22:LEU:HD22	19:GS:28:LYS:O	2.20	0.42
1:AA:182:U:C5	20:GT:106:ALA:C	2.93	0.42
47:H1:41:PRO:CG	47:H1:57:ASP:HA	2.50	0.42
53:H7:176:PRO:C	53:H7:178:ASP:H	2.22	0.42
53:H7:34:LEU:HD12	53:H7:34:LEU:N	2.34	0.42
22:HB:1268:U:H5'	22:HB:1269:G:O4'	2.20	0.42
22:HB:144:U:H2'	22:HB:145:C:C6	2.55	0.42
22:HB:1453:A:C5	22:HB:1454:U:C4	3.08	0.42
22:HB:1498:G:N1	22:HB:1523:A:H1'	2.35	0.42
22:HB:1725:C:HO2'	22:HB:2835:A:C1'	2.31	0.42
22:HB:2030:U:H2'	22:HB:2031:A:H8	1.85	0.42
22:HB:222:G:H2'	22:HB:223:C:O4'	2.20	0.42
22:HB:2245:A:O2'	22:HB:2246:A:P	2.78	0.42
22:HB:2448:A:OP1	34:HN:58:HIS:CE1	2.73	0.42
22:HB:2487:G:H4'	22:HB:2534:U:C5'	2.49	0.42
22:HB:2526:U:C5	22:HB:2545:A:N6	2.88	0.42
22:HB:2861:A:N3	48:H2:40:LYS:HB2	2.26	0.42
22:HB:3112:G:H1	22:HB:3169:A:P	2.43	0.42
22:HB:3190:G:H2'	22:HB:3191:A:O4'	2.20	0.42
22:HB:295:C:N4	22:HB:368:A:N6	2.64	0.42
22:HB:418:C:C5	53:H7:191:GLU:O	2.71	0.42
22:HB:335:A:H2	22:HB:453:U:OP1	2.02	0.42
22:HB:686:C:C4'	26:HF:74:VAL:HG13	2.46	0.42
22:HB:892:A:N6	22:HB:912:A:C4	2.88	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:HB:939:C:H2'	22:HB:940:G:C8	2.54	0.42
22:HB:968:C:N3	22:HB:2438:A:H5'	2.35	0.42
22:HB:2192:U:C5'	24:HD:39:LYS:HZ1	2.33	0.42
22:HB:2550:C:C3'	25:HE:144:ARG:HG3	2.46	0.42
25:HE:151:TYR:HA	31:HK:106:TYR:HH	1.67	0.42
25:HE:116:VAL:HG22	25:HE:156:MET:HA	2.02	0.42
22:HB:2751:C:HO2'	25:HE:166:THR:CG2	2.23	0.42
26:HF:22:VAL:CG2	26:HF:23:ASN:N	2.77	0.42
26:HF:30:VAL:O	26:HF:30:VAL:HG22	2.18	0.42
27:HG:13:ARG:HB3	27:HG:14:PRO:CD	2.44	0.42
27:HG:32:GLU:HB2	27:HG:159:THR:OG1	2.19	0.42
29:HI:29:LEU:HD22	29:HI:29:LEU:N	2.34	0.42
31:HK:161:GLN:NE2	31:HK:163:PRO:HG2	2.35	0.42
22:HB:1152:C:H42	31:HK:53:ARG:CD	2.32	0.42
32:HL:76:ARG:HH21	32:HL:90:ARG:CZ	2.33	0.42
32:HL:78:SER:HA	32:HL:90:ARG:CD	2.48	0.42
22:HB:1256:C:O2	33:HM:14:LYS:O	2.38	0.42
34:HN:68:ARG:HH11	34:HN:68:ARG:HG3	1.85	0.42
34:HN:98:VAL:HG13	34:HN:100:PRO:HD3	2.02	0.42
38:HR:28:ARG:HG2	38:HR:34:ASN:CB	2.49	0.42
39:HS:25:LEU:HB3	39:HS:26:GLN:H	1.53	0.42
22:HB:1203:A:P	39:HS:81:ARG:NH2	2.93	0.42
22:HB:62:U:H5'	41:HU:73:ASN:OD1	2.20	0.42
43:HW:43:PHE:HB2	43:HW:69:VAL:CG2	2.49	0.42
1:IA:1072:G:H2'	1:IA:1073:U:C6	2.54	0.42
1:IA:1349:A:H4'	9:II:121:ARG:NH2	2.35	0.42
1:IA:1360:A:H2'	1:IA:1361:G:H5'	2.01	0.42
1:IA:1324:A:H1'	1:IA:1362:C:P	2.59	0.42
1:IA:390:C:H2'	1:IA:391:G:H8	1.84	0.42
1:IA:503:C:O2'	1:IA:504:C:H5'	2.20	0.42
1:IA:552:U:H1'	12:IL:31:PRO:HB3	2.01	0.42
1:IA:642:A:C8	8:IH:116:LYS:CA	2.96	0.42
1:IA:644:G:H5''	8:IH:92:ARG:CZ	2.46	0.42
1:IA:975:A:H5''	1:IA:1357:A:H2	1.84	0.42
2:IB:104:ASN:HB3	2:IB:108:ILE:HD12	2.01	0.42
2:IB:53:ARG:O	2:IB:53:ARG:HG2	2.20	0.42
5:IE:105:VAL:HG12	5:IE:109:ILE:HD11	2.02	0.42
5:IE:129:ILE:HG22	5:IE:133:TYR:OH	2.20	0.42
7:IG:111:ARG:HH22	7:IG:122:HIS:HB3	1.84	0.42
8:IH:64:LYS:NZ	8:IH:79:VAL:HG21	2.34	0.42
10:IJ:5:ARG:H	10:IJ:100:THR:HA	1.83	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:IM:76:ALA:HA	13:IM:79:LYS:HB2	2.02	0.42
1:IA:392:G:C5'	16:IP:13:HIS:N	2.82	0.42
1:IA:451:A:H5''	16:IP:39:TYR:CE2	2.54	0.42
1:IA:637:G:OP1	17:IQ:5:VAL:CG2	2.68	0.42
18:IR:39:VAL:HG23	18:IR:43:PHE:CD1	2.54	0.42
19:IS:6:LYS:HB3	19:IS:7:LYS:NZ	2.35	0.42
47:J1:22:MET:CB	47:J1:29:PRO:HB3	2.49	0.42
22:JB:1142:G:N2	31:JK:103:TYR:CE2	2.70	0.42
22:JB:1202:U:C1'	39:JS:80:TYR:CZ	3.03	0.42
22:JB:1440:G:P	22:JB:1575:C:H41	2.43	0.42
22:JB:1714:A:H5''	22:JB:1715:A:H8	1.85	0.42
22:JB:201:G:H2'	22:JB:202:A:C8	2.54	0.42
22:JB:2030:U:H2'	22:JB:2031:A:H8	1.85	0.42
22:JB:841:G:H1	22:JB:2226:A:HO2'	1.66	0.42
22:JB:2328:G:OP1	51:J5:42:ARG:NH1	2.52	0.42
22:JB:2402:U:H1'	22:JB:2404:A:C5	2.55	0.42
22:JB:2600:A:H4'	25:JE:158:GLY:CA	2.50	0.42
22:JB:10:A:C6	22:JB:2608:A:C1'	3.03	0.42
22:JB:2638:G:C5	28:JH:180:GLY:CA	2.75	0.42
22:JB:2722:C:H5'	52:J6:35:ARG:CB	2.48	0.42
22:JB:574:C:H2'	22:JB:575:U:O4'	2.20	0.42
22:JB:677:G:H2'	22:JB:678:G:N9	2.21	0.42
22:JB:67:G:H2'	22:JB:68:C:O4'	2.20	0.42
22:JB:791:G:H2'	22:JB:792:U:H6	1.85	0.42
22:JB:83:A:H5''	22:JB:84:G:O5'	2.20	0.42
22:JB:946:U:H2'	22:JB:947:C:N1	2.34	0.42
24:JD:63:ARG:NH2	24:JD:157:ARG:HH11	2.18	0.42
24:JD:22:SER:HA	24:JD:206:LEU:C	2.40	0.42
25:JE:168:GLN:HB3	25:JE:169:ASN:H	1.70	0.42
25:JE:30:PRO:HB3	25:JE:50:GLY:O	2.19	0.42
22:JB:2615:U:OP1	25:JE:79:ARG:CB	2.68	0.42
26:JF:116:LYS:HD2	26:JF:116:LYS:O	2.19	0.42
28:JH:162:VAL:O	28:JH:162:VAL:HG13	2.20	0.42
30:JJ:108:ALA:HB1	30:JJ:124:ALA:HB1	2.02	0.42
32:JL:69:VAL:O	32:JL:70:VAL:HB	2.20	0.42
32:JL:77:THR:HG23	32:JL:78:SER:N	2.34	0.42
35:JO:43:GLU:C	35:JO:46:PRO:HD2	2.40	0.42
22:JB:2684:A:C2	35:JO:60:LEU:HD21	2.55	0.42
37:JQ:63:ARG:O	37:JQ:65:SER:N	2.52	0.42
37:JQ:68:VAL:HG23	37:JQ:83:PHE:O	2.20	0.42
22:JB:1238:A:C5'	39:JS:73:LYS:NZ	2.72	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:JT:109:ARG:HB2	40:JT:115:ASN:ND2	2.34	0.42
22:JB:75:C:H3'	45:JY:56:VAL:CG1	2.50	0.42
1:AA:1319:A:H5'	19:AS:70:LYS:HE2	2.02	0.42
1:AA:1305:G:H2'	1:AA:1331:G:N2	2.35	0.42
1:AA:363:A:O2'	1:AA:364:A:H5'	2.20	0.42
1:AA:366:C:H42	1:AA:394:G:H21	1.67	0.42
1:AA:474:U:H2'	1:AA:475:C:C6	2.55	0.42
1:AA:511:C:H1'	1:AA:512:U:C5	2.55	0.42
1:AA:728:A:H3'	1:AA:729:A:H8	1.84	0.42
1:AA:859:A:H2'	1:AA:860:A:H5'	2.02	0.42
1:AA:86:G:H5''	1:AA:87:G:N7	2.35	0.42
1:AA:948:C:N4	1:AA:949:A:H62	2.18	0.42
1:AA:988:G:H2'	1:AA:989:C:O4'	2.20	0.42
1:AA:9:G:OP1	5:AE:122:GLU:CD	2.58	0.42
2:AB:117:GLU:O	2:AB:120:ALA:HB3	2.20	0.42
3:AC:156:ARG:H	3:AC:163:ALA:HA	1.85	0.42
1:AA:1398:A:C5	5:AE:21:ALA:CB	2.88	0.42
6:AF:37:VAL:HG12	6:AF:38:GLU:N	2.32	0.42
1:AA:1240:U:H5	7:AG:116:ALA:H	1.67	0.42
7:AG:146:GLU:N	7:AG:149:ARG:HB2	2.35	0.42
7:AG:42:ILE:HG13	7:AG:42:ILE:H	1.68	0.42
9:AI:70:LYS:HA	9:AI:73:GLN:OE1	2.20	0.42
1:AA:1248:A:H2'	9:AI:70:LYS:HE3	0.84	0.42
1:AA:1151:A:C4'	10:AJ:39:PRO:CG	2.98	0.42
10:AJ:79:ARG:HH22	10:AJ:83:GLU:CD	2.24	0.42
12:AL:41:ARG:HH11	12:AL:41:ARG:HB3	1.82	0.42
12:AL:46:LYS:HE3	12:AL:47:LYS:HE2	2.01	0.42
15:AO:17:ARG:HB3	15:AO:18:PHE:H	1.59	0.42
1:AA:273:A:C4	17:AQ:16:GLN:HB2	2.54	0.42
17:AQ:46:ASP:CG	17:AQ:49:GLU:HA	2.40	0.42
48:B2:46:CYS:HB2	48:B2:50:GLY:HA2	2.01	0.42
22:BB:2860:C:C1'	48:B2:53:ASP:OD2	2.67	0.42
49:B3:10:VAL:CG1	49:B3:26:LYS:HB3	2.50	0.42
22:BB:2265:A:N6	49:B3:36:GLU:OE2	2.53	0.42
53:B7:176:PRO:C	53:B7:178:ASP:H	2.22	0.42
23:BA:92:G:H3'	23:BA:93:G:C8	2.55	0.42
23:BA:9:G:H1'	23:BA:117:G:C2	2.55	0.42
22:BB:1704:G:H1'	22:BB:1719:G:C2	2.55	0.42
22:BB:1704:G:H2'	22:BB:1718:A:N6	2.35	0.42
22:BB:1809:G:OP1	24:BD:63:ARG:HB3	2.20	0.42
22:BB:2309:G:O2'	22:BB:2310:G:H5'	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:BB:2444:C:C4'	52:B6:3:VAL:HG21	2.20	0.42
22:BB:1989:C:C2'	22:BB:2798:A:H1'	2.49	0.42
22:BB:3135:A:H1'	22:BB:3160:C:O5'	2.19	0.42
22:BB:494:A:C1'	42:BV:56:LYS:HB2	2.50	0.42
22:BB:496:C:O2'	22:BB:497:C:H5'	2.20	0.42
22:BB:596:C:C2	33:BM:29:THR:HG23	2.36	0.42
22:BB:686:C:O2'	26:BF:68:ARG:CZ	2.67	0.42
22:BB:825:C:H5''	22:BB:1263:G:H2'	2.02	0.42
22:BB:991:A:N6	22:BB:2020:G:H21	2.17	0.42
25:BE:143:GLN:CB	25:BE:144:ARG:HE	2.32	0.42
25:BE:203:LYS:O	25:BE:204:ALA:HB3	2.20	0.42
27:BG:136:LEU:HD13	27:BG:150:ARG:HH21	1.85	0.42
28:BH:171:LEU:O	28:BH:171:LEU:HD12	2.20	0.42
28:BH:19:ALA:HB1	28:BH:44:ARG:HE	1.84	0.42
31:BK:127:ILE:O	31:BK:130:ALA:HB2	2.20	0.42
22:BB:1019:U:OP2	31:BK:136:PRO:HG3	2.20	0.42
31:BK:147:ARG:HH21	31:BK:147:ARG:HG2	1.84	0.42
31:BK:44:VAL:HG12	31:BK:45:ASP:H	1.85	0.42
31:BK:78:ASP:H	31:BK:147:ARG:HH22	1.67	0.42
32:BL:87:SER:HB3	37:BQ:83:PHE:HD2	1.85	0.42
34:BN:44:LYS:NZ	34:BN:46:ASN:HB3	2.34	0.42
22:BB:886:A:H5'	34:BN:66:TYR:CE2	2.55	0.42
22:BB:886:A:H5'	34:BN:66:TYR:HE2	1.85	0.42
36:BP:96:TYR:CE1	36:BP:100:VAL:HB	2.54	0.42
41:BU:61:LYS:N	41:BU:72:ARG:HD3	2.20	0.42
43:BW:68:ALA:CA	43:BW:95:SER:HB2	2.45	0.42
44:BX:80:SER:HB3	44:BX:83:ALA:HB3	2.01	0.42
45:BY:2:LYS:N	45:BY:2:LYS:HD3	2.35	0.42
1:CA:1184:G:O2'	1:CA:1185:G:H5'	2.19	0.42
1:CA:1231:G:C5'	9:CI:126:SER:CB	2.95	0.42
1:CA:1296:C:O2'	1:CA:1297:C:H5'	2.19	0.42
1:CA:11:G:H2'	1:CA:12:U:O4'	2.20	0.42
1:CA:1306:A:H2'	1:CA:1307:U:H5'	2.02	0.42
1:CA:1349:A:OP2	9:CI:118:LYS:NZ	2.48	0.42
1:CA:1372:U:OP1	9:CI:69:GLY:HA3	2.19	0.42
1:CA:1528:U:HO2'	1:CA:1529:G:P	2.43	0.42
1:CA:476:U:H2'	1:CA:477:G:H8	1.85	0.42
1:CA:503:C:O2'	1:CA:504:C:H5'	2.20	0.42
1:CA:563:A:OP2	12:CL:17:LYS:NZ	2.49	0.42
1:CA:816:A:O3'	1:CA:817:C:H2'	2.19	0.42
1:CA:861:G:N3	1:CA:874:G:H5'	2.34	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:898:G:H2'	1:CA:900:A:OP2	2.19	0.42
1:CA:921:U:O2'	5:CE:20:GLN:HA	2.20	0.42
2:CB:61:LEU:HD13	2:CB:64:ARG:HH11	1.85	0.42
2:CB:74:LYS:HD3	2:CB:165:VAL:CG1	2.50	0.42
3:CC:156:ARG:H	3:CC:163:ALA:HA	1.85	0.42
3:CC:5:ILE:HB	3:CC:6:HIS:H	1.68	0.42
8:CH:26:VAL:HG13	8:CH:59:LEU:HD13	2.02	0.42
11:CK:50:TYR:O	11:CK:55:LYS:HE3	2.20	0.42
1:CA:242:C:P	12:CL:13:LYS:O	2.77	0.42
13:CM:97:PRO:HA	13:CM:110:ARG:CZ	2.49	0.42
1:CA:583:A:H62	17:CQ:105:ALA:CB	2.33	0.42
17:CQ:81:ARG:CZ	17:CQ:84:LEU:HD12	2.50	0.42
1:CA:583:A:C4	17:CQ:91:ARG:CD	3.02	0.42
18:CR:74:ARG:HA	18:CR:79:LEU:O	2.20	0.42
19:CS:52:TYR:C	19:CS:53:ASN:HD22	2.23	0.42
22:DB:1074:G:H2'	22:DB:1075:C:O4'	2.20	0.42
22:DB:1292:A:P	35:DO:33:ARG:CB	3.08	0.42
22:DB:1381:G:H2'	22:DB:1382:G:C8	2.55	0.42
22:DB:13:A:H61	22:DB:535:U:C2'	2.32	0.42
22:DB:1399:C:H2'	22:DB:1400:A:C8	2.55	0.42
22:DB:1412:C:OP1	41:DU:81:ARG:NE	2.53	0.42
22:DB:1672:A:N6	22:DB:1987:G:N2	2.67	0.42
22:DB:198:A:O2'	22:DB:199:A:P	2.78	0.42
22:DB:1992:G:H5'	40:DT:62:ARG:HB3	1.91	0.42
22:DB:222:G:H2'	22:DB:223:C:O4'	2.20	0.42
22:DB:2245:A:O2'	22:DB:2246:A:P	2.78	0.42
22:DB:2309:G:O2'	22:DB:2310:G:H5'	2.20	0.42
22:DB:2465:G:C5'	34:DN:123:GLY:CA	2.98	0.42
22:DB:2491:C:H2'	22:DB:2492:G:C4'	2.50	0.42
22:DB:2590:U:OP1	25:DE:132:LYS:CD	2.68	0.42
22:DB:2646:C:C1'	28:DH:109:TYR:CE1	3.02	0.42
22:DB:2771:C:C2'	22:DB:2772:U:H5'	2.50	0.42
22:DB:2784:A:N3	22:DB:2784:A:H3'	2.34	0.42
22:DB:456:C:O2'	22:DB:457:C:H5'	2.20	0.42
22:DB:215:G:O4'	22:DB:618:A:H4'	2.20	0.42
22:DB:804:C:C2	22:DB:807:A:H5'	2.55	0.42
22:DB:825:C:H5''	22:DB:1263:G:H2'	2.02	0.42
22:DB:917:U:O2'	43:DW:166:LEU:HD21	2.19	0.42
22:DB:934:G:H22	44:DX:25:LYS:HG2	1.85	0.42
22:DB:861:G:C2	22:DB:944:A:H1'	2.55	0.42
24:DD:47:GLY:O	24:DD:48:ARG:HB2	2.18	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:DE:108:SER:O	25:DE:109:LYS:HG2	2.20	0.42
22:DB:2659:C:H5'	25:DE:188:ILE:O	2.19	0.42
27:DG:106:ILE:HG12	27:DG:137:ILE:O	2.20	0.42
31:DK:127:ILE:O	31:DK:130:ALA:HB2	2.20	0.42
33:DM:79:GLN:O	33:DM:83:LEU:HD11	2.20	0.42
34:DN:44:LYS:NZ	34:DN:46:ASN:HB3	2.34	0.42
34:DN:66:TYR:HE1	43:DW:116:VAL:CB	2.30	0.42
38:DR:89:ASP:O	38:DR:90:LEU:HB2	2.20	0.42
40:DT:38:VAL:O	40:DT:41:VAL:HG22	2.20	0.42
41:DU:77:LYS:HZ1	41:DU:79:ILE:HD11	1.83	0.42
22:DB:889:C:C5	43:DW:165:GLU:OE1	2.69	0.42
43:DW:16:GLU:HB3	43:DW:17:SER:H	1.63	0.42
43:DW:25:ASN:HD22	43:DW:25:ASN:N	2.17	0.42
43:DW:43:PHE:HB2	43:DW:69:VAL:CG2	2.50	0.42
1:EA:1273:G:C8	1:IA:1264:C:O2'	2.73	0.42
1:EA:1296:C:O2'	1:EA:1297:C:H5'	2.19	0.42
1:EA:448:A:C2	16:EP:44:THR:HG21	2.54	0.42
1:EA:728:A:H3'	1:EA:729:A:H8	1.84	0.42
1:EA:986:A:H2'	1:EA:987:G:C8	2.54	0.42
2:EB:186:ALA:O	2:EB:201:ILE:HB	2.20	0.42
3:EC:135:LYS:HZ2	5:EE:52:PRO:HB3	1.85	0.42
3:EC:73:PRO:HA	3:EC:105:GLU:CG	2.48	0.42
6:EF:22:GLU:OE2	6:EF:79:LEU:HD22	2.20	0.42
7:EG:146:GLU:N	7:EG:149:ARG:HB2	2.35	0.42
7:EG:16:LEU:HD22	7:EG:16:LEU:N	2.35	0.42
7:EG:52:GLU:O	7:EG:53:LYS:C	2.58	0.42
1:EA:1152:A:H5'	10:EJ:66:ARG:NH2	2.34	0.42
1:EA:1228:C:P	13:EM:111:LYS:HZ3	2.42	0.42
13:EM:11:ARG:NH2	13:EM:46:LYS:HA	2.35	0.42
15:EO:61:GLY:HA3	15:EO:65:ARG:NH1	2.34	0.42
1:EA:452:A:C2	16:EP:72:ARG:NH1	2.88	0.42
17:EQ:32:TYR:O	17:EQ:34:LYS:N	2.51	0.42
6:EF:43:LEU:HD22	18:ER:35:ARG:HG2	2.02	0.42
19:ES:46:GLY:N	19:ES:62:ILE:HG23	2.26	0.42
19:ES:73:GLU:HG2	19:ES:74:PHE:CD1	2.54	0.42
48:F2:46:CYS:HB2	48:F2:50:GLY:HA2	2.01	0.42
50:F4:37:LYS:NZ	50:F4:37:LYS:HB3	2.35	0.42
53:F7:112:ILE:HD12	53:F7:135:PRO:HB3	2.02	0.42
53:F7:111:LEU:CD1	53:F7:148:ILE:HA	2.49	0.42
53:F7:5:LYS:HZ2	53:F7:184:ILE:HG13	1.83	0.42
23:FA:12:C:H2'	23:FA:13:C:H4'	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:FA:57:U:H4'	27:FG:25:VAL:HG22	2.01	0.42
22:FB:1223:G:N2	22:FB:1225:G:N2	2.68	0.42
22:FB:1450:G:C4	22:FB:1493:A:H2	2.38	0.42
22:FB:1483:G:C6	22:FB:1539:U:N3	2.78	0.42
22:FB:1394:G:H2'	22:FB:1588:A:N6	2.35	0.42
22:FB:1672:A:N6	22:FB:1987:G:N2	2.67	0.42
22:FB:1704:G:H1'	22:FB:1719:G:C2	2.55	0.42
22:FB:1741:G:H2'	22:FB:1742:G:H8	1.84	0.42
22:FB:1781:C:H4'	24:FD:209:ALA:HB1	2.01	0.42
22:FB:2030:U:H2'	22:FB:2031:A:H8	1.85	0.42
22:FB:2406:C:H5''	22:FB:2408:G:O4'	2.19	0.42
22:FB:2558:C:H5'	25:FE:133:LYS:HE3	2.02	0.42
22:FB:3115:G:O6	22:FB:3117:A:H2'	2.19	0.42
22:FB:3866:A:C1'	53:F7:195:LYS:CB	2.91	0.42
22:FB:487:G:H22	22:FB:490:A:C1'	2.33	0.42
22:FB:730:C:H2'	22:FB:731:A:C8	2.55	0.42
22:FB:804:C:C2	22:FB:807:A:H5'	2.55	0.42
22:FB:861:G:C2	22:FB:944:A:H1'	2.54	0.42
24:FD:144:ALA:N	24:FD:155:LEU:HD11	2.35	0.42
24:FD:148:VAL:CB	24:FD:151:LYS:HB3	2.50	0.42
24:FD:22:SER:HA	24:FD:206:LEU:C	2.40	0.42
22:FB:1673:C:C4'	25:FE:136:ARG:CG	2.84	0.42
25:FE:116:VAL:HG22	25:FE:155:ARG:O	2.20	0.42
25:FE:116:VAL:CG2	25:FE:156:MET:HA	2.50	0.42
22:FB:598:U:C5'	26:FF:89:ARG:NH2	2.83	0.42
27:FG:111:ILE:HA	27:FG:135:GLN:OE1	2.19	0.42
22:FB:2620:G:C5'	31:FK:102:ARG:NH1	2.77	0.42
31:FK:161:GLN:NE2	31:FK:163:PRO:HG2	2.35	0.42
31:FK:44:VAL:HG12	31:FK:45:ASP:H	1.85	0.42
22:FB:507:A:O3'	40:FT:19:LYS:HD3	2.20	0.42
42:FV:25:LEU:HB2	42:FV:81:VAL:CG2	2.34	0.42
34:FN:36:ILE:O	43:FW:74:ARG:NH1	2.36	0.42
1:GA:1074:G:O2'	1:GA:1075:C:H5'	2.19	0.42
1:GA:1146:A:H2	9:GI:5:TYR:CZ	2.38	0.42
1:GA:1272:G:H2'	1:GA:1273:G:H8	1.85	0.42
1:GA:1281:U:O2'	1:GA:1282:C:P	2.78	0.42
1:GA:975:A:H5''	1:GA:1357:A:H2	1.84	0.42
1:GA:1324:A:H1'	1:GA:1362:C:P	2.59	0.42
1:GA:201:G:H2'	1:GA:202:G:C8	2.54	0.42
1:GA:292:G:N7	1:GA:305:G:N2	2.67	0.42
1:GA:316:G:OP2	1:GA:351:G:H3'	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:GA:86:G:H5''	1:GA:87:G:N7	2.35	0.42
1:GA:925:G:C6	1:GA:927:G:N7	2.87	0.42
1:GA:92:G:H2'	1:GA:93:U:C6	2.55	0.42
2:GB:102:LEU:N	2:GB:102:LEU:HD12	2.30	0.42
2:GB:74:LYS:HD3	2:GB:165:VAL:CG1	2.50	0.42
2:GB:93:VAL:HG13	2:GB:148:TYR:O	2.20	0.42
7:GG:116:ALA:HA	7:GG:119:ARG:NH1	2.35	0.42
9:GI:40:LEU:O	9:GI:41:VAL:C	2.59	0.42
9:GI:29:ASN:ND2	9:GI:64:THR:HG23	2.27	0.42
11:GK:50:TYR:CD2	11:GK:54:ARG:HB3	2.54	0.42
13:GM:77:ASN:HA	13:GM:80:ARG:NH1	2.35	0.42
10:GJ:47:PHE:CE2	14:GN:37:PHE:CE2	3.08	0.42
1:GA:739:C:C2	15:GO:46:HIS:CE1	2.98	0.42
15:GO:57:LEU:HD12	15:GO:60:VAL:HG21	2.00	0.42
15:GO:61:GLY:HA3	15:GO:65:ARG:CZ	2.50	0.42
15:GO:79:ARG:HA	15:GO:82:ILE:HD12	2.00	0.42
16:GP:59:TRP:HB3	16:GP:64:ALA:HB3	2.02	0.42
18:GR:26:LEU:N	18:GR:26:LEU:HD22	2.35	0.42
49:H3:45:LYS:N	49:H3:45:LYS:HD2	2.35	0.42
49:H3:48:VAL:HG13	49:H3:49:VAL:N	2.35	0.42
22:HB:1002:C:H5'	22:HB:1199:U:OP1	2.20	0.42
22:HB:1245:G:H2'	22:HB:1246:G:C8	2.55	0.42
22:HB:126:C:H2'	22:HB:127:C:C5	2.55	0.42
22:HB:1744:G:N7	37:HQ:123:ARG:O	2.52	0.42
22:HB:1967:U:O2'	22:HB:1968:G:H5'	2.20	0.42
22:HB:1973:C:O2'	22:HB:1974:U:H5'	2.20	0.42
22:HB:841:G:H1	22:HB:2226:A:HO2'	1.66	0.42
22:HB:2236:U:OP1	44:HX:9:SER:CA	2.66	0.42
22:HB:2474:G:H1'	34:HN:83:ARG:HD2	2.01	0.42
22:HB:2558:C:O2'	25:HE:132:LYS:HE3	2.05	0.42
22:HB:2579:A:H2'	22:HB:2580:C:C6	2.55	0.42
22:HB:2815:C:H4'	35:HO:92:GLY:N	2.35	0.42
22:HB:3135:A:H1'	22:HB:3160:C:O5'	2.19	0.42
22:HB:574:C:H2'	22:HB:575:U:O4'	2.20	0.42
22:HB:614:G:H2'	22:HB:615:C:C6	2.54	0.42
22:HB:83:A:H5''	22:HB:84:G:O5'	2.20	0.42
24:HD:142:VAL:HG23	24:HD:143:HIS:N	2.25	0.42
25:HE:137:ARG:HA	25:HE:138:PRO:HD3	1.87	0.42
25:HE:144:ARG:HD3	25:HE:146:THR:HB	2.02	0.42
26:HF:133:PHE:O	26:HF:136:TRP:HB3	2.20	0.42
27:HG:11:GLN:O	27:HG:14:PRO:HD2	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:HG:132:ILE:O	27:HG:152:MET:O	2.38	0.42
28:HH:160:LYS:C	28:HH:160:LYS:HZ3	2.22	0.42
28:HH:18:ASN:ND2	28:HH:18:ASN:N	2.68	0.42
32:HL:77:THR:HG23	32:HL:78:SER:N	2.34	0.42
22:HB:638:A:C8	33:HM:109:LEU:HD21	2.54	0.42
22:HB:1256:C:C1'	33:HM:15:ASP:O	2.65	0.42
35:HO:13:ASN:ND2	35:HO:13:ASN:N	2.67	0.42
37:HQ:5:ILE:HD12	37:HQ:6:LYS:H	1.85	0.42
22:HB:761:G:H3'	40:HT:110:ALA:HB3	1.10	0.42
42:HV:23:ILE:HG13	42:HV:87:GLU:CD	2.40	0.42
42:HV:48:VAL:CG1	42:HV:50:GLY:H	2.27	0.42
1:IA:1101:A:O2'	1:IA:1102:A:P	2.78	0.42
1:EA:1273:G:C2	1:IA:1264:C:H4'	2.55	0.42
1:IA:11:G:H2'	1:IA:12:U:O4'	2.20	0.42
1:IA:1391:U:O2'	1:IA:1531:A:C5'	2.66	0.42
1:IA:13:U:O4'	1:IA:914:A:OP2	2.37	0.42
1:IA:316:G:OP2	1:IA:351:G:H3'	2.20	0.42
1:IA:356:A:O2'	1:IA:368:U:H4'	2.20	0.42
1:IA:476:U:H2'	1:IA:477:G:H8	1.85	0.42
1:IA:50:A:H1'	1:IA:52:G:H5''	2.01	0.42
1:IA:544:G:H22	1:IA:549:C:H4'	1.82	0.42
1:IA:728:A:N6	15:IO:54:ARG:HD3	2.35	0.42
1:IA:755:G:OP1	15:IO:65:ARG:HG2	2.20	0.42
2:IB:124:SER:HB2	2:IB:125:PRO:HD2	2.02	0.42
1:IA:1055:A:C2	3:IC:156:ARG:CZ	2.98	0.42
4:ID:10:ARG:HH12	4:ID:11:LEU:HB3	1.85	0.42
6:IF:22:GLU:OE2	6:IF:79:LEU:HD22	2.20	0.42
6:IF:4:TYR:HA	6:IF:93:SER:H	1.85	0.42
7:IG:103:TRP:CZ2	7:IG:138:LYS:HA	2.54	0.42
13:IM:77:ASN:HA	13:IM:80:ARG:NH1	2.35	0.42
47:J1:11:PRO:O	47:J1:12:CYS:HB2	2.20	0.42
47:J1:41:PRO:CG	47:J1:57:ASP:HA	2.49	0.42
49:J3:45:LYS:HD2	49:J3:45:LYS:N	2.35	0.42
22:JB:2400:G:P	51:J5:32:GLN:HB2	2.59	0.42
22:JB:3176:A:C5'	53:J7:33:ILE:HG21	2.48	0.42
53:J7:34:LEU:HD12	53:J7:34:LEU:N	2.34	0.42
22:JB:1002:C:H5'	22:JB:1199:U:OP1	2.20	0.42
22:JB:1245:G:H2'	22:JB:1246:G:C8	2.54	0.42
22:JB:1268:U:C4	26:JF:66:ASN:CG	2.81	0.42
22:JB:126:C:H2'	22:JB:127:C:C5	2.55	0.42
22:JB:1498:G:N1	22:JB:1523:A:H1'	2.35	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:JB:1725:C:O2'	22:JB:2835:A:C4'	2.68	0.42
22:JB:1795:C:O2'	22:JB:1796:A:H5'	2.20	0.42
22:JB:1967:U:O2'	22:JB:1968:G:H5'	2.20	0.42
22:JB:1973:C:O2'	22:JB:1974:U:H5'	2.20	0.42
22:JB:2245:A:O2'	22:JB:2246:A:P	2.78	0.42
22:JB:2259:G:N3	22:JB:2367:A:H2	2.02	0.42
22:JB:2359:U:O2'	22:JB:2360:C:H5'	2.20	0.42
22:JB:2421:C:O2'	22:JB:2422:C:H5'	2.20	0.42
22:JB:1139:A:N6	22:JB:2469:G:OP1	2.52	0.42
22:JB:2579:A:H2'	22:JB:2580:C:C6	2.55	0.42
22:JB:2615:U:O4'	25:JE:79:ARG:NH2	2.53	0.42
22:JB:26:G:H2'	22:JB:27:G:O4'	2.20	0.42
22:JB:3093:C:C5'	29:JI:24:TYR:CB	2.96	0.42
22:JB:2075:U:O3'	22:JB:3093:C:OP2	2.33	0.42
22:JB:3115:G:O6	22:JB:3117:A:H2'	2.19	0.42
22:JB:427:C:P	22:JB:1862:C:O2'	2.78	0.42
22:JB:428:A:N3	22:JB:2388:G:N2	2.68	0.42
22:JB:639:G:H2'	22:JB:640:C:C6	2.54	0.42
22:JB:72:A:P	45:JY:50:VAL:O	2.77	0.42
22:JB:825:C:H5''	22:JB:1263:G:H2'	2.02	0.42
24:JD:198:ASN:HB3	24:JD:201:HIS:CB	2.49	0.42
25:JE:116:VAL:CG2	25:JE:156:MET:HA	2.50	0.42
25:JE:203:LYS:HB3	25:JE:203:LYS:NZ	2.35	0.42
22:JB:1268:U:C2'	26:JF:66:ASN:HB2	2.32	0.42
22:JB:672:C:C4'	26:JF:94:THR:C	2.65	0.42
27:JG:7:LYS:O	27:JG:12:VAL:HG22	2.19	0.42
27:JG:32:GLU:HB2	27:JG:159:THR:OG1	2.19	0.42
27:JG:72:LYS:HA	27:JG:72:LYS:NZ	2.35	0.42
25:JE:152:LYS:HB2	31:JK:106:TYR:OH	2.20	0.42
31:JK:78:ASP:H	31:JK:147:ARG:HH22	1.67	0.42
32:JL:25:LEU:HB2	32:JL:52:VAL:HG23	2.01	0.42
22:JB:1682:A:C5'	32:JL:92:ASP:OD1	2.67	0.42
33:JM:82:ASP:C	33:JM:83:LEU:HD12	2.40	0.42
34:JN:44:LYS:HA	34:JN:94:TRP:NE1	2.34	0.42
34:JN:50:ALA:HA	34:JN:53:ILE:HD11	2.01	0.42
37:JQ:7:ILE:HG22	37:JQ:9:ARG:HG3	2.01	0.42
41:JU:38:ILE:HG23	41:JU:38:ILE:O	2.19	0.42
42:JV:59:LYS:N	42:JV:60:PRO:HD3	2.35	0.42
43:JW:115:ILE:HG22	43:JW:116:VAL:N	2.35	0.42
44:JX:80:SER:HB3	44:JX:83:ALA:HB3	2.01	0.42
45:JY:2:LYS:N	45:JY:2:LYS:HD3	2.35	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1101:A:O2'	1:AA:1102:A:P	2.78	0.41
1:AA:1259:C:H42	1:AA:1274:G:H22	1.68	0.41
1:AA:1277:C:H4'	1:AA:1282:C:C4	2.55	0.41
1:AA:254:G:C4	17:AQ:16:GLN:CA	3.04	0.41
1:AA:503:C:O2'	1:AA:504:C:H5'	2.19	0.41
1:AA:607:A:H5''	1:AA:630:G:N2	2.35	0.41
1:AA:684:A:H2'	1:AA:685:G:C4'	2.50	0.41
1:AA:755:G:H2'	1:AA:756:C:C5	2.54	0.41
1:AA:812:C:OP1	1:AA:903:G:H1'	2.20	0.41
1:AA:996:A:N1	1:AA:1046:A:H4'	2.34	0.41
2:AB:155:LEU:HD11	2:AB:159:PRO:HD3	2.01	0.41
2:AB:166:ASP:HB3	2:AB:169:LYS:CB	2.49	0.41
3:AC:36:ASP:HB2	3:AC:37:GLN:HE22	1.82	0.41
4:AD:28:SER:N	4:AD:29:PRO:CD	2.83	0.41
11:AK:21:ILE:HB	11:AK:83:ILE:O	2.19	0.41
13:AM:78:ILE:HG23	13:AM:81:LEU:HG	2.02	0.41
1:AA:668:G:C4	15:AO:45:VAL:HG12	2.55	0.41
17:AQ:26:GLN:HB3	17:AQ:38:ARG:H	1.85	0.41
22:BB:178:C:OP1	47:B1:17:GLN:OE1	2.38	0.41
22:BB:2398:U:C6	51:B5:31:HIS:C	2.93	0.41
52:B6:25:VAL:HG13	52:B6:25:VAL:O	2.20	0.41
22:BB:3122:U:H4'	53:B7:162:GLN:CG	2.49	0.41
53:B7:46:LEU:HG	53:B7:47:LYS:H	1.84	0.41
22:BB:1000:G:OP1	22:BB:1168:G:H4'	2.19	0.41
22:BB:1091:C:O4'	30:BJ:126:THR:CA	2.68	0.41
22:BB:1412:C:H6	22:BB:1412:C:O5'	2.02	0.41
1:AA:270:A:C5'	22:BB:1738:U:H1'	2.35	0.41
22:BB:1672:A:N6	22:BB:1987:G:N2	2.68	0.41
22:BB:198:A:O2'	22:BB:199:A:P	2.78	0.41
22:BB:2030:U:H2'	22:BB:2031:A:H8	1.85	0.41
22:BB:2039:G:C4	48:B2:5:PRO:HG3	2.55	0.41
22:BB:2192:U:H5'	24:BD:39:LYS:HE2	2.02	0.41
22:BB:222:G:H2'	22:BB:223:C:O4'	2.20	0.41
22:BB:974:U:H5'	22:BB:2476:A:OP1	2.19	0.41
22:BB:2557:G:H2'	22:BB:2558:C:C6	2.55	0.41
22:BB:2727:G:H1	22:BB:2735:C:H5''	1.85	0.41
22:BB:2815:C:OP1	35:BO:50:GLN:NE2	2.53	0.41
22:BB:320:A:N7	22:BB:341:A:N7	2.67	0.41
22:BB:3865:A:O2'	53:B7:43:LYS:HD2	2.20	0.41
22:BB:457:C:C5'	38:BR:3:ARG:HB2	2.49	0.41
22:BB:494:A:H4'	42:BV:58:VAL:HG13	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:BB:546:A:H4'	38:BR:57:PHE:HE1	1.85	0.41
22:BB:547:U:H2'	22:BB:548:G:O4'	2.19	0.41
22:BB:742:G:C1'	24:BD:18:THR:CG2	2.85	0.41
22:BB:804:C:C2	22:BB:807:A:H5'	2.55	0.41
22:BB:861:G:C2	22:BB:944:A:H1'	2.54	0.41
22:BB:927:C:H2'	22:BB:928:G:H8	1.84	0.41
24:BD:63:ARG:NH2	24:BD:157:ARG:HH11	2.18	0.41
27:BG:126:GLY:O	27:BG:157:VAL:HA	2.20	0.41
31:BK:49:VAL:HG21	31:BK:88:VAL:HA	2.02	0.41
32:BL:91:PHE:CE2	37:BQ:76:GLY:CA	3.02	0.41
33:BM:59:ARG:O	33:BM:61:PRO:HD3	2.20	0.41
33:BM:62:LYS:HZ1	33:BM:62:LYS:HA	1.84	0.41
34:BN:12:LYS:HB3	34:BN:13:GLN:H	1.59	0.41
34:BN:36:ILE:H	34:BN:36:ILE:HD13	1.85	0.41
34:BN:42:TRP:HA	34:BN:94:TRP:CZ2	2.55	0.41
35:BO:15:SER:O	35:BO:19:ALA:HB3	2.19	0.41
40:BT:77:ALA:O	40:BT:80:LEU:HB2	2.20	0.41
41:BU:77:LYS:HZ3	41:BU:79:ILE:HD11	1.84	0.41
43:BW:16:GLU:HB3	43:BW:17:SER:H	1.63	0.41
43:BW:25:ASN:ND2	43:BW:25:ASN:N	2.68	0.41
43:BW:18:MET:N	43:BW:36:ARG:NH1	2.66	0.41
1:CA:1074:G:C5'	2:CB:104:ASN:OD1	2.68	0.41
1:CA:363:A:O2'	1:CA:364:A:H5'	2.20	0.41
1:CA:560:U:C5	1:CA:566:G:C5	3.08	0.41
1:CA:812:C:OP1	1:CA:903:G:H1'	2.20	0.41
1:CA:859:A:H2'	1:CA:860:A:H5'	2.02	0.41
1:CA:86:G:H5''	1:CA:87:G:N7	2.35	0.41
1:CA:974:A:O5'	14:CN:41:ARG:NH1	2.45	0.41
2:CB:140:HIS:O	2:CB:143:GLU:HB2	2.19	0.41
2:CB:32:ILE:HD13	2:CB:40:HIS:HB3	2.02	0.41
3:CC:83:ARG:HA	3:CC:86:VAL:HB	2.01	0.41
6:CF:49:ALA:CB	18:CR:80:PRO:N	2.83	0.41
6:CF:4:TYR:HA	6:CF:93:SER:H	1.85	0.41
11:CK:104:GLN:HG2	11:CK:105:VAL:H	1.84	0.41
12:CL:53:ARG:HG3	12:CL:69:TYR:HE1	1.84	0.41
49:D3:38:LYS:HZ2	49:D3:38:LYS:HA	1.84	0.41
53:D7:138:LEU:HD13	53:D7:144:ILE:HD12	2.02	0.41
53:D7:201:ARG:HH21	53:D7:202:ASN:HB2	1.85	0.41
23:DA:92:G:H3'	23:DA:93:G:C8	2.55	0.41
22:DB:1369:G:O2'	22:DB:1370:U:H5'	2.20	0.41
22:DB:1544:A:H2'	22:DB:1545:G:C4'	2.50	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:DB:1440:G:P	22:DB:1575:C:H41	2.43	0.41
22:DB:1651:U:P	22:DB:1653:C:H41	2.43	0.41
22:DB:1704:G:H1'	22:DB:1719:G:C2	2.55	0.41
22:DB:1704:G:H2'	22:DB:1718:A:N6	2.35	0.41
22:DB:2557:G:H2'	22:DB:2558:C:C6	2.55	0.41
22:DB:2768:C:C1'	22:DB:2785:A:C2	3.02	0.41
22:DB:512:A:H4'	40:DT:15:LYS:CE	2.49	0.41
22:DB:561:U:H4'	22:DB:1233:A:N1	2.35	0.41
22:DB:653:G:O2'	22:DB:654:A:H4'	2.20	0.41
22:DB:729:A:H2'	22:DB:730:C:C4'	2.50	0.41
22:DB:794:A:H1'	22:DB:1767:G:H21	1.85	0.41
22:DB:811:G:OP2	26:DF:56:ARG:HD3	2.20	0.41
22:DB:959:C:OP1	22:DB:972:C:H4'	2.20	0.41
24:DD:148:VAL:CB	24:DD:151:LYS:HB3	2.50	0.41
24:DD:22:SER:HA	24:DD:206:LEU:C	2.40	0.41
27:DG:44:LYS:O	27:DG:50:ILE:HG23	2.20	0.41
32:DL:113:PRO:HB3	32:DL:132:GLU:HB2	2.02	0.41
34:DN:97:VAL:HB	34:DN:98:VAL:H	1.76	0.41
22:DB:1469:U:C5	35:DO:60:LEU:HD13	2.55	0.41
36:DP:29:LEU:HD22	36:DP:31:VAL:CG2	2.50	0.41
37:DQ:68:VAL:HG23	37:DQ:83:PHE:O	2.20	0.41
39:DS:80:TYR:HE1	39:DS:81:ARG:NH1	2.18	0.41
40:DT:76:LYS:HD2	40:DT:76:LYS:N	2.35	0.41
41:DU:11:VAL:CG1	41:DU:26:SER:HB2	2.46	0.41
23:DA:78:A:C5'	43:DW:31:SER:CB	2.91	0.41
43:DW:3:LEU:HB3	43:DW:4:THR:H	1.71	0.41
43:DW:67:LYS:HD2	43:DW:84:TYR:N	2.35	0.41
44:DX:49:GLN:NE2	44:DX:49:GLN:N	2.65	0.41
1:EA:1074:G:O2'	1:EA:1075:C:H5'	2.19	0.41
1:EA:1277:C:H4'	1:EA:1282:C:C4	2.55	0.41
1:EA:292:G:N7	1:EA:305:G:N2	2.68	0.41
1:EA:521:G:H5'	12:EL:72:GLY:H	1.84	0.41
1:EA:799:G:H2'	1:EA:800:G:C8	2.55	0.41
1:EA:8:A:O2'	1:EA:9:G:H5'	2.20	0.41
3:EC:152:ILE:HB	3:EC:199:LYS:HB2	2.02	0.41
3:EC:152:ILE:O	3:EC:199:LYS:HB2	2.19	0.41
3:EC:3:ASN:ND2	3:EC:3:ASN:N	2.67	0.41
3:EC:39:ILE:HG12	3:EC:94:LEU:HD13	2.02	0.41
1:EA:402:G:O3'	4:ED:137:SER:OG	2.36	0.41
7:EG:111:ARG:HH22	7:EG:122:HIS:HB3	1.84	0.41
9:EI:40:LEU:O	9:EI:41:VAL:C	2.59	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:EG:13:GLN:CG	9:EI:42:ARG:NH1	2.76	0.41
11:EK:104:GLN:HG2	11:EK:105:VAL:H	1.84	0.41
12:EL:68:ALA:HB3	12:EL:100:ILE:HD11	2.01	0.41
15:EO:61:GLY:HA3	15:EO:65:ARG:CZ	2.50	0.41
18:ER:26:LEU:HD22	18:ER:26:LEU:N	2.35	0.41
18:ER:73:ALA:HA	18:ER:78:LEU:HB3	2.02	0.41
20:ET:19:SER:HA	20:ET:22:ARG:NE	2.35	0.41
49:F3:33:ALA:O	49:F3:34:LYS:HB2	2.19	0.41
51:F5:10:ALA:O	51:F5:14:ILE:HG13	2.19	0.41
22:FB:825:C:H5''	22:FB:1263:G:H2'	2.02	0.41
22:FB:1381:G:H2'	22:FB:1382:G:C8	2.55	0.41
22:FB:1399:C:H2'	22:FB:1400:A:C8	2.55	0.41
22:FB:1544:A:H2'	22:FB:1545:G:C4'	2.50	0.41
22:FB:1778:U:H3'	22:FB:1778:U:OP2	2.20	0.41
22:FB:1829:C:O2'	22:FB:1910:A:C2'	2.68	0.41
22:FB:2245:A:O2'	22:FB:2246:A:P	2.78	0.41
22:FB:2276:C:H2'	22:FB:2277:A:C8	2.55	0.41
22:FB:2422:C:O2'	22:FB:2423:G:H5'	2.19	0.41
22:FB:2520:A:HO2'	22:FB:2745:A:H2	1.63	0.41
22:FB:2557:G:H2'	22:FB:2558:C:C6	2.55	0.41
22:FB:2728:A:C4'	28:FH:67:LEU:HD22	2.50	0.41
22:FB:546:A:H2'	22:FB:547:U:H5	1.82	0.41
22:FB:552:C:C2	22:FB:553:C:H1'	2.55	0.41
22:FB:653:G:O2'	22:FB:654:A:H4'	2.20	0.41
22:FB:83:A:H5''	22:FB:84:G:O5'	2.19	0.41
22:FB:869:C:C5'	44:FX:57:HIS:O	2.68	0.41
22:FB:996:C:H2'	22:FB:997:C:H5	1.83	0.41
24:FD:63:ARG:NH2	24:FD:157:ARG:HH11	2.18	0.41
24:FD:51:SER:HB3	24:FD:52:ARG:HD3	2.02	0.41
22:FB:1672:A:C4'	25:FE:114:GLN:HB3	2.39	0.41
27:FG:77:PHE:O	27:FG:78:LYS:HE3	2.19	0.41
28:FH:171:LEU:HD12	28:FH:171:LEU:O	2.20	0.41
33:FM:85:ASP:O	33:FM:118:VAL:HG12	2.20	0.41
34:FN:12:LYS:NZ	34:FN:12:LYS:HB3	2.35	0.41
22:FB:2254:C:O3'	34:FN:86:LYS:HA	2.19	0.41
22:FB:1164:C:OP1	38:FR:80:ILE:HG13	2.20	0.41
41:FU:88:ILE:CG2	41:FU:89:GLU:N	2.80	0.41
43:FW:111:GLY:HA3	43:FW:173:PRO:HB3	2.00	0.41
34:FN:107:VAL:HG13	43:FW:112:LEU:HD12	2.02	0.41
44:FX:46:LYS:C	44:FX:46:LYS:HZ3	2.22	0.41
44:FX:49:GLN:N	44:FX:49:GLN:NE2	2.65	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:FZ:17:VAL:C	46:FZ:19:THR:H	2.24	0.41
1:GA:1057:G:OP1	3:GC:163:ALA:HB1	2.20	0.41
1:GA:1060:C:OP1	10:GJ:59:SER:HA	2.20	0.41
1:GA:108:G:O6	20:GT:15:ARG:CZ	2.55	0.41
1:GA:1192:C:OP2	3:GC:4:LYS:NZ	2.49	0.41
1:GA:223:U:O4'	20:GT:68:LYS:CG	2.66	0.41
1:GA:309:G:O4'	1:GA:608:A:N1	2.53	0.41
1:GA:670:G:H2'	1:GA:671:G:C8	2.52	0.41
1:GA:812:C:O2'	1:GA:813:U:P	2.78	0.41
1:GA:910:C:H2'	1:GA:911:U:C6	2.55	0.41
1:GA:948:C:OP2	13:GM:108:ARG:HB2	2.20	0.41
2:GB:124:SER:HB2	2:GB:125:PRO:HD2	2.02	0.41
2:GB:178:ARG:HD3	2:GB:196:LEU:CB	2.48	0.41
4:GD:194:LEU:CD2	4:GD:194:LEU:H	2.32	0.41
4:GD:57:ARG:HB3	4:GD:206:PHE:HB2	2.02	0.41
1:GA:1080:A:O4'	5:GE:16:THR:OG1	2.35	0.41
6:GF:23:LYS:O	6:GF:27:GLN:HG2	2.20	0.41
6:GF:2:ARG:O	6:GF:66:GLU:HG3	2.20	0.41
1:GA:1374:A:H5'	7:GG:28:ASN:OD1	2.20	0.41
10:GJ:38:ILE:HD11	10:GJ:72:VAL:H	1.83	0.41
13:GM:84:ILE:HD11	13:GM:86:CYS:HB2	2.02	0.41
14:GN:24:CYS:SG	14:GN:25:VAL:N	2.93	0.41
1:GA:236:G:H4'	17:GQ:25:ARG:HH21	1.20	0.41
19:GS:5:LEU:HD21	19:GS:9:VAL:HG22	2.01	0.41
22:HB:1998:A:N7	48:H2:7:PRO:CG	2.83	0.41
52:H6:25:VAL:HG13	52:H6:25:VAL:O	2.21	0.41
53:H7:126:PRO:HD3	53:H7:135:PRO:HD3	2.01	0.41
22:HB:1004:A:C2	22:HB:1173:G:N1	2.87	0.41
22:HB:1018:C:P	22:HB:1019:U:H3'	2.60	0.41
22:HB:1566:G:H2'	22:HB:1567:A:C8	2.55	0.41
22:HB:1704:G:H1'	22:HB:1719:G:C2	2.55	0.41
22:HB:1741:G:H2'	22:HB:1742:G:H8	1.83	0.41
22:HB:1816:G:O3'	24:HD:247:VAL:HG21	2.19	0.41
22:HB:1940:C:O2'	22:HB:1941:C:H5'	2.20	0.41
22:HB:201:G:H2'	22:HB:202:A:C8	2.54	0.41
22:HB:744:C:H2'	22:HB:745:C:C6	2.55	0.41
22:HB:804:C:C2	22:HB:807:A:H5'	2.55	0.41
24:HD:141:VAL:HB	24:HD:195:ALA:HA	2.02	0.41
24:HD:69:ARG:HH21	24:HD:129:ASN:ND2	2.18	0.41
22:HB:2491:C:O4'	25:HE:139:GLY:O	2.37	0.41
30:HJ:71:THR:O	30:HJ:74:MET:HB2	2.19	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:HK:43:VAL:CG2	31:HK:166:LEU:H	2.32	0.41
32:HL:57:ASP:HB2	32:HL:58:ALA:H	1.57	0.41
33:HM:63:ARG:HD3	51:H5:8:LYS:CE	2.44	0.41
35:HO:5:LYS:H	35:HO:5:LYS:HE3	1.85	0.41
22:HB:574:C:C5	39:HS:79:GLN:OE1	2.73	0.41
22:HB:1338:G:O6	40:HT:109:ARG:NE	2.52	0.41
22:HB:1995:G:C5'	40:HT:118:LYS:CB	2.98	0.41
40:HT:55:ASP:CA	40:HT:58:ARG:HB3	2.50	0.41
1:IA:1242:C:H2'	1:IA:1243:C:O4'	2.19	0.41
1:EA:1273:G:C4'	1:IA:1265:G:H3'	2.39	0.41
1:IA:1279:A:O2'	1:IA:1281:U:H5''	2.18	0.41
1:IA:1281:U:O2'	1:IA:1282:C:P	2.78	0.41
1:IA:171:A:H2'	1:IA:172:A:C8	2.48	0.41
1:IA:197:A:O2'	1:IA:198:G:P	2.78	0.41
1:IA:33:A:N3	12:IL:32:PHE:CE2	2.87	0.41
1:IA:541:G:H2'	1:IA:542:G:C8	2.54	0.41
1:IA:570:G:H4'	1:IA:819:A:H2'	2.01	0.41
1:IA:623:C:H2'	1:IA:624:C:C6	2.55	0.41
1:IA:670:G:H2'	1:IA:671:G:C8	2.52	0.41
1:IA:691:G:O6	11:IK:51:LYS:HE2	2.20	0.41
1:IA:859:A:H2'	1:IA:860:A:H5'	2.02	0.41
4:ID:161:ASN:HD22	4:ID:161:ASN:N	2.16	0.41
4:ID:207:TYR:HA	4:ID:207:TYR:HD2	1.73	0.41
7:IG:68:ASN:HB3	7:IG:135:VAL:CG2	2.50	0.41
8:IH:1:MET:HG2	8:IH:2:LEU:N	2.31	0.41
13:IM:11:ARG:NH2	13:IM:46:LYS:HA	2.35	0.41
17:IQ:46:ASP:CG	17:IQ:49:GLU:HA	2.40	0.41
19:IS:22:LEU:HD22	19:IS:28:LYS:O	2.20	0.41
19:IS:5:LEU:HD11	19:IS:8:GLY:C	2.41	0.41
1:IA:189:A:N1	20:IT:105:SER:HA	2.35	0.41
22:JB:2722:C:C5'	52:J6:35:ARG:NE	2.57	0.41
53:J7:111:LEU:HD22	53:J7:148:ILE:HA	2.01	0.41
23:JA:118:G:OP1	36:JP:53:ALA:N	2.28	0.41
22:JB:1001:A:H5''	46:JZ:27:LYS:HE3	1.99	0.41
22:JB:1086:C:O2'	30:JJ:90:THR:HB	2.20	0.41
22:JB:1265:G:C5'	38:JR:10:ARG:HB2	2.50	0.41
22:JB:1353:A:H5''	22:JB:1407:G:N3	2.35	0.41
22:JB:1412:C:H6	22:JB:1412:C:O5'	2.02	0.41
22:JB:162:C:O2'	22:JB:163:A:H5'	2.20	0.41
22:JB:3112:G:H1	22:JB:3169:A:P	2.43	0.41
22:JB:3135:A:H1'	22:JB:3160:C:O5'	2.19	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:JB:320:A:N7	22:JB:341:A:N7	2.67	0.41
22:JB:511:A:O3'	40:JT:16:GLN:NE2	2.53	0.41
22:JB:540:G:O3'	22:JB:2004:U:C4	2.73	0.41
22:JB:542:A:O4'	38:JR:25:TRP:HB2	2.11	0.41
22:JB:76:C:H5'	45:JY:56:VAL:HG11	2.02	0.41
22:JB:857:U:OP1	22:JB:858:G:C5	2.73	0.41
22:JB:895:G:N2	22:JB:907:U:O2	2.53	0.41
22:JB:1810:U:C6	24:JD:155:LEU:N	2.77	0.41
24:JD:69:ARG:HH21	24:JD:129:ASN:ND2	2.18	0.41
25:JE:116:VAL:HG22	25:JE:155:ARG:O	2.20	0.41
25:JE:61:LYS:N	25:JE:62:PRO:CD	2.71	0.41
26:JF:168:SER:CB	26:JF:183:HIS:HE2	2.33	0.41
28:JH:97:LYS:HA	28:JH:125:VAL:CG2	2.50	0.41
31:JK:161:GLN:NE2	31:JK:163:PRO:HG2	2.35	0.41
32:JL:113:PRO:HB3	32:JL:132:GLU:HB2	2.02	0.41
33:JM:107:LYS:HD2	33:JM:108:LEU:N	2.34	0.41
22:JB:1217:U:C1'	33:JM:14:LYS:CE	2.98	0.41
34:JN:32:ASP:CG	43:JW:117:VAL:N	2.73	0.41
35:JO:20:LEU:C	35:JO:22:ARG:H	2.23	0.41
36:JP:101:LYS:O	36:JP:103:LEU:N	2.53	0.41
36:JP:11:LEU:HD12	36:JP:12:ARG:CD	2.50	0.41
37:JQ:5:ILE:HD12	37:JQ:6:LYS:H	1.84	0.41
37:JQ:68:VAL:O	37:JQ:70:LYS:HG2	2.20	0.41
38:JR:33:ARG:HE	38:JR:34:ASN:ND2	2.18	0.41
38:JR:93:LYS:C	38:JR:95:LEU:N	2.71	0.41
22:JB:1007:A:C4'	38:JR:93:LYS:HG3	2.50	0.41
40:JT:107:ILE:HG23	40:JT:107:ILE:O	2.20	0.41
22:JB:528:G:C1'	40:JT:96:TYR:CD2	2.94	0.41
1:AA:1035:A:H2'	1:AA:1036:G:N2	2.33	0.41
1:AA:1114:C:H2'	1:AA:1115:C:H6	1.85	0.41
1:AA:11:G:H2'	1:AA:12:U:O4'	2.20	0.41
1:AA:1373:G:C3'	7:AG:36:LYS:NZ	2.82	0.41
1:AA:300:A:C2'	1:AA:301:G:H5'	2.51	0.41
1:AA:428:G:H5'	1:AA:430:A:O5'	2.20	0.41
1:AA:815:A:C5	1:AA:1529:G:C5	3.08	0.41
2:AB:140:HIS:O	2:AB:143:GLU:HB2	2.20	0.41
2:AB:20:GLU:CB	2:AB:190:THR:HB	2.49	0.41
2:AB:53:ARG:HG2	2:AB:53:ARG:O	2.20	0.41
4:AD:161:ASN:HD22	4:AD:161:ASN:N	2.16	0.41
4:AD:173:TRP:CE3	4:AD:193:ASP:HB3	2.55	0.41
16:AP:71:ARG:HH21	16:AP:74:LEU:CB	2.33	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1320:C:C4	19:AS:36:ARG:HG3	2.56	0.41
49:B3:38:LYS:HZ2	49:B3:38:LYS:HA	1.85	0.41
51:B5:8:LYS:C	51:B5:10:ALA:H	2.23	0.41
51:B5:8:LYS:HB3	51:B5:9:MET:HE2	2.03	0.41
22:BB:2730:A:C2	52:B6:15:LYS:HE3	2.50	0.41
53:B7:128:LEU:CD1	53:B7:133:LYS:HD2	2.49	0.41
23:BA:44:C:N4	27:BG:90:THR:OG1	2.52	0.41
22:BB:1143:A:OP2	31:BK:111:LYS:CE	2.65	0.41
22:BB:1290:A:N3	35:BO:23:ALA:O	2.52	0.41
22:BB:1369:G:O2'	22:BB:1370:U:H5'	2.20	0.41
22:BB:1399:C:H2'	22:BB:1400:A:C8	2.55	0.41
22:BB:1440:G:P	22:BB:1575:C:H41	2.43	0.41
22:BB:1651:U:P	22:BB:1653:C:H41	2.44	0.41
22:BB:1901:A:N3	22:BB:1901:A:H2'	2.34	0.41
22:BB:1967:U:O2'	22:BB:1968:G:H5'	2.20	0.41
22:BB:215:G:O4'	22:BB:618:A:C4'	2.56	0.41
22:BB:2664:G:H2'	22:BB:2665:G:C8	2.56	0.41
22:BB:1750:A:N1	22:BB:2676:G:C1'	2.82	0.41
22:BB:2771:C:C2'	22:BB:2772:U:H5'	2.50	0.41
22:BB:2815:C:OP1	35:BO:50:GLN:CA	2.68	0.41
22:BB:3115:G:O6	22:BB:3117:A:H2'	2.19	0.41
22:BB:348:U:H5'	42:BV:13:LYS:CD	2.47	0.41
22:BB:368:A:N3	22:BB:368:A:H2'	2.35	0.41
22:BB:404:A:O2'	22:BB:422:C:H5'	2.20	0.41
22:BB:552:C:C2	22:BB:553:C:H1'	2.55	0.41
22:BB:57:G:C3'	22:BB:72:A:N6	2.83	0.41
22:BB:683:A:OP2	33:BM:46:GLY:N	2.52	0.41
22:BB:760:U:H5	48:B2:3:LYS:NZ	2.17	0.41
22:BB:83:A:H5''	22:BB:84:G:O5'	2.20	0.41
22:BB:887:G:H22	43:BW:165:GLU:HB3	1.11	0.41
22:BB:996:C:H2'	22:BB:997:C:H5	1.83	0.41
25:BE:116:VAL:CG2	25:BE:156:MET:HA	2.50	0.41
26:BF:158:ARG:HH12	26:BF:169:VAL:HG23	1.84	0.41
27:BG:117:ILE:CB	27:BG:177:PHE:HA	2.48	0.41
32:BL:2:ILE:CB	32:BL:44:TYR:HB2	2.51	0.41
33:BM:35:LYS:HZ2	33:BM:35:LYS:HB2	1.84	0.41
33:BM:79:GLN:O	33:BM:83:LEU:HD11	2.20	0.41
36:BP:29:LEU:HD22	36:BP:31:VAL:CG2	2.50	0.41
37:BQ:68:VAL:HG23	37:BQ:83:PHE:O	2.20	0.41
38:BR:33:ARG:HE	38:BR:34:ASN:ND2	2.17	0.41
22:BB:25:U:C2	40:BT:99:ALA:HB3	2.55	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:1074:G:O2'	1:CA:1075:C:H5'	2.19	0.41
1:CA:1081:G:O4'	5:CE:18:ARG:NE	2.51	0.41
1:CA:1114:C:H2'	1:CA:1115:C:H6	1.85	0.41
1:CA:1277:C:H4'	1:CA:1282:C:C4	2.55	0.41
1:CA:135:C:O5'	1:CA:135:C:H6	2.03	0.41
1:CA:1489:G:H2'	1:CA:1490:C:O4'	2.20	0.41
1:CA:15:G:H22	1:CA:1080:A:C3'	2.33	0.41
1:CA:279:A:N7	17:CQ:95:TYR:CB	2.51	0.41
1:CA:366:C:H42	1:CA:394:G:H21	1.67	0.41
1:CA:428:G:H5'	1:CA:430:A:O5'	2.20	0.41
1:CA:607:A:H5''	1:CA:630:G:N2	2.36	0.41
1:CA:684:A:H2'	1:CA:685:G:C4'	2.50	0.41
1:CA:728:A:H3'	1:CA:729:A:H8	1.84	0.41
1:CA:8:A:O2'	1:CA:9:G:H5'	2.20	0.41
2:CB:93:VAL:HG13	2:CB:148:TYR:O	2.20	0.41
3:CC:72:LYS:O	3:CC:73:PRO:O	2.38	0.41
4:CD:28:SER:N	4:CD:29:PRO:CD	2.82	0.41
4:CD:50:ARG:CZ	5:CE:10:MET:SD	3.04	0.41
7:CG:146:GLU:N	7:CG:149:ARG:HB2	2.35	0.41
10:CJ:79:ARG:HH22	10:CJ:83:GLU:CD	2.24	0.41
11:CK:65:ALA:C	11:CK:67:ASP:H	2.23	0.41
13:CM:49:THR:HG22	13:CM:50:GLU:H	1.85	0.41
1:CA:668:G:C4'	15:CO:49:ASP:N	2.81	0.41
1:CA:659:U:H5''	15:CO:5:LYS:CE	2.50	0.41
16:CP:71:ARG:HH21	16:CP:74:LEU:CB	2.33	0.41
1:CA:254:G:C8	17:CQ:16:GLN:HB3	2.55	0.41
50:D4:37:LYS:NZ	50:D4:37:LYS:HB3	2.36	0.41
51:D5:31:HIS:HB3	51:D5:32:GLN:H	1.62	0.41
51:D5:3:LYS:CE	51:D5:5:LYS:HE3	2.49	0.41
51:D5:8:LYS:C	51:D5:10:ALA:H	2.23	0.41
22:DB:1142:G:N7	31:DK:106:TYR:O	2.53	0.41
22:DB:1166:A:C6	22:DB:1168:G:N9	2.88	0.41
22:DB:1169:C:H5'	46:DZ:27:LYS:NZ	2.35	0.41
22:DB:1223:G:N2	22:DB:1225:G:N2	2.68	0.41
22:DB:1305:C:H2'	22:DB:1306:U:C5	2.55	0.41
22:DB:1326:U:H5''	22:DB:1345:G:C4'	2.50	0.41
22:DB:2062:U:HO2'	47:D1:32:HIS:CD2	2.20	0.41
22:DB:977:G:H21	22:DB:2246:A:H8	1.67	0.41
22:DB:2422:C:O2'	22:DB:2423:G:H5'	2.19	0.41
22:DB:2461:G:H22	34:DN:53:ILE:CD1	2.23	0.41
22:DB:2470:U:H3	22:DB:2548:G:C2'	2.32	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:DB:974:U:H5'	22:DB:2476:A:OP1	2.19	0.41
22:DB:2492:G:C4	22:DB:2493:U:O4	2.73	0.41
22:DB:2727:G:H1	22:DB:2735:C:H5''	1.85	0.41
22:DB:2728:A:H1'	28:DH:67:LEU:CG	2.48	0.41
22:DB:3112:G:H1	22:DB:3169:A:P	2.43	0.41
22:DB:475:U:H4'	22:DB:699:G:N1	2.35	0.41
22:DB:552:C:C2	22:DB:553:C:H1'	2.55	0.41
22:DB:818:G:O6	22:DB:2051:U:H5''	2.20	0.41
22:DB:894:G:H2'	22:DB:895:G:C1'	2.50	0.41
25:DE:103:ASP:HB3	25:DE:168:GLN:CA	2.50	0.41
25:DE:119:ARG:NH2	25:DE:119:ARG:HB2	2.35	0.41
25:DE:176:ARG:CD	37:DQ:20:HIS:CE1	2.89	0.41
22:DB:2658:A:H1'	25:DE:187:ALA:HB3	2.00	0.41
26:DF:133:PHE:O	26:DF:136:TRP:HB3	2.20	0.41
26:DF:168:SER:CB	26:DF:183:HIS:HE2	2.33	0.41
27:DG:132:ILE:O	27:DG:152:MET:O	2.38	0.41
28:DH:97:LYS:HA	28:DH:125:VAL:CG2	2.50	0.41
31:DK:83:ILE:HG22	31:DK:84:ASN:N	2.35	0.41
31:DK:83:ILE:HG22	31:DK:84:ASN:H	1.85	0.41
33:DM:85:ASP:O	33:DM:118:VAL:HG12	2.20	0.41
33:DM:143:PRO:HG2	33:DM:144:GLU:N	2.36	0.41
34:DN:95:VAL:HG23	34:DN:96:SER:N	2.34	0.41
35:DO:18:VAL:HG23	35:DO:22:ARG:NH2	2.36	0.41
23:DA:116:C:O4'	36:DP:50:THR:CG2	2.68	0.41
40:DT:107:ILE:O	40:DT:107:ILE:HG23	2.20	0.41
41:DU:88:ILE:CG2	41:DU:89:GLU:N	2.80	0.41
22:DB:907:U:H5'	43:DW:143:ILE:HD11	1.80	0.41
22:DB:867:G:C2'	44:DX:25:LYS:HE2	2.50	0.41
1:EA:1185:G:O2'	9:EI:110:GLU:HG3	2.19	0.41
1:EA:11:G:H2'	1:EA:12:U:O4'	2.20	0.41
1:EA:135:C:O5'	1:EA:135:C:H6	2.03	0.41
1:EA:1359:C:H2'	1:EA:1361:G:OP2	2.20	0.41
1:EA:1433:A:O4'	37:FQ:116:ARG:CZ	2.67	0.41
1:EA:1489:G:H2'	1:EA:1490:C:O4'	2.20	0.41
1:EA:132:C:H5'	1:EA:262:A:C4'	2.50	0.41
1:EA:623:C:H2'	1:EA:624:C:C6	2.55	0.41
1:EA:684:A:H2'	1:EA:685:G:C4'	2.50	0.41
1:EA:755:G:H2'	1:EA:756:C:C5	2.54	0.41
1:EA:812:C:OP1	1:EA:903:G:H1'	2.21	0.41
1:EA:816:A:O3'	1:EA:817:C:H2'	2.19	0.41
3:EC:118:GLN:O	3:EC:122:GLU:HG3	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:EE:72:GLN:HE22	5:EE:77:PRO:HB3	1.86	0.41
7:EG:116:ALA:HA	7:EG:119:ARG:NH1	2.35	0.41
8:EH:65:TYR:HB3	8:EH:78:GLN:NE2	2.35	0.41
13:EM:66:LEU:HA	13:EM:70:LEU:HB2	2.02	0.41
14:EN:23:ARG:HD3	14:EN:30:ALA:H	1.84	0.41
3:EC:14:ILE:HG12	14:EN:57:ARG:CD	2.51	0.41
16:EP:71:ARG:HH21	16:EP:74:LEU:CB	2.34	0.41
17:EQ:20:THR:HA	17:EQ:43:LEU:CD2	2.49	0.41
17:EQ:74:LEU:HB2	17:EQ:75:ARG:H	1.75	0.41
18:ER:44:LEU:HG	18:ER:45:SER:N	2.35	0.41
6:EF:48:LEU:O	18:ER:78:LEU:O	2.39	0.41
51:F5:27:SER:CB	51:F5:30:ARG:HH12	2.32	0.41
51:F5:36:LYS:H	51:F5:36:LYS:HE2	1.85	0.41
51:F5:60:LEU:O	51:F5:61:MET:HB2	2.20	0.41
52:F6:25:VAL:HG13	52:F6:25:VAL:O	2.21	0.41
53:F7:128:LEU:HD12	53:F7:133:LYS:HB2	2.02	0.41
53:F7:54:LEU:HA	53:F7:55:PRO:HD3	1.88	0.41
23:FA:92:G:H3'	23:FA:93:G:C8	2.56	0.41
22:FB:1145:C:H3'	22:FB:1147:G:OP1	2.20	0.41
22:FB:1162:A:N3	38:FR:78:THR:CG2	2.83	0.41
22:FB:561:U:O5'	22:FB:1233:A:N1	2.53	0.41
22:FB:1308:C:H2'	22:FB:1309:G:O4'	2.20	0.41
22:FB:1369:G:O2'	22:FB:1370:U:H5'	2.20	0.41
22:FB:1440:G:P	22:FB:1575:C:H41	2.43	0.41
22:FB:177:U:H5'	47:F1:31:ILE:HG12	2.02	0.41
22:FB:1884:A:N3	24:FD:244:ARG:CD	2.83	0.41
22:FB:1829:C:O4'	22:FB:1911:A:C4'	2.69	0.41
22:FB:198:A:O2'	22:FB:199:A:P	2.79	0.41
22:FB:1999:U:O2'	48:F2:6:VAL:CG1	2.65	0.41
22:FB:871:U:O4	22:FB:2247:A:N6	2.53	0.41
22:FB:2309:G:O2'	22:FB:2310:G:H5'	2.20	0.41
22:FB:2325:A:H61	49:F3:27:ASN:CB	2.33	0.41
22:FB:10:A:N3	22:FB:2608:A:C2	2.88	0.41
22:FB:2661:G:O2'	25:FE:11:MET:HE1	2.15	0.41
22:FB:2701:A:C2'	35:FO:5:LYS:NZ	2.82	0.41
22:FB:2839:G:O2'	22:FB:2840:U:H5'	2.20	0.41
22:FB:331:U:C2	26:FF:130:THR:O	2.73	0.41
22:FB:510:G:H1'	22:FB:513:A:C8	2.56	0.41
22:FB:603:C:C2	22:FB:677:G:C2	3.03	0.41
22:FB:818:G:O6	22:FB:2051:U:H5''	2.20	0.41
24:FD:198:ASN:HB3	24:FD:201:HIS:CB	2.49	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:FD:225:ALA:O	24:FD:226:MET:HB3	2.20	0.41
24:FD:68:LYS:HE2	24:FD:106:LEU:HD23	2.01	0.41
27:FG:56:GLU:N	27:FG:56:GLU:OE2	2.53	0.41
22:FB:2738:A:C1'	28:FH:64:LEU:CD1	2.97	0.41
28:FH:89:LEU:HD22	28:FH:161:GLY:CA	2.50	0.41
34:FN:34:GLY:O	34:FN:35:LEU:HB2	2.20	0.41
36:FP:51:LEU:HD12	36:FP:52:ALA:H	1.85	0.41
37:FQ:5:ILE:HD12	37:FQ:6:LYS:H	1.84	0.41
40:FT:107:ILE:O	40:FT:107:ILE:HG23	2.20	0.41
41:FU:42:ILE:N	41:FU:42:ILE:HD12	2.33	0.41
42:FV:23:ILE:HG13	42:FV:87:GLU:CD	2.40	0.41
43:FW:67:LYS:HD2	43:FW:84:TYR:N	2.35	0.41
1:GA:1305:G:H2'	1:GA:1331:G:N2	2.35	0.41
20:AT:98:PRO:CG	1:GA:180:U:O2'	2.69	0.41
1:GA:964:A:H2'	1:GA:965:A:C8	2.54	0.41
2:GB:117:GLU:O	2:GB:120:ALA:HB3	2.20	0.41
2:GB:62:ALA:HB1	2:GB:225:ALA:HB3	2.03	0.41
2:GB:53:ARG:O	2:GB:53:ARG:HG2	2.20	0.41
4:GD:173:TRP:CE3	4:GD:193:ASP:HB3	2.55	0.41
7:GG:103:TRP:CZ2	7:GG:138:LYS:HA	2.54	0.41
7:GG:49:ILE:HG21	7:GG:124:LEU:HD12	2.01	0.41
1:GA:1374:A:O2'	7:GG:29:LYS:HG2	2.18	0.41
8:GH:39:LEU:CD1	8:GH:44:PHE:HB3	2.43	0.41
8:GH:44:PHE:N	8:GH:64:LYS:HZ3	2.18	0.41
8:GH:64:LYS:NZ	8:GH:79:VAL:HG21	2.34	0.41
1:GA:1248:A:N3	9:GI:70:LYS:HG3	2.35	0.41
1:GA:518:C:HO2'	12:GL:50:SER:HB3	1.76	0.41
12:GL:67:THR:HB	12:GL:96:VAL:HG22	2.02	0.41
13:GM:97:PRO:HA	13:GM:110:ARG:CZ	2.50	0.41
14:GN:23:ARG:HD3	14:GN:30:ALA:H	1.84	0.41
19:GS:46:GLY:N	19:GS:62:ILE:HG23	2.26	0.41
20:GT:19:SER:HB3	20:GT:22:ARG:HH21	1.84	0.41
22:HB:2603:G:H1'	48:H2:22:HIS:HA	2.02	0.41
22:HB:2398:U:C5'	49:H3:21:TYR:CZ	3.00	0.41
33:HM:62:LYS:CD	51:H5:31:HIS:NE2	2.80	0.41
51:H5:49:VAL:O	51:H5:50:LEU:HB2	2.21	0.41
51:H5:60:LEU:O	51:H5:61:MET:HB2	2.21	0.41
53:H7:104:ALA:HB2	53:H7:124:LEU:HB3	2.01	0.41
23:HA:9:G:H1'	23:HA:117:G:C2	2.55	0.41
23:HA:52:G:OP2	36:HP:64:LYS:N	2.53	0.41
22:HB:1412:C:O5'	22:HB:1412:C:H6	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:HB:1825:C:H2'	22:HB:1826:U:H6	1.85	0.41
22:HB:2329:C:H41	22:HB:2361:G:H1	1.68	0.41
22:HB:848:A:H4'	22:HB:2337:A:C1'	2.50	0.41
22:HB:2359:U:O2'	22:HB:2360:C:H5'	2.20	0.41
22:HB:238:G:O2'	22:HB:620:G:C5'	2.68	0.41
22:HB:2649:A:H2'	22:HB:2650:G:O4'	2.20	0.41
22:HB:2725:C:H4'	28:HH:142:GLY:HA3	2.02	0.41
22:HB:2727:G:H1	22:HB:2735:C:H5''	1.85	0.41
22:HB:2860:C:H4'	48:H2:34:PRO:O	2.21	0.41
22:HB:7:G:C2	22:HB:2870:C:C2	3.08	0.41
22:HB:3876:A:N7	53:H7:45:ASP:CB	2.83	0.41
22:HB:686:C:H5''	26:HF:73:SER:CB	2.41	0.41
22:HB:694:G:H2'	22:HB:695:G:C8	2.55	0.41
22:HB:686:C:N4	22:HB:821:A:H61	2.18	0.41
24:HD:133:LEU:O	24:HD:134:ARG:HG2	2.20	0.41
24:HD:57:GLY:H	24:HD:217:ARG:HA	1.84	0.41
25:HE:40:GLN:C	25:HE:42:ASP:H	2.23	0.41
27:HG:44:LYS:O	27:HG:50:ILE:HG23	2.19	0.41
27:HG:56:GLU:N	27:HG:56:GLU:OE2	2.53	0.41
28:HH:162:VAL:O	28:HH:162:VAL:HG13	2.20	0.41
34:HN:105:PHE:CE1	34:HN:112:GLU:HA	2.55	0.41
22:HB:2447:G:HO2'	34:HN:57:ARG:HG2	1.83	0.41
38:HR:101:ARG:HB3	38:HR:102:GLU:H	1.73	0.41
38:HR:36:PHE:O	38:HR:37:GLN:HG2	2.20	0.41
38:HR:61:TRP:CH2	38:HR:97:ASP:HA	2.56	0.41
38:HR:89:ASP:O	38:HR:90:LEU:HB2	2.20	0.41
22:HB:1236:G:OP2	39:HS:87:ARG:CZ	2.68	0.41
22:HB:763:A:P	40:HT:110:ALA:N	2.93	0.41
22:HB:2343:C:H4'	44:HX:40:GLN:HG3	2.01	0.41
45:HY:2:LYS:HD3	45:HY:2:LYS:N	2.35	0.41
1:IA:1203:C:H2'	1:IA:1204:A:O4'	2.20	0.41
1:IA:1484:C:H4'	22:JB:1944:C:O4'	2.17	0.41
1:IA:137:C:N3	1:IA:226:G:N1	2.69	0.41
1:IA:342:C:H2'	1:IA:343:U:C6	2.55	0.41
1:IA:55:A:H2'	1:IA:56:U:H5'	2.02	0.41
1:IA:964:A:H2'	1:IA:965:A:C8	2.54	0.41
2:IB:171:ALA:HA	2:IB:174:VAL:CG2	2.50	0.41
3:IC:118:GLN:O	3:IC:122:GLU:HG3	2.20	0.41
3:IC:39:ILE:HG12	3:IC:94:LEU:HD13	2.02	0.41
5:IE:49:PRO:HG2	5:IE:50:GLU:H	1.86	0.41
5:IE:89:ILE:HD13	5:IE:90:VAL:H	1.83	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:IH:102:ARG:NE	8:IH:125:ARG:HH22	2.18	0.41
9:II:26:VAL:CG2	9:II:61:ALA:H	2.32	0.41
10:IJ:94:VAL:HG12	10:IJ:95:GLU:N	2.35	0.41
15:IO:61:GLY:HA3	15:IO:65:ARG:CZ	2.50	0.41
16:IP:51:VAL:HB	16:IP:79:VAL:HG13	2.02	0.41
18:IR:74:ARG:HA	18:IR:79:LEU:O	2.20	0.41
1:IA:1439:C:P	20:IT:38:LYS:CE	2.99	0.41
49:J3:21:TYR:HD2	49:J3:21:TYR:HA	1.66	0.41
51:J5:49:VAL:O	51:J5:50:LEU:HB2	2.20	0.41
23:JA:20:A:O2'	23:JA:21:C:H5'	2.19	0.41
22:JB:1075:C:H5''	30:JJ:84:ILE:HG22	2.01	0.41
22:JB:1140:A:N1	22:JB:2470:U:C5	2.88	0.41
22:JB:1141:U:OP2	22:JB:2494:C:H1'	2.20	0.41
22:JB:1200:G:H2'	39:JS:83:ARG:NE	2.14	0.41
22:JB:1268:U:H5'	22:JB:1269:G:O4'	2.20	0.41
22:JB:1305:C:H2'	22:JB:1306:U:C5	2.55	0.41
22:JB:1326:U:H5''	22:JB:1345:G:C4'	2.50	0.41
22:JB:144:U:H2'	22:JB:145:C:C6	2.55	0.41
22:JB:1704:G:H1'	22:JB:1719:G:C2	2.55	0.41
22:JB:1888:C:O3'	22:JB:1889:G:C5'	2.67	0.41
22:JB:1949:A:HO2'	22:JB:2572:U:P	2.42	0.41
22:JB:2203:G:N2	22:JB:2204:A:C2	2.88	0.41
22:JB:2258:G:N3	22:JB:2306:A:C1'	2.83	0.41
22:JB:2329:C:H41	22:JB:2361:G:H1	1.68	0.41
22:JB:2397:A:H5''	51:J5:41:ILE:CD1	2.50	0.41
22:JB:2399:C:N4	51:J5:31:HIS:HD1	2.16	0.41
22:JB:2550:C:HO2'	25:JE:144:ARG:CG	2.21	0.41
22:JB:2633:A:H61	22:JB:2646:C:H42	1.68	0.41
22:JB:2694:G:H2'	22:JB:2695:C:C6	2.54	0.41
22:JB:2729:A:OP2	22:JB:2731:G:H5'	2.20	0.41
22:JB:3177:C:C5'	53:J7:163:PRO:HD2	2.50	0.41
22:JB:493:A:H4'	42:JV:56:LYS:CA	2.30	0.41
22:JB:694:G:H2'	22:JB:695:G:C8	2.55	0.41
22:JB:846:A:C1'	33:JM:53:ARG:NE	2.83	0.41
22:JB:894:G:H2'	22:JB:895:G:C1'	2.50	0.41
22:JB:984:A:H2'	22:JB:1200:G:N2	2.35	0.41
24:JD:105:ILE:HD13	24:JD:106:LEU:H	1.84	0.41
22:JB:1141:U:O4	25:JE:147:PRO:CB	2.68	0.41
26:JF:59:TYR:HB3	26:JF:60:GLY:H	1.59	0.41
28:JH:171:LEU:O	28:JH:171:LEU:HD12	2.20	0.41
28:JH:19:ALA:HB1	28:JH:44:ARG:HE	1.84	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:JL:21:CYS:HA	32:JL:53:ALA:CA	2.50	0.41
35:JO:38:LEU:HD13	35:JO:38:LEU:H	1.85	0.41
22:JB:1003:C:P	38:JR:47:TYR:HH	2.30	0.41
22:JB:2309:G:H1'	44:JX:36:ILE:HD11	2.02	0.41
1:AA:1224:G:H3'	19:AS:78:ARG:HH21	1.83	0.41
1:AA:1344:C:O2'	9:AI:120:ARG:CD	2.61	0.41
1:AA:264:U:H1'	17:AQ:63:ARG:C	2.35	0.41
1:AA:51:A:H4'	1:AA:52:G:OP2	2.20	0.41
1:AA:529:G:O6	12:AL:46:LYS:HG2	2.17	0.41
1:AA:970:C:O2	13:AM:126:LYS:HD2	2.10	0.41
2:AB:178:ARG:HD3	2:AB:196:LEU:CB	2.48	0.41
3:AC:73:PRO:HA	3:AC:105:GLU:CG	2.48	0.41
3:AC:83:ARG:HA	3:AC:86:VAL:HB	2.01	0.41
6:AF:3:ARG:HB3	6:AF:93:SER:O	2.21	0.41
8:AH:14:ARG:HA	8:AH:18:ARG:HH11	1.86	0.41
13:AM:84:ILE:HD11	13:AM:86:CYS:HB2	2.02	0.41
1:AA:1187:G:C4	14:AN:61:TRP:N	2.83	0.41
16:AP:26:ARG:HB3	16:AP:27:LYS:H	1.63	0.41
17:AQ:32:TYR:O	17:AQ:34:LYS:N	2.51	0.41
1:AA:759:A:C6	17:AQ:98:LEU:HD13	2.36	0.41
18:AR:26:LEU:N	18:AR:26:LEU:HD22	2.35	0.41
19:AS:5:LEU:HD11	19:AS:8:GLY:C	2.41	0.41
19:AS:73:GLU:HG2	19:AS:74:PHE:CE1	2.56	0.41
20:AT:35:THR:HA	20:AT:38:LYS:HE3	2.00	0.41
22:BB:2326:C:OP2	51:B5:35:GLY:O	2.37	0.41
51:B5:41:ILE:HD13	51:B5:42:ARG:HH21	1.86	0.41
51:B5:57:ARG:HA	51:B5:57:ARG:HE	1.82	0.41
53:B7:128:LEU:HD12	53:B7:133:LYS:HB2	2.02	0.41
22:BB:321:A:C2	22:BB:1223:G:C6	3.08	0.41
22:BB:1223:G:N2	22:BB:1225:G:N2	2.69	0.41
22:BB:128:C:H5'	22:BB:1361:G:C2	2.55	0.41
22:BB:1544:A:H2'	22:BB:1545:G:C4'	2.50	0.41
22:BB:1778:U:H3'	22:BB:1778:U:OP2	2.20	0.41
22:BB:1933:G:H2'	22:BB:1934:U:C5	2.55	0.41
22:BB:2422:C:O2'	22:BB:2423:G:H5'	2.19	0.41
22:BB:2529:G:C2	22:BB:2538:C:N3	2.87	0.41
22:BB:2815:C:P	35:BO:50:GLN:CG	2.93	0.41
22:BB:3868:U:H2'	22:BB:3869:G:O4'	2.20	0.41
22:BB:818:G:O6	22:BB:2051:U:H5"	2.20	0.41
22:BB:895:G:N2	22:BB:907:U:O2	2.53	0.41
22:BB:940:G:N2	46:BZ:22:ALA:CB	2.81	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BD:154:GLN:HB3	24:BD:155:LEU:H	1.50	0.41
26:BF:168:SER:CB	26:BF:183:HIS:HE2	2.33	0.41
22:BB:2423:G:P	26:BF:62:LYS:CE	3.08	0.41
27:BG:111:ILE:HA	27:BG:135:GLN:OE1	2.19	0.41
27:BG:4:LEU:O	27:BG:8:TYR:HB3	2.19	0.41
28:BH:105:MET:HE3	28:BH:115:ILE:HG23	2.03	0.41
28:BH:162:VAL:HG13	28:BH:162:VAL:O	2.19	0.41
33:BM:143:PRO:HG2	33:BM:144:GLU:N	2.36	0.41
34:BN:9:LYS:HD3	34:BN:93:TYR:CE2	2.51	0.41
39:BS:80:TYR:HE1	39:BS:81:ARG:NH1	2.18	0.41
41:BU:11:VAL:HG21	41:BU:26:SER:HB2	2.02	0.41
45:BY:22:LYS:HD3	45:BY:47:ARG:CZ	2.50	0.41
45:BY:39:GLN:OE1	45:BY:42:ARG:HD2	2.19	0.41
1:CA:1259:C:H42	1:CA:1274:G:H22	1.68	0.41
1:CA:1414:U:H2'	1:CA:1415:G:H8	1.85	0.41
1:CA:896:C:H2'	1:CA:897:C:C6	2.56	0.41
1:CA:940:C:H5'	7:CG:29:LYS:CD	2.44	0.41
3:CC:11:ARG:C	3:CC:16:ARG:HB3	2.39	0.41
5:CE:49:PRO:HG2	5:CE:50:GLU:H	1.85	0.41
6:CF:23:LYS:O	6:CF:27:GLN:HG2	2.20	0.41
6:CF:2:ARG:O	6:CF:66:GLU:HG3	2.20	0.41
7:CG:137:LYS:O	7:CG:141:VAL:HG23	2.19	0.41
7:CG:16:LEU:HD22	7:CG:16:LEU:N	2.35	0.41
1:CA:753:A:C4	8:CH:1:MET:HA	2.54	0.41
13:CM:84:ILE:HD11	13:CM:86:CYS:HB2	2.02	0.41
1:CA:273:A:N9	17:CQ:16:GLN:OE1	2.52	0.41
18:CR:73:ALA:HA	18:CR:78:LEU:HB3	2.02	0.41
53:D7:82:LYS:HZ2	53:D7:82:LYS:HB2	1.85	0.41
23:DA:105:G:H5''	43:DW:90:GLU:O	2.20	0.41
22:DB:989:G:O2'	22:DB:1013:G:H4'	2.20	0.41
22:DB:1140:A:N3	22:DB:2549:G:O2'	2.38	0.41
22:DB:1146:G:H21	22:DB:1147:G:H1'	1.85	0.41
22:DB:1353:A:H5''	22:DB:1407:G:N3	2.35	0.41
22:DB:1795:C:O2'	22:DB:1796:A:H5'	2.20	0.41
22:DB:1861:G:N1	53:D7:199:ASN:ND2	2.64	0.41
22:DB:225:G:O3'	47:D1:28:ARG:HD3	2.19	0.41
22:DB:2276:C:H2'	22:DB:2277:A:C8	2.55	0.41
22:DB:579:G:N2	22:DB:2477:C:H4'	2.35	0.41
22:DB:2498:U:C5'	22:DB:2546:G:H21	2.22	0.41
22:DB:2664:G:H2'	22:DB:2665:G:C8	2.56	0.41
22:DB:2729:A:OP2	22:DB:2731:G:H5'	2.19	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:DB:368:A:N3	22:DB:368:A:H2'	2.35	0.41
22:DB:404:A:O2'	22:DB:422:C:H5'	2.20	0.41
22:DB:458:G:H4'	22:DB:461:A:H1'	2.02	0.41
22:DB:737:C:O2'	22:DB:738:G:H5'	2.20	0.41
22:DB:66:U:C5	22:DB:87:G:N1	2.88	0.41
22:DB:933:G:O2'	22:DB:934:G:H5'	2.20	0.41
22:DB:996:C:H2'	22:DB:997:C:H5	1.84	0.41
24:DD:225:ALA:O	24:DD:226:MET:HB3	2.20	0.41
25:DE:116:VAL:HG22	25:DE:155:ARG:O	2.20	0.41
25:DE:119:ARG:HG2	25:DE:155:ARG:CG	2.50	0.41
25:DE:167:VAL:O	25:DE:168:GLN:HB2	2.20	0.41
25:DE:181:LEU:HD13	37:DQ:12:LEU:HD23	1.72	0.41
25:DE:40:GLN:C	25:DE:42:ASP:H	2.23	0.41
22:DB:2786:G:C5'	25:DE:58:LYS:O	2.68	0.41
22:DB:2795:A:H62	25:DE:8:LYS:HE3	1.85	0.41
26:DF:158:ARG:HH12	26:DF:169:VAL:HG23	1.84	0.41
27:DG:111:ILE:HA	27:DG:135:GLN:OE1	2.19	0.41
27:DG:126:GLY:O	27:DG:157:VAL:HA	2.21	0.41
27:DG:30:ARG:H	27:DG:30:ARG:HE	1.60	0.41
29:DI:26:ARG:HH22	47:D1:73:LYS:HB3	1.06	0.41
25:DE:151:TYR:CG	31:DK:106:TYR:CD1	2.85	0.41
32:DL:122:ARG:HD3	32:DL:124:MET:HE3	2.03	0.41
22:DB:1934:U:H5''	32:DL:56:LYS:O	2.20	0.41
32:DL:69:VAL:O	32:DL:70:VAL:HB	2.20	0.41
22:DB:2464:G:C4	34:DN:120:ARG:HH12	1.55	0.41
35:DO:83:VAL:O	35:DO:86:LYS:HB3	2.20	0.41
38:DR:61:TRP:CH2	38:DR:97:ASP:HA	2.55	0.41
39:DS:40:VAL:HG13	39:DS:51:ALA:CB	2.47	0.41
22:DB:507:A:OP1	40:DT:20:LEU:HD23	2.20	0.41
41:DU:11:VAL:HG21	41:DU:26:SER:HB2	2.02	0.41
1:EA:1099:G:H2'	1:EA:1100:C:H5'	2.02	0.41
1:EA:1151:A:OP1	10:EJ:44:VAL:HG22	2.13	0.41
1:EA:1220:G:HO2'	1:EA:1221:G:H5'	1.85	0.41
1:EA:1329:A:OP1	13:EM:27:LYS:N	2.53	0.41
1:EA:173:U:H6	1:EA:198:G:HO2'	1.66	0.41
1:EA:300:A:C2'	1:EA:301:G:H5'	2.51	0.41
1:EA:363:A:O2'	1:EA:364:A:H5'	2.20	0.41
1:EA:428:G:H5'	1:EA:430:A:O5'	2.19	0.41
1:EA:520:A:C1'	12:EL:73:GLU:HB3	2.51	0.41
1:EA:544:G:H22	1:EA:549:C:H4'	1.81	0.41
1:EA:889:A:H4'	1:EA:890:G:H4'	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:EA:8:A:H2'	4:ED:209:ARG:HD3	2.02	0.41
2:EB:93:VAL:HG13	2:EB:148:TYR:O	2.20	0.41
3:EC:67:THR:OG1	3:EC:102:ASN:HB2	2.19	0.41
4:ED:173:TRP:CE3	4:ED:193:ASP:HB3	2.55	0.41
4:ED:205:GLU:HG2	5:EE:101:ILE:N	2.35	0.41
6:EF:23:LYS:O	6:EF:27:GLN:HG2	2.20	0.41
6:EF:80:ARG:HH21	6:EF:87:ARG:HA	1.83	0.41
7:EG:23:VAL:C	7:EG:25:ALA:H	2.22	0.41
7:EG:42:ILE:HG13	7:EG:42:ILE:H	1.68	0.41
7:EG:92:SER:C	7:EG:96:GLN:HE21	2.24	0.41
8:EH:111:ILE:CG2	8:EH:120:THR:HA	2.50	0.41
10:EJ:79:ARG:HH22	10:EJ:83:GLU:CD	2.24	0.41
13:EM:110:ARG:HG2	13:EM:110:ARG:NH1	2.35	0.41
13:EM:15:VAL:HA	13:EM:45:VAL:HG22	2.02	0.41
13:EM:84:ILE:HD11	13:EM:86:CYS:HB2	2.02	0.41
1:EA:450:G:C4'	16:EP:42:ARG:HA	2.49	0.41
1:EA:280:C:P	17:EQ:95:TYR:HE1	2.27	0.41
18:ER:34:TYR:HA	18:ER:37:VAL:CG2	2.49	0.41
6:EF:46:ARG:HH22	18:ER:35:ARG:NH1	2.19	0.41
19:ES:52:TYR:C	19:ES:53:ASN:HD22	2.22	0.41
22:FB:2074:U:H1'	47:F1:43:TRP:C	2.41	0.41
22:FB:469:G:C5'	50:F4:41:GLN:OE1	2.68	0.41
53:F7:117:MSE:O	53:F7:121:GLY:HA3	2.20	0.41
23:FA:111:C:H5''	23:FA:112:A:H5''	2.02	0.41
22:FB:1146:G:H21	22:FB:1147:G:H1'	1.85	0.41
22:FB:1268:U:H5'	22:FB:1269:G:O4'	2.20	0.41
22:FB:1305:C:H2'	22:FB:1306:U:C5	2.56	0.41
22:FB:1353:A:H5''	22:FB:1407:G:N3	2.36	0.41
22:FB:1651:U:P	22:FB:1653:C:H41	2.44	0.41
22:FB:1825:C:H2'	22:FB:1826:U:H6	1.85	0.41
22:FB:1901:A:N3	22:FB:1901:A:H2'	2.35	0.41
22:FB:2040:A:H1'	48:F2:3:LYS:C	2.40	0.41
22:FB:2261:G:N1	22:FB:2404:A:C8	2.88	0.41
22:FB:974:U:H5'	22:FB:2476:A:OP1	2.19	0.41
22:FB:2766:U:H5'	25:FE:66:HIS:N	2.31	0.41
22:FB:2771:C:C2'	22:FB:2772:U:H5'	2.50	0.41
22:FB:352:G:H2'	22:FB:353:G:O4'	2.20	0.41
22:FB:368:A:H2'	22:FB:368:A:N3	2.35	0.41
22:FB:404:A:O2'	22:FB:422:C:H5'	2.20	0.41
22:FB:43:A:C2'	22:FB:44:G:H5'	2.50	0.41
22:FB:475:U:H4'	22:FB:699:G:N1	2.36	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:FB:613:A:N1	33:FM:97:ARG:CZ	2.84	0.41
22:FB:656:U:HO2'	22:FB:657:A:H8	1.67	0.41
22:FB:977:G:H21	22:FB:2246:A:H8	1.67	0.41
22:FB:1810:U:P	24:FD:156:ALA:N	2.93	0.41
25:FE:95:ILE:HD13	25:FE:95:ILE:N	2.29	0.41
27:FG:132:ILE:O	27:FG:152:MET:O	2.39	0.41
27:FG:13:ARG:HB3	27:FG:14:PRO:CD	2.44	0.41
27:FG:44:LYS:O	27:FG:50:ILE:HG23	2.20	0.41
27:FG:4:LEU:O	27:FG:8:TYR:HB3	2.19	0.41
22:FB:566:U:C2'	31:FK:73:ASN:ND2	2.84	0.41
34:FN:9:LYS:HZ2	34:FN:73:LYS:HD3	1.86	0.41
37:FQ:80:VAL:CG2	37:FQ:111:ARG:HE	2.34	0.41
22:FB:529:U:C5'	40:FT:39:ARG:HD3	2.43	0.41
40:FT:55:ASP:CA	40:FT:58:ARG:HB3	2.50	0.41
40:FT:72:LEU:HA	40:FT:126:ILE:HG21	2.02	0.41
22:FB:23:G:C2'	40:FT:96:TYR:HE2	2.29	0.41
41:FU:17:TYR:H	41:FU:20:MET:CB	2.29	0.41
45:FY:25:LEU:HA	45:FY:25:LEU:HD22	1.95	0.41
45:FY:52:GLN:HG3	45:FY:52:GLN:O	2.18	0.41
22:FB:863:C:C2'	46:FZ:43:MET:HG2	2.49	0.41
22:FB:1000:G:P	46:FZ:9:VAL:CG2	2.95	0.41
1:GA:107:G:C6	20:GT:15:ARG:CB	2.84	0.41
1:GA:1360:A:H2'	1:GA:1361:G:H5'	2.01	0.41
1:GA:768:A:C1'	1:GA:1523:G:N2	2.83	0.41
1:GA:264:U:O2'	17:GQ:65:ILE:N	2.49	0.41
1:GA:430:A:P	4:GD:7:PRO:HA	2.61	0.41
1:GA:570:G:H4'	1:GA:819:A:H2'	2.01	0.41
1:GA:673:G:H2'	1:GA:674:G:C8	2.55	0.41
1:GA:861:G:N3	1:GA:874:G:H5'	2.35	0.41
2:GB:132:LYS:C	2:GB:134:GLU:H	2.24	0.41
2:GB:172:ILE:HG22	2:GB:176:GLU:OE1	2.20	0.41
8:GH:64:LYS:HE2	8:GH:64:LYS:C	2.40	0.41
10:GJ:53:PRO:HG2	10:GJ:54:PHE:HD1	1.85	0.41
11:GK:50:TYR:O	11:GK:55:LYS:HE3	2.19	0.41
1:GA:951:G:C2	13:GM:126:LYS:HG3	2.55	0.41
13:GM:87:TYR:HB3	19:GS:73:GLU:CB	2.34	0.41
1:GA:1358:U:H5''	14:GN:33:VAL:O	2.20	0.41
1:GA:277:C:OP2	17:GQ:41:LYS:HD2	2.20	0.41
51:H5:41:ILE:HD13	51:H5:41:ILE:O	2.20	0.41
22:HB:1237:G:H5''	39:HS:87:ARG:CB	2.50	0.41
22:HB:1254:G:H2'	22:HB:1255:A:C5	2.54	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:HB:1305:C:H2'	22:HB:1306:U:C5	2.55	0.41
22:HB:1326:U:H5''	22:HB:1345:G:C4'	2.50	0.41
22:HB:1353:A:H5''	22:HB:1407:G:N3	2.35	0.41
22:HB:48:A:N6	22:HB:143:A:H2	2.18	0.41
22:HB:1714:A:H5''	22:HB:1715:A:H8	1.85	0.41
22:HB:1778:U:H3'	22:HB:1778:U:OP2	2.20	0.41
22:HB:2008:C:OP1	25:HE:147:PRO:CG	2.66	0.41
22:HB:2421:C:O2'	22:HB:2422:C:H5'	2.20	0.41
22:HB:2503:G:C4	22:HB:2744:A:C2	3.04	0.41
22:HB:2523:G:N2	22:HB:2625:U:H4'	2.36	0.41
22:HB:2627:G:C2	32:HL:39:GLY:HA3	2.55	0.41
22:HB:2729:A:OP2	22:HB:2731:G:H5'	2.20	0.41
22:HB:404:A:O2'	22:HB:422:C:H5'	2.20	0.41
22:HB:475:U:H4'	22:HB:699:G:N1	2.35	0.41
22:HB:653:G:O2'	22:HB:654:A:H4'	2.20	0.41
22:HB:791:G:H2'	22:HB:792:U:H6	1.85	0.41
22:HB:990:A:H2'	22:HB:993:C:N4	2.35	0.41
22:HB:1806:G:OP1	24:HD:44:ASN:HA	2.21	0.41
25:HE:116:VAL:CG2	25:HE:156:MET:HA	2.50	0.41
25:HE:40:GLN:C	25:HE:42:ASP:N	2.73	0.41
28:HH:153:LYS:HA	28:HH:154:PRO:HD3	1.91	0.41
28:HH:19:ALA:HB1	28:HH:44:ARG:HE	1.85	0.41
22:HB:1090:C:C2	30:HJ:132:ARG:CD	3.02	0.41
30:HJ:72:PRO:C	30:HJ:74:MET:N	2.72	0.41
34:HN:9:LYS:HZ2	34:HN:73:LYS:HD3	1.86	0.41
35:HO:100:VAL:HG12	35:HO:109:THR:CG2	2.50	0.41
35:HO:20:LEU:C	35:HO:22:ARG:H	2.23	0.41
36:HP:11:LEU:HD12	36:HP:12:ARG:CD	2.50	0.41
38:HR:33:ARG:HE	38:HR:34:ASN:ND2	2.17	0.41
43:HW:115:ILE:HG22	43:HW:116:VAL:N	2.35	0.41
43:HW:67:LYS:HD2	43:HW:84:TYR:N	2.35	0.41
22:HB:2343:C:C5'	44:HX:40:GLN:HG3	2.49	0.41
44:HX:46:LYS:HE2	44:HX:48:GLY:HA2	2.02	0.41
44:HX:80:SER:HB3	44:HX:83:ALA:HB3	2.01	0.41
1:IA:1305:G:H2'	1:IA:1331:G:N2	2.35	0.41
1:IA:366:C:H42	1:IA:394:G:H21	1.67	0.41
1:IA:376:G:C1'	16:IP:28:ARG:CZ	2.93	0.41
1:IA:623:C:H41	4:ID:139:ARG:NH2	2.17	0.41
1:IA:688:G:H2'	1:IA:689:C:C6	2.55	0.41
1:IA:812:C:O2'	1:IA:813:U:P	2.78	0.41
1:IA:861:G:N3	1:IA:874:G:H5'	2.34	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:IB:184:VAL:HB	2:IB:185:ILE:H	1.56	0.41
2:IB:32:ILE:HD13	2:IB:40:HIS:HB3	2.02	0.41
3:IC:67:THR:OG1	3:IC:102:ASN:HB2	2.19	0.41
3:IC:72:LYS:O	3:IC:73:PRO:O	2.39	0.41
6:IF:23:LYS:O	6:IF:27:GLN:HG2	2.20	0.41
7:IG:146:GLU:N	7:IG:149:ARG:HB2	2.35	0.41
8:IH:14:ARG:HA	8:IH:18:ARG:HH11	1.86	0.41
9:II:105:ASP:HB3	9:II:107:ARG:HG3	2.01	0.41
13:IM:84:ILE:C	13:IM:86:CYS:H	2.23	0.41
15:IO:38:ARG:O	15:IO:41:GLU:HB3	2.20	0.41
17:IQ:26:GLN:HB3	17:IQ:38:ARG:H	1.84	0.41
1:IA:127:G:C4'	17:IQ:4:LYS:HZ1	2.33	0.41
19:IS:5:LEU:HD21	19:IS:9:VAL:HG22	2.01	0.41
1:IA:261:U:O4	20:IT:79:ARG:HD3	2.18	0.41
50:J4:25:LYS:HZ3	50:J4:25:LYS:HA	1.83	0.41
22:JB:53:G:HO2'	50:J4:35:ARG:CD	2.24	0.41
50:J4:37:LYS:NZ	50:J4:37:LYS:HB3	2.36	0.41
52:J6:25:VAL:O	52:J6:25:VAL:HG13	2.21	0.41
53:J7:165:VAL:O	53:J7:167:VAL:HG23	2.19	0.41
22:JB:1204:G:H5'	33:JM:37:GLN:HE22	0.59	0.41
22:JB:1223:G:N2	22:JB:1225:G:N2	2.68	0.41
22:JB:1254:G:H2'	22:JB:1255:A:C5	2.55	0.41
22:JB:1265:G:N1	38:JR:36:PHE:CB	2.67	0.41
22:JB:1548:U:N3	22:JB:1556:A:H1'	2.22	0.41
22:JB:1625:A:H2'	22:JB:1632:A:H4'	2.02	0.41
22:JB:1741:G:H2'	22:JB:1742:G:H8	1.84	0.41
22:JB:1778:U:H3'	22:JB:1778:U:OP2	2.20	0.41
22:JB:1825:C:H2'	22:JB:1826:U:H6	1.85	0.41
22:JB:1901:A:H2'	22:JB:1901:A:N3	2.35	0.41
22:JB:2261:G:O6	22:JB:2404:A:N3	2.54	0.41
22:JB:2276:C:H2'	22:JB:2277:A:C8	2.55	0.41
22:JB:2487:G:C4'	22:JB:2534:U:C5'	2.86	0.41
22:JB:2530:C:H2'	22:JB:2531:U:C6	2.56	0.41
22:JB:2597:G:H2'	22:JB:2598:C:C6	2.56	0.41
22:JB:2649:A:H2'	22:JB:2650:G:O4'	2.20	0.41
22:JB:2664:G:H2'	22:JB:2665:G:C8	2.56	0.41
22:JB:80:A:O2'	22:JB:306:G:C1'	2.68	0.41
22:JB:3190:G:H2'	22:JB:3191:A:O4'	2.20	0.41
22:JB:475:U:H4'	22:JB:699:G:N1	2.35	0.41
22:JB:744:C:H2'	22:JB:745:C:C6	2.55	0.41
22:JB:804:C:C2	22:JB:807:A:H5'	2.56	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:JB:818:G:O6	22:JB:2051:U:H5''	2.20	0.41
22:JB:686:C:N4	22:JB:821:A:H61	2.18	0.41
22:JB:869:C:H5'	44:JX:57:HIS:CA	2.37	0.41
22:JB:893:G:N2	22:JB:911:A:C8	2.89	0.41
22:JB:932:G:O2'	22:JB:2248:A:C6	2.73	0.41
22:JB:1813:A:P	24:JD:202:LYS:HG2	2.60	0.41
24:JD:182:LEU:CB	24:JD:269:PHE:HB3	2.51	0.41
24:JD:27:LYS:O	24:JD:28:ARG:O	2.38	0.41
26:JF:22:VAL:CG2	26:JF:23:ASN:N	2.78	0.41
27:JG:132:ILE:O	27:JG:152:MET:O	2.38	0.41
28:JH:115:ILE:HG13	28:JH:116:GLU:N	2.36	0.41
28:JH:69:ARG:HB3	28:JH:69:ARG:HH11	1.85	0.41
31:JK:83:ILE:HG22	31:JK:84:ASN:N	2.35	0.41
32:JL:122:ARG:HD3	32:JL:124:MET:HE3	2.02	0.41
32:JL:90:ARG:HE	32:JL:90:ARG:HA	1.86	0.41
33:JM:85:ASP:O	33:JM:118:VAL:HG12	2.20	0.41
33:JM:26:THR:HG22	33:JM:27:ASP:N	2.35	0.41
37:JQ:56:ALA:H	37:JQ:71:ILE:HG12	1.85	0.41
22:JB:1265:G:H21	38:JR:32:TYR:CA	2.33	0.41
38:JR:75:ASN:O	38:JR:76:TYR:HB3	2.20	0.41
39:JS:80:TYR:HE1	39:JS:81:ARG:NH1	2.18	0.41
40:JT:38:VAL:O	40:JT:41:VAL:HG22	2.20	0.41
41:JU:65:VAL:HG12	41:JU:66:GLY:N	2.36	0.41
42:JV:24:VAL:HG21	42:JV:32:GLN:HB3	2.02	0.41
22:JB:2365:U:C4'	44:JX:38:VAL:HB	2.22	0.41
1:AA:132:C:H5'	1:AA:262:A:C4'	2.50	0.41
1:AA:1404:C:H1'	1:AA:1519:A:H1'	2.01	0.41
1:AA:1432:G:H2'	1:AA:1467:G:C6	2.55	0.41
1:AA:323:U:C2'	20:AT:15:ARG:NH2	2.72	0.41
1:AA:742:G:C5'	15:AO:58:MET:HE1	2.46	0.41
1:AA:768:A:H5''	1:AA:804:U:H5'	2.02	0.41
1:AA:896:C:H2'	1:AA:897:C:C6	2.56	0.41
1:AA:898:G:H2'	1:AA:900:A:OP2	2.19	0.41
3:AC:152:ILE:HB	3:AC:199:LYS:HB2	2.02	0.41
3:AC:72:LYS:O	3:AC:73:PRO:O	2.39	0.41
7:AG:116:ALA:HA	7:AG:119:ARG:NH1	2.35	0.41
8:AH:26:VAL:HG21	8:AH:32:LYS:HB3	2.01	0.41
8:AH:65:TYR:HB3	8:AH:78:GLN:NE2	2.35	0.41
12:AL:67:THR:HB	12:AL:96:VAL:HG22	2.02	0.41
13:AM:49:THR:HG22	13:AM:50:GLU:H	1.86	0.41
15:AO:61:GLY:HA3	15:AO:65:ARG:CZ	2.50	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:236:G:C5'	17:AQ:42:TYR:OH	2.66	0.41
22:BB:176:A:C4	47:B1:32:HIS:CE1	3.07	0.41
49:B3:38:LYS:HB3	49:B3:39:LYS:H	1.69	0.41
49:B3:49:VAL:HB	49:B3:50:PHE:H	1.71	0.41
22:BB:2338:C:H5''	51:B5:50:LEU:HD22	2.02	0.41
53:B7:112:ILE:HD12	53:B7:135:PRO:HB3	2.02	0.41
22:BB:1861:G:C4	53:B7:199:ASN:CB	3.02	0.41
22:BB:1002:C:H5'	22:BB:1199:U:OP1	2.20	0.41
22:BB:1118:G:O2'	22:BB:1119:U:H5'	2.20	0.41
22:BB:1237:G:H1'	39:BS:86:HIS:ND1	2.36	0.41
22:BB:586:G:H5''	22:BB:1268:U:C2	2.55	0.41
22:BB:1305:C:H2'	22:BB:1306:U:C5	2.56	0.41
22:BB:1402:G:N7	22:BB:1412:C:N3	2.63	0.41
22:BB:1437:A:H62	22:BB:1439:G:N2	2.02	0.41
22:BB:1591:U:O2'	22:BB:1592:U:H5'	2.20	0.41
22:BB:1795:C:O2'	22:BB:1796:A:H5'	2.20	0.41
22:BB:1825:C:H2'	22:BB:1826:U:H6	1.85	0.41
22:BB:1955:G:H2'	22:BB:1956:G:H5'	2.02	0.41
22:BB:2007:G:N2	31:BK:103:TYR:CZ	2.76	0.41
22:BB:2334:C:O2	44:BX:32:LYS:NZ	2.39	0.41
22:BB:2357:A:O3'	36:BP:19:THR:HG23	2.17	0.41
22:BB:2359:U:O2'	22:BB:2360:C:H5'	2.20	0.41
22:BB:2491:C:H2'	22:BB:2492:G:C4'	2.50	0.41
22:BB:2599:U:O2'	25:BE:156:MET:C	2.49	0.41
22:BB:3180:U:H2'	22:BB:3181:C:H5'	2.02	0.41
22:BB:43:A:C2'	22:BB:44:G:H5'	2.50	0.41
22:BB:573:C:C2'	39:BS:79:GLN:HE22	2.30	0.41
22:BB:653:G:O2'	22:BB:654:A:H4'	2.20	0.41
22:BB:6:A:C2	22:BB:2871:U:O2	2.74	0.41
22:BB:794:A:H1'	22:BB:1767:G:H21	1.86	0.41
22:BB:79:G:H1'	22:BB:356:A:C2	2.41	0.41
22:BB:930:A:C8	23:BA:83:C:C5'	2.72	0.41
22:BB:990:A:H2'	22:BB:993:C:N4	2.35	0.41
22:BB:1954:A:N6	24:BD:239:ARG:HB3	2.25	0.41
26:BF:133:PHE:O	26:BF:136:TRP:HB3	2.20	0.41
26:BF:158:ARG:NH1	26:BF:169:VAL:HG23	2.36	0.41
27:BG:132:ILE:O	27:BG:152:MET:O	2.39	0.41
27:BG:151:GLY:HA3	27:BG:152:MET:HE3	2.02	0.41
22:BB:566:U:H4'	31:BK:74:MET:CE	2.50	0.41
33:BM:46:GLY:O	33:BM:48:PHE:N	2.54	0.41
23:BA:92:G:N1	34:BN:23:LYS:CG	2.83	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BP:51:LEU:HD12	36:BP:52:ALA:H	1.85	0.41
44:BX:32:LYS:HG3	44:BX:33:ALA:N	2.35	0.41
44:BX:46:LYS:HE2	44:BX:48:GLY:HA2	2.02	0.41
1:CA:1035:A:H2'	1:CA:1036:G:N2	2.33	0.41
1:CA:1073:U:H2'	2:CB:104:ASN:OD1	2.20	0.41
1:CA:1395:C:C5'	1:CA:1401:G:H21	2.25	0.41
1:CA:287:U:H2'	1:CA:288:A:C8	2.50	0.41
1:CA:300:A:C2'	1:CA:301:G:H5'	2.51	0.41
1:CA:429:U:C1'	1:CA:430:A:H5''	2.47	0.41
1:CA:511:C:H1'	1:CA:512:U:C5	2.55	0.41
1:CA:623:C:H2'	1:CA:624:C:C6	2.56	0.41
2:CB:69:LEU:HD22	2:CB:162:ILE:HG23	2.02	0.41
4:CD:10:ARG:NH2	4:CD:66:ARG:NH1	2.66	0.41
1:CA:430:A:OP1	4:CD:8:VAL:CG2	2.65	0.41
1:CA:7:G:HO2'	5:CE:121:LYS:HB2	1.86	0.41
1:CA:559:A:C5'	5:CE:124:GLY:N	2.74	0.41
8:CH:111:ILE:O	8:CH:134:ILE:HD12	2.20	0.41
8:CH:111:ILE:CG2	8:CH:120:THR:HA	2.50	0.41
10:CJ:62:HIS:C	14:CN:59:ALA:CB	2.86	0.41
10:CJ:79:ARG:NH1	10:CJ:83:GLU:HB3	2.08	0.41
1:CA:235:C:O2	17:CQ:4:LYS:HE2	2.20	0.41
19:CS:73:GLU:HG2	19:CS:74:PHE:CE1	2.56	0.41
47:D1:10:VAL:N	47:D1:11:PRO:CD	2.80	0.41
47:D1:41:PRO:CG	47:D1:57:ASP:HA	2.50	0.41
48:D2:46:CYS:HB2	48:D2:50:GLY:HA2	2.01	0.41
51:D5:27:SER:CB	51:D5:30:ARG:HH12	2.32	0.41
53:D7:165:VAL:O	53:D7:167:VAL:HG23	2.19	0.41
53:D7:185:ALA:CA	53:D7:189:ALA:HB2	2.48	0.41
22:DB:1268:U:H5'	22:DB:1269:G:O4'	2.20	0.41
22:DB:1296:G:HO2'	22:DB:1297:A:H3'	1.85	0.41
22:DB:1778:U:H3'	22:DB:1778:U:OP2	2.20	0.41
22:DB:1955:G:H2'	22:DB:1956:G:H5'	2.02	0.41
22:DB:1993:G:H2'	22:DB:1994:U:C6	2.55	0.41
22:DB:1139:A:H61	22:DB:2469:G:C5'	2.33	0.41
22:DB:2633:A:H5''	22:DB:2634:G:H4'	2.01	0.41
22:DB:2612:G:H5'	22:DB:2787:A:H5'	2.03	0.41
22:DB:107:G:C4'	22:DB:358:C:HO2'	2.32	0.41
22:DB:609:U:O2'	22:DB:610:G:H5'	2.21	0.41
22:DB:744:C:H2'	22:DB:745:C:C6	2.55	0.41
22:DB:887:G:H2'	22:DB:888:G:C8	2.55	0.41
25:DE:116:VAL:CG2	25:DE:156:MET:HA	2.50	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:DE:95:ILE:HD13	25:DE:95:ILE:N	2.29	0.41
26:DF:108:ILE:HA	26:DF:111:ARG:HB3	2.03	0.41
27:DG:136:LEU:HD13	27:DG:150:ARG:HH21	1.85	0.41
28:DH:27:LYS:NZ	28:DH:27:LYS:HB2	2.36	0.41
22:DB:7:G:H5'	31:DK:161:GLN:CA	2.49	0.41
22:DB:548:G:C2'	31:DK:33:ILE:CG2	2.84	0.41
32:DL:47:VAL:CG2	32:DL:76:ARG:HD3	2.50	0.41
34:DN:12:LYS:HB3	34:DN:12:LYS:NZ	2.35	0.41
35:DO:43:GLU:C	35:DO:46:PRO:HD2	2.40	0.41
37:DQ:56:ALA:H	37:DQ:71:ILE:HG12	1.85	0.41
38:DR:36:PHE:O	38:DR:37:GLN:HG2	2.20	0.41
22:DB:1164:C:C1'	38:DR:77:SER:HG	2.31	0.41
22:DB:1164:C:C1'	38:DR:77:SER:OG	2.68	0.41
22:DB:1162:A:H1'	38:DR:78:THR:HG23	2.02	0.41
41:DU:27:PHE:HB3	41:DU:28:TRP:H	1.69	0.41
42:DV:23:ILE:HG13	42:DV:87:GLU:CD	2.40	0.41
43:DW:3:LEU:HB3	43:DW:56:VAL:HG13	2.02	0.41
1:EA:1349:A:OP2	9:EI:118:LYS:HD2	2.05	0.41
1:EA:1426:C:H2'	1:EA:1427:U:O4'	2.21	0.41
1:EA:503:C:O2'	1:EA:504:C:H5'	2.20	0.41
1:EA:511:C:H1'	1:EA:512:U:C5	2.55	0.41
1:EA:668:G:H1	1:EA:738:C:H42	1.69	0.41
1:EA:684:A:HO2'	11:EK:40:ILE:C	2.22	0.41
1:EA:861:G:N3	1:EA:874:G:H5'	2.35	0.41
3:EC:25:GLY:O	3:EC:28:GLN:HB2	2.21	0.41
1:EA:1298:C:H41	7:EG:114:ARG:CB	2.33	0.41
10:EJ:26:ALA:HB3	10:EJ:85:LEU:HD21	2.01	0.41
1:EA:1309:G:OP1	13:EM:88:ARG:NE	2.54	0.41
14:EN:24:CYS:SG	14:EN:25:VAL:N	2.93	0.41
19:ES:73:GLU:HG2	19:ES:74:PHE:CE1	2.55	0.41
22:FB:2073:A:C2	47:F1:58:LYS:HE3	2.55	0.41
22:FB:2590:U:H3	48:F2:2:ALA:HB2	1.69	0.41
51:F5:41:ILE:HD13	51:F5:41:ILE:O	2.20	0.41
51:F5:59:LYS:O	51:F5:60:LEU:HB2	2.20	0.41
22:FB:1072:U:N3	30:FJ:11:GLN:HA	2.34	0.41
22:FB:1291:G:H5''	35:FO:35:GLN:CA	2.47	0.41
22:FB:1796:A:N3	24:FD:51:SER:OG	2.47	0.41
22:FB:1914:U:H5	22:FB:1951:G:N1	2.19	0.41
22:FB:1993:G:H2'	22:FB:1994:U:C6	2.55	0.41
22:FB:2281:C:C2'	27:FG:129:ASN:ND2	2.82	0.41
22:FB:2359:U:O2'	22:FB:2360:C:H5'	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:FB:2402:U:H1'	22:FB:2404:A:C5	2.54	0.41
22:FB:2528:G:H2'	22:FB:2529:G:H5'	2.02	0.41
22:FB:2432:A:H4'	22:FB:2551:A:O2'	2.20	0.41
22:FB:2576:G:H2'	22:FB:2577:A:H8	1.83	0.41
22:FB:2662:C:N4	22:FB:2707:G:H2'	2.35	0.41
22:FB:2717:G:O6	22:FB:2747:C:N3	2.52	0.41
22:FB:320:A:N7	22:FB:341:A:N7	2.68	0.41
22:FB:228:A:N6	22:FB:399:G:H1	2.05	0.41
22:FB:614:G:H2'	22:FB:615:C:C6	2.54	0.41
22:FB:603:C:C4	22:FB:677:G:C6	3.04	0.41
24:FD:239:ARG:HH22	24:FD:240:THR:C	2.24	0.41
24:FD:31:LYS:HD3	24:FD:33:LEU:N	2.36	0.41
25:FE:103:ASP:HB3	25:FE:168:GLN:CA	2.50	0.41
22:FB:2658:A:HO2'	25:FE:187:ALA:C	2.22	0.41
25:FE:44:TYR:CG	25:FE:82:ARG:HG2	2.54	0.41
32:FL:47:VAL:CG2	32:FL:76:ARG:HD3	2.50	0.41
34:FN:42:TRP:HA	34:FN:94:TRP:CZ2	2.55	0.41
35:FO:100:VAL:HG12	35:FO:109:THR:CG2	2.50	0.41
40:FT:38:VAL:O	40:FT:41:VAL:HG22	2.20	0.41
1:GA:1114:C:H2'	1:GA:1115:C:H6	1.85	0.41
1:GA:1131:G:OP1	9:GI:3:GLN:O	2.38	0.41
1:GA:1203:C:H2'	1:GA:1204:A:O4'	2.20	0.41
1:GA:1316:G:H5'	1:GA:1360:A:C2	2.56	0.41
1:GA:137:C:N3	1:GA:226:G:N1	2.69	0.41
1:GA:342:C:H2'	1:GA:343:U:C6	2.55	0.41
1:GA:623:C:H2'	1:GA:624:C:C6	2.56	0.41
1:GA:870:U:H4'	1:GA:871:U:O5'	2.20	0.41
1:GA:919:A:O2'	1:GA:1080:A:N6	2.47	0.41
1:GA:928:G:O2'	1:GA:929:G:H5'	2.19	0.41
2:GB:149:LEU:HD23	2:GB:153:ARG:HA	2.01	0.41
2:GB:166:ASP:HB3	2:GB:169:LYS:CB	2.49	0.41
3:GC:133:ALA:C	3:GC:136:GLN:HB2	2.41	0.41
4:GD:28:SER:N	4:GD:29:PRO:CD	2.83	0.41
6:GF:52:ILE:HG22	6:GF:53:ALA:N	2.36	0.41
6:GF:80:ARG:HH21	6:GF:87:ARG:HA	1.83	0.41
6:GF:3:ARG:HB3	6:GF:93:SER:O	2.21	0.41
7:GG:146:GLU:N	7:GG:149:ARG:HB2	2.35	0.41
7:GG:68:ASN:HB3	7:GG:135:VAL:CG2	2.50	0.41
8:GH:102:ARG:NE	8:GH:125:ARG:HH22	2.18	0.41
10:GJ:5:ARG:H	10:GJ:100:THR:HA	1.84	0.41
13:GM:49:THR:HG22	13:GM:50:GLU:H	1.86	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:GM:88:ARG:HH21	13:GM:99:ARG:CG	2.31	0.41
1:GA:729:A:N6	15:GO:51:HIS:NE2	2.35	0.41
16:GP:56:ALA:HA	16:GP:59:TRP:CD1	2.56	0.41
17:GQ:81:ARG:CZ	17:GQ:84:LEU:HD12	2.50	0.41
20:GT:23:ARG:NE	20:GT:30:LYS:NZ	2.68	0.41
50:H4:37:LYS:HB3	50:H4:37:LYS:HZ3	1.86	0.41
22:HB:1043:A:OP1	52:H6:8:LYS:CB	2.68	0.41
53:H7:185:ALA:CA	53:H7:189:ALA:HB2	2.48	0.41
53:H7:54:LEU:HD11	53:H7:155:VAL:HG13	2.02	0.41
23:HA:12:C:H2'	23:HA:13:C:H4'	2.01	0.41
22:HB:1010:U:C2	22:HB:1168:G:C2	3.09	0.41
22:HB:1223:G:N2	22:HB:1225:G:N2	2.68	0.41
22:HB:1399:C:H2'	22:HB:1400:A:C8	2.55	0.41
22:HB:1712:G:H3'	22:HB:1712:G:N3	2.35	0.41
22:HB:1829:C:H4'	22:HB:1911:A:O5'	2.20	0.41
22:HB:1888:C:C2	22:HB:1913:G:C2	3.08	0.41
22:HB:3197:U:C6	22:HB:2203:G:O6	2.74	0.41
22:HB:977:G:H21	22:HB:2246:A:H8	1.67	0.41
22:HB:2530:C:H2'	22:HB:2531:U:C6	2.56	0.41
22:HB:2633:A:H61	22:HB:2646:C:H42	1.68	0.41
22:HB:2664:G:H2'	22:HB:2665:G:C8	2.56	0.41
22:HB:36:G:H4'	22:HB:463:C:C5	2.55	0.41
22:HB:1856:U:C2	22:HB:3865:A:C5	3.04	0.41
22:HB:416:U:O4	53:H7:217:ARG:CD	2.68	0.41
22:HB:483:A:O2'	22:HB:484:G:H5'	2.21	0.41
22:HB:71:A:C6	45:HY:58:ALA:CB	2.58	0.41
22:HB:818:G:O6	22:HB:2051:U:H5''	2.20	0.41
22:HB:66:U:C6	22:HB:87:G:C2	3.08	0.41
22:HB:964:A:N1	22:HB:975:C:N3	2.68	0.41
22:HB:984:A:H2'	22:HB:1200:G:N2	2.36	0.41
6:GF:81:ILE:C	24:HD:137:PRO:CB	2.87	0.41
25:HE:61:LYS:HA	25:HE:64:GLN:OE1	2.20	0.41
26:HF:168:SER:CB	26:HF:183:HIS:HE2	2.33	0.41
26:HF:22:VAL:CG1	26:HF:23:ASN:N	2.77	0.41
27:HG:69:LYS:HZ1	27:HG:72:LYS:CA	2.34	0.41
31:HK:65:LYS:C	31:HK:67:ARG:N	2.73	0.41
33:HM:82:ASP:HA	33:HM:118:VAL:CG1	2.51	0.41
34:HN:12:LYS:HZ3	34:HN:13:GLN:N	2.19	0.41
34:HN:63:GLY:CA	43:HW:111:GLY:HA2	2.49	0.41
35:HO:38:LEU:HD13	35:HO:38:LEU:H	1.86	0.41
36:HP:29:LEU:HD22	36:HP:31:VAL:CG2	2.50	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:HQ:68:VAL:HG23	37:HQ:83:PHE:O	2.21	0.41
38:HR:111:ASP:HA	38:HR:114:ARG:CB	2.49	0.41
39:HS:22:VAL:HG13	39:HS:90:PHE:HZ	1.84	0.41
40:HT:101:PRO:O	40:HT:121:THR:HG21	2.21	0.41
41:HU:42:ILE:HD12	41:HU:42:ILE:N	2.33	0.41
42:HV:92:THR:O	42:HV:107:ALA:HA	2.20	0.41
43:HW:25:ASN:HD22	43:HW:25:ASN:N	2.17	0.41
45:HY:25:LEU:HD22	45:HY:25:LEU:HA	1.95	0.41
22:HB:59:G:N3	45:HY:44:ARG:HH22	1.47	0.41
1:IA:1181:G:O2'	1:IA:1184:G:H5'	2.20	0.41
1:IA:1359:C:H2'	1:IA:1361:G:OP2	2.20	0.41
1:IA:17:U:H4'	5:IE:14:ARG:NE	2.36	0.41
1:IA:228:A:H2	16:IP:1:MET:H2	1.45	0.41
1:IA:638:G:O2'	1:IA:639:G:H5'	2.21	0.41
1:IA:737:A:H2'	1:IA:738:C:H5	1.85	0.41
1:IA:845:A:C3'	18:IR:23:LYS:NZ	2.84	0.41
1:IA:928:G:O2'	1:IA:929:G:H5'	2.19	0.41
2:IB:20:GLU:CB	2:IB:190:THR:HB	2.49	0.41
3:IC:35:GLU:HG2	3:IC:36:ASP:N	2.33	0.41
3:IC:59:ARG:CA	3:IC:64:VAL:HG13	2.44	0.41
3:IC:73:PRO:HA	3:IC:105:GLU:CG	2.49	0.41
4:ID:57:ARG:HB3	4:ID:206:PHE:HB2	2.02	0.41
6:IF:3:ARG:HB3	6:IF:93:SER:O	2.21	0.41
7:IG:17:VAL:HG23	9:II:41:VAL:CB	2.50	0.41
8:IH:7:ALA:O	8:IH:11:THR:HG23	2.20	0.41
8:IH:62:TYR:C	8:IH:63:LEU:HD12	2.40	0.41
1:IA:1148:U:H4'	9:II:66:ARG:HE	1.09	0.41
12:IL:67:THR:HB	12:IL:96:VAL:HG22	2.02	0.41
13:IM:15:VAL:HA	13:IM:45:VAL:HG22	2.02	0.41
3:IC:6:HIS:HB3	14:IN:49:HIS:HD2	1.86	0.41
29:JI:26:ARG:CZ	47:J1:68:ARG:HH11	2.17	0.41
22:JB:1628:C:H5'	50:J4:7:PRO:HB3	1.96	0.41
51:J5:3:LYS:HZ3	51:J5:61:MET:HB3	1.86	0.41
53:J7:54:LEU:HD11	53:J7:155:VAL:HG13	2.02	0.41
22:JB:3167:U:N1	53:J7:98:ARG:HA	2.35	0.41
23:JA:99:G:H2'	23:JA:100:G:C8	2.49	0.41
22:JB:1087:C:H2'	22:JB:1088:A:C8	2.54	0.41
22:JB:1111:C:H2'	22:JB:1112:U:O4'	2.21	0.41
22:JB:1369:G:O2'	22:JB:1370:U:H5'	2.20	0.41
22:JB:1399:C:H2'	22:JB:1400:A:C8	2.55	0.41
22:JB:2260:C:C3'	22:JB:2368:G:C2	3.04	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:JB:1040:A:H2	22:JB:2464:G:H21	1.67	0.41
22:JB:3114:A:H2'	22:JB:3115:G:O4'	2.20	0.41
22:JB:456:C:O2'	22:JB:457:C:H5'	2.20	0.41
22:JB:483:A:O2'	22:JB:484:G:H5'	2.21	0.41
22:JB:653:G:O2'	22:JB:654:A:H4'	2.20	0.41
22:JB:964:A:N1	22:JB:975:C:N3	2.68	0.41
22:JB:990:A:H2'	22:JB:993:C:N4	2.35	0.41
24:JD:142:VAL:HG23	24:JD:143:HIS:N	2.25	0.41
25:JE:119:ARG:HB2	25:JE:119:ARG:NH2	2.35	0.41
25:JE:143:GLN:CB	25:JE:144:ARG:HE	2.33	0.41
25:JE:44:TYR:CG	25:JE:82:ARG:HG2	2.54	0.41
26:JF:22:VAL:CG1	26:JF:23:ASN:N	2.77	0.41
27:JG:11:GLN:O	27:JG:14:PRO:HD2	2.19	0.41
31:JK:78:ASP:N	31:JK:147:ARG:HH22	2.19	0.41
31:JK:49:VAL:HG21	31:JK:88:VAL:HA	2.02	0.41
32:JL:123:PHE:CB	32:JL:126:ILE:HB	2.51	0.41
33:JM:114:ILE:HG21	33:JM:135:ALA:C	2.41	0.41
33:JM:142:LEU:HD22	33:JM:142:LEU:N	2.36	0.41
34:JN:46:ASN:HA	34:JN:49:GLU:CB	2.49	0.41
34:JN:61:ARG:CD	43:JW:109:GLN:O	2.68	0.41
35:JO:5:LYS:H	35:JO:5:LYS:HE3	1.85	0.41
38:JR:89:ASP:O	38:JR:90:LEU:HB2	2.20	0.41
22:JB:1173:G:C5'	39:JS:23:GLU:HG3	2.50	0.41
40:JT:101:PRO:O	40:JT:121:THR:HG21	2.21	0.41
41:JU:29:VAL:HG12	41:JU:38:ILE:HD13	2.02	0.41
34:JN:32:ASP:OD1	43:JW:117:VAL:CG2	2.47	0.41
44:JX:45:PHE:N	44:JX:76:ALA:HA	2.34	0.41
1:AA:1014:A:OP2	19:AS:18:LYS:CD	2.63	0.41
1:AA:1048:G:H5'	14:AN:3:ARG:CD	2.45	0.41
1:AA:1216:G:H2'	1:AA:1217:C:C5	2.56	0.41
1:AA:1281:U:O2'	1:AA:1282:C:P	2.78	0.41
1:AA:135:C:H6	1:AA:135:C:O5'	2.04	0.41
1:AA:1378:C:H3'	1:AA:1379:G:C5'	2.51	0.41
1:AA:255:G:O5'	17:AQ:17:LYS:CD	2.69	0.41
1:AA:520:A:P	12:AL:50:SER:O	2.76	0.41
1:AA:570:G:H4'	1:AA:819:A:H2'	2.01	0.41
1:AA:658:G:H5''	15:AO:4:THR:O	2.20	0.41
1:AA:673:G:H2'	1:AA:674:G:C8	2.55	0.41
1:AA:816:A:O3'	1:AA:817:C:H2'	2.19	0.41
1:AA:8:A:O2'	1:AA:9:G:H5'	2.20	0.41
2:AB:32:ILE:HD13	2:AB:40:HIS:HB3	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AC:129:ALA:C	3:AC:133:ALA:HB2	2.41	0.41
5:AE:88:LYS:HZ2	5:AE:124:GLY:HA2	1.86	0.41
7:AG:92:SER:C	7:AG:96:GLN:HE21	2.24	0.41
13:AM:11:ARG:NH2	13:AM:46:LYS:HA	2.35	0.41
1:AA:668:G:O2'	15:AO:45:VAL:HA	2.20	0.41
15:AO:61:GLY:HA3	15:AO:65:ARG:NH1	2.35	0.41
15:AO:88:ARG:CB	22:BB:727:U:C4	3.03	0.41
20:AT:19:SER:HB3	20:AT:22:ARG:HH21	1.84	0.41
47:B1:22:MET:CB	47:B1:29:PRO:HB3	2.49	0.41
49:B3:16:ALA:HB1	49:B3:48:VAL:HG13	2.03	0.41
22:BB:1042:G:H21	52:B6:23:VAL:CB	2.27	0.41
22:BB:1268:U:H5'	22:BB:1269:G:O4'	2.20	0.41
22:BB:1308:C:H2'	22:BB:1309:G:O4'	2.20	0.41
22:BB:1353:A:H5''	22:BB:1407:G:N3	2.36	0.41
22:BB:1675:C:O5'	25:BE:134:TRP:CZ3	2.73	0.41
22:BB:1996:A:H4'	40:BT:117:ILE:CA	2.46	0.41
22:BB:2276:C:H2'	22:BB:2277:A:C8	2.55	0.41
22:BB:2548:G:H2'	22:BB:2549:G:C5'	2.50	0.41
22:BB:2723:C:N1	28:BH:150:LYS:HE2	2.34	0.41
22:BB:494:A:O3'	42:BV:58:VAL:HG12	2.20	0.41
22:BB:614:G:H2'	22:BB:615:C:C6	2.54	0.41
22:BB:730:C:H2'	22:BB:731:A:C5	2.56	0.41
22:BB:796:A:O3'	22:BB:2567:G:H5''	2.21	0.41
22:BB:887:G:H2'	22:BB:888:G:C8	2.55	0.41
22:BB:933:G:O2'	22:BB:934:G:H5'	2.20	0.41
24:BD:133:LEU:O	24:BD:134:ARG:HG2	2.20	0.41
24:BD:239:ARG:HH22	24:BD:240:THR:C	2.24	0.41
24:BD:69:ARG:HH21	24:BD:129:ASN:ND2	2.18	0.41
25:BE:144:ARG:HB2	25:BE:145:LYS:H	1.45	0.41
26:BF:115:GLY:HA3	26:BF:185:ARG:HG3	2.03	0.41
28:BH:18:ASN:ND2	28:BH:18:ASN:N	2.68	0.41
28:BH:27:LYS:HB2	28:BH:27:LYS:NZ	2.36	0.41
1:AA:1470:G:O3'	32:BL:17:ARG:HD2	2.20	0.41
34:BN:27:TYR:CD2	43:BW:74:ARG:N	2.77	0.41
37:BQ:73:PHE:HB3	37:BQ:74:GLY:H	1.64	0.41
32:BL:91:PHE:HE2	37:BQ:76:GLY:CA	2.34	0.41
38:BR:24:PHE:C	38:BR:28:ARG:HH11	2.24	0.41
39:BS:69:ILE:CD1	39:BS:90:PHE:HB3	2.50	0.41
22:BB:1235:C:C2	39:BS:71:ILE:HD13	2.55	0.41
40:BT:58:ARG:HH21	40:BT:65:SER:HB3	1.86	0.41
40:BT:76:LYS:N	40:BT:76:LYS:HD2	2.36	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:BB:1325:U:N1	41:BU:61:LYS:CE	2.60	0.41
43:BW:121:GLN:OE1	43:BW:122:ILE:HG22	2.21	0.41
43:BW:3:LEU:HB3	43:BW:56:VAL:HG13	2.02	0.41
43:BW:67:LYS:HD2	43:BW:84:TYR:N	2.35	0.41
46:BZ:47:VAL:CG1	46:BZ:50:LEU:HD22	2.50	0.41
1:CA:1073:U:O2'	2:CB:107:THR:CB	2.65	0.41
1:CA:111:G:OP1	16:CP:27:LYS:NZ	2.52	0.41
1:CA:1257:U:H4'	1:CA:1258:G:H5'	2.01	0.41
1:CA:1307:U:O2'	13:CM:109:THR:HB	2.20	0.41
1:CA:1367:C:H5'	10:CJ:60:ARG:HH12	1.80	0.41
1:CA:132:C:H5'	1:CA:262:A:C4'	2.50	0.41
1:CA:616:G:O2'	1:CA:617:G:H5'	2.20	0.41
1:CA:625:G:OP1	16:CP:10:GLY:HA3	2.20	0.41
1:CA:697:U:H3	1:CA:798:G:HO2'	1.68	0.41
2:CB:117:GLU:O	2:CB:120:ALA:HB3	2.20	0.41
4:CD:173:TRP:CE3	4:CD:193:ASP:HB3	2.55	0.41
4:CD:87:GLY:O	5:CE:97:GLY:O	2.39	0.41
6:CF:22:GLU:OE2	6:CF:79:LEU:HD22	2.20	0.41
8:CH:64:LYS:C	8:CH:64:LYS:HE2	2.40	0.41
12:CL:16:GLU:C	12:CL:19:ARG:CZ	2.85	0.41
16:CP:56:ALA:HA	16:CP:59:TRP:CD1	2.56	0.41
51:D5:41:ILE:O	51:D5:41:ILE:HD13	2.20	0.41
53:D7:104:ALA:HB2	53:D7:124:LEU:HB3	2.01	0.41
23:DA:12:C:H2'	23:DA:13:C:H4'	2.01	0.41
22:DB:1018:C:P	22:DB:1019:U:H3'	2.60	0.41
22:DB:1166:A:C5	22:DB:1168:G:N7	2.89	0.41
22:DB:586:G:H5''	22:DB:1268:U:C2	2.55	0.41
22:DB:1394:G:C2	22:DB:1588:A:C5	3.09	0.41
22:DB:144:U:H2'	22:DB:145:C:C6	2.55	0.41
22:DB:1591:U:O2'	22:DB:1592:U:H5'	2.20	0.41
22:DB:1815:G:O3'	24:DD:54:ILE:HG13	2.20	0.41
22:DB:1861:G:O6	53:D7:199:ASN:CA	2.69	0.41
22:DB:1914:U:H5	22:DB:1951:G:N1	2.19	0.41
22:DB:2030:U:H2'	22:DB:2031:A:H8	1.86	0.41
22:DB:210:A:N3	22:DB:210:A:H2'	2.36	0.41
22:DB:215:G:O3'	22:DB:617:U:O2'	2.39	0.41
22:DB:2359:U:O2'	22:DB:2360:C:H5'	2.20	0.41
22:DB:2329:C:H41	22:DB:2361:G:H1	1.68	0.41
22:DB:2496:C:H4'	22:DB:2497:A:C2	2.56	0.41
22:DB:2576:G:H2'	22:DB:2577:A:H8	1.83	0.41
22:DB:3196:G:N1	22:DB:2204:A:N6	2.69	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:DB:320:A:N7	22:DB:341:A:N7	2.68	0.41
22:DB:228:A:N6	22:DB:399:G:H1	2.05	0.41
22:DB:482:A:H2'	22:DB:483:A:O4'	2.20	0.41
22:DB:487:G:N2	22:DB:490:A:H1'	2.14	0.41
22:DB:79:G:N3	22:DB:305:A:H2	2.18	0.41
22:DB:927:C:H2'	22:DB:928:G:H8	1.84	0.41
24:DD:141:VAL:HB	24:DD:195:ALA:HA	2.02	0.41
24:DD:69:ARG:HH21	24:DD:129:ASN:ND2	2.19	0.41
22:DB:2598:C:C2	25:DE:154:LYS:NZ	2.55	0.41
25:DE:203:LYS:O	25:DE:204:ALA:HB3	2.20	0.41
22:DB:2614:A:H5'	25:DE:77:ILE:HG13	1.37	0.41
28:DH:162:VAL:O	28:DH:162:VAL:HG13	2.20	0.41
30:DJ:108:ALA:HB1	30:DJ:124:ALA:HB1	2.02	0.41
30:DJ:71:THR:O	30:DJ:74:MET:HB2	2.19	0.41
22:DB:7:G:C1'	31:DK:163:PRO:HD2	2.51	0.41
31:DK:44:VAL:HG12	31:DK:45:ASP:H	1.85	0.41
36:DP:51:LEU:HD12	36:DP:52:ALA:H	1.85	0.41
38:DR:33:ARG:HE	38:DR:34:ASN:ND2	2.18	0.41
38:DR:75:ASN:HB3	38:DR:79:PHE:HD2	1.86	0.41
38:DR:43:ALA:HB2	39:DS:75:LYS:HD3	1.94	0.41
41:DU:65:VAL:HG12	41:DU:66:GLY:N	2.36	0.41
41:DU:80:VAL:HG12	41:DU:81:ARG:N	2.36	0.41
34:DN:98:VAL:HG23	43:DW:73:LYS:NZ	2.30	0.41
44:DX:30:VAL:HG12	44:DX:66:LYS:CE	2.44	0.41
46:DZ:17:VAL:C	46:DZ:19:THR:H	2.24	0.41
1:EA:1035:A:H2'	1:EA:1036:G:N2	2.33	0.41
1:EA:1115:C:OP1	10:EJ:46:ARG:NH2	2.54	0.41
1:EA:1129:C:O2'	1:EA:1130:A:P	2.78	0.41
1:EA:1414:U:H2'	1:EA:1415:G:H8	1.85	0.41
1:EA:1479:C:H2'	1:EA:1480:G:H8	1.83	0.41
1:EA:1484:C:HO2'	22:FB:1944:C:H5'	1.85	0.41
1:EA:538:G:C5'	12:EL:114:LYS:CD	2.96	0.41
1:EA:6:G:O6	5:EE:95:ALA:CA	2.67	0.41
1:EA:768:A:H5''	1:EA:804:U:H5'	2.03	0.41
2:EB:145:LEU:HA	2:EB:148:TYR:CD1	2.55	0.41
2:EB:162:ILE:HG22	2:EB:163:PHE:O	2.20	0.41
1:EA:1100:C:C4	2:EB:98:LEU:CD1	2.96	0.41
3:EC:133:ALA:C	3:EC:136:GLN:HB2	2.41	0.41
3:EC:19:GLU:CG	14:EN:51:GLY:O	2.69	0.41
4:ED:28:SER:N	4:ED:29:PRO:CD	2.83	0.41
4:ED:70:ILE:HG22	4:ED:71:SER:N	2.35	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:EF:52:ILE:HG22	6:EF:53:ALA:N	2.36	0.41
7:EG:15:ASP:CB	7:EG:20:ASP:H	2.32	0.41
7:EG:32:ARG:O	7:EG:33:ASP:HB2	2.20	0.41
7:EG:62:PHE:CD2	7:EG:63:LYS:HG3	2.56	0.41
8:EH:102:ARG:NE	8:EH:125:ARG:HH22	2.18	0.41
8:EH:2:LEU:HB2	8:EH:3:THR:H	1.61	0.41
8:EH:27:PRO:HA	8:EH:58:TYR:HA	2.02	0.41
11:EK:20:TYR:CB	11:EK:31:THR:HB	2.45	0.41
12:EL:67:THR:HB	12:EL:96:VAL:HG22	2.02	0.41
14:EN:4:LYS:HD2	14:EN:4:LYS:N	2.35	0.41
16:EP:51:VAL:HB	16:EP:79:VAL:HG13	2.01	0.41
17:EQ:46:ASP:CG	17:EQ:49:GLU:HA	2.40	0.41
20:ET:23:ARG:NE	20:ET:30:LYS:NZ	2.68	0.41
51:F5:52:LYS:HA	51:F5:54:GLU:OE2	2.21	0.41
51:F5:8:LYS:HB3	51:F5:9:MET:HE2	2.03	0.41
52:F6:17:VAL:CG2	52:F6:24:LEU:HG	2.49	0.41
53:F7:128:LEU:CD1	53:F7:133:LYS:HD2	2.49	0.41
22:FB:1165:G:OP2	38:FR:76:TYR:OH	2.38	0.41
22:FB:1002:C:H5'	22:FB:1199:U:OP1	2.20	0.41
22:FB:1234:C:H5''	39:FS:68:LYS:HD3	2.03	0.41
22:FB:1399:C:O2	22:FB:1484:G:C2	2.73	0.41
22:FB:1400:A:C5	22:FB:1414:G:N1	2.87	0.41
22:FB:1742:G:O4'	22:FB:2835:A:C5	2.72	0.41
22:FB:1795:C:O2'	22:FB:1796:A:H5'	2.20	0.41
22:FB:1955:G:H2'	22:FB:1956:G:H5'	2.02	0.41
22:FB:2048:C:H4'	22:FB:2231:G:H4'	2.03	0.41
22:FB:2264:C:O5'	49:F3:28:ARG:CB	2.68	0.41
22:FB:2627:G:O2'	32:FL:38:GLY:C	2.51	0.41
22:FB:2664:G:H2'	22:FB:2665:G:C8	2.56	0.41
22:FB:2710:C:H4'	25:FE:169:ASN:OD1	2.20	0.41
22:FB:2729:A:OP2	22:FB:2731:G:H5'	2.19	0.41
22:FB:3112:G:H1	22:FB:3169:A:P	2.43	0.41
22:FB:497:C:O2	40:FT:78:ASN:CA	2.67	0.41
22:FB:796:A:O3'	22:FB:2567:G:H5''	2.21	0.41
22:FB:824:U:P	33:FM:33:GLY:HA2	2.59	0.41
22:FB:894:G:H2'	22:FB:895:G:C1'	2.50	0.41
22:FB:895:G:N2	22:FB:907:U:O2	2.53	0.41
22:FB:927:C:H2'	22:FB:928:G:H8	1.84	0.41
22:FB:933:G:O2'	22:FB:934:G:H5'	2.20	0.41
24:FD:133:LEU:O	24:FD:134:ARG:HG2	2.21	0.41
24:FD:218:LYS:HA	24:FD:219:PRO:HD3	1.79	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:FD:69:ARG:HH21	24:FD:129:ASN:ND2	2.18	0.41
25:FE:144:ARG:CZ	25:FE:144:ARG:H	2.33	0.41
25:FE:203:LYS:O	25:FE:204:ALA:HB3	2.21	0.41
25:FE:40:GLN:C	25:FE:42:ASP:H	2.23	0.41
26:FF:150:LEU:HD13	26:FF:158:ARG:HH22	1.84	0.41
26:FF:158:ARG:NH1	26:FF:169:VAL:HG23	2.36	0.41
22:FB:2292:C:C4'	27:FG:87:ILE:HD11	2.44	0.41
28:FH:85:ILE:HD13	28:FH:141:VAL:HA	2.02	0.41
28:FH:27:LYS:NZ	28:FH:27:LYS:HB2	2.36	0.41
30:FJ:108:ALA:HB1	30:FJ:124:ALA:HB1	2.02	0.41
31:FK:78:ASP:N	31:FK:147:ARG:HH22	2.19	0.41
31:FK:83:ILE:HG22	31:FK:84:ASN:N	2.35	0.41
22:FB:2541:U:O3'	32:FL:24:VAL:O	2.37	0.41
32:FL:24:VAL:HG23	32:FL:51:ILE:HD12	2.03	0.41
32:FL:57:ASP:HB2	32:FL:58:ALA:H	1.57	0.41
32:FL:90:ARG:HA	32:FL:90:ARG:HE	1.86	0.41
22:FB:2393:G:H5''	33:FM:65:PHE:HE2	1.07	0.41
34:FN:60:ARG:CD	34:FN:61:ARG:H	2.34	0.41
34:FN:68:ARG:HG3	34:FN:68:ARG:HH11	1.85	0.41
34:FN:91:VAL:O	34:FN:92:GLU:HG3	2.21	0.41
35:FO:38:LEU:HD13	35:FO:38:LEU:H	1.86	0.41
1:EA:1433:A:C1'	37:FQ:116:ARG:HH11	2.33	0.41
25:FE:19:ARG:CG	37:FQ:84:ALA:HB2	2.35	0.41
38:FR:89:ASP:O	38:FR:90:LEU:HB2	2.20	0.41
22:FB:1007:A:C3'	38:FR:92:ARG:HB2	2.50	0.41
40:FT:76:LYS:HD2	40:FT:76:LYS:N	2.35	0.41
41:FU:29:VAL:HG12	41:FU:38:ILE:HD13	2.03	0.41
41:FU:43:GLN:OE1	41:FU:49:ARG:HA	2.19	0.41
1:GA:11:G:H2'	1:GA:12:U:O4'	2.20	0.41
1:GA:1260:C:H4'	1:GA:1284:C:C5'	2.48	0.41
1:GA:1443:G:H2'	1:GA:1445:U:OP1	2.21	0.41
1:GA:16:A:O4'	5:GE:16:THR:C	2.49	0.41
1:GA:540:G:H2'	1:GA:541:G:C8	2.56	0.41
1:GA:737:A:H2'	1:GA:738:C:H5	1.85	0.41
2:GB:147:LYS:HD2	2:GB:147:LYS:N	2.35	0.41
2:GB:155:LEU:HD11	2:GB:159:PRO:HD3	2.01	0.41
2:GB:162:ILE:HG22	2:GB:163:PHE:O	2.20	0.41
3:GC:25:GLY:O	3:GC:28:GLN:HB2	2.21	0.41
7:GG:155:ARG:O	7:GG:156:TRP:HB2	2.21	0.41
8:GH:111:ILE:O	8:GH:134:ILE:HD12	2.21	0.41
10:GJ:94:VAL:HG12	10:GJ:95:GLU:N	2.35	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:GL:68:ALA:HB3	12:GL:100:ILE:HD11	2.01	0.41
14:GN:4:LYS:HD2	14:GN:4:LYS:N	2.35	0.41
16:GP:71:ARG:HH21	16:GP:74:LEU:CB	2.34	0.41
17:GQ:26:GLN:HE21	17:GQ:37:LYS:HB2	1.86	0.41
18:GR:45:SER:C	18:GR:47:THR:H	2.22	0.41
51:H5:3:LYS:O	51:H5:5:LYS:HD2	2.21	0.41
51:H5:3:LYS:NZ	51:H5:5:LYS:HG3	2.36	0.41
53:H7:111:LEU:HD22	53:H7:148:ILE:HA	2.01	0.41
22:HB:1249:G:C6	40:HT:12:LYS:NZ	2.88	0.41
22:HB:1369:G:O2'	22:HB:1370:U:H5'	2.20	0.41
22:HB:1535:C:H5''	22:HB:1536:G:OP2	2.21	0.41
22:HB:1544:A:H2'	22:HB:1545:G:C4'	2.50	0.41
22:HB:1625:A:H2'	22:HB:1632:A:H4'	2.02	0.41
22:HB:1937:G:H2'	22:HB:1937:G:N3	2.34	0.41
22:HB:2276:C:H2'	22:HB:2277:A:C8	2.55	0.41
22:HB:2557:G:H2'	22:HB:2558:C:C6	2.55	0.41
22:HB:2597:G:H2'	22:HB:2598:C:C6	2.56	0.41
22:HB:2845:C:H2'	22:HB:2846:G:H5'	2.02	0.41
22:HB:456:C:O2'	22:HB:457:C:H5'	2.20	0.41
22:HB:552:C:C2	22:HB:553:C:H1'	2.55	0.41
22:HB:5:A:C2	22:HB:2873:G:C2	3.02	0.41
22:HB:71:A:O4'	45:HY:54:ASN:CA	2.55	0.41
22:HB:832:A:H2'	22:HB:833:A:C8	2.51	0.41
22:HB:895:G:N2	22:HB:907:U:O2	2.53	0.41
22:HB:95:G:OP1	45:HY:42:ARG:CB	2.42	0.41
24:HD:239:ARG:HH22	24:HD:240:THR:C	2.24	0.41
25:HE:59:VAL:O	25:HE:63:MET:HG2	2.20	0.41
31:HK:162:LYS:HE2	31:HK:162:LYS:HB2	1.85	0.41
31:HK:44:VAL:HG12	31:HK:45:ASP:H	1.85	0.41
31:HK:83:ILE:HG22	31:HK:84:ASN:H	1.85	0.41
32:HL:123:PHE:CB	32:HL:126:ILE:HB	2.50	0.41
32:HL:132:GLU:CD	37:HQ:75:GLU:OE2	2.53	0.41
32:HL:47:VAL:CG2	32:HL:76:ARG:HD3	2.50	0.41
32:HL:83:ARG:CD	37:HQ:83:PHE:CE2	3.03	0.41
34:HN:42:TRP:HA	34:HN:94:TRP:CZ2	2.55	0.41
35:HO:18:VAL:HG23	35:HO:22:ARG:NH2	2.36	0.41
22:HB:2272:A:H5'	36:HP:12:ARG:CZ	2.50	0.41
37:HQ:56:ALA:H	37:HQ:71:ILE:HG12	1.85	0.41
38:HR:109:LEU:HD22	38:HR:109:LEU:HA	1.97	0.41
38:HR:94:VAL:CB	39:HS:10:LYS:HE2	2.48	0.41
42:HV:36:VAL:CG1	42:HV:37:LEU:H	2.31	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:IA:16:A:O2'	5:IE:16:THR:CB	2.58	0.41
1:IA:237:C:H2'	1:IA:238:G:C8	2.56	0.41
1:IA:363:A:O2'	1:IA:364:A:H5'	2.20	0.41
1:IA:401:C:O2'	1:IA:621:A:H2	1.83	0.41
1:IA:413:G:H21	1:IA:428:G:N2	2.11	0.41
1:IA:452:A:OP2	16:IP:43:LYS:CD	2.57	0.41
1:IA:771:G:H2'	1:IA:772:U:C6	2.56	0.41
1:IA:870:U:H4'	1:IA:871:U:O5'	2.21	0.41
1:IA:877:C:O3'	8:IH:88:LYS:HD3	2.20	0.41
1:IA:958:A:O4'	19:IS:55:LYS:CD	2.68	0.41
2:IB:112:VAL:HG12	2:IB:112:VAL:O	2.21	0.41
4:ID:18:LYS:HG2	4:ID:19:LEU:N	2.36	0.41
4:ID:70:ILE:HG22	4:ID:71:SER:N	2.35	0.41
5:IE:72:GLN:HE22	5:IE:77:PRO:HB3	1.86	0.41
7:IG:116:ALA:HA	7:IG:119:ARG:NH1	2.35	0.41
10:IJ:79:ARG:HH22	10:IJ:83:GLU:CD	2.24	0.41
1:IA:694:A:O5'	11:IK:53:SER:HB2	2.21	0.41
12:IL:45:PRO:HA	12:IL:93:LEU:HG	2.03	0.41
1:IA:954:G:O4'	13:IM:123:ALA:C	2.58	0.41
15:IO:61:GLY:HA3	15:IO:65:ARG:NH1	2.35	0.41
49:J3:22:TYR:C	49:J3:24:THR:N	2.74	0.41
22:JB:471:A:P	50:J4:46:ASP:O	2.75	0.41
53:J7:104:ALA:HB2	53:J7:124:LEU:HB3	2.02	0.41
22:JB:984:A:H5'	22:JB:1202:U:H1'	2.03	0.41
22:JB:1544:A:H2'	22:JB:1545:G:C4'	2.50	0.41
22:JB:1702:C:H2'	22:JB:1703:C:C6	2.55	0.41
22:JB:1940:C:O2'	22:JB:1941:C:H5'	2.20	0.41
22:JB:1955:G:H2'	22:JB:1956:G:H5'	2.02	0.41
22:JB:2048:C:H4'	22:JB:2231:G:H4'	2.03	0.41
22:JB:220:U:O2'	33:JM:69:GLY:N	2.54	0.41
22:JB:977:G:H21	22:JB:2246:A:H8	1.67	0.41
22:JB:2466:G:H2'	22:JB:2467:A:C8	2.55	0.41
22:JB:2637:C:C6	28:JH:180:GLY:N	2.79	0.41
22:JB:338:G:H1'	42:JV:10:HIS:CA	2.51	0.41
22:JB:465:C:O2	50:J4:39:ARG:CZ	2.68	0.41
22:JB:716:U:H3'	22:JB:717:G:P	2.60	0.41
22:JB:832:A:H2'	22:JB:833:A:C8	2.51	0.41
22:JB:838:A:H4'	22:JB:2407:G:C5	2.55	0.41
22:JB:1710:U:HO2'	24:JD:15:GLN:CD	2.23	0.41
24:JD:239:ARG:HH22	24:JD:240:THR:C	2.24	0.41
26:JF:133:PHE:O	26:JF:136:TRP:HB3	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:JG:31:ILE:HG12	27:JG:96:MET:CE	2.51	0.41
28:JH:85:ILE:HD13	28:JH:141:VAL:HA	2.02	0.41
36:JP:51:LEU:HD12	36:JP:52:ALA:H	1.85	0.41
39:JS:40:VAL:HG13	39:JS:51:ALA:CB	2.47	0.41
22:JB:489:A:C5'	42:JV:75:ALA:CB	2.64	0.41
43:JW:43:PHE:HB2	43:JW:69:VAL:CG2	2.49	0.41
43:JW:3:LEU:HB3	43:JW:4:THR:H	1.70	0.41
43:JW:3:LEU:HB3	43:JW:56:VAL:HG13	2.03	0.41
45:JY:55:THR:O	45:JY:56:VAL:CG2	2.69	0.41
1:AA:1181:G:O2'	1:AA:1184:G:H5'	2.20	0.41
1:AA:1372:U:O2'	1:AA:1373:G:H5'	2.21	0.41
1:AA:137:C:N3	1:AA:226:G:N1	2.69	0.41
1:AA:237:C:H2'	1:AA:238:G:C8	2.55	0.41
1:AA:429:U:C1'	1:AA:430:A:H5''	2.47	0.41
1:AA:545:C:H2'	1:AA:546:G:C8	2.54	0.41
1:AA:616:G:O2'	1:AA:617:G:H5'	2.20	0.41
1:AA:861:G:N3	1:AA:874:G:H5'	2.35	0.41
1:AA:928:G:O2'	1:AA:929:G:H5'	2.19	0.41
2:AB:112:VAL:HG12	2:AB:112:VAL:O	2.21	0.41
2:AB:124:SER:HB2	2:AB:125:PRO:HD2	2.02	0.41
1:AA:438:G:O3'	4:AD:123:HIS:ND1	2.53	0.41
1:AA:509:A:C4'	4:AD:54:TYR:HD2	2.25	0.41
4:AD:70:ILE:HG22	4:AD:71:SER:N	2.35	0.41
6:AF:2:ARG:O	6:AF:66:GLU:HG3	2.20	0.41
13:AM:88:ARG:CG	13:AM:91:ARG:CG	2.98	0.41
18:AR:38:GLU:OE1	18:AR:42:ARG:HB2	2.21	0.41
18:AR:74:ARG:HA	18:AR:79:LEU:O	2.20	0.41
19:AS:22:LEU:HD22	19:AS:28:LYS:O	2.19	0.41
51:B5:59:LYS:O	51:B5:60:LEU:HB2	2.21	0.41
53:B7:117:MSE:O	53:B7:121:GLY:HA3	2.21	0.41
53:B7:13:LYS:HZ1	53:B7:177:GLU:HA	1.85	0.41
53:B7:54:LEU:HD11	53:B7:155:VAL:HG13	2.02	0.41
23:BA:90:C:O2'	23:BA:91:A:H5'	2.20	0.41
23:BA:95:U:OP1	43:BW:14:LEU:HD11	2.12	0.41
22:BB:1336:G:H4'	40:BT:105:ARG:CD	2.51	0.41
22:BB:1450:G:N3	22:BB:1493:A:H2	2.19	0.41
22:BB:1566:G:C3'	22:BB:1567:A:P	3.08	0.41
22:BB:1789:U:H5''	24:BD:257:LEU:CG	2.50	0.41
22:BB:1827:G:O6	22:BB:1952:A:H5''	2.21	0.41
22:BB:1827:G:H1	22:BB:1913:G:N2	2.19	0.41
22:BB:1940:C:O2'	22:BB:1941:C:H5'	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:BB:2059:U:H2'	22:BB:2060:A:C5'	2.49	0.41
22:BB:2290:A:H2'	22:BB:2290:A:N3	2.35	0.41
22:BB:2372:A:C2'	33:BM:60:LEU:N	2.53	0.41
22:BB:579:G:N2	22:BB:2477:C:H4'	2.35	0.41
22:BB:2814:G:H21	35:BO:91:PRO:CA	2.33	0.41
22:BB:352:G:H2'	22:BB:353:G:O4'	2.20	0.41
22:BB:413:G:O6	47:B1:63:PHE:CE1	2.69	0.41
22:BB:458:G:H4'	22:BB:461:A:H1'	2.02	0.41
22:BB:648:A:C2	33:BM:109:LEU:HD12	2.53	0.41
22:BB:687:G:O4'	26:BF:68:ARG:HD2	2.20	0.41
22:BB:57:G:H3'	22:BB:72:A:N6	2.36	0.41
22:BB:742:G:H5''	24:BD:18:THR:CG2	2.50	0.41
22:BB:686:C:N4	22:BB:821:A:H61	2.18	0.41
22:BB:1808:C:H3'	24:BD:63:ARG:HD3	2.02	0.41
25:BE:119:ARG:HG2	25:BE:155:ARG:CG	2.50	0.41
25:BE:7:THR:HB	25:BE:8:LYS:H	1.63	0.41
26:BF:108:ILE:HA	26:BF:111:ARG:HB3	2.03	0.41
27:BG:12:VAL:HB	27:BG:169:LEU:HD21	2.02	0.41
27:BG:74:ILE:HG22	27:BG:76:ASN:N	2.31	0.41
22:BB:1140:A:H3'	31:BK:107:GLN:HG2	1.98	0.41
31:BK:45:ASP:HB3	31:BK:47:SER:OG	2.21	0.41
34:BN:98:VAL:HG13	34:BN:100:PRO:HD3	2.02	0.41
35:BO:38:LEU:HD13	35:BO:38:LEU:H	1.86	0.41
39:BS:52:GLY:C	39:BS:54:TYR:H	2.24	0.41
39:BS:22:VAL:HG13	39:BS:90:PHE:HZ	1.84	0.41
41:BU:4:TYR:CE1	45:BY:22:LYS:O	2.72	0.41
34:BN:65:ILE:HA	43:BW:115:ILE:CG2	2.50	0.41
46:BZ:17:VAL:C	46:BZ:19:THR:H	2.24	0.41
1:CA:1129:C:O2'	1:CA:1130:A:P	2.78	0.41
1:CA:1181:G:O2'	1:CA:1184:G:H5'	2.20	0.41
1:CA:1281:U:O2'	1:CA:1282:C:P	2.78	0.41
1:CA:51:A:H4'	1:CA:52:G:OP2	2.20	0.41
1:CA:615:C:H2'	1:CA:616:G:H8	1.83	0.41
1:CA:668:G:H1	1:CA:738:C:H42	1.69	0.41
1:CA:673:G:H2'	1:CA:674:G:C8	2.55	0.41
1:CA:713:G:H2'	1:CA:714:G:N9	2.36	0.41
1:CA:734:G:O2'	18:CR:71:LYS:NZ	2.34	0.41
1:CA:768:A:H5''	1:CA:804:U:H5'	2.03	0.41
1:CA:92:G:H2'	1:CA:93:U:C6	2.55	0.41
2:CB:132:LYS:C	2:CB:134:GLU:H	2.23	0.41
3:CC:133:ALA:C	3:CC:136:GLN:HB2	2.41	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CC:16:ARG:O	3:CC:17:ASP:C	2.59	0.41
3:CC:152:ILE:HB	3:CC:199:LYS:HB2	2.02	0.41
3:CC:35:GLU:HG2	3:CC:36:ASP:N	2.33	0.41
3:CC:73:PRO:HA	3:CC:105:GLU:CG	2.49	0.41
5:CE:129:ILE:HG22	5:CE:133:TYR:OH	2.20	0.41
6:CF:3:ARG:HB3	6:CF:93:SER:O	2.21	0.41
10:CJ:96:ILE:HG13	10:CJ:96:ILE:H	1.60	0.41
12:CL:77:LEU:HD21	12:CL:107:ALA:HA	2.03	0.41
12:CL:45:PRO:HA	12:CL:93:LEU:HG	2.02	0.41
13:CM:110:ARG:HG2	13:CM:110:ARG:NH1	2.35	0.41
13:CM:11:ARG:NH2	13:CM:46:LYS:HA	2.35	0.41
13:CM:88:ARG:N	13:CM:98:VAL:HG13	2.25	0.41
16:CP:51:VAL:HB	16:CP:79:VAL:HG13	2.02	0.41
1:CA:276:G:C4'	17:CQ:18:THR:CG2	2.94	0.41
17:CQ:43:LEU:HB3	17:CQ:69:LYS:HZ1	1.81	0.41
49:D3:16:ALA:HB1	49:D3:48:VAL:HG13	2.03	0.41
52:D6:25:VAL:O	52:D6:25:VAL:HG13	2.20	0.41
53:D7:54:LEU:HD11	53:D7:155:VAL:HG13	2.03	0.41
22:DB:1118:G:O2'	22:DB:1119:U:H5'	2.21	0.41
22:DB:162:C:O2'	22:DB:163:A:H5'	2.20	0.41
22:DB:1887:G:N1	22:DB:1888:C:H1'	2.25	0.41
22:DB:1933:G:H2'	22:DB:1934:U:C5	2.56	0.41
22:DB:1934:U:H2'	22:DB:1935:A:H8	1.86	0.41
22:DB:2528:G:H2'	22:DB:2529:G:H5'	2.02	0.41
22:DB:25:U:H4'	40:DT:100:GLY:C	2.40	0.41
22:DB:2618:A:C3'	31:DK:125:ARG:NH1	2.80	0.41
22:DB:2795:A:N6	25:DE:8:LYS:HE3	2.36	0.41
22:DB:3115:G:O6	22:DB:3117:A:H2'	2.19	0.41
22:DB:352:G:H2'	22:DB:353:G:O4'	2.20	0.41
22:DB:3868:U:H2'	22:DB:3869:G:O4'	2.20	0.41
22:DB:4:C:N3	22:DB:2874:A:N6	2.67	0.41
22:DB:614:G:H2'	22:DB:615:C:C6	2.54	0.41
22:DB:67:G:H2'	22:DB:68:C:O4'	2.20	0.41
22:DB:811:G:OP2	26:DF:56:ARG:HD2	2.21	0.41
22:DB:966:A:H4'	34:DN:87:GLY:CA	2.51	0.41
24:DD:63:ARG:NH2	24:DD:157:ARG:HH11	2.18	0.41
22:DB:2056:C:C5'	24:DD:228:PRO:O	2.62	0.41
25:DE:98:GLU:CD	25:DE:175:ILE:HG13	2.41	0.41
25:DE:77:ILE:O	25:DE:78:LEU:HB2	2.21	0.41
26:DF:115:GLY:HA3	26:DF:185:ARG:HG3	2.03	0.41
28:DH:148:VAL:C	28:DH:149:ARG:HD2	2.41	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:DL:76:ARG:HH21	32:DL:90:ARG:CZ	2.32	0.41
34:DN:98:VAL:HG13	34:DN:100:PRO:HD3	2.02	0.41
35:DO:100:VAL:HG12	35:DO:109:THR:CG2	2.50	0.41
35:DO:20:LEU:C	35:DO:22:ARG:H	2.24	0.41
40:DT:55:ASP:CA	40:DT:58:ARG:HB3	2.50	0.41
22:DB:338:G:C5'	42:DV:9:HIS:CD2	3.00	0.41
43:DW:64:ALA:HB1	43:DW:84:TYR:O	2.21	0.41
45:DY:41:HIS:O	45:DY:42:ARG:HB2	2.20	0.41
46:DZ:9:VAL:HB	46:DZ:10:ILE:HD12	2.03	0.41
1:EA:1081:G:H5''	5:EE:18:ARG:CG	2.47	0.41
1:EA:1216:G:H2'	1:EA:1217:C:C5	2.56	0.41
1:EA:333:G:H2'	1:EA:334:C:C6	2.55	0.41
1:EA:366:C:H42	1:EA:394:G:H21	1.67	0.41
1:EA:546:G:P	4:ED:71:SER:CB	2.91	0.41
1:EA:570:G:H4'	1:EA:819:A:H2'	2.01	0.41
1:EA:616:G:O2'	1:EA:617:G:H5'	2.20	0.41
1:EA:667:G:H4'	15:EO:51:HIS:CE1	2.44	0.41
1:EA:673:G:H2'	1:EA:674:G:C8	2.55	0.41
1:EA:859:A:H2'	1:EA:860:A:H5'	2.03	0.41
1:EA:896:C:H2'	1:EA:897:C:C6	2.56	0.41
1:EA:1074:G:H4'	2:EB:104:ASN:HA	2.02	0.41
2:EB:104:ASN:HB3	2:EB:108:ILE:HD12	2.01	0.41
9:EI:26:VAL:CG2	9:EI:61:ALA:H	2.32	0.41
9:EI:97:LYS:N	9:EI:98:PRO:CD	2.84	0.41
1:EA:706:A:C1'	11:EK:29:ILE:HD13	2.48	0.41
11:EK:50:TYR:O	11:EK:55:LYS:HE3	2.20	0.41
13:EM:15:VAL:HG22	13:EM:45:VAL:HA	2.02	0.41
14:EN:48:ALA:O	14:EN:53:LEU:HD21	2.21	0.41
1:EA:667:G:C4'	15:EO:51:HIS:CG	3.03	0.41
1:EA:673:G:H1'	18:ER:75:ILE:HG12	2.03	0.41
48:F2:45:ILE:HG12	48:F2:52:TYR:N	2.36	0.41
22:FB:1069:G:OP2	30:FJ:9:LYS:CE	2.52	0.41
22:FB:586:G:H5''	22:FB:1268:U:C2	2.55	0.41
22:FB:1308:C:P	35:FO:71:HIS:HD2	2.41	0.41
22:FB:1351:G:OP1	41:FU:13:SER:HB2	2.20	0.41
22:FB:162:C:O2'	22:FB:163:A:H5'	2.20	0.41
22:FB:1934:U:H2'	22:FB:1935:A:H8	1.86	0.41
22:FB:2215:C:H2'	22:FB:2216:G:O4'	2.21	0.41
22:FB:222:G:OP2	51:F5:7:HIS:HB2	2.13	0.41
22:FB:2290:A:N3	22:FB:2290:A:H2'	2.35	0.41
22:FB:2496:C:H4'	22:FB:2497:A:C2	2.56	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:FB:2727:G:H1	22:FB:2735:C:H5''	1.86	0.41
22:FB:3093:C:H5''	29:FI:20:VAL:C	2.39	0.41
22:FB:3114:A:H2'	22:FB:3115:G:O4'	2.21	0.41
22:FB:597:U:OP1	33:FM:28:LYS:CD	2.62	0.41
22:FB:643:A:C2	22:FB:2382:C:H4'	2.56	0.41
22:FB:744:C:H2'	22:FB:745:C:C6	2.55	0.41
22:FB:794:A:H1'	22:FB:1767:G:H21	1.86	0.41
22:FB:60:A:N1	22:FB:92:U:O4	2.52	0.41
22:FB:984:A:H5'	22:FB:1202:U:H1'	2.03	0.41
24:FD:183:ARG:NH2	24:FD:185:VAL:HG22	2.36	0.41
22:FB:2798:A:OP1	25:FE:112:GLY:CA	2.69	0.41
25:FE:7:THR:HB	25:FE:8:LYS:H	1.63	0.41
26:FF:133:PHE:O	26:FF:136:TRP:HB3	2.20	0.41
27:FG:30:ARG:H	27:FG:30:ARG:HE	1.60	0.41
27:FG:72:LYS:HD2	27:FG:80:ARG:CA	2.47	0.41
27:FG:87:ILE:HB	27:FG:88:LYS:H	1.37	0.41
28:FH:148:VAL:C	28:FH:149:ARG:HD2	2.41	0.41
32:FL:2:ILE:CB	32:FL:44:TYR:HB2	2.51	0.41
33:FM:142:LEU:HD22	33:FM:142:LEU:N	2.36	0.41
22:FB:2462:C:C2'	34:FN:50:ALA:HB1	2.47	0.41
36:FP:11:LEU:HD12	36:FP:12:ARG:CD	2.50	0.41
36:FP:29:LEU:HD22	36:FP:31:VAL:CG2	2.50	0.41
37:FQ:67:THR:CB	37:FQ:82:PRO:HB3	2.49	0.41
37:FQ:67:THR:CA	37:FQ:82:PRO:HB3	2.50	0.41
22:FB:544:U:P	38:FR:22:LYS:CE	2.92	0.41
38:FR:24:PHE:C	38:FR:28:ARG:HH11	2.24	0.41
41:FU:65:VAL:HG12	41:FU:66:GLY:N	2.36	0.41
41:FU:91:LEU:HB3	41:FU:92:ALA:H	1.73	0.41
22:FB:348:U:C4'	42:FV:13:LYS:CG	2.98	0.41
43:FW:16:GLU:HB3	43:FW:17:SER:H	1.63	0.41
43:FW:25:ASN:N	43:FW:25:ASN:HD22	2.17	0.41
36:FP:22:ALA:CA	44:FX:44:LYS:HE3	2.45	0.41
44:FX:80:SER:CB	44:FX:83:ALA:HB3	2.51	0.41
45:FY:41:HIS:O	45:FY:42:ARG:HB2	2.20	0.41
1:GA:1378:C:H3'	1:GA:1379:G:C5'	2.51	0.41
1:GA:333:G:H2'	1:GA:334:C:C6	2.55	0.41
1:GA:366:C:H42	1:GA:394:G:H21	1.67	0.41
1:GA:390:C:H2'	1:GA:391:G:H8	1.85	0.41
1:GA:676:A:H4'	11:GK:115:PRO:CG	2.51	0.41
1:GA:688:G:H2'	1:GA:689:C:C6	2.55	0.41
2:GB:112:VAL:HG12	2:GB:112:VAL:O	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:GG:120:ILE:HG22	7:GG:124:LEU:HD11	2.02	0.41
9:GI:70:LYS:HA	9:GI:73:GLN:OE1	2.20	0.41
10:GJ:51:ARG:CG	14:GN:45:ARG:HH11	2.02	0.41
15:GO:38:ARG:O	15:GO:41:GLU:HB3	2.21	0.41
17:GQ:9:VAL:HG22	17:GQ:56:VAL:HG22	2.01	0.41
18:GR:38:GLU:OE1	18:GR:42:ARG:HB2	2.21	0.41
19:GS:6:LYS:HB3	19:GS:7:LYS:NZ	2.35	0.41
48:H2:45:ILE:HG12	48:H2:52:TYR:N	2.36	0.41
49:H3:16:ALA:HB1	49:H3:48:VAL:HG13	2.03	0.41
53:H7:46:LEU:HG	53:H7:47:LYS:H	1.84	0.41
23:HA:92:G:H3'	23:HA:93:G:C8	2.55	0.41
22:HB:1111:C:H2'	22:HB:1112:U:O4'	2.21	0.41
22:HB:1491:C:C2	22:HB:1533:G:C6	3.09	0.41
22:HB:162:C:O2'	22:HB:163:A:H5'	2.21	0.41
22:HB:1955:G:H2'	22:HB:1956:G:H5'	2.02	0.41
22:HB:2286:G:H2'	22:HB:2286:G:N3	2.36	0.41
22:HB:644:A:C2'	22:HB:2383:C:OP1	2.67	0.41
22:HB:2457:A:O4'	22:HB:2507:U:H4'	2.20	0.41
22:HB:2528:G:H2'	22:HB:2529:G:H5'	2.02	0.41
22:HB:2543:A:C4	22:HB:2626:U:H4'	2.56	0.41
22:HB:1749:G:N1	22:HB:2674:C:H4'	2.35	0.41
22:HB:312:G:H5''	22:HB:345:U:C2	2.56	0.41
22:HB:340:G:H21	22:HB:488:A:N6	2.14	0.41
22:HB:514:G:H1	40:HT:14:ARG:CG	1.97	0.41
22:HB:65:C:C2	22:HB:87:G:C2	3.09	0.41
22:HB:933:G:O2'	22:HB:934:G:H5'	2.20	0.41
24:HD:173:VAL:HG12	24:HD:184:ARG:HB3	2.03	0.41
24:HD:261:ARG:HG3	24:HD:262:LYS:H	1.85	0.41
24:HD:28:ARG:HD2	24:HD:84:TYR:CE2	2.55	0.41
25:HE:52:ALA:HB3	37:HQ:5:ILE:CD1	2.50	0.41
26:HF:15:ILE:CG2	26:HF:16:GLU:N	2.79	0.41
27:HG:12:VAL:HB	27:HG:169:LEU:HD21	2.03	0.41
27:HG:31:ILE:HG12	27:HG:96:MET:CE	2.51	0.41
28:HH:35:VAL:O	28:HH:36:PRO:O	2.38	0.41
28:HH:45:GLN:HG2	28:HH:47:GLY:H	1.86	0.41
31:HK:43:VAL:HG23	31:HK:166:LEU:H	1.86	0.41
36:HP:19:THR:O	36:HP:23:ALA:HB3	2.19	0.41
36:HP:51:LEU:HD12	36:HP:52:ALA:H	1.85	0.41
32:HL:85:ASP:OD1	37:HQ:87:LEU:HD22	2.19	0.41
39:HS:69:ILE:CD1	39:HS:90:PHE:HB3	2.50	0.41
34:HN:65:ILE:HG22	43:HW:115:ILE:HD11	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:HB:934:G:C4'	44:HX:23:VAL:CG2	2.87	0.41
22:HB:863:C:O2'	46:HZ:43:MET:CE	2.69	0.41
1:IA:1216:G:H2'	1:IA:1217:C:C5	2.56	0.41
1:IA:1316:G:H5'	1:IA:1360:A:C2	2.56	0.41
1:IA:201:G:H2'	1:IA:202:G:C8	2.55	0.41
1:IA:673:G:H2'	1:IA:674:G:C8	2.55	0.41
1:IA:896:C:H2'	1:IA:897:C:C6	2.56	0.41
1:IA:8:A:O2'	1:IA:9:G:H5'	2.20	0.41
2:IB:162:ILE:HG22	2:IB:163:PHE:O	2.20	0.41
2:IB:186:ALA:O	2:IB:201:ILE:HB	2.21	0.41
8:IH:111:ILE:O	8:IH:134:ILE:HD12	2.21	0.41
9:II:27:THR:HG23	9:II:32:ASP:H	1.86	0.41
14:IN:24:CYS:SG	14:IN:25:VAL:N	2.94	0.41
15:IO:16:ALA:HA	15:IO:26:GLU:CB	2.51	0.41
19:IS:49:ILE:HG22	19:IS:50:ALA:N	2.36	0.41
51:J5:59:LYS:O	51:J5:60:LEU:HB2	2.20	0.41
51:J5:8:LYS:C	51:J5:10:ALA:H	2.23	0.41
53:J7:128:LEU:HD13	53:J7:133:LYS:HD2	2.02	0.41
22:JB:3121:G:N3	53:J7:160:LYS:HE2	2.35	0.41
22:JB:1005:U:C2	22:JB:1171:A:N1	2.89	0.41
22:JB:1029:C:H5''	22:JB:1046:U:HO2'	1.85	0.41
22:JB:1145:C:C2	22:JB:1147:G:OP2	2.74	0.41
22:JB:1265:G:C8	38:JR:14:HIS:NE2	2.83	0.41
22:JB:2269:G:OP1	22:JB:2363:G:H4'	2.20	0.41
22:JB:423:G:H2'	22:JB:2386:G:N7	2.36	0.41
22:JB:2528:G:H2'	22:JB:2529:G:H5'	2.02	0.41
22:JB:2557:G:H2'	22:JB:2558:C:C6	2.55	0.41
22:JB:2727:G:H1	22:JB:2735:C:H5''	1.85	0.41
22:JB:3170:A:C1'	53:J7:128:LEU:HA	2.51	0.41
22:JB:36:G:H4'	22:JB:463:C:C5	2.55	0.41
22:JB:552:C:C2	22:JB:553:C:H1'	2.56	0.41
22:JB:609:U:C4'	26:JF:26:VAL:CG1	2.95	0.41
22:JB:61:U:O2	22:JB:89:A:N1	2.53	0.41
22:JB:730:C:H2'	22:JB:731:A:C5	2.56	0.41
22:JB:861:G:H2'	22:JB:862:A:C8	2.55	0.41
22:JB:869:C:C5'	44:JX:57:HIS:CA	2.82	0.41
22:JB:933:G:O2'	22:JB:934:G:H5'	2.20	0.41
24:JD:173:VAL:HG12	24:JD:184:ARG:HB3	2.03	0.41
24:JD:183:ARG:NH2	24:JD:185:VAL:HG22	2.36	0.41
24:JD:28:ARG:HD2	24:JD:84:TYR:CE2	2.55	0.41
25:JE:104:ALA:HB1	25:JE:196:VAL:HG11	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:JE:144:ARG:HH21	25:JE:145:LYS:C	2.23	0.41
22:JB:2751:C:C5'	25:JE:202:ALA:HB1	2.50	0.41
26:JF:115:GLY:HA3	26:JF:185:ARG:HG3	2.03	0.41
26:JF:158:ARG:NH1	26:JF:169:VAL:HG23	2.36	0.41
22:JB:456:C:OP2	26:JF:42:THR:CG2	2.69	0.41
22:JB:673:G:P	26:JF:92:ASP:O	2.70	0.41
27:JG:108:LEU:N	27:JG:109:PRO:CD	2.84	0.41
27:JG:122:PHE:CG	27:JG:123:ASP:N	2.89	0.41
27:JG:86:GLY:C	27:JG:87:ILE:HG13	2.34	0.41
30:JJ:52:ILE:HG23	30:JJ:53:ILE:N	2.31	0.41
31:JK:141:GLY:C	31:JK:143:ALA:H	2.22	0.41
31:JK:45:ASP:HB3	31:JK:47:SER:OG	2.21	0.41
32:JL:77:THR:OG1	32:JL:78:SER:N	2.48	0.41
33:JM:72:TYR:CE2	51:J5:64:ARG:CG	3.03	0.41
34:JN:12:LYS:HB3	34:JN:13:GLN:H	1.60	0.41
22:JB:969:U:C2	34:JN:20:GLY:HA2	2.56	0.41
35:JO:100:VAL:HG12	35:JO:109:THR:CG2	2.50	0.41
35:JO:18:VAL:HG23	35:JO:22:ARG:NH2	2.36	0.41
22:JB:1308:C:H5'	35:JO:23:ALA:HB2	2.02	0.41
1:IA:1463:C:P	37:JQ:116:ARG:HD3	2.61	0.41
42:JV:99:VAL:CG1	42:JV:100:ASP:H	2.33	0.41
43:JW:49:THR:OG1	43:JW:95:SER:OG	2.27	0.41
44:JX:31:VAL:HG12	44:JX:32:LYS:CG	2.50	0.41
1:AA:1257:U:H4'	1:AA:1258:G:H5'	2.02	0.41
1:AA:1342:C:H2'	1:AA:1343:G:C8	2.55	0.41
1:AA:1349:A:H5''	9:AI:121:ARG:HB2	2.03	0.41
1:AA:1372:U:H5''	9:AI:71:SER:HB2	1.96	0.41
1:AA:1426:C:H2'	1:AA:1427:U:O4'	2.21	0.41
1:AA:356:A:O2'	1:AA:368:U:H4'	2.20	0.41
1:AA:437:U:OP1	4:AD:155:LEU:CD1	2.69	0.41
1:AA:43:C:O3'	16:AP:12:LYS:HB2	2.20	0.41
1:AA:623:C:H2'	1:AA:624:C:C6	2.56	0.41
1:AA:889:A:H4'	1:AA:890:G:H4'	2.02	0.41
1:AA:22:G:N2	1:AA:913:A:C2	2.83	0.41
1:AA:1102:A:C3'	2:AB:98:LEU:HD22	2.34	0.41
3:AC:16:ARG:O	3:AC:17:ASP:C	2.59	0.41
5:AE:72:GLN:CD	5:AE:77:PRO:HD3	2.41	0.41
7:AG:16:LEU:HD22	7:AG:16:LEU:N	2.36	0.41
7:AG:32:ARG:O	7:AG:33:ASP:HB2	2.20	0.41
7:AG:52:GLU:O	7:AG:53:LYS:C	2.58	0.41
9:AI:40:LEU:O	9:AI:41:VAL:C	2.59	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:AJ:94:VAL:HG12	10:AJ:95:GLU:N	2.35	0.41
10:AJ:47:PHE:CE2	14:AN:37:PHE:CZ	3.08	0.41
1:AA:378:G:H5''	16:AP:25:ARG:HD3	2.03	0.41
17:AQ:26:GLN:HE21	17:AQ:37:LYS:HB2	1.85	0.41
18:AR:44:LEU:HD23	18:AR:45:SER:O	2.21	0.41
22:BB:176:A:C3'	47:B1:31:ILE:CG2	2.82	0.41
48:B2:6:VAL:CB	48:B2:7:PRO:HD2	2.51	0.41
49:B3:11:LYS:N	49:B3:11:LYS:HD3	2.35	0.41
49:B3:45:LYS:N	49:B3:45:LYS:HD2	2.35	0.41
51:B5:36:LYS:HE2	51:B5:36:LYS:H	1.85	0.41
53:B7:128:LEU:HD13	53:B7:133:LYS:HD2	2.02	0.41
23:BA:12:C:H2'	23:BA:13:C:H4'	2.02	0.41
22:BB:1140:A:H5'	22:BB:1142:G:P	2.61	0.41
22:BB:1010:U:C2	22:BB:1168:G:N1	2.89	0.41
22:BB:1240:G:O6	39:BS:73:LYS:HE2	2.21	0.41
22:BB:1781:C:H4'	24:BD:209:ALA:CB	2.50	0.41
22:BB:210:A:H2'	22:BB:210:A:N3	2.36	0.41
22:BB:2461:G:C6	34:BN:54:VAL:HG13	2.41	0.41
22:BB:2510:A:C2	22:BB:2637:C:O2	2.74	0.41
22:BB:2503:G:O2'	22:BB:2721:A:N1	2.51	0.41
22:BB:2729:A:OP2	22:BB:2731:G:H5'	2.20	0.41
22:BB:2812:A:C2	35:BO:42:LYS:HE2	2.55	0.41
22:BB:5:A:C2	22:BB:2873:G:C6	3.09	0.41
22:BB:43:A:H2'	22:BB:44:G:H5'	2.03	0.41
22:BB:540:G:C6	22:BB:2018:G:H5''	2.55	0.41
22:BB:67:G:H2'	22:BB:68:C:O4'	2.20	0.41
22:BB:857:U:H1'	22:BB:946:U:C1'	2.49	0.41
22:BB:861:G:H2'	22:BB:862:A:C8	2.55	0.41
22:BB:60:A:N7	22:BB:93:A:C2	2.89	0.41
22:BB:977:G:H21	22:BB:2246:A:H8	1.67	0.41
24:BD:173:VAL:HG12	24:BD:184:ARG:HB3	2.03	0.41
25:BE:95:ILE:HD13	25:BE:95:ILE:N	2.29	0.41
22:BB:1147:G:N2	31:BK:133:GLY:C	2.48	0.41
31:BK:43:VAL:HB	31:BK:167:LYS:H	1.86	0.41
32:BL:59:ALA:HB1	32:BL:60:PRO:HD2	2.03	0.41
33:BM:85:ASP:O	33:BM:118:VAL:HG12	2.21	0.41
33:BM:82:ASP:C	33:BM:83:LEU:HD12	2.40	0.41
22:BB:2463:G:N3	34:BN:120:ARG:HG3	2.36	0.41
35:BO:20:LEU:C	35:BO:22:ARG:H	2.23	0.41
25:BE:176:ARG:HB3	37:BQ:16:ILE:HD12	2.02	0.41
40:BT:101:PRO:O	40:BT:121:THR:HG21	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:BT:38:VAL:O	40:BT:41:VAL:HG22	2.20	0.41
1:CA:1342:C:H2'	1:CA:1343:G:C8	2.55	0.41
1:CA:1343:G:H5''	9:CI:122:ALA:CB	2.43	0.41
1:CA:1347:G:H2'	1:CA:1373:G:H1	1.84	0.41
1:CA:1432:G:H2'	1:CA:1467:G:C6	2.55	0.41
1:CA:1443:G:H2'	1:CA:1445:U:OP1	2.21	0.41
1:CA:376:G:H2'	1:CA:377:G:H8	1.82	0.41
1:CA:487:A:N3	4:CD:131:ARG:NH1	2.69	0.41
1:CA:923:A:H2'	1:CA:924:C:C6	2.56	0.41
1:CA:1074:G:C2'	2:CB:103:THR:O	2.65	0.41
2:CB:186:ALA:O	2:CB:201:ILE:HB	2.20	0.41
3:CC:50:ALA:HB1	3:CC:70:VAL:HG11	2.03	0.41
1:CA:413:G:C2	4:CD:31:CYS:HA	2.55	0.41
5:CE:140:ARG:CZ	8:CH:72:PRO:HD3	2.49	0.41
6:CF:46:ARG:HH22	18:CR:35:ARG:HH12	1.66	0.41
7:CG:15:ASP:CB	7:CG:20:ASP:H	2.33	0.41
7:CG:52:GLU:O	7:CG:53:LYS:C	2.57	0.41
7:CG:62:PHE:CD2	7:CG:63:LYS:HG3	2.55	0.41
9:CI:59:PHE:HB3	9:CI:60:ASP:H	1.62	0.41
9:CI:97:LYS:N	9:CI:98:PRO:CD	2.84	0.41
12:CL:67:THR:HB	12:CL:96:VAL:HG22	2.02	0.41
13:CM:15:VAL:HA	13:CM:45:VAL:HG22	2.02	0.41
13:CM:76:ALA:HA	13:CM:79:LYS:HB2	2.02	0.41
1:CA:666:G:O3'	15:CO:51:HIS:CE1	2.73	0.41
15:CO:61:GLY:HA3	15:CO:65:ARG:CZ	2.50	0.41
16:CP:16:HIS:CD2	16:CP:40:ASP:HA	2.56	0.41
17:CQ:65:ILE:HD12	17:CQ:65:ILE:N	2.35	0.41
19:CS:5:LEU:HD11	19:CS:8:GLY:C	2.41	0.41
47:D1:31:ILE:O	47:D1:32:HIS:HB2	2.21	0.41
51:D5:64:ARG:OXT	51:D5:64:ARG:HG2	2.21	0.41
53:D7:46:LEU:HB3	53:D7:47:LYS:H	1.55	0.41
22:DB:1002:C:H5'	22:DB:1199:U:OP1	2.21	0.41
22:DB:123:A:O2'	50:D4:13:ALA:CB	2.68	0.41
22:DB:1586:A:C2'	22:DB:1587:A:H5'	2.51	0.41
22:DB:1670:G:N1	35:DO:11:ASN:CA	2.83	0.41
22:DB:1985:G:OP1	35:DO:14:SER:OG	2.39	0.41
22:DB:2045:A:H1'	22:DB:2421:C:OP2	2.21	0.41
22:DB:2059:U:H2'	22:DB:2060:A:C5'	2.49	0.41
22:DB:2286:G:N3	22:DB:2286:G:H2'	2.36	0.41
22:DB:2290:A:N3	22:DB:2290:A:H2'	2.36	0.41
22:DB:2464:G:O2'	34:DN:123:GLY:CA	2.66	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:DB:2470:U:N3	22:DB:2548:G:C2'	2.81	0.41
22:DB:2548:G:H2'	22:DB:2549:G:C5'	2.50	0.41
22:DB:2839:G:O2'	22:DB:2840:U:H5'	2.20	0.41
22:DB:3114:A:H2'	22:DB:3115:G:O4'	2.21	0.41
22:DB:43:A:C2'	22:DB:44:G:H5'	2.50	0.41
22:DB:796:A:O3'	22:DB:2567:G:H5''	2.21	0.41
22:DB:861:G:H2'	22:DB:862:A:C8	2.55	0.41
22:DB:864:C:O2'	46:DZ:39:ALA:C	2.57	0.41
22:DB:895:G:N2	22:DB:907:U:O2	2.53	0.41
24:DD:183:ARG:NH2	24:DD:185:VAL:HG22	2.36	0.41
22:DB:1797:C:H2'	24:DD:49:ILE:HG13	2.02	0.41
25:DE:144:ARG:H	25:DE:144:ARG:CZ	2.33	0.41
26:DF:150:LEU:HD13	26:DF:158:ARG:HH22	1.84	0.41
27:DG:4:LEU:O	27:DG:8:TYR:HB3	2.19	0.41
33:DM:82:ASP:C	33:DM:83:LEU:HD12	2.40	0.41
22:DB:1040:A:H5''	34:DN:125:LYS:HZ3	1.77	0.41
34:DN:9:LYS:HD3	34:DN:93:TYR:CE2	2.51	0.41
38:DR:28:ARG:HG2	38:DR:34:ASN:CB	2.50	0.41
38:DR:24:PHE:C	38:DR:28:ARG:HH11	2.24	0.41
22:DB:590:C:C4'	38:DR:32:TYR:CG	3.04	0.41
22:DB:498:C:O2	40:DT:74:SER:HB2	2.20	0.41
22:DB:313:U:OP1	42:DV:88:THR:CG2	2.68	0.41
23:DA:77:G:N9	43:DW:29:ASN:ND2	2.67	0.41
43:DW:72:ASP:HB2	43:DW:78:PRO:CA	2.51	0.41
44:DX:80:SER:CB	44:DX:83:ALA:HB3	2.51	0.41
22:DB:1197:U:H5''	46:DZ:26:ARG:HH22	1.85	0.41
1:EA:1021:G:C4'	27:JG:179:LYS:CB	2.87	0.41
1:EA:1257:U:H4'	1:EA:1258:G:H5'	2.02	0.41
1:EA:1404:C:H1'	1:EA:1519:A:H1'	2.01	0.41
1:EA:1409:C:O4'	22:FB:1896:A:O2'	2.38	0.41
1:EA:1432:G:H2'	1:EA:1467:G:C6	2.55	0.41
1:EA:237:C:H2'	1:EA:238:G:C8	2.55	0.41
1:EA:545:C:H2'	1:EA:546:G:C8	2.54	0.41
4:ED:144:ASP:HB2	4:ED:185:PHE:CE1	2.56	0.41
5:EE:49:PRO:HG2	5:EE:50:GLU:H	1.86	0.41
6:EF:2:ARG:O	6:EF:66:GLU:HG3	2.21	0.41
6:EF:6:VAL:HA	6:EF:89:MET:O	2.21	0.41
7:EG:120:ILE:HG22	7:EG:124:LEU:HD11	2.03	0.41
7:EG:49:ILE:CG2	7:EG:124:LEU:HD12	2.51	0.41
8:EH:64:LYS:C	8:EH:64:LYS:HE2	2.40	0.41
1:EA:587:G:C3'	8:EH:89:PRO:HB3	2.10	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:EI:70:LYS:HA	9:EI:73:GLN:OE1	2.20	0.41
11:EK:91:ARG:HD2	11:EK:91:ARG:N	2.31	0.41
12:EL:45:PRO:HA	12:EL:93:LEU:HG	2.03	0.41
1:EA:1358:U:H5''	14:EN:33:VAL:O	2.20	0.41
15:EO:38:ARG:O	15:EO:41:GLU:HB3	2.21	0.41
17:EQ:26:GLN:HB3	17:EQ:38:ARG:H	1.85	0.41
18:ER:38:GLU:OE1	18:ER:42:ARG:HB2	2.21	0.41
19:ES:5:LEU:HD11	19:ES:8:GLY:C	2.40	0.41
47:F1:31:ILE:O	47:F1:32:HIS:HB2	2.21	0.41
51:F5:3:LYS:NZ	51:F5:5:LYS:HG3	2.36	0.41
22:FB:1203:A:H5'	33:FM:36:GLY:N	2.08	0.41
22:FB:1247:U:H2'	22:FB:1248:G:C8	2.56	0.41
22:FB:144:U:H2'	22:FB:145:C:C6	2.55	0.41
22:FB:156:G:C6	22:FB:157:G:C6	3.08	0.41
22:FB:1591:U:O2'	22:FB:1592:U:H5'	2.20	0.41
22:FB:2018:G:N3	22:FB:2018:G:O4'	2.54	0.41
22:FB:2074:U:O2	47:F1:43:TRP:N	2.49	0.41
22:FB:210:A:H2'	22:FB:210:A:N3	2.36	0.41
22:FB:2399:C:C3'	51:F5:32:GLN:HB2	2.35	0.41
22:FB:2597:G:N3	25:FE:150:VAL:HG21	2.36	0.41
22:FB:2652:G:C1'	32:FL:46:HIS:NE2	2.84	0.41
22:FB:3180:U:H2'	22:FB:3181:C:H5'	2.02	0.41
22:FB:43:A:H2'	22:FB:44:G:H5'	2.03	0.41
22:FB:458:G:H4'	22:FB:461:A:H1'	2.02	0.41
22:FB:579:G:N2	22:FB:2477:C:H4'	2.35	0.41
22:FB:686:C:N4	22:FB:821:A:H61	2.18	0.41
22:FB:887:G:H2'	22:FB:888:G:C8	2.55	0.41
22:FB:910:U:C4	22:FB:911:A:H8	2.39	0.41
22:FB:1885:C:H1'	24:FD:244:ARG:CZ	2.51	0.41
22:FB:2218:G:H5'	24:FD:248:THR:CG2	2.51	0.41
25:FE:108:SER:O	25:FE:109:LYS:HG2	2.20	0.41
25:FE:77:ILE:O	25:FE:78:LEU:HB2	2.21	0.41
26:FF:108:ILE:HA	26:FF:111:ARG:HB3	2.03	0.41
26:FF:158:ARG:HH12	26:FF:169:VAL:HG23	1.84	0.41
26:FF:115:GLY:HA3	26:FF:185:ARG:HG3	2.03	0.41
28:FH:35:VAL:O	28:FH:36:PRO:O	2.38	0.41
30:FJ:78:ILE:CG2	30:FJ:107:ILE:HG23	2.51	0.41
31:FK:83:ILE:HG22	31:FK:84:ASN:H	1.86	0.41
33:FM:143:PRO:HG2	33:FM:144:GLU:N	2.36	0.41
34:FN:78:LYS:NZ	34:FN:78:LYS:HB2	2.36	0.41
35:FO:18:VAL:HG23	35:FO:22:ARG:NH2	2.36	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:FQ:56:ALA:H	37:FQ:71:ILE:HG12	1.85	0.41
38:FR:33:ARG:HE	38:FR:34:ASN:ND2	2.17	0.41
22:FB:25:U:C5'	40:FT:100:GLY:CA	2.78	0.41
40:FT:77:ALA:O	40:FT:80:LEU:HB2	2.21	0.41
22:FB:1412:C:C4'	41:FU:22:ARG:HH21	2.31	0.41
22:FB:312:G:C3'	42:FV:89:GLY:N	2.80	0.41
44:FX:61:ALA:HB2	44:FX:80:SER:HA	2.03	0.41
1:GA:1060:C:O3'	10:GJ:58:ASP:CB	2.68	0.41
1:GA:1399:C:H4'	1:GA:1400:C:C5'	2.51	0.41
1:GA:1404:C:H1'	1:GA:1519:A:H1'	2.01	0.41
1:GA:1489:G:H2'	1:GA:1490:C:O4'	2.20	0.41
1:GA:171:A:H2'	1:GA:172:A:C8	2.48	0.41
20:AT:103:GLY:N	1:GA:181:G:OP1	2.53	0.41
1:GA:356:A:O2'	1:GA:368:U:H4'	2.20	0.41
1:GA:439:A:H4'	4:GD:122:ARG:NH1	2.31	0.41
1:GA:55:A:H2'	1:GA:56:U:H5'	2.03	0.41
1:GA:638:G:O2'	1:GA:639:G:H5'	2.21	0.41
1:GA:771:G:H2'	1:GA:772:U:C6	2.56	0.41
1:GA:896:C:H2'	1:GA:897:C:C6	2.56	0.41
1:GA:812:C:OP1	1:GA:903:G:H1'	2.20	0.41
3:GC:67:THR:OG1	3:GC:102:ASN:HB2	2.20	0.41
3:GC:73:PRO:HA	3:GC:105:GLU:CG	2.49	0.41
4:GD:10:ARG:HH12	4:GD:11:LEU:HB3	1.85	0.41
4:GD:3:ARG:HH11	4:GD:118:ARG:NH2	2.19	0.41
6:GF:30:LEU:HD22	6:GF:37:VAL:HG13	2.02	0.41
7:GG:111:ARG:HH22	7:GG:122:HIS:HB3	1.84	0.41
7:GG:49:ILE:CG2	7:GG:124:LEU:HD12	2.51	0.41
7:GG:66:VAL:O	7:GG:70:LYS:HG3	2.21	0.41
11:GK:58:PRO:O	11:GK:93:GLN:HB2	2.21	0.41
12:GL:8:ASN:ND2	17:GQ:34:LYS:HE3	2.35	0.41
13:GM:84:ILE:C	13:GM:86:CYS:H	2.24	0.41
14:GN:39:LEU:HB3	14:GN:44:LEU:CD1	2.51	0.41
15:GO:73:GLU:HB3	15:GO:74:ASP:H	1.65	0.41
17:GQ:65:ILE:CD1	17:GQ:70:ARG:HA	2.51	0.41
18:GR:44:LEU:HD23	18:GR:45:SER:O	2.21	0.41
23:HA:68:A:O4'	23:HA:68:A:N3	2.53	0.41
22:HB:1134:C:H2'	22:HB:1135:C:C5	2.56	0.41
22:HB:11:G:O2'	22:HB:12:U:H5'	2.20	0.41
22:HB:1297:A:N6	22:HB:1342:U:OP1	2.53	0.41
22:HB:1400:A:C2	22:HB:1414:G:O6	2.72	0.41
22:HB:1453:A:H2'	22:HB:1453:A:N3	2.35	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:HB:1548:U:N3	22:HB:1556:A:H1'	2.22	0.41
22:HB:1702:C:H2'	22:HB:1703:C:C6	2.55	0.41
22:HB:198:A:O2'	22:HB:199:A:P	2.78	0.41
22:HB:2273:C:C5	36:HP:11:LEU:HD21	2.56	0.41
22:HB:2290:A:N3	22:HB:2290:A:H2'	2.35	0.41
22:HB:2466:G:H2'	22:HB:2467:A:C8	2.56	0.41
22:HB:2543:A:C2	22:HB:2626:U:H5'	2.55	0.41
22:HB:2697:G:N2	22:HB:2822:U:H4'	2.35	0.41
22:HB:2839:G:O2'	22:HB:2840:U:H5'	2.20	0.41
22:HB:365:U:H2'	22:HB:366:U:O4'	2.20	0.41
22:HB:399:G:H4'	22:HB:400:U:C4	2.55	0.41
22:HB:497:C:H5'	40:HT:80:LEU:HD11	1.74	0.41
22:HB:574:C:H5	39:HS:79:GLN:NE2	2.17	0.41
22:HB:637:G:N2	33:HM:74:VAL:CA	2.79	0.41
22:HB:6:A:HO2'	31:HK:163:PRO:CG	2.23	0.41
22:HB:863:C:O2'	22:HB:864:C:H5'	2.21	0.41
22:HB:882:C:H2'	22:HB:883:A:C8	2.55	0.41
22:HB:941:U:O2'	46:HZ:24:GLY:HA3	2.21	0.41
24:HD:148:VAL:CB	24:HD:151:LYS:HB3	2.50	0.41
24:HD:51:SER:HB3	24:HD:52:ARG:HD3	2.02	0.41
25:HE:146:THR:HA	25:HE:147:PRO:HD2	1.88	0.41
25:HE:203:LYS:HB3	25:HE:203:LYS:NZ	2.35	0.41
25:HE:98:GLU:CD	25:HE:175:ILE:HG13	2.41	0.41
26:HF:158:ARG:NH1	26:HF:169:VAL:HG23	2.36	0.41
27:HG:126:GLY:O	27:HG:157:VAL:HA	2.20	0.41
28:HH:69:ARG:CZ	28:HH:69:ARG:HB3	2.50	0.41
31:HK:78:ASP:N	31:HK:147:ARG:HH22	2.19	0.41
32:HL:59:ALA:HB1	32:HL:60:PRO:HD2	2.03	0.41
33:HM:107:LYS:HD2	33:HM:108:LEU:N	2.35	0.41
38:HR:33:ARG:HH21	38:HR:34:ASN:ND2	2.14	0.41
38:HR:75:ASN:HB3	38:HR:79:PHE:HD2	1.86	0.41
38:HR:75:ASN:O	38:HR:76:TYR:HB3	2.21	0.41
38:HR:93:LYS:O	38:HR:94:VAL:HB	2.19	0.41
42:HV:106:VAL:HG22	42:HV:113:THR:CB	2.51	0.41
43:HW:3:LEU:HB3	43:HW:56:VAL:HG13	2.02	0.41
45:HY:39:GLN:OE1	45:HY:42:ARG:HD2	2.19	0.41
1:IA:1378:C:H3'	1:IA:1379:G:C5'	2.51	0.41
1:IA:333:G:H2'	1:IA:334:C:C6	2.56	0.41
1:IA:642:A:H2'	1:IA:643:C:C6	2.56	0.41
1:IA:954:G:H5'	13:IM:123:ALA:HA	1.54	0.41
2:IB:145:LEU:HA	2:IB:148:TYR:CD1	2.55	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:IB:187:LEU:HD11	2:IB:204:ASN:CA	2.51	0.41
2:IB:74:LYS:HD3	2:IB:165:VAL:CG1	2.50	0.41
2:IB:93:VAL:HG13	2:IB:148:TYR:O	2.20	0.41
3:IC:120:VAL:O	3:IC:124:ILE:HG13	2.19	0.41
3:IC:129:ALA:C	3:IC:133:ALA:HB2	2.41	0.41
4:ID:144:ASP:HB2	4:ID:185:PHE:CE1	2.56	0.41
4:ID:57:ARG:HH21	5:IE:107:ARG:HD3	1.84	0.41
7:IG:49:ILE:CG2	7:IG:124:LEU:HD12	2.51	0.41
8:IH:64:LYS:HZ2	8:IH:79:VAL:HG21	1.86	0.41
10:IJ:53:PRO:HG2	10:IJ:54:PHE:HD1	1.85	0.41
13:IM:66:LEU:HA	13:IM:70:LEU:HB2	2.02	0.41
17:IQ:9:VAL:HG22	17:IQ:56:VAL:HG22	2.01	0.41
18:IR:44:LEU:HD23	18:IR:45:SER:O	2.21	0.41
18:IR:47:THR:HG22	18:IR:48:GLY:N	2.36	0.41
19:IS:36:ARG:HH21	19:IS:53:ASN:HD22	1.69	0.41
19:IS:46:GLY:N	19:IS:62:ILE:HG23	2.27	0.41
19:IS:73:GLU:HG2	19:IS:74:PHE:CE1	2.55	0.41
49:J3:43:VAL:HG23	49:J3:44:ALA:N	2.30	0.41
51:J5:36:LYS:HE2	51:J5:36:LYS:H	1.85	0.41
53:J7:117:MSE:O	53:J7:121:GLY:HA3	2.21	0.41
53:J7:126:PRO:HD3	53:J7:135:PRO:HD3	2.01	0.41
23:JA:90:C:O2'	23:JA:91:A:H5'	2.21	0.41
22:JB:1134:C:H2'	22:JB:1135:C:C5	2.56	0.41
22:JB:1149:G:P	31:JK:132:PHE:CZ	3.13	0.41
22:JB:1307:U:C2'	35:JO:23:ALA:HB2	2.50	0.41
22:JB:1712:G:H3'	22:JB:1712:G:N3	2.35	0.41
22:JB:17:G:H5'	48:J2:14:SER:N	2.27	0.41
22:JB:1933:G:H2'	22:JB:1934:U:C5	2.56	0.41
22:JB:1969:G:H2'	22:JB:1970:G:C8	2.56	0.41
22:JB:2290:A:H2'	22:JB:2290:A:N3	2.35	0.41
22:JB:2548:G:H2'	22:JB:2549:G:C5'	2.50	0.41
22:JB:1949:A:O2'	22:JB:2572:U:H5'	2.21	0.41
22:JB:2845:C:H2'	22:JB:2846:G:H5'	2.02	0.41
22:JB:320:A:O2'	42:JV:30:LYS:HG2	2.20	0.41
22:JB:365:U:H2'	22:JB:366:U:O4'	2.20	0.41
22:JB:404:A:O2'	22:JB:422:C:H5'	2.21	0.41
22:JB:487:G:H21	22:JB:491:A:N6	2.11	0.41
22:JB:822:G:H2'	22:JB:823:U:C6	2.56	0.41
22:JB:890:U:H1'	22:JB:912:A:N6	2.36	0.41
24:JD:133:LEU:O	24:JD:134:ARG:HG2	2.20	0.41
22:JB:1789:U:H5''	24:JD:258:LYS:HB2	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:JE:108:SER:O	25:JE:109:LYS:HG2	2.20	0.41
25:JE:167:VAL:O	25:JE:168:GLN:HB2	2.20	0.41
22:JB:2763:U:O2'	25:JE:41:THR:HG22	2.20	0.41
30:JJ:78:ILE:CG2	30:JJ:107:ILE:HG23	2.51	0.41
31:JK:122:HIS:O	31:JK:123:PRO:C	2.58	0.41
33:JM:46:GLY:O	33:JM:48:PHE:N	2.54	0.41
34:JN:9:LYS:HD3	34:JN:93:TYR:CE2	2.51	0.41
34:JN:42:TRP:HA	34:JN:94:TRP:CZ2	2.55	0.41
35:JO:38:LEU:HD13	35:JO:38:LEU:N	2.36	0.41
36:JP:8:ARG:HH12	36:JP:9:ARG:HE	1.66	0.41
22:JB:2852:G:C5'	37:JQ:8:ASN:HB2	2.44	0.41
38:JR:36:PHE:O	38:JR:37:GLN:HG2	2.20	0.41
38:JR:61:TRP:CH2	38:JR:97:ASP:HA	2.56	0.41
42:JV:51:VAL:HG11	42:JV:74:LEU:CD2	2.49	0.41
44:JX:29:GLU:H	44:JX:62:LEU:CB	2.34	0.41
44:JX:32:LYS:HG3	44:JX:33:ALA:N	2.35	0.41
1:AA:1099:G:H2'	1:AA:1100:C:H5'	2.03	0.41
1:AA:1322:C:OP1	19:AS:78:ARG:CZ	2.69	0.41
1:AA:1347:G:H2'	1:AA:1373:G:H1	1.84	0.41
1:AA:1443:G:H2'	1:AA:1445:U:OP1	2.21	0.41
2:AB:93:VAL:HG13	2:AB:148:TYR:O	2.20	0.41
2:AB:187:LEU:HD11	2:AB:204:ASN:CA	2.51	0.41
3:AC:133:ALA:C	3:AC:136:GLN:HB2	2.41	0.41
3:AC:25:GLY:O	3:AC:28:GLN:HB2	2.21	0.41
5:AE:121:LYS:CG	5:AE:123:LEU:HG	2.51	0.41
1:AA:15:G:C3'	5:AE:24:ARG:CZ	2.50	0.41
6:AF:52:ILE:HG22	6:AF:53:ALA:N	2.36	0.41
6:AF:22:GLU:OE2	6:AF:79:LEU:HD22	2.20	0.41
7:AG:111:ARG:HH22	7:AG:122:HIS:HB3	1.84	0.41
7:AG:120:ILE:HG22	7:AG:124:LEU:HD11	2.02	0.41
8:AH:64:LYS:NZ	8:AH:79:VAL:HG21	2.34	0.41
9:AI:97:LYS:N	9:AI:98:PRO:CD	2.84	0.41
13:AM:29:ARG:NH2	13:AM:66:LEU:HD11	2.36	0.41
13:AM:76:ALA:HA	13:AM:79:LYS:HB2	2.02	0.41
13:AM:81:LEU:CG	13:AM:92:HIS:CE1	3.02	0.41
15:AO:15:PHE:CD2	15:AO:81:LEU:HD11	2.56	0.41
1:AA:273:A:H2'	17:AQ:14:LYS:O	2.18	0.41
17:AQ:9:VAL:HG22	17:AQ:56:VAL:HG22	2.01	0.41
18:AR:44:LEU:HG	18:AR:45:SER:N	2.35	0.41
19:AS:12:ASP:HB3	19:AS:14:HIS:NE2	2.36	0.41
19:AS:38:SER:O	19:AS:70:LYS:HA	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:AT:23:ARG:NE	20:AT:30:LYS:NZ	2.68	0.41
22:BB:2339:A:OP1	51:B5:49:VAL:HG13	2.21	0.41
51:B5:3:LYS:NZ	51:B5:5:LYS:HG3	2.36	0.41
23:BA:68:A:N3	23:BA:68:A:O4'	2.54	0.41
22:BB:1146:G:H21	22:BB:1147:G:H1'	1.86	0.41
22:BB:1531:C:O2'	22:BB:1572:C:H1'	2.20	0.41
22:BB:1597:A:H2'	22:BB:1598:C:O4'	2.21	0.41
22:BB:1285:A:N3	22:BB:1634:A:H1'	2.36	0.41
22:BB:2286:G:H2'	22:BB:2286:G:N3	2.36	0.41
22:BB:2329:C:H41	22:BB:2361:G:H1	1.68	0.41
22:BB:2402:U:H1'	22:BB:2404:A:C5	2.54	0.41
22:BB:2434:G:H2'	22:BB:2435:C:C5	2.56	0.41
22:BB:1040:A:C1'	22:BB:2465:G:H4'	2.51	0.41
22:BB:2496:C:H4'	22:BB:2497:A:C2	2.56	0.41
22:BB:2506:C:H2'	22:BB:2507:U:O4'	2.21	0.41
22:BB:2839:G:O2'	22:BB:2840:U:H5'	2.20	0.41
22:BB:295:C:N4	22:BB:368:A:H61	2.19	0.41
22:BB:626:A:O3'	26:BF:33:TRP:CZ3	2.73	0.41
22:BB:81:C:H5''	22:BB:307:C:H5'	2.02	0.41
22:BB:820:U:H3	33:BM:40:ARG:HH21	1.64	0.41
24:BD:148:VAL:CB	24:BD:151:LYS:HB3	2.50	0.41
25:BE:203:LYS:NZ	25:BE:203:LYS:HB3	2.35	0.41
25:BE:40:GLN:C	25:BE:42:ASP:H	2.23	0.41
27:BG:108:LEU:N	27:BG:109:PRO:CD	2.84	0.41
31:BK:78:ASP:N	31:BK:147:ARG:HH22	2.19	0.41
31:BK:46:ALA:CB	31:BK:83:ILE:HB	2.47	0.41
32:BL:113:PRO:HB3	32:BL:132:GLU:HB2	2.02	0.41
38:BR:61:TRP:CH2	38:BR:97:ASP:HA	2.56	0.41
41:BU:29:VAL:HG12	41:BU:38:ILE:HD13	2.03	0.41
42:BV:59:LYS:N	42:BV:60:PRO:HD3	2.35	0.41
44:BX:80:SER:CB	44:BX:83:ALA:HB3	2.51	0.41
1:CA:1099:G:H2'	1:CA:1100:C:H5'	2.03	0.41
1:CA:1347:G:OP2	9:CI:107:ARG:HA	2.21	0.41
1:CA:1404:C:H1'	1:CA:1519:A:H1'	2.01	0.41
1:CA:570:G:H4'	1:CA:819:A:H2'	2.01	0.41
1:CA:589:C:H41	8:CH:1:MET:HE2	1.86	0.41
1:CA:642:A:H2'	1:CA:643:C:C6	2.56	0.41
1:CA:673:G:H5'	18:CR:75:ILE:CG2	2.42	0.41
2:CB:155:LEU:HD11	2:CB:159:PRO:HD3	2.01	0.41
3:CC:129:ALA:C	3:CC:133:ALA:HB2	2.41	0.41
6:CF:53:ALA:C	6:CF:54:LYS:HG2	2.42	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:CG:49:ILE:CG2	7:CG:124:LEU:HD12	2.51	0.41
7:CG:66:VAL:O	7:CG:70:LYS:HG3	2.21	0.41
1:CA:1382:C:C5'	7:CG:79:ARG:HG3	2.45	0.41
8:CH:26:VAL:HG21	8:CH:32:LYS:HB3	2.01	0.41
8:CH:36:LEU:CD1	8:CH:59:LEU:HD13	2.51	0.41
1:CA:1147:C:C1'	9:CI:16:ARG:NH1	2.74	0.41
9:CI:27:THR:HG23	9:CI:32:ASP:H	1.85	0.41
1:CA:1148:U:C2'	9:CI:66:ARG:NH2	2.83	0.41
13:CM:29:ARG:NH2	13:CM:66:LEU:HD11	2.36	0.41
13:CM:87:TYR:CB	13:CM:91:ARG:HG2	2.48	0.41
13:CM:9:ILE:CD1	27:DG:144:ASP:HA	2.51	0.41
14:CN:48:ALA:O	14:CN:53:LEU:HD21	2.21	0.41
16:CP:59:TRP:HB3	16:CP:64:ALA:HB3	2.02	0.41
18:CR:34:TYR:HA	18:CR:37:VAL:CG2	2.49	0.41
51:D5:41:ILE:HD13	51:D5:42:ARG:HH21	1.86	0.41
51:D5:3:LYS:NZ	51:D5:5:LYS:HG3	2.36	0.41
51:D5:59:LYS:O	51:D5:60:LEU:HB2	2.21	0.41
53:D7:117:MSE:O	53:D7:121:GLY:HA3	2.21	0.41
23:DA:90:C:O2'	23:DA:91:A:H5'	2.21	0.41
22:DB:1141:U:H4'	22:DB:1142:G:O5'	2.19	0.41
22:DB:1163:C:C2	38:DR:78:THR:OG1	2.74	0.41
22:DB:1597:A:H2'	22:DB:1598:C:O4'	2.21	0.41
22:DB:1639:U:H2'	22:DB:1640:C:C6	2.56	0.41
22:DB:1791:C:N4	22:DB:1810:U:H1'	2.36	0.41
22:DB:1901:A:H2'	22:DB:1901:A:N3	2.35	0.41
22:DB:1940:C:O2'	22:DB:1941:C:H5'	2.20	0.41
22:DB:1141:U:O2	22:DB:2008:C:H4'	2.21	0.41
22:DB:2048:C:H4'	22:DB:2231:G:H4'	2.03	0.41
22:DB:2402:U:H1'	22:DB:2404:A:C5	2.55	0.41
22:DB:1139:A:N6	22:DB:2469:G:P	2.80	0.41
22:DB:2718:A:H2	22:DB:2746:G:O6	2.04	0.41
22:DB:574:C:H2'	22:DB:575:U:O4'	2.20	0.41
22:DB:699:G:C6	50:D4:5:TYR:HB2	2.45	0.41
22:DB:730:C:H2'	22:DB:731:A:C5	2.56	0.41
22:DB:686:C:N4	22:DB:821:A:H61	2.18	0.41
22:DB:857:U:C2	22:DB:946:U:N3	2.86	0.41
22:DB:777:A:H2	24:DD:209:ALA:HB3	1.82	0.41
22:DB:1790:G:P	24:DD:258:LYS:HG3	2.54	0.41
24:DD:261:ARG:HG3	24:DD:262:LYS:H	1.85	0.41
25:DE:143:GLN:HB2	25:DE:144:ARG:NE	2.36	0.41
28:DH:85:ILE:HD13	28:DH:141:VAL:HA	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:DH:171:LEU:HD12	28:DH:171:LEU:O	2.20	0.41
32:DL:2:ILE:CB	32:DL:44:TYR:HB2	2.51	0.41
34:DN:34:GLY:O	34:DN:35:LEU:HB2	2.20	0.41
34:DN:78:LYS:HB2	34:DN:78:LYS:NZ	2.36	0.41
35:DO:38:LEU:H	35:DO:38:LEU:HD13	1.86	0.41
22:DB:28:A:N3	38:DR:11:ARG:NH2	2.68	0.41
40:DT:58:ARG:HH21	40:DT:65:SER:HB3	1.85	0.41
40:DT:86:LEU:HB3	40:DT:87:GLU:H	1.56	0.41
43:DW:25:ASN:ND2	43:DW:25:ASN:N	2.68	0.41
44:DX:31:VAL:HG12	44:DX:32:LYS:CG	2.50	0.41
44:DX:41:ARG:O	44:DX:66:LYS:HA	2.21	0.41
1:EA:1372:U:O2'	1:EA:1373:G:H5'	2.21	0.41
1:EA:197:A:O2'	1:EA:198:G:P	2.78	0.41
1:EA:429:U:C1'	1:EA:430:A:H5''	2.47	0.41
1:EA:126:G:OP1	1:EA:605:U:H4'	2.21	0.41
1:EA:816:A:OP2	1:EA:1527:C:H5'	2.20	0.41
2:EB:112:VAL:O	2:EB:112:VAL:HG12	2.21	0.41
2:EB:117:GLU:O	2:EB:120:ALA:HB3	2.20	0.41
2:EB:62:ALA:HB1	2:EB:225:ALA:HB3	2.03	0.41
2:EB:69:LEU:HD22	2:EB:162:ILE:HG23	2.03	0.41
3:EC:156:ARG:H	3:EC:163:ALA:HA	1.85	0.41
3:EC:50:ALA:HB1	3:EC:70:VAL:HG11	2.03	0.41
6:EF:3:ARG:HB3	6:EF:93:SER:O	2.21	0.41
6:EF:65:VAL:HB	6:EF:66:GLU:H	1.65	0.41
7:EG:125:MET:C	7:EG:127:ALA:H	2.24	0.41
8:EH:111:ILE:O	8:EH:134:ILE:HD12	2.21	0.41
10:EJ:53:PRO:HG2	10:EJ:54:PHE:HD1	1.85	0.41
1:EA:1329:A:H5''	13:EM:29:ARG:HD2	2.02	0.41
3:EC:29:TYR:HB2	14:EN:36:PHE:O	2.19	0.41
15:EO:11:VAL:O	15:EO:16:ALA:HB2	2.21	0.41
15:EO:38:ARG:HD3	15:EO:38:ARG:N	2.36	0.41
16:EP:16:HIS:CD2	16:EP:40:ASP:HA	2.56	0.41
1:EA:110:C:O3'	16:EP:27:LYS:HG2	2.20	0.41
1:EA:279:A:C1'	17:EQ:95:TYR:HA	1.90	0.41
53:F7:104:ALA:HB2	53:F7:124:LEU:HB3	2.01	0.41
53:F7:30:VAL:HG23	53:F7:172:GLU:HG2	2.03	0.41
22:FB:1411:C:C2	22:FB:1412:C:C5	2.99	0.41
22:FB:1639:U:H2'	22:FB:1640:C:C6	2.56	0.41
22:FB:1791:C:N4	22:FB:1810:U:H1'	2.36	0.41
22:FB:18:U:O2'	22:FB:563:U:H5'	2.20	0.41
22:FB:1141:U:O2	22:FB:2008:C:H4'	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:FB:2059:U:H2'	22:FB:2060:A:C5'	2.49	0.41
22:FB:2240:C:H41	44:FX:13:GLY:N	2.19	0.41
22:FB:2329:C:H41	22:FB:2361:G:H1	1.68	0.41
22:FB:2434:G:H2'	22:FB:2435:C:C5	2.55	0.41
22:FB:2548:G:H2'	22:FB:2549:G:C5'	2.50	0.41
22:FB:2658:A:H2	22:FB:2709:C:N3	2.18	0.41
22:FB:2763:U:H4'	25:FE:40:GLN:HB3	2.02	0.41
22:FB:348:U:C5'	42:FV:13:LYS:CG	2.87	0.41
22:FB:3868:U:H2'	22:FB:3869:G:O4'	2.20	0.41
22:FB:468:A:O2'	22:FB:470:U:H5'	2.20	0.41
22:FB:686:C:H4'	26:FF:73:SER:CA	2.02	0.41
22:FB:67:G:H2'	22:FB:68:C:O4'	2.20	0.41
22:FB:845:U:C5'	33:FM:41:SER:CB	2.74	0.41
24:FD:28:ARG:HD2	24:FD:84:TYR:CE2	2.55	0.41
22:FB:1673:C:N1	25:FE:136:ARG:NH2	2.55	0.41
25:FE:119:ARG:HG2	25:FE:155:ARG:CG	2.51	0.41
22:FB:2283:G:H4'	27:FG:130:LEU:HD22	2.01	0.41
27:FG:136:LEU:HD13	27:FG:150:ARG:HH21	1.85	0.41
28:FH:58:ALA:HB1	28:FH:59:GLN:H	1.71	0.41
31:FK:127:ILE:O	31:FK:130:ALA:HB2	2.20	0.41
31:FK:45:ASP:HB3	31:FK:47:SER:OG	2.21	0.41
33:FM:114:ILE:HG21	33:FM:135:ALA:C	2.41	0.41
38:FR:51:ARG:NH2	38:FR:54:LYS:HE3	2.35	0.41
40:FT:56:LEU:O	48:F2:25:LEU:CD1	2.69	0.41
22:FB:1992:G:C5'	40:FT:62:ARG:HB2	2.47	0.41
41:FU:67:ARG:HB2	41:FU:68:PHE:H	1.67	0.41
42:FV:58:VAL:HB	42:FV:59:LYS:H	1.66	0.41
43:FW:3:LEU:HB3	43:FW:56:VAL:HG13	2.03	0.41
45:FY:2:LYS:N	45:FY:2:LYS:HD3	2.35	0.41
45:FY:55:THR:O	45:FY:56:VAL:CG2	2.68	0.41
1:GA:1129:C:O5'	1:GA:1130:A:H5'	2.20	0.41
1:GA:1359:C:H2'	1:GA:1361:G:OP2	2.20	0.41
1:GA:1435:G:H2'	1:GA:1436:U:C6	2.56	0.41
1:GA:237:C:H2'	1:GA:238:G:C8	2.56	0.41
1:GA:253:U:O2'	17:GQ:18:THR:HG21	2.18	0.41
1:GA:569:C:C1'	1:GA:574:A:H2'	2.51	0.41
1:GA:684:A:H2'	1:GA:685:G:C4'	2.50	0.41
1:GA:951:G:H1'	13:GM:126:LYS:HB3	2.03	0.41
2:GB:186:ALA:O	2:GB:201:ILE:HB	2.20	0.41
3:GC:120:VAL:O	3:GC:124:ILE:HG13	2.19	0.41
3:GC:16:ARG:O	3:GC:17:ASP:C	2.59	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:GC:23:TYR:HE2	10:GJ:9:ARG:HG2	1.82	0.41
9:GI:40:LEU:O	9:GI:44:VAL:HG23	2.21	0.41
9:GI:48:GLU:HB2	9:GI:78:LYS:NZ	2.25	0.41
1:GA:106:C:N4	20:GT:14:LYS:CD	2.76	0.41
20:GT:19:SER:HA	20:GT:22:ARG:NE	2.35	0.41
47:H1:46:GLU:OE1	47:H1:73:LYS:HD3	2.21	0.41
50:H4:18:PHE:HE2	50:H4:45:SER:HB2	1.85	0.41
50:H4:37:LYS:HB3	50:H4:37:LYS:NZ	2.35	0.41
51:H5:8:LYS:C	51:H5:10:ALA:H	2.23	0.41
51:H5:41:ILE:HD13	51:H5:42:ARG:HH21	1.86	0.41
51:H5:59:LYS:O	51:H5:60:LEU:HB2	2.20	0.41
51:H5:64:ARG:OXT	51:H5:64:ARG:HG2	2.21	0.41
22:HB:3122:U:C2'	53:H7:158:LYS:HZ2	2.29	0.41
22:HB:1140:A:H5'	22:HB:1142:G:P	2.61	0.41
22:HB:50:G:C2'	22:HB:116:A:H61	2.34	0.41
22:HB:127:C:H4'	22:HB:1360:G:H1	1.86	0.41
22:HB:1448:A:HO2'	22:HB:1449:C:H6	1.65	0.41
22:HB:1454:U:H2'	22:HB:1455:C:C6	2.56	0.41
22:HB:1552:C:H2'	22:HB:1553:G:H5'	2.03	0.41
22:HB:1582:A:OP1	24:HD:24:LEU:HD11	2.20	0.41
22:HB:166:G:OP2	47:H1:36:TRP:HH2	2.04	0.41
22:HB:1933:G:H2'	22:HB:1934:U:C5	2.56	0.41
22:HB:1969:G:H2'	22:HB:1970:G:C8	2.56	0.41
22:HB:2045:A:H1'	22:HB:2421:C:OP2	2.21	0.41
22:HB:2048:C:H4'	22:HB:2231:G:H4'	2.03	0.41
22:HB:923:A:C1'	22:HB:2243:C:H4'	2.49	0.41
22:HB:2698:G:H2'	22:HB:2699:G:C8	2.56	0.41
22:HB:2669:C:OP1	22:HB:2847:G:C6	2.73	0.41
22:HB:2075:U:H3'	22:HB:3093:C:OP2	2.21	0.41
22:HB:419:G:H5''	53:H7:197:GLU:C	2.41	0.41
22:HB:430:C:O2	22:HB:2386:G:N2	2.54	0.41
22:HB:647:G:C8	33:HM:128:ALA:HA	2.56	0.41
22:HB:822:G:H2'	22:HB:823:U:C6	2.56	0.41
22:HB:861:G:H2'	22:HB:862:A:C8	2.55	0.41
24:HD:154:GLN:HB3	24:HD:155:LEU:H	1.50	0.41
24:HD:63:ARG:HH22	24:HD:157:ARG:HE	1.69	0.41
25:HE:144:ARG:H	25:HE:144:ARG:CZ	2.33	0.41
26:HF:149:LEU:HD23	26:HF:150:LEU:N	2.36	0.41
28:HH:152:ARG:O	28:HH:153:LYS:C	2.59	0.41
31:HK:127:ILE:O	31:HK:130:ALA:HB2	2.20	0.41
32:HL:21:CYS:HA	32:HL:53:ALA:CA	2.50	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:HL:90:ARG:HE	32:HL:90:ARG:HA	1.86	0.41
33:HM:142:LEU:HD22	33:HM:142:LEU:N	2.36	0.41
34:HN:78:LYS:HB2	34:HN:78:LYS:NZ	2.36	0.41
36:HP:101:LYS:O	36:HP:103:LEU:N	2.53	0.41
22:HB:1340:C:P	40:HT:119:LYS:HD2	2.51	0.41
40:HT:38:VAL:O	40:HT:41:VAL:HG22	2.20	0.41
40:HT:75:ALA:O	40:HT:79:ALA:N	2.53	0.41
44:HX:45:PHE:H	44:HX:76:ALA:N	2.16	0.41
22:HB:2311:U:P	44:HX:51:VAL:CG2	3.06	0.41
1:IA:1209:C:O2'	1:IA:1210:C:H5'	2.21	0.41
1:IA:1260:C:H4'	1:IA:1284:C:C5'	2.48	0.41
1:IA:1272:G:H2'	1:IA:1273:G:H8	1.86	0.41
1:IA:1443:G:H2'	1:IA:1445:U:OP1	2.21	0.41
1:IA:300:A:C2'	1:IA:301:G:H5'	2.51	0.41
1:IA:370:C:H42	1:IA:390:C:H42	1.67	0.41
1:IA:452:A:H4'	16:IP:73:LEU:HD12	2.01	0.41
1:IA:419:C:H4'	1:IA:512:U:O2'	2.21	0.41
1:IA:51:A:H4'	1:IA:52:G:OP2	2.20	0.41
1:IA:569:C:C1'	1:IA:574:A:H2'	2.51	0.41
1:IA:684:A:H2'	1:IA:685:G:C4'	2.50	0.41
1:IA:919:A:C5'	1:IA:920:U:OP2	2.64	0.41
1:IA:925:G:C2	1:IA:1531:A:H1'	2.55	0.41
3:IC:9:GLY:HA2	3:IC:12:LEU:CD1	2.48	0.41
4:ID:125:HIS:HB3	4:ID:152:SER:HB3	2.03	0.41
6:IF:2:ARG:O	6:IF:66:GLU:HG3	2.20	0.41
7:IG:92:SER:C	7:IG:96:GLN:HE21	2.24	0.41
1:IA:826:C:H4'	8:IH:12:ARG:HG2	1.99	0.41
14:IN:48:ALA:O	14:IN:53:LEU:HD21	2.21	0.41
16:IP:16:HIS:CD2	16:IP:40:ASP:HA	2.56	0.41
22:JB:16:G:H4'	48:J2:17:ASP:CB	2.18	0.41
48:J2:45:ILE:HG12	48:J2:52:TYR:N	2.36	0.41
22:JB:1629:G:C5'	50:J4:3:ARG:CD	2.99	0.41
51:J5:52:LYS:HA	51:J5:54:GLU:OE2	2.21	0.41
22:JB:231:G:C2	51:J5:7:HIS:HD2	2.37	0.41
22:JB:3169:A:O2'	53:J7:127:ALA:HB1	2.20	0.41
53:J7:138:LEU:HD13	53:J7:144:ILE:HD12	2.01	0.41
22:JB:1152:C:H41	31:JK:51:LEU:H	1.68	0.41
22:JB:11:G:O2'	22:JB:12:U:H5'	2.21	0.41
22:JB:114:C:C5'	22:JB:124:A:H4'	2.50	0.41
22:JB:1453:A:H2'	22:JB:1453:A:N3	2.35	0.41
22:JB:1535:C:H5''	22:JB:1536:G:OP2	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:JB:1872:A:H2'	22:JB:1873:A:C8	2.55	0.41
22:JB:2286:G:H2'	22:JB:2286:G:N3	2.36	0.41
22:JB:2261:G:N1	22:JB:2404:A:C1'	2.77	0.41
22:JB:10:A:C2	22:JB:2608:A:C2	3.09	0.41
22:JB:2839:G:O2'	22:JB:2840:U:H5'	2.20	0.41
22:JB:338:G:O2'	42:JV:77:HIS:ND1	2.50	0.41
22:JB:312:G:H5''	22:JB:345:U:C2	2.56	0.41
22:JB:295:C:N4	22:JB:368:A:H61	2.19	0.41
22:JB:3868:U:H2'	22:JB:3869:G:O4'	2.20	0.41
22:JB:625:A:H2	22:JB:626:A:HO2'	1.68	0.41
22:JB:672:C:O2'	26:JF:93:TYR:HB3	2.20	0.41
22:JB:75:C:C3'	45:JY:56:VAL:HG11	2.51	0.41
22:JB:922:A:O2'	22:JB:2244:C:P	2.79	0.41
22:JB:996:C:H2'	22:JB:997:C:H5	1.83	0.41
22:JB:1710:U:H1'	24:JD:15:GLN:NE2	2.35	0.41
22:JB:1812:U:O2'	24:JD:203:ASN:HB2	2.20	0.41
24:JD:57:GLY:H	24:JD:217:ARG:HA	1.84	0.41
22:JB:1808:C:N4	24:JD:65:ILE:HG21	2.36	0.41
24:JD:75:VAL:HB	24:JD:97:TYR:HE2	1.86	0.41
25:JE:203:LYS:O	25:JE:204:ALA:HB3	2.20	0.41
25:JE:40:GLN:C	25:JE:42:ASP:H	2.23	0.41
25:JE:61:LYS:HA	25:JE:64:GLN:OE1	2.20	0.41
27:JG:44:LYS:O	27:JG:50:ILE:HG23	2.20	0.41
27:JG:56:GLU:N	27:JG:56:GLU:OE2	2.53	0.41
28:JH:153:LYS:HA	28:JH:154:PRO:HD3	1.90	0.41
30:JJ:76:TYR:CZ	30:JJ:80:LYS:HB2	2.56	0.41
34:JN:91:VAL:O	34:JN:92:GLU:HG3	2.21	0.41
22:JB:1288:A:H2	35:JO:13:ASN:HB2	1.85	0.41
35:JO:13:ASN:N	35:JO:13:ASN:ND2	2.68	0.41
39:JS:69:ILE:CD1	39:JS:90:PHE:HB3	2.50	0.41
22:JB:1336:G:C4'	40:JT:105:ARG:HH21	2.33	0.41
40:JT:58:ARG:HH21	40:JT:65:SER:HB3	1.86	0.41
41:JU:11:VAL:HG21	41:JU:26:SER:HB2	2.02	0.41
22:JB:491:A:H4'	42:JV:72:ARG:HG2	2.02	0.41
46:JZ:17:VAL:C	46:JZ:19:THR:H	2.24	0.41
1:AA:1022:G:N3	1:AA:1022:G:H2'	2.36	0.41
1:AA:1129:C:O5'	1:AA:1130:A:H5'	2.20	0.41
1:AA:1129:C:O2'	1:AA:1130:A:P	2.78	0.41
1:AA:1421:G:N2	1:AA:1422:G:H1'	2.36	0.41
1:AA:1489:G:H2'	1:AA:1490:C:O4'	2.20	0.41
1:AA:1517:G:C8	22:BB:1902:A:C3'	2.79	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:615:C:H2'	1:AA:616:G:H8	1.83	0.41
1:AA:642:A:H2'	1:AA:643:C:C6	2.56	0.41
1:AA:714:G:H2'	1:AA:715:A:C8	2.56	0.41
1:AA:771:G:H2'	1:AA:772:U:C6	2.56	0.41
1:AA:92:G:H2'	1:AA:93:U:C6	2.55	0.41
2:AB:54:THR:O	2:AB:58:ILE:HG13	2.21	0.41
3:AC:35:GLU:HG2	3:AC:36:ASP:N	2.33	0.41
6:AF:6:VAL:HA	6:AF:89:MET:O	2.21	0.41
7:AG:15:ASP:CB	7:AG:20:ASP:H	2.33	0.41
7:AG:49:ILE:CG2	7:AG:124:LEU:HD12	2.51	0.41
7:AG:66:VAL:O	7:AG:70:LYS:HG3	2.21	0.41
8:AH:102:ARG:NE	8:AH:125:ARG:HH22	2.18	0.41
1:AA:951:G:H1'	13:AM:126:LYS:HB3	1.84	0.41
15:AO:11:VAL:O	15:AO:16:ALA:HB2	2.21	0.41
17:AQ:65:ILE:N	17:AQ:65:ILE:HD12	2.36	0.41
20:AT:15:ARG:HA	20:AT:18:GLN:OE1	2.21	0.41
23:BA:70:C:H2'	23:BA:71:G:O4'	2.21	0.41
22:BB:1074:G:C2	30:BJ:133:SER:OG	2.73	0.41
22:BB:1091:C:C6	30:BJ:126:THR:HA	2.56	0.41
22:BB:1247:U:H2'	22:BB:1248:G:C8	2.56	0.41
22:BB:129:A:OP2	22:BB:129:A:H8	2.04	0.41
22:BB:1329:U:H5'	22:BB:1405:A:H1'	2.03	0.41
22:BB:162:C:O2'	22:BB:163:A:H5'	2.21	0.41
22:BB:1639:U:H2'	22:BB:1640:C:C6	2.56	0.41
22:BB:1742:G:N2	22:BB:1747:G:H1	2.19	0.41
22:BB:1791:C:N4	22:BB:1810:U:H1'	2.36	0.41
22:BB:1820:G:HO2'	22:BB:1821:A:P	2.44	0.41
22:BB:1914:U:H5	22:BB:1951:G:N1	2.19	0.41
22:BB:1993:G:H2'	22:BB:1994:U:C6	2.55	0.41
22:BB:2000:U:H1'	48:B2:8:LYS:O	2.21	0.41
22:BB:2461:G:C2	34:BN:53:ILE:HB	2.42	0.41
22:BB:2492:G:H2'	22:BB:2493:U:C6	2.55	0.41
22:BB:2557:G:H2'	22:BB:2558:C:O4'	2.21	0.41
22:BB:2576:G:H2'	22:BB:2577:A:H8	1.84	0.41
22:BB:2649:A:H2'	22:BB:2650:G:O4'	2.20	0.41
22:BB:3114:A:H2'	22:BB:3115:G:O4'	2.21	0.41
22:BB:321:A:C2	22:BB:1223:G:N1	2.88	0.41
22:BB:468:A:O2'	22:BB:470:U:H5'	2.20	0.41
22:BB:482:A:H2'	22:BB:483:A:O4'	2.20	0.41
22:BB:686:C:H2'	26:BF:68:ARG:CZ	2.50	0.41
22:BB:839:U:H2'	22:BB:841:G:C8	2.56	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:BB:882:C:H2'	22:BB:883:A:C8	2.55	0.41
24:BD:213:ARG:NE	24:BD:219:PRO:HA	2.30	0.41
24:BD:31:LYS:HE3	24:BD:33:LEU:O	2.21	0.41
24:BD:46:ARG:CG	24:BD:47:GLY:N	2.82	0.41
26:BF:150:LEU:HD13	26:BF:158:ARG:HH22	1.84	0.41
27:BG:56:GLU:OE2	27:BG:56:GLU:N	2.53	0.41
32:BL:123:PHE:CB	32:BL:126:ILE:HB	2.51	0.41
25:BE:18:ASP:OD1	32:BL:84:ALA:HB1	2.21	0.41
34:BN:34:GLY:O	34:BN:35:LEU:HB2	2.20	0.41
34:BN:78:LYS:NZ	34:BN:78:LYS:HB2	2.36	0.41
35:BO:100:VAL:HG12	35:BO:109:THR:CG2	2.50	0.41
22:BB:2826:C:C4'	35:BO:64:ARG:HH12	2.34	0.41
39:BS:22:VAL:HG13	39:BS:90:PHE:CZ	2.55	0.41
42:BV:44:GLN:HG3	42:BV:44:GLN:O	2.21	0.41
42:BV:76:LEU:HB3	42:BV:80:LYS:HZ1	1.85	0.41
43:BW:72:ASP:HB2	43:BW:78:PRO:CA	2.51	0.41
22:BB:1197:U:P	46:BZ:26:ARG:HH12	2.37	0.41
1:CA:1203:C:H2'	1:CA:1204:A:O4'	2.20	0.41
1:CA:1323:G:OP1	13:CM:100:GLY:CA	2.69	0.41
1:CA:1372:U:O2'	1:CA:1373:G:H5'	2.21	0.41
1:CA:1394:A:H8	1:CA:1501:C:HO2'	1.66	0.41
1:CA:8:A:C2	4:CD:209:ARG:HG2	2.56	0.41
2:CB:162:ILE:HG22	2:CB:163:PHE:O	2.20	0.41
2:CB:62:ALA:HB1	2:CB:225:ALA:HB3	2.03	0.41
3:CC:40:ARG:NH1	3:CC:40:ARG:HG3	2.36	0.41
4:CD:144:ASP:HB2	4:CD:185:PHE:CE1	2.56	0.41
1:CA:436:C:C4'	4:CD:156:GLU:CA	2.99	0.41
5:CE:72:GLN:HE22	5:CE:77:PRO:HB3	1.86	0.41
6:CF:52:ILE:HG22	6:CF:53:ALA:N	2.36	0.41
7:CG:32:ARG:O	7:CG:33:ASP:HB2	2.20	0.41
7:CG:92:SER:C	7:CG:96:GLN:HE21	2.24	0.41
1:CA:640:A:N3	8:CH:115:SER:HB2	2.36	0.41
1:CA:1349:A:O3'	9:CI:121:ARG:CG	2.69	0.41
1:CA:1231:G:H4'	9:CI:126:SER:CB	2.50	0.41
15:CO:61:GLY:HA3	15:CO:65:ARG:NH1	2.35	0.41
17:CQ:74:LEU:HB2	17:CQ:75:ARG:H	1.75	0.41
6:CF:46:ARG:NH2	18:CR:35:ARG:NH1	2.62	0.41
18:CR:44:LEU:HG	18:CR:45:SER:N	2.35	0.41
19:CS:38:SER:O	19:CS:70:LYS:HA	2.21	0.41
1:CA:986:A:C1'	19:CS:55:LYS:HG3	2.50	0.41
50:D4:18:PHE:HE2	50:D4:45:SER:HB2	1.85	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:DB:1136:G:H5''	52:D6:4:ARG:HH21	1.86	0.41
22:DB:1329:U:H5'	22:DB:1405:A:H1'	2.03	0.41
22:DB:1674:C:P	25:DE:134:TRP:CB	3.02	0.41
22:DB:1825:C:H2'	22:DB:1826:U:H6	1.85	0.41
22:DB:427:C:P	22:DB:1862:C:HO2'	2.32	0.41
22:DB:1872:A:H2'	22:DB:1873:A:C8	2.56	0.41
22:DB:2018:G:N3	22:DB:2018:G:O4'	2.54	0.41
22:DB:2215:C:H2'	22:DB:2216:G:O4'	2.21	0.41
22:DB:2218:G:O4'	24:DD:248:THR:HG23	2.21	0.41
22:DB:2434:G:H2'	22:DB:2435:C:C5	2.55	0.41
22:DB:2713:A:H61	25:DE:203:LYS:CD	2.32	0.41
22:DB:295:C:N4	22:DB:368:A:H61	2.19	0.41
22:DB:483:A:O2'	22:DB:484:G:H5'	2.21	0.41
22:DB:48:A:H61	22:DB:153:A:H61	1.63	0.41
22:DB:841:G:C2'	22:DB:841:G:N3	2.84	0.41
22:DB:863:C:O2'	22:DB:864:C:H5'	2.21	0.41
22:DB:916:U:C6	43:DW:163:ASP:CA	3.04	0.41
22:DB:930:A:P	23:DA:100:G:HO2'	2.44	0.41
22:DB:964:A:N1	22:DB:975:C:N3	2.68	0.41
22:DB:984:A:H5'	22:DB:1202:U:H1'	2.03	0.41
24:DD:239:ARG:HH22	24:DD:240:THR:C	2.24	0.41
25:DE:26:VAL:CG1	37:DQ:3:THR:CG2	2.53	0.41
22:DB:2614:A:H5''	25:DE:78:LEU:N	2.35	0.41
26:DF:149:LEU:HD23	26:DF:150:LEU:N	2.36	0.41
28:DH:111:HIS:HA	28:DH:112:PRO:HD2	1.85	0.41
28:DH:117:PRO:HG3	28:DH:123:PHE:HE1	1.86	0.41
29:DI:50:LEU:O	29:DI:51:ARG:HG3	2.21	0.41
33:DM:114:ILE:HG21	33:DM:135:ALA:C	2.41	0.41
22:DB:845:U:H5'	33:DM:41:SER:OG	2.20	0.41
37:DQ:80:VAL:CG2	37:DQ:111:ARG:HE	2.33	0.41
25:DE:52:ALA:CB	37:DQ:5:ILE:HG12	2.50	0.41
37:DQ:5:ILE:HD12	37:DQ:6:LYS:H	1.85	0.41
37:DQ:55:ILE:CB	37:DQ:71:ILE:HG12	2.51	0.41
41:DU:77:LYS:HZ3	41:DU:79:ILE:HD11	1.84	0.41
42:DV:76:LEU:HB3	42:DV:80:LYS:HZ3	1.85	0.41
22:DB:869:C:C2	44:DX:24:LYS:HG2	2.49	0.41
44:DX:32:LYS:HG3	44:DX:33:ALA:N	2.36	0.41
44:DX:46:LYS:HE2	44:DX:48:GLY:HA2	2.02	0.41
1:EA:1187:G:O5'	9:EI:113:LYS:HD3	2.12	0.41
1:EA:1259:C:H42	1:EA:1274:G:H22	1.68	0.41
1:EA:1281:U:O2'	1:EA:1282:C:P	2.78	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:EA:1342:C:H2'	1:EA:1343:G:C8	2.56	0.41
1:EA:137:C:N3	1:EA:226:G:N1	2.69	0.41
1:EA:316:G:OP2	1:EA:351:G:H3'	2.20	0.41
1:EA:356:A:O2'	1:EA:368:U:H4'	2.20	0.41
1:EA:51:A:H4'	1:EA:52:G:OP2	2.20	0.41
1:EA:540:G:H2'	1:EA:541:G:C8	2.56	0.41
1:EA:615:C:H2'	1:EA:616:G:H8	1.84	0.41
1:EA:877:C:C5'	8:EH:84:ARG:HD3	2.50	0.41
1:EA:923:A:H2'	1:EA:924:C:C6	2.56	0.41
1:EA:92:G:H2'	1:EA:93:U:C6	2.55	0.41
3:EC:129:ALA:C	3:EC:133:ALA:HB2	2.41	0.41
4:ED:205:GLU:HB2	5:EE:101:ILE:HA	1.98	0.41
5:EE:121:LYS:CG	5:EE:123:LEU:HG	2.51	0.41
1:EA:653:A:C6	8:EH:27:PRO:CB	2.95	0.41
11:EK:58:PRO:O	11:EK:93:GLN:HB2	2.21	0.41
1:EA:111:G:C5'	16:EP:27:LYS:CB	2.96	0.41
16:EP:59:TRP:HB3	16:EP:64:ALA:HB3	2.02	0.41
49:F3:25:THR:HA	51:F5:35:GLY:HA3	2.03	0.41
22:FB:1018:C:P	22:FB:1019:U:H3'	2.60	0.41
22:FB:1118:G:O2'	22:FB:1119:U:H5'	2.20	0.41
22:FB:1139:A:N6	22:FB:2469:G:H5'	2.36	0.41
22:FB:1141:U:H4'	22:FB:1142:G:O5'	2.19	0.41
22:FB:1140:A:H5'	22:FB:1142:G:P	2.61	0.41
22:FB:123:A:P	50:F4:14:LYS:HD3	2.61	0.41
22:FB:129:A:OP2	22:FB:129:A:H8	2.04	0.41
22:FB:1507:A:H61	22:FB:2188:A:C5'	2.34	0.41
22:FB:1597:A:H2'	22:FB:1598:C:O4'	2.21	0.41
22:FB:1285:A:N3	22:FB:1634:A:H1'	2.36	0.41
22:FB:1683:G:OP1	32:FL:92:ASP:C	2.58	0.41
22:FB:1933:G:H2'	22:FB:1934:U:C5	2.56	0.41
22:FB:1969:G:H2'	22:FB:1970:G:C8	2.56	0.41
22:FB:2286:G:H2'	22:FB:2286:G:N3	2.36	0.41
22:FB:2260:C:C3'	22:FB:2368:G:H21	2.33	0.41
22:FB:2448:A:O2'	34:FN:57:ARG:CD	2.65	0.41
22:FB:2649:A:H2'	22:FB:2650:G:O4'	2.20	0.41
22:FB:2660:C:C2	22:FB:2707:G:N2	2.89	0.41
22:FB:2660:C:N3	22:FB:2707:G:N2	2.69	0.41
22:FB:295:C:N4	22:FB:368:A:H61	2.19	0.41
22:FB:482:A:H2'	22:FB:483:A:O4'	2.20	0.41
22:FB:483:A:O2'	22:FB:484:G:H5'	2.21	0.41
22:FB:545:C:H2'	22:FB:546:A:O4'	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:FB:54:G:H2'	22:FB:55:A:H8	1.84	0.41
22:FB:574:C:H2'	22:FB:575:U:O4'	2.20	0.41
22:FB:72:A:H62	41:FU:75:ARG:NH1	2.18	0.41
22:FB:990:A:H2'	22:FB:993:C:N4	2.35	0.41
24:FD:143:HIS:HA	24:FD:161:THR:HB	2.02	0.41
22:FB:1810:U:C2	24:FD:154:GLN:OE1	2.73	0.41
25:FE:144:ARG:HB2	25:FE:145:LYS:H	1.45	0.41
28:FH:103:LEU:H	28:FH:117:PRO:HG2	1.86	0.41
28:FH:45:GLN:HG2	28:FH:47:GLY:H	1.86	0.41
32:FL:21:CYS:HA	32:FL:53:ALA:CA	2.50	0.41
32:FL:59:ALA:HB1	32:FL:60:PRO:HD2	2.03	0.41
32:FL:78:SER:HA	32:FL:90:ARG:CG	2.51	0.41
33:FM:46:GLY:O	33:FM:48:PHE:N	2.54	0.41
33:FM:94:GLU:OE2	33:FM:99:VAL:HG11	2.21	0.41
34:FN:32:ASP:HB2	34:FN:33:TYR:H	1.71	0.41
34:FN:44:LYS:HB3	34:FN:44:LYS:HZ3	1.86	0.41
22:FB:2684:A:C2	35:FO:60:LEU:HD23	2.56	0.41
38:FR:80:ILE:C	38:FR:82:GLY:H	2.23	0.41
41:FU:11:VAL:HG21	41:FU:26:SER:HB2	2.02	0.41
43:FW:72:ASP:HB2	43:FW:78:PRO:CA	2.51	0.41
44:FX:41:ARG:O	44:FX:66:LYS:HA	2.21	0.41
1:GA:1043:C:H2'	1:GA:1044:A:C8	2.56	0.41
1:GA:1209:C:O2'	1:GA:1210:C:H5'	2.21	0.41
1:GA:1248:A:C4	9:GI:70:LYS:CD	3.04	0.41
1:GA:1277:C:H4'	1:GA:1282:C:C4	2.55	0.41
1:GA:135:C:H6	1:GA:135:C:O5'	2.03	0.41
1:GA:929:G:P	1:GA:1533:C:H42	2.40	0.41
1:GA:545:C:H2'	1:GA:546:G:C8	2.54	0.41
1:GA:559:A:N1	5:GE:126:ARG:HD2	2.35	0.41
1:GA:642:A:H2'	1:GA:643:C:C6	2.56	0.41
1:GA:812:C:HO2'	1:GA:813:U:P	2.44	0.41
1:GA:919:A:N3	1:GA:1080:A:N1	2.68	0.41
1:GA:8:A:O2'	1:GA:9:G:H5'	2.20	0.41
2:GB:155:LEU:HD13	2:GB:157:ARG:O	2.21	0.41
2:GB:171:ALA:HA	2:GB:174:VAL:CG2	2.50	0.41
3:GC:152:ILE:HB	3:GC:199:LYS:HB2	2.02	0.41
4:GD:125:HIS:HB3	4:GD:152:SER:HB3	2.02	0.41
5:GE:72:GLN:HE22	5:GE:77:PRO:HB3	1.85	0.41
7:GG:42:ILE:H	7:GG:42:ILE:HG13	1.68	0.41
7:GG:62:PHE:CD2	7:GG:63:LYS:HG3	2.56	0.41
9:GI:105:ASP:HB3	9:GI:107:ARG:HG3	2.01	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:GK:65:ALA:C	11:GK:67:ASP:H	2.23	0.41
14:GN:52:GLN:C	14:GN:53:LEU:HD23	2.41	0.41
17:GQ:64:PRO:HB3	17:GQ:70:ARG:CZ	2.51	0.41
1:AA:179:A:H4'	20:GT:100:ILE:HG23	1.40	0.41
22:HB:1376:C:C4'	47:H1:55:ARG:NH1	2.84	0.41
51:H5:36:LYS:HE2	51:H5:36:LYS:H	1.85	0.41
53:H7:117:MSE:O	53:H7:121:GLY:HA3	2.21	0.41
22:HB:419:G:O3'	53:H7:198:THR:HG23	2.21	0.41
53:H7:53:PRO:HA	53:H7:154:SER:CB	2.51	0.41
22:HB:1023:U:H3	22:HB:1152:C:H2'	1.85	0.41
22:HB:1308:C:H2'	22:HB:1309:G:O4'	2.20	0.41
22:HB:1487:C:C1'	22:HB:1536:G:H22	2.33	0.41
22:HB:1704:G:H2'	22:HB:1718:A:N6	2.35	0.41
22:HB:794:A:H1'	22:HB:1767:G:H21	1.86	0.41
22:HB:1805:G:H4'	24:HD:45:ASN:CA	2.50	0.41
22:HB:1901:A:N3	22:HB:1901:A:H2'	2.34	0.41
22:HB:210:A:N3	22:HB:210:A:H2'	2.36	0.41
22:HB:2215:C:H2'	22:HB:2216:G:O4'	2.21	0.41
22:HB:2442:C:H2'	22:HB:2443:C:C6	2.56	0.41
22:HB:2496:C:H4'	22:HB:2497:A:C2	2.56	0.41
22:HB:2506:C:H2'	22:HB:2507:U:O4'	2.21	0.41
22:HB:81:C:OP1	22:HB:306:G:O2'	2.39	0.41
22:HB:295:C:N4	22:HB:368:A:H61	2.19	0.41
22:HB:3868:U:H2'	22:HB:3869:G:O4'	2.20	0.41
22:HB:468:A:O2'	22:HB:470:U:H5'	2.20	0.41
22:HB:494:A:N3	42:HV:56:LYS:CE	2.84	0.41
22:HB:686:C:O2'	26:HF:68:ARG:NH2	2.45	0.41
22:HB:699:G:H2'	50:H4:5:TYR:HA	1.80	0.41
22:HB:729:A:H2'	22:HB:730:C:C4'	2.50	0.41
22:HB:730:C:H2'	22:HB:731:A:C5	2.56	0.41
22:HB:796:A:O3'	22:HB:2567:G:H5''	2.21	0.41
22:HB:839:U:H2'	22:HB:841:G:C8	2.56	0.41
22:HB:890:U:H1'	22:HB:912:A:N6	2.36	0.41
22:HB:996:C:H2'	22:HB:997:C:H5	1.83	0.41
22:HB:2192:U:P	24:HD:39:LYS:HZ3	2.39	0.41
25:HE:203:LYS:O	25:HE:204:ALA:HB3	2.20	0.41
26:HF:115:GLY:HA3	26:HF:185:ARG:HG3	2.03	0.41
26:HF:150:LEU:HD13	26:HF:158:ARG:HH22	1.84	0.41
27:HG:122:PHE:CG	27:HG:123:ASP:N	2.89	0.41
33:HM:114:ILE:HG21	33:HM:135:ALA:C	2.41	0.41
34:HN:86:LYS:HB2	34:HN:86:LYS:NZ	2.35	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:HL:119:ARG:NH1	37:HQ:43:ASN:C	2.74	0.41
37:HQ:28:ARG:HH22	37:HQ:96:ARG:N	2.19	0.41
22:HB:1340:C:H5''	40:HT:32:ARG:NH2	2.36	0.41
40:HT:76:LYS:N	40:HT:76:LYS:HD2	2.35	0.41
41:HU:11:VAL:HG21	41:HU:26:SER:HB2	2.02	0.41
41:HU:77:LYS:HZ3	41:HU:79:ILE:HD11	1.85	0.41
43:HW:136:VAL:HA	43:HW:147:ILE:CD1	2.51	0.41
23:HA:108:G:OP1	43:HW:89:GLY:HA3	2.21	0.41
27:FG:175:LEU:CD1	1:IA:1024:G:O6	2.68	0.41
1:IA:1342:C:H2'	1:IA:1343:G:C8	2.56	0.41
1:IA:1404:C:H1'	1:IA:1519:A:H1'	2.01	0.41
1:IA:323:U:H4'	20:IT:22:ARG:NE	2.36	0.41
1:IA:540:G:H2'	1:IA:541:G:C8	2.56	0.41
1:IA:768:A:H5''	1:IA:804:U:H5'	2.03	0.41
1:IA:925:G:C5'	1:IA:1502:A:C4	3.03	0.41
1:IA:948:C:H2'	1:IA:949:A:H8	1.86	0.41
2:IB:117:GLU:O	2:IB:120:ALA:HB3	2.20	0.41
2:IB:172:ILE:HG22	2:IB:176:GLU:OE1	2.20	0.41
3:IC:133:ALA:C	3:IC:136:GLN:HB2	2.41	0.41
3:IC:16:ARG:O	3:IC:17:ASP:C	2.59	0.41
3:IC:25:GLY:O	3:IC:28:GLN:HB2	2.21	0.41
4:ID:175:SER:O	4:ID:183:GLY:HA3	2.21	0.41
7:IG:155:ARG:O	7:IG:156:TRP:HB2	2.21	0.41
1:IA:1373:G:O4'	7:IG:34:GLY:C	2.59	0.41
9:II:97:LYS:N	9:II:98:PRO:CD	2.84	0.41
1:IA:677:U:H5'	11:IK:115:PRO:HG3	2.01	0.41
12:IL:77:LEU:HD23	12:IL:77:LEU:HA	1.90	0.41
13:IM:29:ARG:NH2	13:IM:66:LEU:HD11	2.36	0.41
14:IN:41:ARG:HA	14:IN:44:LEU:CD2	2.46	0.41
14:IN:4:LYS:HD2	14:IN:4:LYS:N	2.35	0.41
18:IR:76:LEU:C	18:IR:78:LEU:H	2.24	0.41
47:J1:41:PRO:HB2	47:J1:42:PHE:H	1.76	0.41
49:J3:10:VAL:CG1	49:J3:26:LYS:HB3	2.50	0.41
53:J7:164:GLN:HE21	53:J7:164:GLN:HB3	1.50	0.41
53:J7:185:ALA:CA	53:J7:189:ALA:HB2	2.48	0.41
22:JB:3105:G:OP1	53:J7:34:LEU:C	2.59	0.41
22:JB:1201:G:OP1	39:JS:83:ARG:HB2	2.20	0.41
22:JB:54:G:H21	22:JB:125:A:H2	1.69	0.41
22:JB:1454:U:H2'	22:JB:1455:C:C6	2.56	0.41
22:JB:210:A:H2'	22:JB:210:A:N3	2.36	0.41
22:JB:2242:C:C5	44:JX:15:ASP:OD1	2.74	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:JB:2343:C:OP1	44:JX:38:VAL:O	2.39	0.41
22:JB:1686:A:HO2'	22:JB:2528:G:P	2.44	0.41
22:JB:300:C:OP2	22:JB:301:C:H5	2.04	0.41
22:JB:352:G:H2'	22:JB:353:G:O4'	2.20	0.41
22:JB:399:G:H4'	22:JB:400:U:C4	2.55	0.41
22:JB:458:G:H4'	22:JB:461:A:H1'	2.02	0.41
22:JB:477:A:OP1	50:J4:16:HIS:CG	2.71	0.41
22:JB:496:C:O2'	22:JB:497:C:H5'	2.20	0.41
22:JB:589:C:H5''	38:JR:32:TYR:HB3	2.02	0.41
22:JB:729:A:H2'	22:JB:730:C:C4'	2.50	0.41
22:JB:72:A:OP1	45:JY:50:VAL:C	2.59	0.41
22:JB:77:C:OP1	45:JY:7:ARG:CZ	2.66	0.41
22:JB:796:A:C8	22:JB:797:A:H4'	2.56	0.41
24:JD:46:ARG:CG	24:JD:47:GLY:N	2.82	0.41
25:JE:98:GLU:CD	25:JE:175:ILE:HG13	2.41	0.41
26:JF:149:LEU:HD23	26:JF:150:LEU:N	2.36	0.41
22:JB:597:U:C2'	26:JF:84:PHE:CE2	2.80	0.41
29:JI:39:THR:OG1	29:JI:40:ARG:N	2.54	0.41
31:JK:29:VAL:HG23	38:JR:97:ASP:CB	2.50	0.41
32:JL:2:ILE:CB	32:JL:44:TYR:HB2	2.51	0.41
32:JL:90:ARG:CG	32:JL:91:PHE:N	2.84	0.41
33:JM:62:LYS:HZ2	51:J5:30:ARG:NE	2.19	0.41
34:JN:98:VAL:HG13	34:JN:100:PRO:HD3	2.02	0.41
34:JN:105:PHE:CZ	34:JN:112:GLU:HA	2.56	0.41
34:JN:70:PHE:CG	34:JN:71:PRO:HD2	2.56	0.41
36:JP:19:THR:O	36:JP:23:ALA:HB3	2.20	0.41
23:JA:49:C:C5'	36:JP:95:LYS:CG	2.95	0.41
22:JB:1745:C:O3'	37:JQ:110:LEU:HD13	2.21	0.41
22:JB:1202:U:C1'	39:JS:80:TYR:CE1	3.03	0.41
22:JB:340:G:O6	42:JV:28:LYS:O	2.11	0.41
34:JN:32:ASP:HB3	43:JW:115:ILE:HG22	2.02	0.41
43:JW:72:ASP:HB2	43:JW:78:PRO:CA	2.51	0.41
43:JW:74:ARG:NH2	43:JW:74:ARG:HG2	2.36	0.41
44:JX:46:LYS:C	44:JX:46:LYS:HZ3	2.25	0.41
1:AA:232:G:H2'	1:AA:233:C:H6	1.86	0.41
1:AA:376:G:H2'	1:AA:377:G:H8	1.82	0.41
1:AA:421:U:OP1	3:AC:127:ARG:NH2	2.54	0.41
1:AA:694:A:H5'	11:AK:53:SER:N	2.35	0.41
1:AA:761:G:H2'	1:AA:762:C:C6	2.56	0.41
1:AA:870:U:H4'	1:AA:871:U:O5'	2.20	0.41
1:AA:908:A:H2'	1:AA:909:A:H8	1.86	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:912:C:H2'	1:AA:913:A:C8	2.55	0.41
1:AA:923:A:H2'	1:AA:924:C:C6	2.56	0.41
2:AB:132:LYS:C	2:AB:134:GLU:H	2.23	0.41
2:AB:69:LEU:HD22	2:AB:162:ILE:HG23	2.02	0.41
3:AC:50:ALA:HB1	3:AC:70:VAL:HG11	2.03	0.41
4:AD:133:VAL:HG12	4:AD:135:LEU:H	1.86	0.41
4:AD:29:PRO:HG3	4:AD:34:GLU:CG	2.51	0.41
7:AG:108:ALA:CA	7:AG:111:ARG:HD2	2.51	0.41
7:AG:62:PHE:CD2	7:AG:63:LYS:HG3	2.56	0.41
8:AH:1:MET:HG2	8:AH:2:LEU:N	2.31	0.41
8:AH:26:VAL:HG13	8:AH:59:LEU:CD1	2.51	0.41
10:AJ:65:LEU:CB	14:AN:55:GLY:O	2.69	0.41
13:AM:20:THR:HG23	13:AM:26:GLY:CA	2.49	0.41
15:AO:16:ALA:HA	15:AO:26:GLU:CB	2.51	0.41
16:AP:51:VAL:HB	16:AP:79:VAL:HG13	2.01	0.41
17:AQ:65:ILE:CD1	17:AQ:70:ARG:HA	2.51	0.41
17:AQ:81:ARG:CZ	17:AQ:84:LEU:HD12	2.50	0.41
48:B2:45:ILE:HG12	48:B2:52:TYR:N	2.36	0.41
51:B5:27:SER:CB	51:B5:30:ARG:HH12	2.32	0.41
53:B7:164:GLN:HE21	53:B7:164:GLN:HB3	1.50	0.41
22:BB:3124:G:HO2'	53:B7:208:THR:HG23	1.85	0.41
22:BB:1095:A:C2	22:BB:1116:U:H4'	2.56	0.41
22:BB:1140:A:H3'	31:BK:107:GLN:CG	2.50	0.41
22:BB:1166:A:C6	22:BB:1168:G:C8	3.09	0.41
22:BB:144:U:H2'	22:BB:145:C:C6	2.55	0.41
22:BB:1788:C:O3'	24:BD:257:LEU:HD12	2.20	0.41
22:BB:1872:A:H2'	22:BB:1873:A:C8	2.56	0.41
22:BB:1899:A:H2'	22:BB:1900:U:C6	2.55	0.41
22:BB:1969:G:H2'	22:BB:1970:G:C8	2.56	0.41
22:BB:2214:G:H2'	22:BB:2215:C:C6	2.56	0.41
22:BB:2215:C:H2'	22:BB:2216:G:O4'	2.21	0.41
22:BB:2528:G:H2'	22:BB:2529:G:H5'	2.02	0.41
22:BB:2814:G:H21	35:BO:92:GLY:H	0.69	0.41
22:BB:349:G:N7	22:BB:350:U:N3	2.69	0.41
22:BB:483:A:O2'	22:BB:484:G:H5'	2.21	0.41
22:BB:574:C:H2'	22:BB:575:U:O4'	2.20	0.41
22:BB:744:C:H2'	22:BB:745:C:C6	2.55	0.41
22:BB:841:G:C2'	22:BB:841:G:N3	2.84	0.41
22:BB:890:U:H1'	22:BB:912:A:N6	2.36	0.41
22:BB:964:A:N1	22:BB:975:C:N3	2.68	0.41
22:BB:984:A:H5'	22:BB:1202:U:H1'	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:BB:2558:C:C5'	25:BE:132:LYS:CB	2.97	0.41
22:BB:2035:G:C4'	25:BE:142:GLY:HA3	2.51	0.41
25:BE:143:GLN:HB2	25:BE:144:ARG:NE	2.36	0.41
26:BF:14:THR:OG1	26:BF:195:ILE:HD11	2.21	0.41
28:BH:69:ARG:CZ	28:BH:69:ARG:HB3	2.50	0.41
29:BI:8:PRO:HB2	29:BI:9:SER:H	1.59	0.41
31:BK:83:ILE:HG22	31:BK:84:ASN:N	2.35	0.41
31:BK:93:LYS:C	31:BK:94:LYS:HZ3	2.24	0.41
37:BQ:80:VAL:CG2	37:BQ:111:ARG:HE	2.33	0.41
43:BW:136:VAL:HA	43:BW:147:ILE:CD1	2.51	0.41
43:BW:168:VAL:HG12	43:BW:169:VAL:H	1.86	0.41
1:CA:17:U:H1'	1:CA:1079:G:O2'	2.21	0.41
1:CA:1216:G:H2'	1:CA:1217:C:C5	2.56	0.41
1:CA:137:C:N3	1:CA:226:G:N1	2.69	0.41
1:CA:767:A:H2	1:CA:1511:G:H21	1.58	0.41
1:CA:197:A:O2'	1:CA:198:G:P	2.78	0.41
1:CA:232:G:H2'	1:CA:233:C:H6	1.86	0.41
1:CA:274:A:H3'	17:CQ:14:LYS:HE3	1.77	0.41
1:CA:344:A:HO2'	1:CA:345:C:P	2.44	0.41
1:CA:407:G:C2'	4:CD:116:GLN:CB	2.99	0.41
1:CA:430:A:P	4:CD:8:VAL:CB	3.06	0.41
1:CA:545:C:H2'	1:CA:546:G:C8	2.54	0.41
1:CA:627:G:O2'	1:CA:628:G:H5'	2.21	0.41
1:CA:735:C:H2'	1:CA:736:C:C6	2.56	0.41
1:CA:771:G:H2'	1:CA:772:U:C6	2.56	0.41
1:CA:912:C:H2'	1:CA:913:A:C8	2.55	0.41
2:CB:25:ASN:HB2	2:CB:191:ASP:CA	2.51	0.41
3:CC:130:VAL:O	3:CC:133:ALA:HB3	2.21	0.41
4:CD:57:ARG:HB3	4:CD:206:PHE:HB2	2.02	0.41
1:CA:15:G:C4'	5:CE:24:ARG:CZ	2.70	0.41
1:CA:827:U:C5'	8:CH:21:LYS:HE2	2.39	0.41
1:CA:1350:A:C5	9:CI:118:LYS:HE3	2.54	0.41
9:CI:46:ALA:HB2	9:CI:74:ILE:CG2	2.51	0.41
3:CC:23:TYR:CG	10:CJ:93:GLY:O	2.74	0.41
12:CL:15:ARG:HB3	12:CL:17:LYS:N	2.36	0.41
13:CM:86:CYS:SG	13:CM:98:VAL:HG11	2.61	0.41
1:CA:740:U:H1'	15:CO:52:SER:HB3	2.02	0.41
16:CP:26:ARG:HB3	16:CP:27:LYS:H	1.64	0.41
1:CA:229:U:C5'	16:CP:33:ILE:CD1	2.98	0.41
1:CA:761:G:P	17:CQ:102:GLY:N	2.93	0.41
1:CA:278:G:H8	17:CQ:41:LYS:HZ1	1.68	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:CS:12:ASP:HB3	19:CS:14:HIS:NE2	2.36	0.41
20:CT:19:SER:HA	20:CT:22:ARG:NE	2.35	0.41
48:D2:45:ILE:HG12	48:D2:52:TYR:N	2.36	0.41
51:D5:52:LYS:HA	51:D5:54:GLU:OE2	2.21	0.41
23:DA:68:A:O4'	23:DA:68:A:N3	2.53	0.41
22:DB:1111:C:H2'	22:DB:1112:U:O4'	2.21	0.41
22:DB:1140:A:H5'	22:DB:1142:G:P	2.61	0.41
22:DB:11:G:O2'	22:DB:12:U:H5'	2.20	0.41
22:DB:1247:U:H2'	22:DB:1248:G:C8	2.56	0.41
22:DB:1248:G:H2'	22:DB:1249:G:C8	2.56	0.41
22:DB:126:C:H2'	22:DB:127:C:C5	2.55	0.41
22:DB:1762:C:H5'	22:DB:1921:A:N7	2.36	0.41
22:DB:1924:C:N4	22:DB:1948:C:H4'	2.36	0.41
22:DB:588:G:C5'	22:DB:2001:G:H5''	2.42	0.41
22:DB:2557:G:H2'	22:DB:2558:C:O4'	2.21	0.41
22:DB:2745:A:N6	22:DB:2746:G:C5	2.89	0.41
22:DB:468:A:O2'	22:DB:470:U:H5'	2.20	0.41
22:DB:502:A:O2'	40:DT:30:TYR:CE2	2.73	0.41
22:DB:814:G:O4'	22:DB:814:G:N3	2.54	0.41
22:DB:839:U:H2'	22:DB:841:G:C8	2.56	0.41
22:DB:990:A:H2'	22:DB:993:C:N4	2.35	0.41
22:DB:1783:G:H5'	24:DD:205:VAL:CG2	2.51	0.41
24:DD:257:LEU:HB3	24:DD:258:LYS:H	1.43	0.41
26:DF:158:ARG:NH1	26:DF:169:VAL:HG23	2.36	0.41
27:DG:108:LEU:N	27:DG:109:PRO:CD	2.84	0.41
27:DG:13:ARG:HB3	27:DG:14:PRO:CD	2.45	0.41
31:DK:78:ASP:N	31:DK:147:ARG:HH22	2.18	0.41
31:DK:43:VAL:HG23	31:DK:166:LEU:H	1.86	0.41
34:DN:105:PHE:CZ	34:DN:112:GLU:HA	2.56	0.41
38:DR:33:ARG:HH21	38:DR:34:ASN:ND2	2.15	0.41
39:DS:52:GLY:C	39:DS:54:TYR:H	2.25	0.41
42:DV:92:THR:O	42:DV:107:ALA:HA	2.20	0.41
1:EA:1022:G:N3	1:EA:1022:G:H2'	2.36	0.41
1:EA:1203:C:H2'	1:EA:1204:A:O4'	2.21	0.41
1:EA:1205:U:O3'	3:EC:195:VAL:HG23	2.06	0.41
1:EA:1266:G:C8	1:IA:1273:G:H4'	2.55	0.41
1:EA:276:G:H2'	1:EA:277:C:C6	2.56	0.41
1:EA:632:A:N3	17:EQ:30:PRO:CG	2.81	0.41
1:EA:761:G:H2'	1:EA:762:C:C6	2.56	0.41
1:EA:771:G:H2'	1:EA:772:U:C6	2.56	0.41
1:EA:957:U:O4	1:EA:960:U:H5''	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:EB:132:LYS:C	2:EB:134:GLU:H	2.23	0.41
2:EB:22:LYS:HE2	2:EB:22:LYS:HB3	1.93	0.41
2:EB:74:LYS:HD3	2:EB:165:VAL:CG1	2.50	0.41
2:EB:98:LEU:H	2:EB:101:MET:CE	2.34	0.41
3:EC:141:VAL:O	3:EC:146:ALA:HB3	2.21	0.41
3:EC:16:ARG:O	3:EC:17:ASP:C	2.59	0.41
3:EC:35:GLU:HG2	3:EC:36:ASP:N	2.33	0.41
4:ED:10:ARG:HE	4:ED:14:ARG:NH2	2.19	0.41
4:ED:18:LYS:HG2	4:ED:19:LEU:N	2.35	0.41
4:ED:57:ARG:HB3	4:ED:206:PHE:HB2	2.02	0.41
10:EJ:94:VAL:HG12	10:EJ:95:GLU:N	2.35	0.41
1:EA:1226:C:C6	13:EM:103:THR:OG1	2.74	0.41
14:EN:39:LEU:O	14:EN:44:LEU:HD13	2.21	0.41
14:EN:52:GLN:C	14:EN:53:LEU:HD23	2.41	0.41
17:EQ:4:LYS:O	17:EQ:60:ILE:HG12	2.21	0.41
48:F2:6:VAL:CB	48:F2:7:PRO:HD2	2.51	0.41
49:F3:16:ALA:HB1	49:F3:48:VAL:HG13	2.03	0.41
53:F7:111:LEU:HD21	53:F7:151:PHE:HB2	2.03	0.41
22:FB:10:A:O3'	22:FB:11:G:OP2	2.37	0.41
22:FB:1329:U:H5'	22:FB:1405:A:H1'	2.03	0.41
22:FB:1613:G:C5'	22:FB:1614:C:O4'	2.56	0.41
22:FB:1742:G:N2	22:FB:1747:G:H1	2.19	0.41
22:FB:1810:U:C4	24:FD:154:GLN:HG2	2.56	0.41
22:FB:1820:G:HO2'	22:FB:1821:A:P	2.44	0.41
22:FB:1887:G:C5	22:FB:1888:C:C6	3.08	0.41
22:FB:1940:C:O2'	22:FB:1941:C:H5'	2.20	0.41
22:FB:2045:A:H1'	22:FB:2421:C:OP2	2.21	0.41
22:FB:2241:U:OP1	44:FX:15:ASP:C	2.59	0.41
22:FB:2258:G:C2	22:FB:2306:A:C2	3.09	0.41
22:FB:226:C:OP2	47:F1:28:ARG:NH1	2.54	0.41
22:FB:1966:C:H4'	22:FB:2585:C:H5''	2.02	0.41
22:FB:2701:A:N3	35:FO:6:ALA:CB	2.84	0.41
22:FB:2701:A:C4	22:FB:2848:A:N7	2.89	0.41
22:FB:312:G:OP1	42:FV:90:LYS:HD3	2.21	0.41
22:FB:3168:G:H2'	22:FB:3170:A:OP2	2.21	0.41
22:FB:423:G:H2'	22:FB:2386:G:C8	2.55	0.41
22:FB:470:U:O2'	41:FU:68:PHE:CD2	2.55	0.41
22:FB:504:G:O3'	40:FT:25:PHE:CE2	2.68	0.41
22:FB:730:C:H2'	22:FB:731:A:C5	2.56	0.41
22:FB:841:G:C2'	22:FB:841:G:N3	2.84	0.41
22:FB:847:C:O2'	22:FB:2337:A:C1'	2.64	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:FD:141:VAL:HB	24:FD:195:ALA:HA	2.02	0.41
24:FD:212:SER:CA	24:FD:215:LEU:HB2	2.50	0.41
24:FD:75:VAL:HB	24:FD:97:TYR:HE2	1.86	0.41
25:FE:107:THR:CA	25:FE:164:ARG:HH22	2.34	0.41
25:FE:61:LYS:HA	25:FE:64:GLN:OE1	2.20	0.41
26:FF:14:THR:OG1	26:FF:195:ILE:HD11	2.21	0.41
27:FG:120:ASN:C	27:FG:122:PHE:HD1	2.24	0.41
32:FL:90:ARG:CG	32:FL:91:PHE:N	2.84	0.41
33:FM:82:ASP:HA	33:FM:118:VAL:CG1	2.51	0.41
22:FB:596:C:C5'	33:FM:28:LYS:HZ3	2.07	0.41
37:FQ:55:ILE:CB	37:FQ:71:ILE:HG12	2.50	0.41
22:FB:592:G:OP2	38:FR:10:ARG:NH2	2.54	0.41
39:FS:24:SER:HB2	39:FS:28:GLU:OE2	2.21	0.41
39:FS:52:GLY:C	39:FS:54:TYR:H	2.24	0.41
22:FB:1234:C:C4'	39:FS:68:LYS:HD3	2.51	0.41
42:FV:46:VAL:CG1	42:FV:77:HIS:HA	2.51	0.41
45:FY:25:LEU:HB3	45:FY:47:ARG:HH22	1.86	0.41
1:GA:1023:G:H2'	1:GA:1024:G:C4'	2.43	0.41
1:GA:1216:G:H2'	1:GA:1217:C:C5	2.56	0.41
1:GA:1376:U:H5''	7:GG:95:ARG:HH12	1.86	0.41
1:GA:815:A:C6	1:GA:1508:G:N2	2.85	0.41
1:GA:264:U:H3	17:GQ:64:PRO:HG2	1.24	0.41
1:GA:300:A:C2'	1:GA:301:G:H5'	2.50	0.41
1:GA:332:G:H5''	20:GT:13:LEU:CD1	2.39	0.41
1:GA:363:A:O2'	1:GA:364:A:H5'	2.20	0.41
1:GA:761:G:H2'	1:GA:762:C:C6	2.56	0.41
1:GA:768:A:H5''	1:GA:804:U:H5'	2.03	0.41
1:GA:912:C:H2'	1:GA:913:A:C8	2.55	0.41
1:GA:923:A:H2'	1:GA:924:C:C6	2.56	0.41
1:GA:948:C:H2'	1:GA:949:A:H8	1.86	0.41
4:GD:144:ASP:HB2	4:GD:185:PHE:CE1	2.56	0.41
5:GE:127:ASN:O	5:GE:129:ILE:N	2.54	0.41
7:GG:16:LEU:HD22	7:GG:16:LEU:N	2.36	0.41
9:GI:46:ALA:HB2	9:GI:74:ILE:CG2	2.51	0.41
1:GA:677:U:C1'	11:GK:119:CYS:SG	3.09	0.41
13:GM:91:ARG:CB	13:GM:98:VAL:HG22	2.50	0.41
14:GN:48:ALA:O	14:GN:53:LEU:HD21	2.21	0.41
15:GO:38:ARG:N	15:GO:38:ARG:HD3	2.36	0.41
16:GP:16:HIS:CD2	16:GP:40:ASP:HA	2.56	0.41
16:GP:67:THR:HG22	16:GP:68:ASP:N	2.36	0.41
19:GS:28:LYS:HE2	19:GS:29:ARG:O	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:HB:1374:G:C5'	47:H1:53:GLU:HB2	2.22	0.41
49:H3:11:LYS:NZ	49:H3:11:LYS:HB2	2.25	0.41
22:HB:417:C:H4'	53:H7:1:MET:CE	2.51	0.41
23:HA:90:C:O2'	23:HA:91:A:H5'	2.20	0.41
22:HB:129:A:H8	22:HB:129:A:OP2	2.04	0.41
22:HB:1369:G:H2'	22:HB:1370:U:O4'	2.21	0.41
22:HB:1378:A:C5'	47:H1:11:PRO:HB3	2.37	0.41
22:HB:13:A:H61	22:HB:535:U:C2'	2.32	0.41
22:HB:1625:A:C2'	22:HB:1625:A:N3	2.82	0.41
22:HB:1791:C:H1'	22:HB:1793:A:C5'	2.51	0.41
22:HB:1872:A:H2'	22:HB:1873:A:C8	2.56	0.41
22:HB:2060:A:H1'	22:HB:2414:A:O4'	2.21	0.41
22:HB:2398:U:O4'	49:H3:21:TYR:CZ	2.74	0.41
22:HB:2434:G:H2'	22:HB:2435:C:C5	2.55	0.41
22:HB:349:G:N7	22:HB:350:U:N3	2.69	0.41
22:HB:352:G:H2'	22:HB:353:G:O4'	2.20	0.41
22:HB:43:A:C2'	22:HB:44:G:H5'	2.50	0.41
22:HB:487:G:N2	22:HB:491:A:N6	2.56	0.41
22:HB:596:C:H4'	22:HB:597:U:C2	2.56	0.41
24:HD:68:LYS:CE	24:HD:144:ALA:HB1	2.51	0.41
24:HD:31:LYS:HE3	24:HD:33:LEU:O	2.21	0.41
25:HE:108:SER:O	25:HE:109:LYS:HG2	2.20	0.41
31:HK:43:VAL:HB	31:HK:167:LYS:H	1.86	0.41
32:HL:24:VAL:HG23	32:HL:51:ILE:HD12	2.03	0.41
34:HN:68:ARG:HD2	34:HN:101:GLY:CA	2.51	0.41
35:HO:38:LEU:HD13	35:HO:38:LEU:N	2.36	0.41
22:HB:2815:C:C4'	35:HO:92:GLY:CA	2.99	0.41
37:HQ:80:VAL:CG2	37:HQ:111:ARG:HE	2.34	0.41
38:HR:24:PHE:C	38:HR:28:ARG:HH11	2.24	0.41
41:HU:29:VAL:HG12	41:HU:38:ILE:HD13	2.02	0.41
42:HV:83:LEU:HB3	42:HV:84:VAL:H	1.73	0.41
43:HW:122:ILE:CG2	43:HW:149:ALA:HB1	2.51	0.41
22:HB:2343:C:C1'	44:HX:66:LYS:HD2	2.50	0.41
46:HZ:17:VAL:C	46:HZ:19:THR:H	2.24	0.41
1:IA:1043:C:H2'	1:IA:1044:A:C8	2.56	0.41
1:IA:1277:C:H4'	1:IA:1282:C:C4	2.55	0.41
1:IA:1372:U:O2'	1:IA:1373:G:H5'	2.21	0.41
1:IA:1435:G:H2'	1:IA:1436:U:C6	2.56	0.41
1:IA:927:G:C5'	1:IA:1503:A:O5'	2.47	0.41
1:IA:537:G:H2'	12:IL:115:LYS:CE	2.32	0.41
1:IA:545:C:H2'	1:IA:546:G:C8	2.54	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:IA:735:C:H2'	1:IA:736:C:C6	2.56	0.41
1:IA:812:C:OP1	1:IA:903:G:H1'	2.20	0.41
2:IB:155:LEU:HD13	2:IB:157:ARG:O	2.21	0.41
2:IB:62:ALA:HB1	2:IB:225:ALA:HB3	2.02	0.41
3:IC:71:ALA:CB	3:IC:115:LEU:HD11	2.51	0.41
6:IF:80:ARG:HH21	6:IF:87:ARG:HA	1.83	0.41
1:IA:1240:U:H5	7:IG:119:ARG:NH1	2.18	0.41
7:IG:16:LEU:N	7:IG:16:LEU:HD22	2.36	0.41
7:IG:42:ILE:H	7:IG:42:ILE:HG13	1.68	0.41
7:IG:62:PHE:CD2	7:IG:63:LYS:HG3	2.56	0.41
7:IG:66:VAL:O	7:IG:70:LYS:HG3	2.21	0.41
11:IK:23:ALA:HB1	11:IK:88:GLY:HA3	2.03	0.41
14:IN:52:GLN:C	14:IN:53:LEU:HD23	2.42	0.41
18:IR:62:GLU:O	18:IR:66:LEU:HB2	2.21	0.41
19:IS:28:LYS:HE2	19:IS:29:ARG:O	2.21	0.41
48:J2:46:CYS:HB2	48:J2:50:GLY:HA2	2.01	0.41
49:J3:11:LYS:N	49:J3:11:LYS:HD3	2.35	0.41
33:JM:62:LYS:CD	51:J5:30:ARG:HG3	2.41	0.41
22:JB:2399:C:C2	51:J5:32:GLN:CA	2.99	0.41
53:J7:158:LYS:CD	53:J7:158:LYS:H	2.25	0.41
53:J7:54:LEU:HA	53:J7:55:PRO:HD3	1.88	0.41
23:JA:58:G:H4'	23:JA:59:A:OP2	2.21	0.41
23:JA:92:G:H3'	23:JA:93:G:C8	2.55	0.41
22:JB:1140:A:H5'	22:JB:1142:G:P	2.61	0.41
22:JB:123:A:O2'	50:J4:14:LYS:CB	2.69	0.41
22:JB:1369:G:H2'	22:JB:1370:U:O4'	2.21	0.41
22:JB:13:A:H61	22:JB:535:U:C2'	2.32	0.41
22:JB:1448:A:HO2'	22:JB:1449:C:H6	1.65	0.41
22:JB:1450:G:H21	22:JB:1531:C:H1'	1.85	0.41
22:JB:1704:G:H2'	22:JB:1718:A:N6	2.35	0.41
22:JB:1747:G:H4'	22:JB:1749:G:C8	2.56	0.41
22:JB:1791:C:H1'	22:JB:1793:A:C5'	2.51	0.41
22:JB:1937:G:N3	22:JB:1937:G:H2'	2.35	0.41
22:JB:198:A:O2'	22:JB:199:A:P	2.78	0.41
22:JB:2214:G:H2'	22:JB:2215:C:C6	2.56	0.41
22:JB:2350:G:H4'	49:J3:46:LYS:CE	2.49	0.41
22:JB:2496:C:H4'	22:JB:2497:A:C2	2.56	0.41
22:JB:2506:C:H2'	22:JB:2507:U:O4'	2.21	0.41
22:JB:2533:U:H6	22:JB:2535:C:N4	2.19	0.41
22:JB:2550:C:H1'	25:JE:143:GLN:CG	2.51	0.41
22:JB:30:G:O4'	22:JB:1228:G:H5'	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:JB:468:A:O2'	22:JB:470:U:H5'	2.20	0.41
22:JB:596:C:H4'	22:JB:597:U:C2	2.56	0.41
22:JB:839:U:H2'	22:JB:841:G:C8	2.56	0.41
22:JB:863:C:O2'	22:JB:864:C:H5'	2.21	0.41
22:JB:882:C:H2'	22:JB:883:A:C8	2.55	0.41
24:JD:68:LYS:HE2	24:JD:106:LEU:HD23	2.01	0.41
24:JD:148:VAL:CB	24:JD:151:LYS:HB3	2.50	0.41
24:JD:31:LYS:HE3	24:JD:33:LEU:O	2.21	0.41
24:JD:75:VAL:HB	24:JD:97:TYR:CE2	2.56	0.41
22:JB:2550:C:C2'	25:JE:144:ARG:HG3	2.48	0.41
25:JE:116:VAL:HG22	25:JE:156:MET:HA	2.02	0.41
27:JG:12:VAL:HB	27:JG:169:LEU:HD21	2.03	0.41
28:JH:117:PRO:HG3	28:JH:123:PHE:HE1	1.86	0.41
22:JB:2510:A:P	28:JH:174:GLY:O	2.77	0.41
28:JH:35:VAL:O	28:JH:36:PRO:O	2.38	0.41
28:JH:69:ARG:HB3	28:JH:69:ARG:CZ	2.50	0.41
31:JK:43:VAL:HG23	31:JK:166:LEU:H	1.86	0.41
31:JK:44:VAL:HG12	31:JK:45:ASP:H	1.85	0.41
33:JM:91:ASP:N	33:JM:121:HIS:HB3	2.31	0.41
22:JB:2393:G:O2'	33:JM:66:ASN:ND2	2.54	0.41
34:JN:68:ARG:HG3	34:JN:68:ARG:HH11	1.85	0.41
38:JR:101:ARG:HB3	38:JR:102:GLU:H	1.73	0.41
38:JR:75:ASN:HB3	38:JR:79:PHE:HD2	1.86	0.41
38:JR:91:ASN:CB	39:JS:10:LYS:HE2	2.51	0.41
40:JT:76:LYS:HD2	40:JT:76:LYS:N	2.35	0.41
41:JU:59:PRO:HB2	41:JU:60:GLY:H	1.75	0.41
41:JU:71:GLN:CG	41:JU:72:ARG:H	2.26	0.41
45:JY:41:HIS:O	45:JY:42:ARG:HB2	2.20	0.41
46:JZ:9:VAL:HB	46:JZ:10:ILE:HD12	2.03	0.41
1:AA:1228:C:N3	13:AM:120:LYS:HD2	2.32	0.41
1:AA:1320:C:H1'	19:AS:73:GLU:CB	2.50	0.41
1:AA:276:G:H2'	1:AA:277:C:C6	2.56	0.41
1:AA:540:G:H2'	1:AA:541:G:C8	2.56	0.41
1:AA:667:G:C1'	15:AO:49:ASP:HB2	2.47	0.41
1:AA:668:G:H1	1:AA:738:C:H42	1.69	0.41
1:AA:973:G:O3'	14:AN:41:ARG:NH2	2.53	0.41
2:AB:178:ARG:HB2	2:AB:196:LEU:HD22	2.03	0.41
1:AA:1060:C:C5	3:AC:2:GLY:N	2.89	0.41
3:AC:94:LEU:HD23	3:AC:95:THR:HG23	2.03	0.41
4:AD:144:ASP:HB2	4:AD:185:PHE:CE1	2.56	0.41
5:AE:105:VAL:HG12	5:AE:109:ILE:HD11	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:AE:72:GLN:HE22	5:AE:77:PRO:HB3	1.86	0.41
6:AF:30:LEU:HD22	6:AF:37:VAL:HG13	2.02	0.41
6:AF:53:ALA:C	6:AF:54:LYS:HG2	2.41	0.41
7:AG:13:GLN:HA	7:AG:14:PRO:HD2	1.90	0.41
8:AH:111:ILE:CG2	8:AH:120:THR:HA	2.50	0.41
10:AJ:53:PRO:HG2	10:AJ:54:PHE:HD1	1.85	0.41
1:AA:254:G:C6	17:AQ:16:GLN:HB3	2.29	0.41
47:B1:31:ILE:O	47:B1:32:HIS:HB2	2.21	0.41
22:BB:1999:U:C2	48:B2:7:PRO:HG2	2.56	0.41
49:B3:26:LYS:HB3	49:B3:27:ASN:H	1.68	0.41
49:B3:33:ALA:O	49:B3:34:LYS:HB2	2.19	0.41
51:B5:49:VAL:O	51:B5:50:LEU:HB2	2.20	0.41
53:B7:201:ARG:HH21	53:B7:202:ASN:HB2	1.85	0.41
22:BB:1018:C:P	22:BB:1019:U:H3'	2.60	0.41
22:BB:1887:G:C4	22:BB:1888:C:C6	3.09	0.41
22:BB:1934:U:H2'	22:BB:1935:A:H8	1.86	0.41
22:BB:1282:A:OP1	22:BB:1987:G:H4'	2.21	0.41
22:BB:2045:A:H1'	22:BB:2421:C:OP2	2.21	0.41
22:BB:2463:G:C2	34:BN:120:ARG:HG3	2.55	0.41
22:BB:2533:U:C6	22:BB:2535:C:N4	2.89	0.41
22:BB:3188:U:OP1	29:BI:20:VAL:HG13	2.20	0.41
22:BB:346:C:O2'	22:BB:347:C:H5'	2.21	0.41
22:BB:228:A:N6	22:BB:399:G:H1	2.06	0.41
22:BB:245:C:H1'	22:BB:438:G:N2	2.35	0.41
22:BB:609:U:O2'	22:BB:610:G:H5'	2.21	0.41
22:BB:625:A:H2	22:BB:626:A:HO2'	1.67	0.41
22:BB:814:G:N3	22:BB:814:G:O4'	2.54	0.41
22:BB:822:G:H2'	22:BB:823:U:C6	2.56	0.41
24:BD:143:HIS:HA	24:BD:161:THR:HB	2.02	0.41
24:BD:183:ARG:NH2	24:BD:185:VAL:HG22	2.36	0.41
22:BB:1803:G:H1'	24:BD:47:GLY:N	2.35	0.41
24:BD:63:ARG:HH22	24:BD:157:ARG:HE	1.69	0.41
24:BD:28:ARG:HD2	24:BD:84:TYR:CE2	2.55	0.41
31:BK:43:VAL:HG23	31:BK:166:LEU:H	1.86	0.41
32:BL:100:ASN:HB2	32:BL:104:GLU:N	2.30	0.41
33:BM:142:LEU:HD22	33:BM:142:LEU:N	2.36	0.41
34:BN:60:ARG:CD	34:BN:61:ARG:H	2.34	0.41
36:BP:11:LEU:HD12	36:BP:12:ARG:CD	2.51	0.41
25:BE:181:LEU:CD1	37:BQ:16:ILE:CD1	2.94	0.41
37:BQ:28:ARG:HH22	37:BQ:96:ARG:N	2.19	0.41
25:BE:52:ALA:CB	37:BQ:5:ILE:HB	2.51	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:BR:75:ASN:HB3	38:BR:79:PHE:HD2	1.86	0.41
41:BU:27:PHE:HB3	41:BU:28:TRP:H	1.70	0.41
42:BV:106:VAL:HG22	42:BV:113:THR:CB	2.51	0.41
34:BN:106:GLU:OE1	43:BW:115:ILE:HA	2.21	0.41
43:BW:43:PHE:HB2	43:BW:69:VAL:CG2	2.50	0.41
45:BY:47:ARG:C	45:BY:49:GLU:H	2.21	0.41
1:CA:1316:G:H5'	1:CA:1360:A:C2	2.55	0.41
1:CA:1378:C:H3'	1:CA:1379:G:C5'	2.51	0.41
1:CA:1412:C:H2'	1:CA:1413:A:C8	2.56	0.41
1:CA:1426:C:H2'	1:CA:1427:U:O4'	2.21	0.41
1:CA:1517:G:C8	22:DB:1903:C:O5'	2.74	0.41
1:CA:237:C:H2'	1:CA:238:G:C8	2.56	0.41
1:CA:325:A:H61	16:CP:25:ARG:HH22	1.68	0.41
1:CA:356:A:O2'	1:CA:368:U:H4'	2.20	0.41
1:CA:668:G:O2'	15:CO:45:VAL:HG12	2.21	0.41
1:CA:761:G:H2'	1:CA:762:C:C6	2.56	0.41
1:CA:889:A:H4'	1:CA:890:G:H4'	2.02	0.41
1:CA:908:A:H2'	1:CA:909:A:H8	1.86	0.41
2:CB:187:LEU:HD11	2:CB:204:ASN:CA	2.51	0.41
3:CC:23:TYR:CE1	10:CJ:10:GLY:CA	3.04	0.41
4:CD:102:ASP:HB3	4:CD:136:PRO:HB3	2.03	0.41
1:CA:559:A:C6	5:CE:126:ARG:HD3	2.41	0.41
6:CF:6:VAL:HA	6:CF:89:MET:O	2.21	0.41
1:CA:1374:A:C4'	7:CG:28:ASN:CG	2.84	0.41
8:CH:102:ARG:NE	8:CH:125:ARG:HH22	2.18	0.41
13:CM:20:THR:HG23	13:CM:26:GLY:CA	2.49	0.41
13:CM:65:LYS:O	13:CM:66:LEU:HG	2.21	0.41
13:CM:92:HIS:HE1	13:CM:98:VAL:HG11	1.86	0.41
17:CQ:65:ILE:CD1	17:CQ:70:ARG:HA	2.51	0.41
18:CR:38:GLU:OE1	18:CR:42:ARG:HB2	2.21	0.41
6:CF:48:LEU:HD23	18:CR:78:LEU:HA	2.03	0.41
49:D3:48:VAL:HG13	49:D3:49:VAL:N	2.35	0.41
23:DA:93:G:OP1	34:DN:22:ALA:CB	2.59	0.41
22:DB:129:A:H8	22:DB:129:A:OP2	2.04	0.41
22:DB:1308:C:H2'	22:DB:1309:G:O4'	2.21	0.41
22:DB:1494:G:N2	22:DB:1573:G:O2'	2.54	0.41
22:DB:1285:A:N3	22:DB:1634:A:H1'	2.36	0.41
22:DB:1742:G:N2	22:DB:1747:G:H1	2.19	0.41
22:DB:1282:A:OP1	22:DB:1987:G:H4'	2.21	0.41
22:DB:540:G:O6	22:DB:2019:C:OP2	2.39	0.41
22:DB:2411:A:C8	47:D1:27:THR:HA	2.56	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:DB:2419:C:N3	22:DB:2420:C:H1'	2.36	0.41
22:DB:2421:C:O2'	22:DB:2422:C:H5'	2.20	0.41
22:DB:2506:C:H2'	22:DB:2507:U:O4'	2.21	0.41
22:DB:1966:C:H4'	22:DB:2585:C:H5''	2.02	0.41
22:DB:2649:A:H2'	22:DB:2650:G:O4'	2.20	0.41
22:DB:349:G:N7	22:DB:350:U:N3	2.69	0.41
22:DB:43:A:H2'	22:DB:44:G:H5'	2.03	0.41
22:DB:510:G:C2	22:DB:513:A:P	3.14	0.41
22:DB:596:C:H4'	22:DB:597:U:C2	2.56	0.41
22:DB:632:A:H3'	22:DB:633:G:C8	2.50	0.41
22:DB:679:C:OP1	33:DM:47:ALA:HB3	2.20	0.41
22:DB:862:A:C2	46:DZ:21:GLN:HG2	2.56	0.41
22:DB:888:G:OP1	43:DW:148:THR:CG2	2.67	0.41
22:DB:984:A:H2'	22:DB:1200:G:N2	2.36	0.41
24:DD:68:LYS:CE	24:DD:144:ALA:HB1	2.51	0.41
25:DE:116:VAL:HG22	25:DE:156:MET:HA	2.02	0.41
25:DE:104:ALA:HB1	25:DE:196:VAL:HG11	2.02	0.41
22:DB:2765:C:H4'	25:DE:65:GLY:O	2.21	0.41
22:DB:811:G:OP2	26:DF:55:GLY:HA2	2.21	0.41
27:DG:120:ASN:C	27:DG:122:PHE:HD1	2.24	0.41
13:CM:3:ARG:NE	27:DG:144:ASP:OD2	2.54	0.41
27:DG:56:GLU:N	27:DG:56:GLU:OE2	2.54	0.41
27:DG:74:ILE:HG22	27:DG:76:ASN:N	2.31	0.41
28:DH:9:ILE:HB	28:DH:69:ARG:HH12	1.85	0.41
32:DL:90:ARG:CG	32:DL:91:PHE:N	2.84	0.41
33:DM:46:GLY:O	33:DM:48:PHE:N	2.54	0.41
22:DB:2373:C:C4'	33:DM:59:ARG:NH1	2.78	0.41
39:DS:24:SER:HB2	39:DS:28:GLU:OE2	2.21	0.41
39:DS:69:ILE:CD1	39:DS:90:PHE:HB3	2.50	0.41
44:DX:61:ALA:HB2	44:DX:80:SER:HA	2.03	0.41
45:DY:22:LYS:HD3	45:DY:47:ARG:CZ	2.50	0.41
1:EA:1181:G:O2'	1:EA:1184:G:H5'	2.21	0.41
1:EA:1399:C:H4'	1:EA:1400:C:C5'	2.51	0.41
1:EA:912:C:H2'	1:EA:913:A:C8	2.55	0.41
2:EB:187:LEU:HD11	2:EB:204:ASN:CA	2.51	0.41
7:EG:108:ALA:CA	7:EG:111:ARG:HD2	2.51	0.41
10:EJ:90:LEU:N	10:EJ:91:PRO:HD2	2.36	0.41
15:EO:62:GLN:NE2	15:EO:66:LEU:HG	2.32	0.41
18:ER:76:LEU:C	18:ER:78:LEU:H	2.24	0.41
20:ET:56:MET:HE2	20:ET:103:GLY:C	2.42	0.41
1:EA:104:G:C5	20:ET:14:LYS:NZ	2.86	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:FB:16:G:H1'	48:F2:18:MET:HE3	1.43	0.41
40:FT:40:LEU:CD1	48:F2:20:ARG:HD2	2.48	0.41
50:F4:18:PHE:HE2	50:F4:45:SER:HB2	1.85	0.41
51:F5:8:LYS:C	51:F5:10:ALA:H	2.23	0.41
22:FB:126:C:H2'	22:FB:127:C:C5	2.55	0.41
22:FB:1741:G:N3	22:FB:2835:A:N3	2.69	0.41
22:FB:1872:A:H2'	22:FB:1873:A:C8	2.56	0.41
22:FB:1883:A:C5	22:FB:1953:A:C6	3.09	0.41
22:FB:219:G:C5	51:F5:2:PRO:O	2.49	0.41
22:FB:2241:U:C5	22:FB:2306:A:H2	2.39	0.41
22:FB:2060:A:H1'	22:FB:2414:A:O4'	2.21	0.41
22:FB:346:C:O2'	22:FB:347:C:H5'	2.21	0.41
22:FB:609:U:O2'	22:FB:610:G:H5'	2.21	0.41
22:FB:814:G:N3	22:FB:814:G:O4'	2.54	0.41
22:FB:839:U:H2'	22:FB:841:G:C8	2.56	0.41
22:FB:861:G:H2'	22:FB:862:A:C8	2.55	0.41
22:FB:863:C:O2'	22:FB:864:C:H5'	2.21	0.41
22:FB:964:A:N1	22:FB:975:C:N3	2.68	0.41
24:FD:205:VAL:HG22	24:FD:206:LEU:N	2.36	0.41
24:FD:182:LEU:CB	24:FD:269:PHE:HB3	2.51	0.41
25:FE:143:GLN:HB2	25:FE:144:ARG:NE	2.36	0.41
22:FB:2599:U:H5'	25:FE:154:LYS:O	2.21	0.41
25:FE:104:ALA:HB1	25:FE:196:VAL:HG11	2.02	0.41
26:FF:149:LEU:HD23	26:FF:150:LEU:N	2.36	0.41
26:FF:168:SER:CB	26:FF:183:HIS:HE2	2.33	0.41
27:FG:11:GLN:CD	27:FG:12:VAL:HG13	2.41	0.41
27:FG:110:ARG:HG3	27:FG:135:GLN:NE2	2.36	0.41
28:FH:152:ARG:O	28:FH:153:LYS:C	2.59	0.41
31:FK:116:ARG:HH12	31:FK:119:LEU:HD12	1.82	0.41
31:FK:78:ASP:H	31:FK:147:ARG:HH22	1.67	0.41
31:FK:43:VAL:HB	31:FK:167:LYS:H	1.86	0.41
34:FN:70:PHE:CG	34:FN:71:PRO:HD2	2.56	0.41
22:FB:2688:G:OP1	35:FO:18:VAL:HG22	2.20	0.41
36:FP:16:LYS:HE2	36:FP:16:LYS:HA	2.03	0.41
38:FR:61:TRP:CH2	38:FR:97:ASP:HA	2.55	0.41
39:FS:69:ILE:CD1	39:FS:90:PHE:HB3	2.51	0.41
40:FT:70:LYS:HE3	40:FT:70:LYS:HA	2.03	0.41
40:FT:73:ASN:ND2	40:FT:73:ASN:H	2.15	0.41
22:FB:62:U:H2'	41:FU:71:GLN:O	2.21	0.41
42:FV:106:VAL:HG22	42:FV:113:THR:CB	2.51	0.41
43:FW:122:ILE:CG2	43:FW:149:ALA:HB1	2.51	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:FW:25:ASN:N	43:FW:25:ASN:ND2	2.68	0.41
44:FX:46:LYS:HE2	44:FX:48:GLY:HA2	2.02	0.41
1:GA:1035:A:H2'	1:GA:1036:G:N2	2.33	0.41
1:GA:1129:C:O2'	1:GA:1130:A:P	2.78	0.41
1:GA:1181:G:O2'	1:GA:1184:G:H5'	2.20	0.41
1:GA:1186:G:N2	14:GN:61:TRP:HA	2.29	0.41
1:GA:1226:C:H5''	13:GM:111:LYS:HE3	0.53	0.41
1:GA:1374:A:C2'	7:GG:29:LYS:HE3	2.51	0.41
1:GA:1426:C:H2'	1:GA:1427:U:O4'	2.21	0.41
1:GA:927:G:P	1:GA:1503:A:H2'	2.60	0.41
1:GA:15:G:C1'	5:GE:24:ARG:CD	2.94	0.41
1:GA:194:C:O3'	20:GT:66:ALA:N	2.54	0.41
1:GA:243:A:H2	1:GA:245:C:H2'	1.86	0.41
1:GA:700:G:H4'	1:GA:704:A:H1'	2.03	0.41
1:GA:735:C:H2'	1:GA:736:C:C6	2.56	0.41
1:GA:814:A:O4'	1:GA:1511:G:O4'	2.39	0.41
1:GA:951:G:C1'	13:GM:126:LYS:HB3	2.46	0.41
2:GB:178:ARG:HB2	2:GB:196:LEU:HD22	2.03	0.41
2:GB:187:LEU:HD11	2:GB:204:ASN:CA	2.51	0.41
3:GC:71:ALA:CB	3:GC:115:LEU:HD11	2.51	0.41
4:GD:18:LYS:HG2	4:GD:19:LEU:N	2.35	0.41
5:GE:121:LYS:CG	5:GE:123:LEU:HG	2.51	0.41
5:GE:13:ILE:HG22	5:GE:30:ALA:HB2	2.03	0.41
1:GA:1128:C:H5''	9:GI:16:ARG:HD2	1.83	0.41
12:GL:45:PRO:HA	12:GL:93:LEU:HG	2.03	0.41
13:GM:15:VAL:HG22	13:GM:45:VAL:HA	2.03	0.41
10:GJ:11:PHE:HD1	14:GN:54:PRO:C	2.18	0.41
1:GA:740:U:C2	15:GO:46:HIS:CD2	3.09	0.41
19:GS:49:ILE:HG22	19:GS:50:ALA:N	2.36	0.41
1:AA:180:U:H1'	20:GT:98:PRO:CG	2.47	0.41
49:H3:22:TYR:C	49:H3:24:THR:N	2.74	0.41
53:H7:128:LEU:HD22	53:H7:131:ARG:CZ	2.51	0.41
23:HA:70:C:H2'	23:HA:71:G:O4'	2.21	0.41
22:HB:1043:A:O2'	52:H6:16:VAL:CB	2.66	0.41
22:HB:1004:A:C4	22:HB:1173:G:N2	2.89	0.41
22:HB:984:A:H5'	22:HB:1202:U:H1'	2.03	0.41
22:HB:1445:A:O2'	22:HB:1446:U:H5'	2.21	0.41
22:HB:1747:G:H4'	22:HB:1749:G:C8	2.56	0.41
22:HB:1809:G:H5'	24:HD:63:ARG:HH12	1.80	0.41
22:HB:1995:G:H5''	40:HT:118:LYS:HB2	2.01	0.41
22:HB:1999:U:O2	48:H2:8:LYS:HA	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:HB:2214:G:H2'	22:HB:2215:C:C6	2.56	0.41
22:HB:2269:G:OP1	22:HB:2363:G:H4'	2.21	0.41
22:HB:2551:A:P	25:HE:144:ARG:CG	3.08	0.41
22:HB:30:G:O4'	22:HB:1228:G:H5'	2.21	0.41
22:HB:482:A:H2'	22:HB:483:A:O4'	2.20	0.41
24:HD:225:ALA:O	24:HD:226:MET:HB3	2.20	0.41
24:HD:261:ARG:HG3	24:HD:262:LYS:N	2.36	0.41
24:HD:82:ILE:HD11	24:HD:91:ARG:HG2	2.04	0.41
25:HE:119:ARG:HG2	25:HE:155:ARG:CG	2.50	0.41
28:HH:85:ILE:HD13	28:HH:141:VAL:HA	2.02	0.41
29:HI:50:LEU:O	29:HI:51:ARG:HG3	2.21	0.41
30:HJ:108:ALA:HB1	30:HJ:124:ALA:HB1	2.02	0.41
31:HK:83:ILE:HG22	31:HK:84:ASN:N	2.35	0.41
32:HL:69:VAL:O	32:HL:70:VAL:HB	2.20	0.41
33:HM:94:GLU:OE2	33:HM:99:VAL:HG11	2.21	0.41
22:HB:2463:G:P	34:HN:44:LYS:HZ1	2.37	0.41
35:HO:26:THR:HG22	35:HO:70:ILE:HG23	2.03	0.41
35:HO:21:ALA:O	35:HO:26:THR:HG23	2.21	0.41
35:HO:45:ARG:C	35:HO:47:PHE:N	2.75	0.41
22:HB:2815:C:C4'	35:HO:92:GLY:HA3	2.50	0.41
39:HS:52:GLY:C	39:HS:54:TYR:H	2.24	0.41
40:HT:107:ILE:HG23	40:HT:107:ILE:O	2.19	0.41
41:HU:65:VAL:HG12	41:HU:66:GLY:N	2.36	0.41
1:IA:1056:U:H5'	3:IC:162:GLN:HA	2.02	0.41
1:IA:1120:G:O2'	1:IA:1121:U:H5'	2.21	0.41
1:IA:1129:C:O2'	1:IA:1130:A:P	2.78	0.41
1:IA:1259:C:H42	1:IA:1274:G:H22	1.68	0.41
1:EA:1273:G:C6	1:IA:1264:C:H4'	2.56	0.41
1:IA:129:U:H4'	17:IQ:64:PRO:HG2	1.63	0.41
1:IA:135:C:O5'	1:IA:135:C:H6	2.03	0.41
1:IA:1426:C:H2'	1:IA:1427:U:O4'	2.21	0.41
1:IA:1489:G:H2'	1:IA:1490:C:O4'	2.20	0.41
1:IA:250:A:H5'	1:IA:252:U:H5''	2.02	0.41
1:IA:533:A:H4'	1:IA:534:U:OP1	2.21	0.41
1:IA:700:G:H4'	1:IA:704:A:H1'	2.03	0.41
1:IA:923:A:H2'	1:IA:924:C:C6	2.56	0.41
6:IF:53:ALA:C	6:IF:54:LYS:HG2	2.42	0.41
6:IF:6:VAL:HA	6:IF:89:MET:O	2.21	0.41
7:IG:89:MET:HB2	7:IG:90:GLU:H	1.61	0.41
8:IH:26:VAL:HG13	8:IH:59:LEU:CD1	2.51	0.41
10:IJ:50:ILE:O	14:IN:45:ARG:CD	2.69	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:IO:15:PHE:CD2	15:IO:81:LEU:HD11	2.56	0.41
17:IQ:64:PRO:HB3	17:IQ:70:ARG:CZ	2.51	0.41
18:IR:38:GLU:OE1	18:IR:42:ARG:HB2	2.21	0.41
51:J5:3:LYS:O	51:J5:5:LYS:HD2	2.21	0.41
53:J7:128:LEU:HD22	53:J7:131:ARG:CZ	2.51	0.41
22:JB:1074:G:N3	30:JJ:88:SER:HA	2.33	0.41
22:JB:1308:C:H2'	22:JB:1309:G:O4'	2.21	0.41
22:JB:1552:C:H2'	22:JB:1553:G:H5'	2.03	0.41
22:JB:1625:A:N3	22:JB:1625:A:C2'	2.83	0.41
22:JB:1886:G:P	24:JD:242:ALA:CA	2.99	0.41
22:JB:1914:U:H5	22:JB:1951:G:N1	2.19	0.41
22:JB:1924:C:N4	22:JB:1948:C:H4'	2.36	0.41
22:JB:2045:A:H1'	22:JB:2421:C:OP2	2.21	0.41
22:JB:219:G:C2	51:J5:4:MET:N	2.85	0.41
22:JB:2434:G:H2'	22:JB:2435:C:C5	2.56	0.41
22:JB:2442:C:H2'	22:JB:2443:C:C6	2.56	0.41
22:JB:2471:U:HO3'	22:JB:2472:U:P	2.38	0.41
22:JB:2615:U:C4'	25:JE:79:ARG:NH2	2.84	0.41
22:JB:349:G:N7	22:JB:350:U:N3	2.69	0.41
22:JB:43:A:C2'	22:JB:44:G:H5'	2.50	0.41
22:JB:550:C:H2'	22:JB:551:A:O4'	2.21	0.41
22:JB:672:C:O2'	26:JF:95:LEU:N	2.52	0.41
22:JB:794:A:H1'	22:JB:1767:G:H21	1.86	0.41
22:JB:892:A:N6	22:JB:911:A:H2	2.19	0.41
24:JD:11:PRO:HD2	24:JD:24:LEU:N	2.34	0.41
25:JE:119:ARG:HG2	25:JE:155:ARG:CG	2.50	0.41
28:JH:103:LEU:H	28:JH:117:PRO:HG2	1.86	0.41
28:JH:27:LYS:HB2	28:JH:27:LYS:NZ	2.36	0.41
28:JH:45:GLN:HG2	28:JH:47:GLY:H	1.86	0.41
31:JK:46:ALA:CB	31:JK:83:ILE:HB	2.48	0.41
32:JL:78:SER:HA	32:JL:90:ARG:CD	2.48	0.41
22:JB:882:C:O2'	34:JN:10:PHE:CZ	2.58	0.41
36:JP:29:LEU:HD22	36:JP:31:VAL:CG2	2.50	0.41
37:JQ:80:VAL:CG2	37:JQ:111:ARG:HE	2.33	0.41
37:JQ:40:ARG:HA	37:JQ:40:ARG:NH1	2.36	0.41
38:JR:28:ARG:HG2	38:JR:34:ASN:CB	2.50	0.41
39:JS:22:VAL:O	39:JS:23:GLU:HG2	2.21	0.41
40:JT:55:ASP:CA	40:JT:58:ARG:HB3	2.50	0.41
42:JV:80:LYS:HB2	42:JV:81:VAL:H	1.74	0.41
44:JX:62:LEU:HD22	44:JX:62:LEU:HA	1.97	0.41
1:AA:1229:A:N6	13:AM:120:LYS:N	2.62	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1272:G:H2'	1:AA:1273:G:H8	1.85	0.40
1:AA:1412:C:H2'	1:AA:1413:A:C8	2.56	0.40
1:AA:1414:U:H2'	1:AA:1415:G:H8	1.85	0.40
1:AA:1517:G:N7	22:BB:1902:A:H2'	2.35	0.40
1:AA:197:A:O2'	1:AA:198:G:P	2.78	0.40
1:AA:109:A:C8	1:AA:326:G:H2'	2.56	0.40
1:AA:332:G:O4'	20:AT:13:LEU:HD21	2.22	0.40
1:AA:333:G:H2'	1:AA:334:C:C6	2.56	0.40
1:AA:488:C:O2'	1:AA:489:C:H5'	2.22	0.40
1:AA:419:C:H4'	1:AA:512:U:O2'	2.21	0.40
1:AA:627:G:O2'	1:AA:628:G:H5'	2.21	0.40
1:AA:735:C:H2'	1:AA:736:C:C6	2.56	0.40
1:AA:767:A:C2	1:AA:1511:G:C2	3.08	0.40
1:AA:957:U:O4	1:AA:960:U:H5''	2.21	0.40
2:AB:62:ALA:HB1	2:AB:225:ALA:HB3	2.03	0.40
3:AC:130:VAL:O	3:AC:133:ALA:HB3	2.22	0.40
3:AC:40:ARG:NH1	3:AC:40:ARG:HG3	2.36	0.40
4:AD:18:LYS:HG2	4:AD:19:LEU:N	2.35	0.40
4:AD:3:ARG:HH11	4:AD:118:ARG:NH2	2.19	0.40
4:AD:57:ARG:HB3	4:AD:206:PHE:HB2	2.02	0.40
4:AD:64:LEU:HD22	4:AD:64:LEU:N	2.36	0.40
5:AE:78:HIS:CD2	5:AE:143:ARG:HB2	2.56	0.40
1:AA:1381:U:C6	7:AG:77:SER:O	2.65	0.40
8:AH:27:PRO:HA	8:AH:58:TYR:HA	2.03	0.40
8:AH:36:LEU:CD1	8:AH:59:LEU:HD13	2.51	0.40
9:AI:118:LYS:C	9:AI:120:ARG:H	2.25	0.40
1:AA:1131:G:OP2	9:AI:20:ARG:HD3	2.21	0.40
14:AN:48:ALA:O	14:AN:53:LEU:HD21	2.21	0.40
14:AN:4:LYS:N	14:AN:4:LYS:HD2	2.35	0.40
1:AA:128:G:O2'	17:AQ:60:ILE:HD11	2.21	0.40
17:AQ:74:LEU:HB2	17:AQ:75:ARG:H	1.74	0.40
1:AA:985:C:H1'	19:AS:55:LYS:HD2	1.05	0.40
22:BB:1377:G:N9	47:B1:3:LYS:HG3	2.19	0.40
51:B5:52:LYS:HA	51:B5:54:GLU:OE2	2.21	0.40
51:B5:64:ARG:OXT	51:B5:64:ARG:HG2	2.21	0.40
22:BB:1042:G:O2'	52:B6:23:VAL:HG11	2.21	0.40
53:B7:30:VAL:HG23	53:B7:172:GLU:HG2	2.03	0.40
22:BB:1041:G:N3	52:B6:5:SER:HB2	2.33	0.40
22:BB:1803:G:H1'	24:BD:47:GLY:H	1.87	0.40
22:BB:1845:A:H2	22:BB:1846:A:H62	1.69	0.40
22:BB:1908:C:C3'	22:BB:1909:U:H4'	2.51	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:BB:2018:G:N3	22:BB:2018:G:O4'	2.54	0.40
22:BB:2048:C:H4'	22:BB:2231:G:H4'	2.03	0.40
22:BB:2203:G:O3'	22:BB:2204:A:OP2	2.37	0.40
22:BB:222:G:H2'	22:BB:223:C:H6	1.85	0.40
22:BB:2411:A:N1	47:B1:29:PRO:CA	2.84	0.40
22:BB:2421:C:O2'	22:BB:2422:C:H5'	2.20	0.40
22:BB:2489:C:O2	25:BE:125:GLY:CA	2.57	0.40
22:BB:2512:A:H5'	22:BB:2643:G:O2'	2.21	0.40
22:BB:2523:G:O4'	22:BB:2624:G:H8	2.03	0.40
22:BB:1966:C:H4'	22:BB:2585:C:H5''	2.03	0.40
22:BB:2600:A:C1'	25:BE:158:GLY:C	2.90	0.40
22:BB:2714:A:C1'	25:BE:205:SER:CA	2.99	0.40
22:BB:3:U:N3	22:BB:2875:C:C2	2.89	0.40
22:BB:545:C:H2'	22:BB:546:A:O4'	2.22	0.40
22:BB:54:G:H2'	22:BB:55:A:H8	1.84	0.40
22:BB:533:C:H5''	22:BB:550:C:H1'	1.99	0.40
22:BB:596:C:H4'	22:BB:597:U:C2	2.56	0.40
22:BB:677:G:O3'	22:BB:678:G:H5'	2.20	0.40
22:BB:810:U:C6	26:BF:56:ARG:NH2	2.89	0.40
22:BB:823:U:H5''	22:BB:824:U:H5'	2.04	0.40
22:BB:915:C:O3'	43:BW:162:ALA:C	2.60	0.40
22:BB:1508:G:OP2	24:BD:100:GLY:HA3	2.21	0.40
24:BD:165:VAL:HG13	24:BD:175:VAL:HG22	2.04	0.40
25:BE:108:SER:O	25:BE:109:LYS:HG2	2.20	0.40
25:BE:116:VAL:HG22	25:BE:156:MET:HA	2.02	0.40
22:BB:2557:G:C2'	25:BE:133:LYS:CD	2.99	0.40
25:BE:107:THR:CA	25:BE:164:ARG:HH22	2.34	0.40
25:BE:104:ALA:HB1	25:BE:196:VAL:HG11	2.02	0.40
26:BF:115:GLY:CA	26:BF:185:ARG:HG3	2.51	0.40
28:BH:114:ILE:C	28:BH:115:ILE:HG23	2.42	0.40
28:BH:9:ILE:HB	28:BH:69:ARG:HH12	1.86	0.40
32:BL:69:VAL:O	32:BL:70:VAL:HB	2.21	0.40
32:BL:90:ARG:CG	32:BL:91:PHE:N	2.84	0.40
34:BN:23:LYS:HD2	34:BN:99:LYS:HZ1	1.86	0.40
34:BN:39:GLU:H	34:BN:99:LYS:HD3	1.86	0.40
35:BO:45:ARG:C	35:BO:47:PHE:N	2.74	0.40
37:BQ:36:ASP:HB3	37:BQ:55:ILE:CD1	2.51	0.40
38:BR:75:ASN:O	38:BR:76:TYR:HB3	2.21	0.40
40:BT:84:GLU:HB3	40:BT:85:MET:H	1.67	0.40
41:BU:80:VAL:HG12	41:BU:81:ARG:N	2.36	0.40
44:BX:61:ALA:HB2	44:BX:80:SER:HA	2.03	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:1350:A:H1'	7:CG:33:ASP:CA	2.49	0.40
1:CA:309:G:H21	1:CA:607:A:N6	2.17	0.40
1:CA:316:G:OP2	1:CA:351:G:H3'	2.20	0.40
1:CA:333:G:H2'	1:CA:334:C:C6	2.55	0.40
1:CA:560:U:H5''	1:CA:562:C:OP1	2.21	0.40
1:CA:702:A:C2	22:DB:1839:A:O2'	2.69	0.40
1:CA:975:A:N7	14:CN:34:TYR:HE1	2.18	0.40
2:CB:54:THR:O	2:CB:58:ILE:HG13	2.21	0.40
2:CB:8:LYS:HB2	2:CB:9:GLU:H	1.50	0.40
4:CD:10:ARG:HH12	4:CD:11:LEU:HB3	1.85	0.40
4:CD:125:HIS:HB3	4:CD:152:SER:HB3	2.03	0.40
4:CD:18:LYS:HG2	4:CD:19:LEU:N	2.35	0.40
1:CA:922:G:C5'	5:CE:20:GLN:NE2	2.67	0.40
6:CF:30:LEU:HD22	6:CF:37:VAL:HG13	2.02	0.40
7:CG:120:ILE:HG22	7:CG:124:LEU:HD11	2.03	0.40
1:CA:589:C:C5	8:CH:1:MET:CE	3.04	0.40
10:CJ:94:VAL:HG12	10:CJ:95:GLU:N	2.35	0.40
14:CN:24:CYS:SG	14:CN:25:VAL:N	2.93	0.40
15:CO:15:PHE:CD2	15:CO:81:LEU:HD11	2.56	0.40
20:CT:15:ARG:HA	20:CT:18:GLN:OE1	2.21	0.40
1:CA:332:G:O5'	20:CT:9:ASN:C	2.60	0.40
22:DB:2040:A:C2	48:D2:2:ALA:N	2.80	0.40
49:D3:45:LYS:N	49:D3:45:LYS:HD2	2.35	0.40
53:D7:128:LEU:HD22	53:D7:131:ARG:CZ	2.51	0.40
22:DB:1095:A:C2	22:DB:1116:U:H4'	2.56	0.40
22:DB:1145:C:C2	22:DB:1147:G:OP2	2.75	0.40
22:DB:1315:A:H5''	22:DB:1316:G:OP1	2.22	0.40
22:DB:1820:G:HO2'	22:DB:1821:A:P	2.44	0.40
22:DB:1845:A:H2	22:DB:1846:A:H62	1.69	0.40
22:DB:1969:G:H2'	22:DB:1970:G:C8	2.56	0.40
22:DB:213:C:H2'	22:DB:214:C:C2	2.56	0.40
22:DB:2285:U:O4'	27:DG:40:LEU:HD23	2.19	0.40
22:DB:2491:C:H6	22:DB:2491:C:O5'	2.04	0.40
22:DB:346:C:O2'	22:DB:347:C:H5'	2.22	0.40
22:DB:54:G:H2'	22:DB:55:A:H8	1.84	0.40
22:DB:80:A:O2'	22:DB:306:G:H1'	2.21	0.40
24:DD:205:VAL:HG22	24:DD:206:LEU:N	2.36	0.40
24:DD:215:LEU:HD12	24:DD:215:LEU:H	1.86	0.40
24:DD:261:ARG:HG3	24:DD:262:LYS:N	2.36	0.40
25:DE:107:THR:CA	25:DE:164:ARG:HH22	2.35	0.40
27:DG:13:ARG:CB	27:DG:14:PRO:HD3	2.40	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:DH:69:ARG:HB3	28:DH:69:ARG:CZ	2.51	0.40
30:DJ:78:ILE:CG2	30:DJ:107:ILE:HG23	2.51	0.40
32:DL:123:PHE:CB	32:DL:126:ILE:HB	2.51	0.40
34:DN:39:GLU:H	34:DN:99:LYS:HD3	1.86	0.40
34:DN:60:ARG:CD	34:DN:61:ARG:H	2.34	0.40
36:DP:11:LEU:HD12	36:DP:12:ARG:CD	2.51	0.40
38:DR:109:LEU:HA	38:DR:109:LEU:HD22	1.97	0.40
38:DR:33:ARG:HB3	38:DR:34:ASN:H	1.67	0.40
42:DV:46:VAL:CG1	42:DV:77:HIS:HA	2.51	0.40
22:DB:916:U:H4'	43:DW:161:ALA:HB3	1.22	0.40
43:DW:41:ARG:HH11	43:DW:44:ARG:HD2	1.87	0.40
45:DY:55:THR:O	45:DY:56:VAL:CG2	2.69	0.40
1:EA:1120:G:O2'	1:EA:1121:U:H5'	2.21	0.40
1:EA:1129:C:O5'	1:EA:1130:A:H5'	2.20	0.40
1:EA:1421:G:N2	1:EA:1422:G:H1'	2.36	0.40
1:EA:1437:C:OP1	20:ET:23:ARG:NH1	2.51	0.40
1:EA:814:A:H4'	1:EA:1511:G:H5'	2.04	0.40
1:EA:768:A:H4'	1:EA:1523:G:H21	1.86	0.40
1:EA:234:C:H4'	17:EQ:70:ARG:NH2	2.36	0.40
1:EA:488:C:O2'	1:EA:489:C:H5'	2.21	0.40
1:EA:687:A:N6	1:EA:701:C:H5'	2.32	0.40
3:EC:71:ALA:CB	3:EC:115:LEU:HD11	2.51	0.40
4:ED:3:ARG:HH11	4:ED:118:ARG:NH2	2.19	0.40
5:EE:13:ILE:HG22	5:EE:30:ALA:HB2	2.03	0.40
6:EF:30:LEU:HD22	6:EF:37:VAL:HG13	2.02	0.40
7:EG:49:ILE:HA	7:EG:53:LYS:HZ3	1.86	0.40
7:EG:68:ASN:HB3	7:EG:135:VAL:CG2	2.50	0.40
9:EI:46:ALA:HB2	9:EI:74:ILE:CG2	2.51	0.40
12:EL:72:GLY:CA	12:EL:102:ARG:HH11	2.30	0.40
13:EM:91:ARG:CB	13:EM:98:VAL:HG22	2.50	0.40
17:EQ:26:GLN:HE21	17:EQ:37:LYS:CB	2.35	0.40
19:ES:38:SER:O	19:ES:70:LYS:HA	2.21	0.40
19:ES:11:VAL:HA	19:ES:39:THR:H	1.86	0.40
19:ES:49:ILE:HG22	19:ES:50:ALA:N	2.36	0.40
53:F7:128:LEU:HD22	53:F7:131:ARG:CZ	2.51	0.40
53:F7:160:LYS:HG2	53:F7:161:ASP:OD2	2.21	0.40
22:FB:3178:C:OP1	53:F7:35:THR:HB	2.22	0.40
23:FA:70:C:H2'	23:FA:71:G:O4'	2.21	0.40
23:FA:90:C:O2'	23:FA:91:A:H5'	2.21	0.40
22:FB:1111:C:H2'	22:FB:1112:U:O4'	2.21	0.40
22:FB:1248:G:H2'	22:FB:1249:G:C8	2.57	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:FB:1673:C:C3'	25:FE:136:ARG:CD	2.93	0.40
22:FB:1743:C:OP1	22:FB:2836:U:O2'	2.39	0.40
22:FB:1948:C:N4	22:FB:2571:G:C2'	2.85	0.40
22:FB:1282:A:OP1	22:FB:1987:G:H4'	2.21	0.40
22:FB:588:G:C5'	22:FB:2001:G:H5''	2.42	0.40
22:FB:2224:U:O5'	22:FB:2224:U:H6	2.04	0.40
22:FB:2434:G:N2	22:FB:2475:C:C2	2.82	0.40
22:FB:2506:C:H2'	22:FB:2507:U:O4'	2.21	0.40
22:FB:2733:A:H1'	52:F6:15:LYS:NZ	2.35	0.40
22:FB:2860:C:H2'	22:FB:2861:A:C8	2.56	0.40
22:FB:3153:G:H2'	22:FB:3154:G:O4'	2.22	0.40
22:FB:349:G:N7	22:FB:350:U:N3	2.70	0.40
22:FB:563:U:H2'	22:FB:564:U:H6	1.86	0.40
22:FB:596:C:H4'	22:FB:597:U:C2	2.56	0.40
22:FB:632:A:H3'	22:FB:633:G:C8	2.50	0.40
22:FB:822:G:H2'	22:FB:823:U:C6	2.56	0.40
22:FB:882:C:H2'	22:FB:883:A:C8	2.55	0.40
22:FB:8:A:H5''	31:FK:79:PHE:CE2	2.48	0.40
24:FD:173:VAL:HG12	24:FD:184:ARG:HB3	2.03	0.40
24:FD:261:ARG:HG3	24:FD:262:LYS:N	2.36	0.40
22:FB:2659:C:O4'	25:FE:187:ALA:O	2.39	0.40
28:FH:115:ILE:HG13	28:FH:116:GLU:N	2.35	0.40
29:FI:30:ILE:N	29:FI:31:PRO:CD	2.68	0.40
31:FK:43:VAL:HG23	31:FK:166:LEU:H	1.85	0.40
34:FN:39:GLU:H	34:FN:99:LYS:HD3	1.86	0.40
35:FO:59:ASP:HB3	35:FO:60:LEU:H	1.62	0.40
22:FB:591:G:H4'	38:FR:11:ARG:HH12	1.83	0.40
22:FB:1263:G:H1'	38:FR:13:ARG:CZ	2.20	0.40
42:FV:35:LYS:O	42:FV:37:LEU:HD23	2.21	0.40
43:FW:136:VAL:HA	43:FW:147:ILE:CD1	2.51	0.40
43:FW:168:VAL:HG12	43:FW:169:VAL:H	1.86	0.40
43:FW:96:VAL:HA	43:FW:97:PRO:HD2	1.37	0.40
1:GA:1005:A:H2'	1:GA:1006:C:C6	2.56	0.40
1:GA:1120:G:O2'	1:GA:1121:U:H5'	2.21	0.40
1:GA:128:G:H1'	17:GQ:4:LYS:CD	2.51	0.40
1:GA:1342:C:H2'	1:GA:1343:G:C8	2.56	0.40
1:GA:1378:C:OP2	7:GG:6:ARG:HG3	2.21	0.40
1:GA:192:U:H5'	20:GT:103:GLY:CA	2.39	0.40
1:GA:509:A:HO2'	1:GA:510:A:C5'	2.34	0.40
1:GA:533:A:H4'	1:GA:534:U:OP1	2.21	0.40
1:GA:540:G:O2'	1:GA:541:G:H5'	2.22	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:GA:826:C:C2'	8:GH:12:ARG:CD	3.00	0.40
1:GA:889:A:H4'	1:GA:890:G:H4'	2.02	0.40
2:GB:8:LYS:HB2	2:GB:9:GLU:H	1.49	0.40
3:GC:129:ALA:C	3:GC:133:ALA:HB2	2.41	0.40
3:GC:3:ASN:ND2	3:GC:3:ASN:N	2.67	0.40
4:GD:102:ASP:HB3	4:GD:136:PRO:HB3	2.04	0.40
4:GD:10:ARG:NH2	4:GD:66:ARG:NH1	2.66	0.40
5:GE:72:GLN:CD	5:GE:77:PRO:HD3	2.42	0.40
8:GH:27:PRO:HA	8:GH:58:TYR:HA	2.03	0.40
10:GJ:11:PHE:CD1	14:GN:54:PRO:CA	3.03	0.40
10:GJ:55:LYS:HB2	10:GJ:55:LYS:HZ3	1.87	0.40
10:GJ:90:LEU:N	10:GJ:91:PRO:HD2	2.36	0.40
11:GK:20:TYR:CB	11:GK:31:THR:HB	2.45	0.40
13:GM:110:ARG:HG2	13:GM:110:ARG:NH1	2.35	0.40
15:GO:16:ALA:HA	15:GO:26:GLU:CB	2.51	0.40
15:GO:29:VAL:CG2	15:GO:62:GLN:HE21	2.34	0.40
17:GQ:4:LYS:O	17:GQ:60:ILE:HG12	2.21	0.40
17:GQ:65:ILE:HD12	17:GQ:65:ILE:N	2.36	0.40
6:GF:43:LEU:HD22	18:GR:35:ARG:HG2	2.02	0.40
1:AA:180:U:C1'	20:GT:98:PRO:HB2	2.51	0.40
47:H1:17:GLN:HG2	47:H1:31:ILE:HD11	2.03	0.40
22:HB:2064:U:H4'	47:H1:35:VAL:HG21	2.02	0.40
51:H5:36:LYS:H	51:H5:36:LYS:CE	2.34	0.40
23:HA:95:U:H2'	23:HA:96:C:C6	2.56	0.40
22:HB:10:A:C8	22:HB:2608:A:C6	3.09	0.40
22:HB:1265:G:H5'	38:HR:10:ARG:HB2	2.03	0.40
22:HB:1491:C:N3	22:HB:1533:G:C6	2.90	0.40
22:HB:1742:G:N2	22:HB:1747:G:H1	2.19	0.40
22:HB:1899:A:H2'	22:HB:1900:U:C6	2.55	0.40
22:HB:2018:G:N3	22:HB:2018:G:O4'	2.54	0.40
22:HB:2491:C:O5'	22:HB:2491:C:H6	2.04	0.40
22:HB:2548:G:H2'	22:HB:2549:G:C5'	2.50	0.40
22:HB:2543:A:N6	22:HB:2625:U:C2'	2.84	0.40
22:HB:300:C:OP2	22:HB:301:C:H5	2.05	0.40
22:HB:458:G:H4'	22:HB:461:A:H1'	2.02	0.40
22:HB:496:C:O2'	22:HB:497:C:H5'	2.20	0.40
22:HB:573:C:H2'	22:HB:574:C:O4'	2.21	0.40
22:HB:796:A:C8	22:HB:797:A:H4'	2.57	0.40
22:HB:841:G:H4'	22:HB:844:G:N1	2.37	0.40
22:HB:872:G:H1'	22:HB:2247:A:H2	1.83	0.40
24:HD:119:ALA:O	24:HD:130:ALA:HB3	2.22	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:HD:144:ALA:N	24:HD:155:LEU:HD11	2.35	0.40
27:HG:108:LEU:N	27:HG:109:PRO:CD	2.84	0.40
28:HH:103:LEU:H	28:HH:117:PRO:HG2	1.86	0.40
30:HJ:54:PRO:HD2	30:HJ:72:PRO:CG	2.46	0.40
31:HK:46:ALA:CB	31:HK:83:ILE:HB	2.48	0.40
32:HL:78:SER:HA	32:HL:90:ARG:CG	2.51	0.40
34:HN:105:PHE:CZ	34:HN:112:GLU:HA	2.56	0.40
23:HA:49:C:H5'	36:HP:94:TYR:OH	2.21	0.40
38:HR:50:ARG:HA	38:HR:50:ARG:NE	2.36	0.40
39:HS:24:SER:HB2	39:HS:28:GLU:OE2	2.21	0.40
22:HB:1336:G:C4'	40:HT:103:LEU:CD2	2.99	0.40
40:HT:58:ARG:HH21	40:HT:65:SER:HB3	1.86	0.40
41:HU:4:TYR:O	41:HU:5:ASP:HB2	2.22	0.40
42:HV:60:PRO:HB2	42:HV:61:SER:H	1.65	0.40
44:HX:29:GLU:H	44:HX:62:LEU:CB	2.34	0.40
44:HX:41:ARG:O	44:HX:66:LYS:HA	2.21	0.40
46:HZ:6:VAL:CB	46:HZ:50:LEU:HB3	2.52	0.40
46:HZ:9:VAL:HB	46:HZ:10:ILE:HD12	2.03	0.40
1:IA:1129:C:O5'	1:IA:1130:A:H5'	2.20	0.40
1:IA:540:G:O2'	1:IA:541:G:H5'	2.21	0.40
1:IA:912:C:H2'	1:IA:913:A:C8	2.55	0.40
2:IB:132:LYS:C	2:IB:134:GLU:H	2.24	0.40
2:IB:47:THR:O	2:IB:51:LEU:HG	2.22	0.40
4:ID:3:ARG:HH11	4:ID:118:ARG:NH2	2.19	0.40
4:ID:204:ILE:CG2	5:IE:101:ILE:HD11	2.51	0.40
5:IE:13:ILE:HG22	5:IE:30:ALA:HB2	2.03	0.40
7:IG:153:HIS:CE1	11:IK:93:GLN:CD	2.94	0.40
1:IA:1308:U:H5''	13:IM:99:ARG:HB2	2.02	0.40
14:IN:39:LEU:O	14:IN:44:LEU:HD13	2.21	0.40
16:IP:21:VAL:HG21	16:IP:34:GLU:HB3	2.03	0.40
17:IQ:4:LYS:O	17:IQ:60:ILE:HG12	2.21	0.40
47:J1:46:GLU:OE1	47:J1:73:LYS:HD3	2.21	0.40
49:J3:16:ALA:HB1	49:J3:48:VAL:HG13	2.03	0.40
50:J4:18:PHE:HE2	50:J4:45:SER:HB2	1.85	0.40
52:J6:17:VAL:CG2	52:J6:24:LEU:HG	2.50	0.40
53:J7:53:PRO:HA	53:J7:154:SER:CB	2.51	0.40
23:JA:70:C:H2'	23:JA:71:G:O4'	2.21	0.40
22:JB:129:A:OP2	22:JB:129:A:H8	2.04	0.40
22:JB:1307:U:H2'	35:JO:23:ALA:HB2	1.99	0.40
22:JB:1411:C:H3'	22:JB:1412:C:H5	1.86	0.40
22:JB:1285:A:N3	22:JB:1634:A:H1'	2.36	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:JB:1639:U:H2'	22:JB:1640:C:C6	2.56	0.40
22:JB:1908:C:C3'	22:JB:1909:U:H4'	2.51	0.40
22:JB:2060:A:H1'	22:JB:2414:A:O4'	2.21	0.40
22:JB:218:A:H61	22:JB:232:A:H3'	1.86	0.40
22:JB:2215:C:H2'	22:JB:2216:G:O4'	2.21	0.40
22:JB:2224:U:C3'	22:JB:2225:G:H5'	2.46	0.40
22:JB:579:G:N2	22:JB:2477:C:H4'	2.35	0.40
22:JB:2543:A:N1	22:JB:2625:U:O2'	2.45	0.40
22:JB:2603:G:H1'	48:J2:22:HIS:CG	2.43	0.40
22:JB:489:A:C4'	42:JV:75:ALA:CB	2.98	0.40
22:JB:778:G:OP1	24:JD:214:TRP:CE2	2.72	0.40
22:JB:796:A:O3'	22:JB:2567:G:H5''	2.21	0.40
22:JB:2056:C:C3'	24:JD:229:VAL:HA	2.47	0.40
24:JD:31:LYS:HD3	24:JD:33:LEU:N	2.36	0.40
25:JE:137:ARG:HA	25:JE:138:PRO:HD3	1.87	0.40
22:JB:2615:U:OP1	25:JE:79:ARG:HB2	2.21	0.40
26:JF:150:LEU:HD13	26:JF:158:ARG:HH22	1.84	0.40
26:JF:115:GLY:CA	26:JF:185:ARG:HG3	2.51	0.40
22:JB:672:C:H1'	26:JF:96:PRO:HD3	2.02	0.40
27:JG:136:LEU:HD13	27:JG:150:ARG:HH21	1.85	0.40
28:JH:148:VAL:C	28:JH:149:ARG:HD2	2.41	0.40
28:JH:89:LEU:HD22	28:JH:161:GLY:CA	2.50	0.40
30:JJ:74:MET:HE3	30:JJ:75:SER:HB2	2.03	0.40
33:JM:70:THR:HG23	33:JM:71:THR:N	2.29	0.40
34:JN:68:ARG:HD2	34:JN:101:GLY:CA	2.51	0.40
35:JO:26:THR:HG22	35:JO:70:ILE:HG23	2.03	0.40
35:JO:45:ARG:C	35:JO:47:PHE:N	2.75	0.40
35:JO:98:LEU:HB3	35:JO:99:ARG:H	1.67	0.40
39:JS:52:GLY:C	39:JS:54:TYR:H	2.24	0.40
22:JB:1201:G:O2'	39:JS:80:TYR:CD1	2.75	0.40
41:JU:4:TYR:O	41:JU:5:ASP:HB2	2.21	0.40
42:JV:35:LYS:O	42:JV:37:LEU:HD23	2.21	0.40
45:JY:22:LYS:HD3	45:JY:47:ARG:CZ	2.50	0.40
1:AA:1077:G:O2'	1:AA:1078:U:H3'	2.21	0.40
1:AA:1120:G:O2'	1:AA:1121:U:H5'	2.21	0.40
1:AA:767:A:C2	1:AA:1511:G:N3	2.89	0.40
1:AA:370:C:H42	1:AA:390:C:H42	1.67	0.40
1:AA:552:U:C1'	12:AL:31:PRO:HB3	2.51	0.40
1:AA:761:G:C1'	17:AQ:103:GLY:HA2	2.51	0.40
1:AA:22:G:C2	1:AA:913:A:H2	2.40	0.40
2:AB:162:ILE:HG22	2:AB:163:PHE:O	2.20	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AB:74:LYS:HD3	2:AB:165:VAL:CG1	2.50	0.40
2:AB:98:LEU:H	2:AB:101:MET:CE	2.34	0.40
4:AD:102:ASP:HB3	4:AD:136:PRO:HB3	2.03	0.40
6:AF:71:ARG:O	6:AF:75:LEU:N	2.55	0.40
1:AA:1351:U:O4	9:AI:118:LYS:HE3	2.21	0.40
9:AI:46:ALA:HB2	9:AI:74:ILE:CG2	2.51	0.40
9:AI:56:LEU:HB3	9:AI:57:GLY:H	1.73	0.40
1:AA:1224:G:H21	13:AM:102:ARG:NH1	2.19	0.40
1:AA:1317:C:C5	14:AN:16:PHE:HE2	2.38	0.40
16:AP:16:HIS:CD2	16:AP:40:ASP:HA	2.56	0.40
16:AP:56:ALA:HA	16:AP:59:TRP:CD1	2.55	0.40
18:AR:73:ALA:HA	18:AR:78:LEU:HB3	2.02	0.40
22:BB:166:G:C3'	47:B1:36:TRP:NE1	2.84	0.40
22:BB:2040:A:H5'	48:B2:8:LYS:HZ3	1.86	0.40
49:B3:22:TYR:C	49:B3:24:THR:N	2.74	0.40
49:B3:48:VAL:HG13	49:B3:49:VAL:N	2.36	0.40
50:B4:18:PHE:H	50:B4:44:VAL:HG11	1.86	0.40
52:B6:17:VAL:CG2	52:B6:24:LEU:HG	2.50	0.40
22:BB:3122:U:C5'	53:B7:160:LYS:NZ	2.81	0.40
53:B7:53:PRO:HA	53:B7:154:SER:CB	2.51	0.40
22:BB:126:C:H2'	22:BB:127:C:C5	2.55	0.40
22:BB:1924:C:N4	22:BB:1948:C:H4'	2.36	0.40
22:BB:1998:A:H2'	48:B2:6:VAL:CG1	2.48	0.40
22:BB:213:C:H2'	22:BB:214:C:C2	2.57	0.40
22:BB:2269:G:OP1	22:BB:2363:G:H4'	2.20	0.40
22:BB:2419:C:N3	22:BB:2420:C:H1'	2.37	0.40
22:BB:2597:G:H2'	22:BB:2598:C:C6	2.56	0.40
22:BB:2606:G:C4	22:BB:2757:G:C6	3.09	0.40
22:BB:2669:C:N4	35:BO:15:SER:CA	2.50	0.40
22:BB:2698:G:H2'	22:BB:2699:G:C8	2.56	0.40
22:BB:3122:U:H5''	53:B7:160:LYS:HZ1	1.82	0.40
22:BB:312:G:H5''	22:BB:345:U:C2	2.56	0.40
22:BB:79:G:O2'	22:BB:356:A:C2	2.74	0.40
22:BB:425:A:N1	22:BB:2391:A:H1'	2.36	0.40
22:BB:504:G:C2	40:BT:78:ASN:CG	2.94	0.40
22:BB:840:U:H5''	22:BB:2409:A:N1	2.37	0.40
22:BB:863:C:O2'	22:BB:864:C:H5'	2.21	0.40
22:BB:984:A:H2'	22:BB:1200:G:N2	2.36	0.40
24:BD:212:SER:CA	24:BD:215:LEU:HB2	2.50	0.40
24:BD:261:ARG:HG3	24:BD:262:LYS:N	2.37	0.40
25:BE:103:ASP:HB3	25:BE:168:GLN:CA	2.50	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:BB:2797:G:P	25:BE:111:LYS:O	2.79	0.40
25:BE:61:LYS:HA	25:BE:64:GLN:OE1	2.20	0.40
26:BF:119:ALA:N	26:BF:189:ASP:HB2	2.33	0.40
28:BH:152:ARG:O	28:BH:153:LYS:C	2.59	0.40
28:BH:154:PRO:HB3	28:BH:160:LYS:CG	2.51	0.40
28:BH:45:GLN:HG2	28:BH:47:GLY:H	1.86	0.40
30:BJ:76:TYR:CZ	30:BJ:80:LYS:HB2	2.56	0.40
32:BL:4:PRO:HB2	32:BL:5:GLN:H	1.71	0.40
32:BL:90:ARG:HE	32:BL:90:ARG:HA	1.86	0.40
33:BM:114:ILE:HG21	33:BM:135:ALA:C	2.41	0.40
22:BB:2372:A:N3	33:BM:59:ARG:HG3	2.36	0.40
22:BB:2813:G:C3'	35:BO:46:PRO:HG3	2.41	0.40
37:BQ:67:THR:CA	37:BQ:82:PRO:HB3	2.50	0.40
41:BU:65:VAL:HG12	41:BU:66:GLY:N	2.36	0.40
23:BA:78:A:C4'	43:BW:31:SER:OG	2.68	0.40
43:BW:74:ARG:HG2	43:BW:74:ARG:NH2	2.36	0.40
43:BW:64:ALA:HB1	43:BW:84:TYR:O	2.21	0.40
46:BZ:22:ALA:HB3	46:BZ:23:LEU:HD23	2.03	0.40
1:CA:1005:A:H2'	1:CA:1006:C:C6	2.56	0.40
1:CA:1022:G:H2'	1:CA:1022:G:N3	2.36	0.40
1:CA:1129:C:O5'	1:CA:1130:A:H5'	2.20	0.40
1:CA:135:C:C2'	16:CP:1:MET:CB	2.84	0.40
1:CA:1421:G:N2	1:CA:1422:G:H1'	2.37	0.40
1:CA:1428:A:O2'	22:DB:1720:G:H1'	2.21	0.40
1:CA:815:A:N1	1:CA:1528:U:H1'	2.37	0.40
1:CA:276:G:H2'	1:CA:277:C:C6	2.57	0.40
1:CA:109:A:C8	1:CA:326:G:H2'	2.56	0.40
1:CA:540:G:H2'	1:CA:541:G:C8	2.56	0.40
1:CA:737:A:H2'	1:CA:738:C:H5	1.85	0.40
1:CA:957:U:O4	1:CA:960:U:H5''	2.21	0.40
2:CB:171:ALA:HA	2:CB:174:VAL:CG2	2.50	0.40
3:CC:25:GLY:O	3:CC:28:GLN:HB2	2.21	0.40
4:CD:3:ARG:HH11	4:CD:118:ARG:NH2	2.19	0.40
5:CE:11:ILE:HG22	5:CE:12:LEU:N	2.36	0.40
5:CE:127:ASN:O	5:CE:129:ILE:N	2.54	0.40
7:CG:111:ARG:HH22	7:CG:122:HIS:HB3	1.85	0.40
7:CG:125:MET:C	7:CG:127:ALA:H	2.25	0.40
7:CG:89:MET:HB2	7:CG:90:GLU:H	1.61	0.40
9:CI:10:ARG:CG	9:CI:75:ASP:HB2	2.51	0.40
1:CA:954:G:C1'	13:CM:122:LYS:O	2.70	0.40
13:CM:44:ARG:HA	13:CM:44:ARG:HD2	1.94	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:CN:4:LYS:HD2	14:CN:4:LYS:N	2.35	0.40
8:CH:91:ARG:NE	17:CQ:34:LYS:O	2.54	0.40
19:CS:11:VAL:HA	19:CS:39:THR:H	1.86	0.40
49:D3:11:LYS:N	49:D3:11:LYS:HD3	2.36	0.40
49:D3:33:ALA:O	49:D3:34:LYS:HB2	2.19	0.40
22:DB:2323:U:H5'	49:D3:39:LYS:HD3	2.01	0.40
50:D4:37:LYS:HZ2	50:D4:37:LYS:HB3	1.86	0.40
22:DB:661:C:H5'	51:D5:17:THR:CG2	2.51	0.40
52:D6:22:ARG:HD2	52:D6:36:GLN:CG	2.48	0.40
53:D7:30:VAL:HG23	53:D7:172:GLU:HG2	2.03	0.40
23:DA:70:C:H2'	23:DA:71:G:O4'	2.21	0.40
23:DA:77:G:C1'	43:DW:29:ASN:ND2	2.84	0.40
22:DB:1078:A:H2	30:DJ:26:ALA:HB2	1.85	0.40
22:DB:123:A:O4'	50:D4:13:ALA:CB	2.66	0.40
22:DB:1385:C:H5''	22:DB:2192:U:C4	2.56	0.40
22:DB:182:G:HO2'	22:DB:183:U:H6	1.69	0.40
22:DB:1899:A:H2'	22:DB:1900:U:C6	2.56	0.40
22:DB:1761:G:H4'	22:DB:1920:A:O2'	2.22	0.40
22:DB:2214:G:H2'	22:DB:2215:C:C6	2.56	0.40
22:DB:2218:G:H4'	24:DD:230:ASP:CA	2.52	0.40
22:DB:245:C:H1'	22:DB:438:G:N2	2.35	0.40
22:DB:2633:A:H61	22:DB:2646:C:H42	1.68	0.40
22:DB:3093:C:C4'	29:DI:21:LYS:N	2.68	0.40
22:DB:3168:G:H2'	22:DB:3170:A:OP2	2.22	0.40
22:DB:312:G:H5''	22:DB:345:U:C2	2.55	0.40
22:DB:475:U:C4'	50:D4:5:TYR:CG	2.99	0.40
22:DB:523:A:H2	38:DR:11:ARG:HH11	1.70	0.40
22:DB:659:G:H21	51:D5:46:LYS:HZ1	1.59	0.40
22:DB:840:U:H5''	22:DB:2409:A:N1	2.36	0.40
22:DB:882:C:H2'	22:DB:883:A:C8	2.55	0.40
22:DB:890:U:H1'	22:DB:912:A:N6	2.36	0.40
22:DB:953:G:O4'	22:DB:1203:A:N3	2.54	0.40
24:DD:173:VAL:HG12	24:DD:184:ARG:HB3	2.03	0.40
24:DD:165:VAL:HG13	24:DD:175:VAL:HG22	2.04	0.40
24:DD:46:ARG:CG	24:DD:47:GLY:N	2.82	0.40
25:DE:61:LYS:H	25:DE:62:PRO:HD2	1.84	0.40
27:DG:110:ARG:HG3	27:DG:135:GLN:NE2	2.36	0.40
27:DG:12:VAL:HB	27:DG:169:LEU:HD21	2.02	0.40
27:DG:70:ALA:CB	27:DG:85:VAL:HG21	2.43	0.40
28:DH:154:PRO:HB3	28:DH:160:LYS:CG	2.51	0.40
22:DB:2736:U:C2	28:DH:67:LEU:CD2	3.04	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:DJ:91:PRO:HG3	30:DJ:134:MET:O	2.22	0.40
22:DB:1934:U:H4'	32:DL:56:LYS:HA	2.03	0.40
33:DM:82:ASP:HA	33:DM:118:VAL:CG1	2.51	0.40
34:DN:68:ARG:HD2	34:DN:101:GLY:CA	2.51	0.40
34:DN:91:VAL:O	34:DN:92:GLU:HG3	2.21	0.40
22:DB:1291:G:H5''	35:DO:35:GLN:N	2.36	0.40
37:DQ:28:ARG:HH22	37:DQ:96:ARG:N	2.19	0.40
37:DQ:67:THR:CA	37:DQ:82:PRO:HB3	2.50	0.40
22:DB:1193:G:P	39:DS:25:LEU:CG	3.03	0.40
39:DS:25:LEU:HB3	39:DS:26:GLN:H	1.53	0.40
40:DT:34:SER:HA	40:DT:35:PRO:HD3	1.90	0.40
40:DT:77:ALA:O	40:DT:80:LEU:HB2	2.21	0.40
41:DU:44:GLN:HG3	41:DU:45:ALA:N	2.26	0.40
41:DU:4:TYR:O	41:DU:5:ASP:HB2	2.21	0.40
23:DA:96:C:C5'	43:DW:15:ASP:OD1	2.69	0.40
1:EA:1131:G:H2'	1:EA:1132:C:C6	2.56	0.40
1:EA:1298:C:H41	7:EG:114:ARG:HB3	1.86	0.40
1:EA:1378:C:H3'	1:EA:1379:G:C5'	2.51	0.40
1:EA:1393:U:O2'	1:EA:1394:A:P	2.80	0.40
1:EA:216:C:H42	1:EA:217:C:N4	2.19	0.40
1:EA:232:G:H2'	1:EA:233:C:H6	1.86	0.40
1:EA:243:A:H2	1:EA:245:C:H2'	1.86	0.40
1:EA:419:C:H4'	1:EA:512:U:O2'	2.21	0.40
1:EA:558:G:O3'	5:EE:121:LYS:HE3	2.19	0.40
1:EA:586:C:H3'	8:EH:90:GLY:HA3	1.56	0.40
1:EA:713:G:H2'	1:EA:714:G:N9	2.36	0.40
1:EA:714:G:H2'	1:EA:715:A:C8	2.56	0.40
1:EA:735:C:H2'	1:EA:736:C:C6	2.56	0.40
2:EB:61:LEU:HD13	2:EB:64:ARG:HH11	1.85	0.40
4:ED:125:HIS:HB3	4:ED:152:SER:HB3	2.03	0.40
5:EE:127:ASN:O	5:EE:129:ILE:N	2.54	0.40
5:EE:16:THR:O	5:EE:16:THR:HG23	2.22	0.40
5:EE:78:HIS:CD2	5:EE:143:ARG:HB2	2.56	0.40
6:EF:53:ALA:C	6:EF:54:LYS:HG2	2.42	0.40
12:EL:77:LEU:HD21	12:EL:107:ALA:HA	2.03	0.40
1:EA:111:G:H5''	16:EP:27:LYS:HB3	2.03	0.40
16:EP:56:ALA:HA	16:EP:59:TRP:CD1	2.55	0.40
18:ER:44:LEU:HD23	18:ER:45:SER:O	2.21	0.40
1:EA:1014:A:N7	19:ES:34:TRP:CZ3	2.87	0.40
49:F3:38:LYS:HA	49:F3:38:LYS:HZ2	1.87	0.40
22:FB:2399:C:H2'	51:F5:32:GLN:CD	2.31	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
51:F5:49:VAL:O	51:F5:50:LEU:HB2	2.20	0.40
53:F7:201:ARG:HH21	53:F7:202:ASN:HB2	1.85	0.40
22:FB:10:A:N6	22:FB:2607:C:O5'	2.54	0.40
22:FB:11:G:O2'	22:FB:12:U:H5'	2.21	0.40
22:FB:1309:G:O2'	22:FB:1310:C:H5'	2.22	0.40
22:FB:1445:A:O2'	22:FB:1446:U:H5'	2.21	0.40
22:FB:2181:A:H1'	29:FI:24:TYR:HD2	1.86	0.40
22:FB:2214:G:H2'	22:FB:2215:C:C6	2.56	0.40
22:FB:222:G:H2'	22:FB:223:C:H6	1.85	0.40
22:FB:2240:C:H3'	44:FX:15:ASP:HA	2.03	0.40
22:FB:2284:U:OP2	27:FG:133:LYS:CD	2.68	0.40
22:FB:2348:A:H2'	22:FB:2349:G:C8	2.57	0.40
22:FB:840:U:H5''	22:FB:2409:A:N1	2.37	0.40
22:FB:2557:G:H2'	22:FB:2558:C:O4'	2.22	0.40
22:FB:2698:G:H2'	22:FB:2699:G:C8	2.56	0.40
22:FB:644:A:O2'	22:FB:2383:C:C5'	2.69	0.40
22:FB:677:G:C2'	22:FB:678:G:O4'	2.69	0.40
22:FB:680:U:C3'	33:FM:48:PHE:HE1	2.33	0.40
22:FB:750:C:H2'	22:FB:751:G:C8	2.57	0.40
22:FB:75:C:C2'	45:FY:52:GLN:CB	2.92	0.40
22:FB:999:A:OP1	46:FZ:7:ARG:O	2.26	0.40
22:FB:1797:C:H1'	24:FD:49:ILE:HG13	2.03	0.40
24:FD:68:LYS:HZ2	24:FD:190:TYR:HE2	1.67	0.40
22:FB:687:G:H5''	26:FF:70:GLY:HA3	2.03	0.40
27:FG:126:GLY:O	27:FG:157:VAL:HA	2.21	0.40
27:FG:63:GLN:HE21	27:FG:63:GLN:HB3	1.58	0.40
28:FH:76:VAL:HA	28:FH:79:VAL:HG12	2.04	0.40
31:FK:43:VAL:HG12	31:FK:44:VAL:O	2.22	0.40
22:FB:566:U:O3'	31:FK:74:MET:HA	2.21	0.40
31:FK:46:ALA:CB	31:FK:83:ILE:HB	2.47	0.40
34:FN:8:THR:CA	34:FN:11:ARG:HH22	2.31	0.40
34:FN:86:LYS:NZ	34:FN:86:LYS:HB2	2.35	0.40
35:FO:13:ASN:ND2	35:FO:13:ASN:N	2.67	0.40
35:FO:20:LEU:C	35:FO:22:ARG:H	2.24	0.40
39:FS:94:LYS:NZ	39:FS:94:LYS:HB2	2.36	0.40
22:FB:1274:C:P	40:FT:118:LYS:HG3	2.52	0.40
22:FB:511:A:O2'	40:FT:12:LYS:HA	2.22	0.40
22:FB:504:G:O2'	40:FT:26:ALA:CA	2.68	0.40
40:FT:58:ARG:HH21	40:FT:65:SER:HB3	1.86	0.40
43:FW:121:GLN:OE1	43:FW:122:ILE:HG22	2.21	0.40
43:FW:51:LEU:HD22	43:FW:128:ARG:HH21	1.76	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:FW:25:ASN:ND2	43:FW:85:MET:HB2	2.37	0.40
45:FY:22:LYS:HD3	45:FY:47:ARG:CZ	2.50	0.40
46:FZ:22:ALA:HB3	46:FZ:23:LEU:HD23	2.03	0.40
1:GA:1013:G:N2	1:GA:1015:A:H3'	2.36	0.40
1:GA:1106:G:P	3:GC:172:ARG:HG3	2.61	0.40
1:GA:1259:C:H42	1:GA:1274:G:H22	1.68	0.40
1:GA:1332:A:O2'	1:GA:1333:A:H5'	2.22	0.40
1:GA:1374:A:H4'	7:GG:28:ASN:CB	2.50	0.40
1:GA:413:G:H21	1:GA:428:G:N2	2.11	0.40
1:GA:51:A:H4'	1:GA:52:G:OP2	2.20	0.40
3:GC:54:ARG:HB3	3:GC:69:HIS:CD2	2.56	0.40
4:GD:121:VAL:CB	4:GD:136:PRO:HG3	2.49	0.40
4:GD:161:ASN:N	4:GD:161:ASN:ND2	2.70	0.40
4:GD:175:SER:O	4:GD:183:GLY:HA3	2.21	0.40
8:GH:36:LEU:CD1	8:GH:59:LEU:HD13	2.51	0.40
8:GH:65:TYR:HB3	8:GH:78:GLN:NE2	2.36	0.40
7:GG:44:TYR:CE1	9:GI:41:VAL:CG2	3.05	0.40
1:GA:1225:A:O5'	13:GM:102:ARG:CB	2.68	0.40
1:GA:954:G:O5'	13:GM:123:ALA:HB2	2.20	0.40
15:GO:11:VAL:O	15:GO:16:ALA:HB2	2.21	0.40
16:GP:21:VAL:HG21	16:GP:34:GLU:HB3	2.03	0.40
19:GS:38:SER:O	19:GS:70:LYS:HA	2.22	0.40
52:H6:17:VAL:CG2	52:H6:24:LEU:HG	2.50	0.40
23:HA:58:G:H4'	23:HA:59:A:OP2	2.22	0.40
22:HB:1329:U:H5'	22:HB:1405:A:H1'	2.03	0.40
22:HB:1483:G:C2'	22:HB:1484:G:N3	2.84	0.40
22:HB:1590:C:H2'	22:HB:1591:U:H5'	2.04	0.40
22:HB:1914:U:H5	22:HB:1951:G:N1	2.19	0.40
22:HB:218:A:H61	22:HB:232:A:H3'	1.86	0.40
22:HB:840:U:H5''	22:HB:2409:A:N1	2.37	0.40
22:HB:2595:C:H2'	22:HB:2596:C:H6	1.86	0.40
22:HB:2736:U:H2'	22:HB:2738:A:OP2	2.21	0.40
22:HB:3114:A:H2'	22:HB:3115:G:O4'	2.21	0.40
22:HB:3153:G:H2'	22:HB:3154:G:O4'	2.21	0.40
22:HB:310:A:H1'	22:HB:333:A:N1	2.36	0.40
22:HB:545:C:H2'	22:HB:546:A:O4'	2.22	0.40
22:HB:550:C:H2'	22:HB:551:A:O4'	2.22	0.40
22:HB:563:U:H2'	22:HB:564:U:H6	1.86	0.40
22:HB:609:U:O2'	22:HB:610:G:H5'	2.21	0.40
24:HD:212:SER:CA	24:HD:215:LEU:HB2	2.50	0.40
24:HD:215:LEU:H	24:HD:215:LEU:HD12	1.86	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:HE:143:GLN:HB2	25:HE:144:ARG:NE	2.36	0.40
25:HE:73:ALA:HA	25:HE:74:PRO:HD3	1.70	0.40
28:HH:114:ILE:C	28:HH:115:ILE:HG23	2.42	0.40
28:HH:117:PRO:HG3	28:HH:123:PHE:HE1	1.86	0.40
22:HB:2181:A:C2	29:HI:24:TYR:CD2	3.09	0.40
32:HL:2:ILE:CB	32:HL:44:TYR:HB2	2.50	0.40
32:HL:42:LYS:HE2	32:HL:44:TYR:O	2.21	0.40
33:HM:140:VAL:CG1	33:HM:141:VAL:H	2.21	0.40
22:HB:1256:C:C3'	33:HM:17:LYS:HD3	2.52	0.40
33:HM:85:ASP:O	33:HM:118:VAL:HG12	2.20	0.40
22:HB:634:G:OP2	33:HM:98:LEU:HD22	2.21	0.40
34:HN:70:PHE:CG	34:HN:71:PRO:HD2	2.56	0.40
38:HR:28:ARG:HA	38:HR:31:GLN:HG2	2.04	0.40
22:HB:1325:U:C4	41:HU:59:PRO:HG2	2.49	0.40
43:HW:25:ASN:ND2	43:HW:25:ASN:N	2.68	0.40
43:HW:64:ALA:HB1	43:HW:84:TYR:O	2.21	0.40
1:IA:1013:G:N2	1:IA:1015:A:H3'	2.37	0.40
1:IA:1227:A:C3'	13:IM:111:LYS:HE2	2.52	0.40
1:IA:1257:U:H4'	1:IA:1258:G:H5'	2.02	0.40
1:IA:1352:C:H2'	1:IA:1353:G:O4'	2.21	0.40
1:IA:1399:C:H4'	1:IA:1400:C:C5'	2.51	0.40
1:IA:537:G:C8	12:IL:115:LYS:NZ	2.83	0.40
1:IA:607:A:H5''	1:IA:630:G:N2	2.35	0.40
1:IA:671:G:H21	6:IF:80:ARG:NH2	2.14	0.40
1:IA:761:G:H2'	1:IA:762:C:C6	2.56	0.40
1:IA:768:A:C2	1:IA:1512:U:H1'	2.56	0.40
2:IB:55:PHE:HA	2:IB:58:ILE:HB	2.03	0.40
1:IA:435:C:O3'	4:ID:156:GLU:OE1	2.40	0.40
4:ID:161:ASN:ND2	4:ID:161:ASN:N	2.70	0.40
1:IA:546:G:C6	4:ID:4:TYR:HA	2.50	0.40
4:ID:64:LEU:N	4:ID:64:LEU:HD22	2.36	0.40
5:IE:127:ASN:O	5:IE:129:ILE:N	2.54	0.40
5:IE:78:HIS:CE1	5:IE:142:LEU:HD23	2.56	0.40
5:IE:79:GLU:CG	5:IE:92:LYS:HG2	2.52	0.40
7:IG:32:ARG:O	7:IG:33:ASP:HB2	2.20	0.40
8:IH:111:ILE:CG2	8:IH:120:THR:HA	2.50	0.40
8:IH:26:VAL:HG21	8:IH:32:LYS:HB3	2.02	0.40
1:IA:684:A:C1'	11:IK:38:ASN:HB3	2.44	0.40
11:IK:58:PRO:O	11:IK:93:GLN:HB2	2.21	0.40
13:IM:110:ARG:NH1	13:IM:110:ARG:HG2	2.36	0.40
13:IM:91:ARG:CB	13:IM:98:VAL:HG22	2.50	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:IN:39:LEU:HB3	14:IN:44:LEU:CD1	2.51	0.40
15:IO:38:ARG:HD3	15:IO:38:ARG:N	2.36	0.40
17:IQ:65:ILE:CD1	17:IQ:70:ARG:HA	2.51	0.40
18:IR:26:LEU:H	18:IR:26:LEU:HD22	1.87	0.40
22:JB:2073:A:C6	47:J1:42:PHE:CE1	3.09	0.40
22:JB:2327:U:C5'	49:J3:21:TYR:CE1	3.01	0.40
50:J4:18:PHE:H	50:J4:44:VAL:HG11	1.86	0.40
22:JB:2328:G:O5'	51:J5:42:ARG:HD2	2.22	0.40
51:J5:64:ARG:OXT	51:J5:64:ARG:HG2	2.21	0.40
22:JB:1023:U:H3	22:JB:1152:C:H2'	1.86	0.40
22:JB:50:G:N2	22:JB:117:A:H1'	2.36	0.40
22:JB:1248:G:H2'	22:JB:1249:G:C8	2.56	0.40
22:JB:1256:C:H5''	33:JM:17:LYS:HZ3	1.86	0.40
22:JB:1742:G:N2	22:JB:1747:G:H1	2.20	0.40
22:JB:17:G:OP2	48:J2:13:LYS:CE	2.56	0.40
22:JB:2018:G:O4'	22:JB:2018:G:N3	2.54	0.40
22:JB:2240:C:C5'	22:JB:2366:U:H2'	2.35	0.40
22:JB:2372:A:H1'	33:JM:59:ARG:HA	2.02	0.40
22:JB:971:A:H1'	22:JB:2474:G:N2	2.36	0.40
22:JB:2698:G:H2'	22:JB:2699:G:C8	2.56	0.40
22:JB:3164:C:OP1	53:J7:102:LYS:CD	2.70	0.40
22:JB:482:A:H2'	22:JB:483:A:O4'	2.20	0.40
22:JB:545:C:H2'	22:JB:546:A:O4'	2.22	0.40
22:JB:743:A:H2'	22:JB:744:C:H6	1.86	0.40
22:JB:840:U:H5''	22:JB:2409:A:N1	2.37	0.40
22:JB:841:G:H4'	22:JB:844:G:N1	2.37	0.40
22:JB:1583:A:N7	24:JD:84:TYR:HD1	2.10	0.40
22:JB:2598:C:C4'	25:JE:150:VAL:HB	2.49	0.40
26:JF:14:THR:OG1	26:JF:195:ILE:HD11	2.21	0.40
27:JG:126:GLY:O	27:JG:157:VAL:HA	2.20	0.40
27:JG:31:ILE:HG23	27:JG:31:ILE:O	2.21	0.40
28:JH:149:ARG:NH1	28:JH:162:VAL:HG23	2.36	0.40
28:JH:154:PRO:HB3	28:JH:160:LYS:CG	2.51	0.40
28:JH:18:ASN:ND2	28:JH:18:ASN:N	2.68	0.40
31:JK:127:ILE:O	31:JK:130:ALA:HB2	2.20	0.40
22:JB:2629:U:C5'	32:JL:29:ILE:HG23	2.51	0.40
32:JL:59:ALA:HB1	32:JL:60:PRO:HD2	2.03	0.40
32:JL:52:VAL:HG22	32:JL:71:LYS:HG3	2.04	0.40
33:JM:82:ASP:HA	33:JM:118:VAL:CG1	2.51	0.40
34:JN:44:LYS:H	34:JN:47:GLN:HB2	1.87	0.40
23:JA:49:C:C5'	36:JP:95:LYS:HG2	2.50	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:JW:121:GLN:OE1	43:JW:122:ILE:HG22	2.21	0.40
43:JW:136:VAL:HA	43:JW:147:ILE:CD1	2.51	0.40
45:JY:25:LEU:HB3	45:JY:47:ARG:HH22	1.87	0.40
1:AA:1191:A:OP1	3:AC:3:ASN:HB2	2.21	0.40
1:AA:1203:C:H2'	1:AA:1204:A:O4'	2.20	0.40
1:AA:1435:G:H2'	1:AA:1436:U:C6	2.56	0.40
1:AA:316:G:OP2	1:AA:351:G:H3'	2.20	0.40
1:AA:533:A:H4'	1:AA:534:U:OP1	2.21	0.40
1:AA:701:C:HO2'	1:AA:702:A:P	2.45	0.40
1:AA:713:G:H2'	1:AA:714:G:N9	2.36	0.40
2:AB:55:PHE:HA	2:AB:58:ILE:HB	2.03	0.40
3:AC:141:VAL:O	3:AC:146:ALA:HB3	2.21	0.40
4:AD:161:ASN:ND2	4:AD:161:ASN:N	2.70	0.40
4:AD:175:SER:O	4:AD:183:GLY:HA3	2.21	0.40
5:AE:11:ILE:HG22	5:AE:12:LEU:N	2.36	0.40
7:AG:125:MET:C	7:AG:127:ALA:H	2.25	0.40
1:AA:877:C:C6	8:AH:3:THR:OG1	2.66	0.40
13:AM:110:ARG:HG2	13:AM:110:ARG:NH1	2.35	0.40
13:AM:65:LYS:O	13:AM:66:LEU:HG	2.21	0.40
14:AN:24:CYS:SG	14:AN:25:VAL:N	2.93	0.40
17:AQ:64:PRO:HB3	17:AQ:70:ARG:CZ	2.51	0.40
19:AS:12:ASP:H	19:AS:38:SER:CB	2.22	0.40
13:AM:99:ARG:HH21	19:AS:2:PRO:HB3	1.85	0.40
19:AS:11:VAL:HA	19:AS:39:THR:H	1.86	0.40
20:AT:56:MET:HE2	20:AT:103:GLY:C	2.42	0.40
47:B1:17:GLN:HG3	47:B1:33:VAL:O	2.21	0.40
47:B1:46:GLU:OE1	47:B1:73:LYS:HD3	2.21	0.40
50:B4:16:HIS:NE2	50:B4:21:ARG:NH2	2.69	0.40
50:B4:18:PHE:HE2	50:B4:45:SER:HB2	1.85	0.40
53:B7:36:PHE:CZ	53:B7:200:LEU:HD21	2.57	0.40
22:BB:1111:C:H2'	22:BB:1112:U:O4'	2.21	0.40
22:BB:999:A:O3'	22:BB:1168:G:C4'	2.70	0.40
22:BB:1248:G:H2'	22:BB:1249:G:C8	2.57	0.40
22:BB:1315:A:H5''	22:BB:1316:G:OP1	2.22	0.40
22:BB:1399:C:N3	22:BB:1415:C:O2	2.54	0.40
22:BB:1397:A:C8	22:BB:1418:C:C6	3.09	0.40
22:BB:1454:U:H2'	22:BB:1455:C:C6	2.56	0.40
22:BB:1625:A:H2'	22:BB:1632:A:H4'	2.02	0.40
22:BB:1684:G:C5'	32:BL:5:GLN:CD	2.89	0.40
22:BB:1966:C:O2'	22:BB:1967:U:H5'	2.22	0.40
22:BB:1141:U:N3	22:BB:2008:C:H5''	2.36	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:BB:1146:G:O2'	22:BB:2021:G:H4'	2.22	0.40
22:BB:2056:C:O2'	24:BD:228:PRO:HB2	2.22	0.40
22:BB:2219:U:OP1	24:BD:229:VAL:CG2	2.69	0.40
22:BB:2224:U:O5'	22:BB:2224:U:H6	2.04	0.40
22:BB:873:U:N3	22:BB:2247:A:C2	2.89	0.40
22:BB:225:G:O3'	47:B1:28:ARG:HG2	2.20	0.40
22:BB:2491:C:O5'	22:BB:2491:C:H6	2.04	0.40
22:BB:2725:C:C1'	28:BH:143:GLN:CB	2.78	0.40
22:BB:2767:C:O2	22:BB:2785:A:C2	2.74	0.40
22:BB:358:C:H2'	22:BB:359:G:O4'	2.21	0.40
22:BB:424:G:OP2	22:BB:2386:G:O5'	2.39	0.40
22:BB:57:G:C2	22:BB:72:A:N3	2.89	0.40
22:BB:750:C:H2'	22:BB:751:G:C8	2.57	0.40
22:BB:677:G:O4'	22:BB:951:G:H4'	2.21	0.40
24:BD:215:LEU:HD12	24:BD:215:LEU:H	1.86	0.40
25:BE:98:GLU:CD	25:BE:175:ILE:HG13	2.41	0.40
22:BB:686:C:C1'	26:BF:74:VAL:HG11	2.50	0.40
27:BG:110:ARG:HG3	27:BG:135:GLN:NE2	2.36	0.40
28:BH:149:ARG:NH1	28:BH:162:VAL:HG23	2.36	0.40
22:BB:2723:C:C4'	28:BH:150:LYS:CD	2.96	0.40
28:BH:97:LYS:HA	28:BH:125:VAL:CG2	2.50	0.40
32:BL:2:ILE:CG2	32:BL:44:TYR:HB2	2.51	0.40
32:BL:78:SER:HA	32:BL:90:ARG:CD	2.49	0.40
22:BB:674:U:H1'	33:BM:23:PRO:HB3	2.03	0.40
33:BM:82:ASP:HA	33:BM:118:VAL:CG1	2.51	0.40
34:BN:38:MET:N	43:BW:74:ARG:HH21	2.20	0.40
35:BO:18:VAL:HG23	35:BO:22:ARG:NH2	2.36	0.40
35:BO:21:ALA:O	35:BO:26:THR:HG23	2.22	0.40
35:BO:38:LEU:HD13	35:BO:38:LEU:N	2.36	0.40
32:BL:92:ASP:CG	37:BQ:79:ARG:NH2	2.73	0.40
22:BB:546:A:O4'	38:BR:53:LYS:HE3	2.22	0.40
39:BS:24:SER:HB2	39:BS:28:GLU:OE2	2.22	0.40
39:BS:82:ARG:HD2	39:BS:82:ARG:HH21	1.76	0.40
43:BW:136:VAL:O	43:BW:137:ASP:HB3	2.22	0.40
43:BW:65:LEU:HG	43:BW:129:ARG:O	2.21	0.40
45:BY:55:THR:O	45:BY:56:VAL:CG2	2.69	0.40
46:BZ:9:VAL:HB	46:BZ:10:ILE:HD12	2.04	0.40
1:CA:1077:G:O2'	1:CA:1078:U:H3'	2.21	0.40
1:CA:1237:C:H5''	1:CA:1238:A:C8	2.57	0.40
1:CA:488:C:O2'	1:CA:489:C:H5'	2.22	0.40
1:CA:419:C:H4'	1:CA:512:U:O2'	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:518:C:H4'	1:CA:519:C:OP2	2.21	0.40
1:CA:701:C:HO2'	1:CA:702:A:P	2.45	0.40
1:CA:714:G:H2'	1:CA:715:A:C8	2.56	0.40
1:CA:815:A:C8	1:CA:1529:G:O6	2.70	0.40
1:CA:922:G:C2	5:CE:19:MET:HE3	2.57	0.40
1:CA:960:U:HO2'	1:CA:961:U:P	2.43	0.40
2:CB:98:LEU:H	2:CB:101:MET:HE3	1.86	0.40
2:CB:124:SER:HB2	2:CB:125:PRO:HD2	2.02	0.40
3:CC:141:VAL:O	3:CC:146:ALA:HB3	2.21	0.40
3:CC:94:LEU:HD23	3:CC:95:THR:HG23	2.04	0.40
4:CD:121:VAL:CB	4:CD:136:PRO:HG3	2.49	0.40
7:CG:68:ASN:HB3	7:CG:135:VAL:CG2	2.50	0.40
8:CH:65:TYR:HB3	8:CH:78:GLN:NE2	2.35	0.40
9:CI:40:LEU:O	9:CI:41:VAL:C	2.59	0.40
1:CA:523:A:C5	12:CL:90:VAL:HA	2.50	0.40
13:CM:123:ALA:O	13:CM:124:PRO:C	2.60	0.40
15:CO:29:VAL:CG2	15:CO:62:GLN:HE21	2.34	0.40
17:CQ:64:PRO:HB3	17:CQ:70:ARG:CZ	2.51	0.40
18:CR:44:LEU:HD23	18:CR:45:SER:O	2.21	0.40
1:CA:191:G:H22	20:CT:81:LYS:NZ	2.19	0.40
48:D2:6:VAL:CB	48:D2:7:PRO:HD2	2.51	0.40
22:DB:2350:G:H4'	49:D3:45:LYS:O	2.22	0.40
51:D5:36:LYS:H	51:D5:36:LYS:HE2	1.85	0.40
51:D5:3:LYS:O	51:D5:5:LYS:HD2	2.21	0.40
53:D7:128:LEU:HD12	53:D7:133:LYS:HB2	2.01	0.40
22:DB:68:C:H5'	22:DB:111:G:H21	1.86	0.40
22:DB:1369:G:H2'	22:DB:1370:U:O4'	2.21	0.40
22:DB:1382:G:O2'	24:DD:48:ARG:CD	2.66	0.40
22:DB:1842:G:N3	22:DB:1842:G:H2'	2.36	0.40
22:DB:18:U:H1'	22:DB:564:U:P	2.61	0.40
22:DB:1966:C:O2'	22:DB:1967:U:H5'	2.22	0.40
22:DB:1141:U:N3	22:DB:2008:C:H5''	2.36	0.40
22:DB:2348:A:H2'	22:DB:2349:G:C8	2.57	0.40
22:DB:2060:A:H1'	22:DB:2414:A:O4'	2.21	0.40
22:DB:2597:G:H2'	22:DB:2598:C:C6	2.56	0.40
22:DB:2766:U:OP1	25:DE:67:PHE:CB	2.68	0.40
22:DB:3153:G:H2'	22:DB:3154:G:O4'	2.22	0.40
22:DB:358:C:H2'	22:DB:359:G:O4'	2.21	0.40
22:DB:545:C:H2'	22:DB:546:A:O4'	2.22	0.40
22:DB:550:C:H2'	22:DB:551:A:O4'	2.22	0.40
22:DB:66:U:C4	22:DB:87:G:C6	3.09	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:DB:71:A:H4'	45:DY:44:ARG:CD	2.50	0.40
22:DB:69:G:H5'	22:DB:72:A:O4'	2.20	0.40
22:DB:742:G:H5''	24:DD:18:THR:HG1	1.77	0.40
22:DB:750:C:H2'	22:DB:751:G:C8	2.57	0.40
22:DB:823:U:H5''	22:DB:824:U:H5'	2.04	0.40
22:DB:843:G:H3'	22:DB:843:G:OP1	2.22	0.40
24:DD:119:ALA:O	24:DD:130:ALA:HB3	2.21	0.40
24:DD:133:LEU:O	24:DD:134:ARG:HG2	2.21	0.40
22:DB:742:G:N1	24:DD:18:THR:HA	2.33	0.40
24:DD:212:SER:CA	24:DD:215:LEU:HB2	2.50	0.40
22:DB:2658:A:N3	25:DE:187:ALA:CB	2.85	0.40
22:DB:2612:G:N9	25:DE:62:PRO:HG3	2.32	0.40
22:DB:2615:U:C5'	25:DE:79:ARG:HB2	2.50	0.40
26:DF:14:THR:OG1	26:DF:195:ILE:HD11	2.21	0.40
22:DB:687:G:C4'	26:DF:68:ARG:NH2	2.85	0.40
22:DB:2632:U:C4	28:DH:110:SER:HB2	2.56	0.40
28:DH:149:ARG:NH1	28:DH:162:VAL:HG23	2.36	0.40
28:DH:76:VAL:HA	28:DH:79:VAL:HG12	2.04	0.40
31:DK:43:VAL:HB	31:DK:167:LYS:H	1.86	0.40
31:DK:43:VAL:HG12	31:DK:44:VAL:O	2.21	0.40
33:DM:142:LEU:N	33:DM:142:LEU:HD22	2.36	0.40
35:DO:5:LYS:H	35:DO:5:LYS:HE3	1.85	0.40
36:DP:37:HIS:HB3	36:DP:38:ILE:H	1.79	0.40
37:DQ:40:ARG:NH1	37:DQ:40:ARG:HA	2.35	0.40
39:DS:22:VAL:O	39:DS:93:ILE:HG13	2.21	0.40
39:DS:22:VAL:O	39:DS:23:GLU:HG2	2.21	0.40
41:DU:29:VAL:HG12	41:DU:38:ILE:HD13	2.03	0.40
43:DW:51:LEU:N	43:DW:51:LEU:HD23	2.36	0.40
44:DX:29:GLU:H	44:DX:62:LEU:CB	2.34	0.40
1:EA:1077:G:O2'	1:EA:1078:U:H3'	2.21	0.40
1:EA:1191:A:H2'	1:EA:1192:C:C4	2.57	0.40
1:EA:1225:A:H5'	13:EM:102:ARG:HA	1.86	0.40
1:EA:1237:C:H5''	1:EA:1238:A:C8	2.57	0.40
1:EA:1272:G:H2'	1:EA:1273:G:H8	1.85	0.40
1:EA:1316:G:H5'	1:EA:1360:A:C2	2.56	0.40
1:EA:1373:G:H5''	7:EG:36:LYS:HB2	2.04	0.40
1:EA:155:C:O2'	1:EA:156:G:H5'	2.22	0.40
1:EA:278:G:H22	17:EQ:96:GLN:HE22	0.41	0.40
1:EA:518:C:H4'	1:EA:519:C:OP2	2.21	0.40
1:EA:533:A:H4'	1:EA:534:U:OP1	2.21	0.40
1:EA:627:G:O2'	1:EA:628:G:H5'	2.22	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:EA:958:A:O4'	19:ES:55:LYS:NZ	2.31	0.40
2:EB:25:ASN:HB2	2:EB:191:ASP:CA	2.51	0.40
2:EB:212:GLN:HG2	2:EB:212:GLN:O	2.22	0.40
2:EB:47:THR:O	2:EB:51:LEU:HG	2.22	0.40
3:EC:40:ARG:HG3	3:EC:40:ARG:NH1	2.36	0.40
5:EE:72:GLN:CD	5:EE:77:PRO:HD3	2.41	0.40
5:EE:79:GLU:CG	5:EE:92:LYS:HG2	2.52	0.40
7:EG:66:VAL:O	7:EG:70:LYS:HG3	2.21	0.40
8:EH:14:ARG:HA	8:EH:18:ARG:HH11	1.86	0.40
9:EI:40:LEU:O	9:EI:44:VAL:HG23	2.21	0.40
1:EA:520:A:P	12:EL:54:LYS:HE3	2.60	0.40
13:EM:4:ILE:CD1	13:EM:56:LEU:HD12	2.52	0.40
13:EM:49:THR:HG22	13:EM:50:GLU:H	1.86	0.40
13:EM:70:LEU:C	13:EM:72:ALA:N	2.74	0.40
15:EO:68:ARG:HG2	15:EO:72:ARG:HD2	2.04	0.40
16:EP:67:THR:HG22	16:EP:68:ASP:N	2.36	0.40
17:EQ:65:ILE:CD1	17:EQ:70:ARG:HA	2.51	0.40
19:ES:12:ASP:HB3	19:ES:14:HIS:NE2	2.37	0.40
20:ET:88:VAL:CG1	20:ET:92:LEU:HD12	2.51	0.40
22:FB:2040:A:N3	48:F2:2:ALA:CA	2.80	0.40
49:F3:21:TYR:HD2	49:F3:21:TYR:HA	1.65	0.40
51:F5:64:ARG:OXT	51:F5:64:ARG:HG2	2.22	0.40
53:F7:164:GLN:HB3	53:F7:164:GLN:HE21	1.50	0.40
53:F7:81:PRO:HB2	53:F7:82:LYS:H	1.74	0.40
23:FA:10:U:C2	36:FP:49:GLN:HB2	2.57	0.40
23:FA:44:C:H5'	27:FG:66:ILE:HD12	2.03	0.40
22:FB:1000:G:OP1	46:FZ:27:LYS:HA	2.20	0.40
22:FB:984:A:H2'	22:FB:1200:G:N2	2.36	0.40
22:FB:1213:U:H1'	38:FR:4:ALA:HA	2.03	0.40
22:FB:1288:A:C2	35:FO:16:ALA:CA	3.04	0.40
22:FB:1488:G:C5	22:FB:1533:G:C6	3.09	0.40
22:FB:1555:A:N3	22:FB:1555:A:C2'	2.80	0.40
22:FB:1625:A:H2'	22:FB:1632:A:H4'	2.02	0.40
22:FB:1845:A:H2	22:FB:1846:A:H62	1.69	0.40
22:FB:1912:G:H3'	22:FB:1912:G:N3	2.37	0.40
22:FB:587:A:H2'	22:FB:2001:G:H5'	2.04	0.40
22:FB:213:C:H2'	22:FB:214:C:C2	2.57	0.40
22:FB:2399:C:C5'	51:F5:33:ASN:N	2.85	0.40
22:FB:2412:A:H5''	22:FB:2413:A:OP1	2.21	0.40
22:FB:2419:C:N3	22:FB:2420:C:H1'	2.37	0.40
22:FB:2421:C:O2'	22:FB:2422:C:H5'	2.20	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:FB:245:C:H1'	22:FB:438:G:N2	2.36	0.40
22:FB:2597:G:H2'	22:FB:2598:C:C6	2.56	0.40
22:FB:2713:A:C8	25:FE:205:SER:C	2.94	0.40
22:FB:338:G:N3	42:FV:77:HIS:CE1	2.87	0.40
22:FB:504:G:OP1	40:FT:29:LYS:NZ	2.44	0.40
22:FB:509:U:H4'	42:FV:54:ILE:CD1	2.51	0.40
22:FB:59:G:C5	22:FB:73:A:C6	3.10	0.40
22:FB:823:U:H5''	22:FB:824:U:H5'	2.04	0.40
22:FB:843:G:OP1	22:FB:843:G:H3'	2.22	0.40
22:FB:953:G:O4'	22:FB:1203:A:N3	2.55	0.40
24:FD:31:LYS:HE3	24:FD:33:LEU:O	2.21	0.40
25:FE:116:VAL:HG22	25:FE:156:MET:HA	2.01	0.40
25:FE:98:GLU:CD	25:FE:175:ILE:HG13	2.41	0.40
26:FF:115:GLY:CA	26:FF:185:ARG:HG3	2.51	0.40
28:FH:18:ASN:ND2	28:FH:18:ASN:N	2.68	0.40
28:FH:19:ALA:HA	28:FH:24:PHE:HE1	1.86	0.40
32:FL:123:PHE:CB	32:FL:126:ILE:HB	2.50	0.40
33:FM:91:ASP:N	33:FM:121:HIS:HB3	2.32	0.40
34:FN:12:LYS:HB3	34:FN:13:GLN:H	1.59	0.40
37:FQ:38:LYS:HD3	37:FQ:50:PHE:O	2.22	0.40
38:FR:75:ASN:O	38:FR:76:TYR:HB3	2.20	0.40
43:FW:41:ARG:HH11	43:FW:44:ARG:HD2	1.86	0.40
1:GA:1372:U:O2'	1:GA:1373:G:H5'	2.21	0.40
1:GA:892:A:O2'	1:GA:1415:G:H4'	2.21	0.40
1:GA:1421:G:N2	1:GA:1422:G:H1'	2.36	0.40
1:AA:191:G:N7	1:GA:191:G:OP2	2.54	0.40
1:GA:236:G:O2'	17:GQ:25:ARG:HG2	2.21	0.40
1:GA:370:C:H42	1:GA:390:C:H42	1.67	0.40
1:GA:507:C:P	1:GA:508:C:H3'	2.62	0.40
1:GA:419:C:H4'	1:GA:512:U:O2'	2.22	0.40
1:GA:697:U:H3	1:GA:798:G:HO2'	1.68	0.40
1:GA:881:G:H2'	1:GA:882:C:H6	1.86	0.40
1:GA:22:G:H4'	1:GA:885:G:C1'	2.51	0.40
2:GB:119:GLU:CB	2:GB:153:ARG:HH12	2.35	0.40
2:GB:95:GLN:CD	2:GB:96:ARG:H	2.25	0.40
4:GD:29:PRO:HG3	4:GD:34:GLU:CG	2.51	0.40
6:GF:53:ALA:C	6:GF:54:LYS:HG2	2.41	0.40
7:GG:125:MET:C	7:GG:127:ALA:H	2.25	0.40
7:GG:92:SER:C	7:GG:96:GLN:HE21	2.24	0.40
8:GH:14:ARG:HA	8:GH:18:ARG:HH11	1.86	0.40
12:GL:77:LEU:HD21	12:GL:107:ALA:HA	2.03	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:GL:42:THR:HG23	12:GL:53:ARG:N	2.36	0.40
13:GM:4:ILE:CD1	13:GM:56:LEU:HD12	2.52	0.40
14:GN:41:ARG:HA	14:GN:44:LEU:CD2	2.47	0.40
18:GR:62:GLU:O	18:GR:66:LEU:HB2	2.21	0.40
18:GR:76:LEU:C	18:GR:78:LEU:H	2.24	0.40
19:GS:73:GLU:HG2	19:GS:74:PHE:CE1	2.56	0.40
20:GT:15:ARG:HA	20:GT:18:GLN:OE1	2.21	0.40
1:GA:195:A:OP2	20:GT:65:LYS:CG	2.69	0.40
22:HB:2064:U:OP1	47:H1:16:TYR:CE2	2.73	0.40
53:H7:64:VAL:HG13	53:H7:110:PHE:HA	2.04	0.40
22:HB:1095:A:C2	22:HB:1116:U:H4'	2.56	0.40
22:HB:1118:G:O2'	22:HB:1119:U:H5'	2.21	0.40
22:HB:1239:A:OP2	39:HS:73:LYS:NZ	2.50	0.40
22:HB:1326:U:H5''	22:HB:1345:G:H4'	2.04	0.40
22:HB:1414:G:O2'	22:HB:1538:A:C4	2.73	0.40
22:HB:1285:A:N3	22:HB:1634:A:H1'	2.36	0.40
22:HB:1639:U:H2'	22:HB:1640:C:C6	2.56	0.40
22:HB:1908:C:C3'	22:HB:1909:U:H4'	2.51	0.40
22:HB:1924:C:N4	22:HB:1948:C:H4'	2.36	0.40
22:HB:1995:G:H5'	40:HT:117:ILE:HB	2.02	0.40
22:HB:2059:U:H2'	22:HB:2060:A:C5'	2.49	0.40
22:HB:1686:A:HO2'	22:HB:2528:G:P	2.45	0.40
22:HB:2671:C:O2'	22:HB:2822:U:H1'	2.21	0.40
22:HB:2859:U:C2	48:H2:51:TYR:CD1	2.95	0.40
22:HB:48:A:H5'	22:HB:49:U:OP1	2.22	0.40
22:HB:579:G:N2	22:HB:2477:C:H4'	2.35	0.40
22:HB:645:G:H2'	22:HB:646:C:O4'	2.22	0.40
24:HD:165:VAL:HG13	24:HD:175:VAL:HG22	2.04	0.40
24:HD:205:VAL:HG22	24:HD:206:LEU:N	2.36	0.40
24:HD:248:THR:O	24:HD:249:PRO:C	2.60	0.40
24:HD:182:LEU:CB	24:HD:269:PHE:HB3	2.51	0.40
25:HE:104:ALA:HB1	25:HE:196:VAL:HG11	2.02	0.40
26:HF:74:VAL:HA	26:HF:75:PRO:HD3	1.84	0.40
27:HG:100:LEU:O	27:HG:104:ILE:N	2.52	0.40
27:HG:7:LYS:O	27:HG:11:GLN:HB3	2.21	0.40
28:HH:109:TYR:CD1	28:HH:111:HIS:HB3	2.56	0.40
33:HM:46:GLY:O	33:HM:48:PHE:N	2.54	0.40
33:HM:7:LYS:N	33:HM:8:PRO:CD	2.79	0.40
34:HN:34:GLY:O	34:HN:35:LEU:HB2	2.20	0.40
22:HB:2474:G:C1'	34:HN:83:ARG:HD2	2.52	0.40
34:HN:95:VAL:HG23	34:HN:96:SER:N	2.33	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:HS:94:LYS:NZ	39:HS:94:LYS:HB2	2.36	0.40
22:HB:512:A:C8	40:HT:16:GLN:CD	2.81	0.40
43:HW:121:GLN:OE1	43:HW:122:ILE:HG22	2.21	0.40
45:HY:55:THR:O	45:HY:56:VAL:CG2	2.68	0.40
1:IA:1005:A:H2'	1:IA:1006:C:C6	2.57	0.40
1:IA:1309:G:H8	13:IM:99:ARG:NH2	2.19	0.40
1:IA:1432:G:H2'	1:IA:1467:G:C6	2.55	0.40
1:IA:782:A:H5'	1:IA:1515:C:O4'	2.21	0.40
1:IA:243:A:H2	1:IA:245:C:H2'	1.86	0.40
1:IA:507:C:P	1:IA:508:C:H3'	2.62	0.40
1:IA:690:G:OP2	11:IK:27:ASN:CB	2.70	0.40
1:IA:697:U:H3	1:IA:798:G:HO2'	1.68	0.40
1:IA:889:A:H4'	1:IA:890:G:H4'	2.02	0.40
1:IA:958:A:H1'	19:IS:55:LYS:HD3	1.94	0.40
1:IA:960:U:HO2'	1:IA:961:U:P	2.44	0.40
2:IB:69:LEU:HD22	2:IB:162:ILE:HG23	2.03	0.40
3:IC:40:ARG:HG3	3:IC:40:ARG:NH1	2.36	0.40
4:ID:10:ARG:HE	4:ID:14:ARG:NH2	2.19	0.40
5:IE:81:GLU:HG2	5:IE:91:LEU:HG	2.02	0.40
6:IF:30:LEU:HD22	6:IF:37:VAL:HG13	2.02	0.40
7:IG:146:GLU:C	7:IG:148:ASN:N	2.74	0.40
1:IA:641:U:P	8:IH:127:LEU:HD11	2.49	0.40
8:IH:36:LEU:CD1	8:IH:59:LEU:HD13	2.51	0.40
9:II:107:ARG:HG3	9:II:107:ARG:H	1.66	0.40
9:II:46:ALA:HB2	9:II:74:ILE:CG2	2.51	0.40
10:IJ:3:LYS:N	10:IJ:75:ILE:HG23	2.37	0.40
1:IA:691:G:H3'	11:IK:26:ASN:ND2	2.36	0.40
12:IL:77:LEU:HD21	12:IL:107:ALA:HA	2.02	0.40
1:IA:1226:C:H6	13:IM:104:ARG:H	1.46	0.40
1:IA:1360:A:P	14:IN:31:ARG:NH2	2.94	0.40
1:IA:764:C:C5'	15:IO:50:HIS:HB3	2.51	0.40
16:IP:59:TRP:HB3	16:IP:64:ALA:HB3	2.02	0.40
16:IP:71:ARG:HH21	16:IP:74:LEU:CB	2.34	0.40
17:IQ:65:ILE:N	17:IQ:65:ILE:HD12	2.36	0.40
47:J1:17:GLN:HG2	47:J1:31:ILE:HD11	2.03	0.40
51:J5:41:ILE:HD13	51:J5:42:ARG:HH21	1.86	0.40
51:J5:60:LEU:O	51:J5:61:MET:HB2	2.21	0.40
22:JB:2722:C:H41	52:J6:19:ARG:HH12	1.68	0.40
53:J7:64:VAL:HG13	53:J7:110:PHE:HA	2.04	0.40
53:J7:201:ARG:HH21	53:J7:202:ASN:HB2	1.85	0.40
23:JA:17:A:H61	23:JA:112:A:N6	2.20	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:JA:12:C:H2'	23:JA:13:C:H4'	2.02	0.40
22:JB:1047:G:C3'	22:JB:1048:U:C5'	2.93	0.40
22:JB:1095:A:C2	22:JB:1116:U:H4'	2.57	0.40
22:JB:1175:A:O4'	39:JS:89:ASN:ND2	2.54	0.40
22:JB:1305:C:H2'	22:JB:1306:U:H5	1.86	0.40
22:JB:1745:C:C2	37:JQ:109:GLU:HG2	2.56	0.40
22:JB:1764:A:OP2	22:JB:1820:G:H5'	2.22	0.40
22:JB:2181:A:C2	29:JI:28:TRP:CG	3.10	0.40
22:JB:2231:G:H2'	22:JB:2232:G:O4'	2.21	0.40
22:JB:2463:G:H5'	34:JN:47:GLN:CG	2.33	0.40
22:JB:2491:C:H6	22:JB:2491:C:O5'	2.05	0.40
22:JB:2499:C:H2'	22:JB:2500:C:C6	2.57	0.40
22:JB:2528:G:C2	22:JB:2539:C:C4	3.10	0.40
22:JB:2595:C:H2'	22:JB:2596:C:H6	1.86	0.40
22:JB:2736:U:H2'	22:JB:2738:A:OP2	2.21	0.40
22:JB:3126:A:OP1	53:J7:60:LYS:NZ	2.54	0.40
22:JB:346:C:O2'	22:JB:347:C:H5'	2.21	0.40
22:JB:456:C:OP2	26:JF:42:THR:HG23	2.22	0.40
22:JB:563:U:H2'	22:JB:564:U:H6	1.87	0.40
22:JB:796:A:H2'	22:JB:797:A:C4'	2.47	0.40
22:JB:952:A:OP1	33:JM:38:LYS:HE2	2.21	0.40
24:JD:165:VAL:HG13	24:JD:175:VAL:HG22	2.04	0.40
22:JB:2218:G:OP2	24:JD:248:THR:HG23	2.21	0.40
24:JD:63:ARG:HH22	24:JD:157:ARG:HE	1.69	0.40
27:JG:100:LEU:O	27:JG:104:ILE:N	2.52	0.40
27:JG:126:GLY:HA3	27:JG:160:ALA:HB3	2.04	0.40
28:JH:152:ARG:O	28:JH:153:LYS:C	2.59	0.40
22:JB:2074:U:C4'	29:JI:24:TYR:OH	2.68	0.40
22:JB:1090:C:O2'	30:JJ:132:ARG:CZ	2.70	0.40
31:JK:83:ILE:HG22	31:JK:84:ASN:H	1.85	0.40
32:JL:32:LYS:HB3	32:JL:33:GLY:H	1.68	0.40
34:JN:36:ILE:H	34:JN:36:ILE:HD13	1.85	0.40
34:JN:73:LYS:HB3	34:JN:94:TRP:O	2.22	0.40
35:JO:21:ALA:O	35:JO:26:THR:HG23	2.22	0.40
40:JT:72:LEU:HA	40:JT:126:ILE:HG21	2.02	0.40
42:JV:106:VAL:HG22	42:JV:113:THR:CB	2.51	0.40
43:JW:18:MET:HG2	43:JW:19:ILE:N	2.37	0.40
43:JW:25:ASN:N	43:JW:25:ASN:ND2	2.68	0.40
43:JW:64:ALA:HB1	43:JW:84:TYR:O	2.21	0.40
45:JY:47:ARG:NE	45:JY:47:ARG:HA	2.37	0.40
1:AA:1005:A:H2'	1:AA:1006:C:C6	2.57	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1043:C:H2'	1:AA:1044:A:C8	2.56	0.40
1:AA:105:G:H2'	1:AA:106:C:C6	2.57	0.40
1:AA:1182:G:H5'	1:AA:1184:G:C5'	2.52	0.40
1:AA:1203:C:OP1	14:AN:2:ALA:CB	2.70	0.40
1:AA:1237:C:H5''	1:AA:1238:A:C8	2.57	0.40
1:AA:1249:C:O3'	9:AI:67:GLY:C	2.59	0.40
1:AA:1399:C:H4'	1:AA:1400:C:C5'	2.51	0.40
1:AA:13:U:C2	1:AA:914:A:C8	3.10	0.40
1:AA:1395:C:C5'	1:AA:1401:G:H21	2.26	0.40
1:AA:155:C:O2'	1:AA:156:G:H5'	2.21	0.40
1:AA:697:U:H3	1:AA:798:G:HO2'	1.69	0.40
1:AA:775:G:N2	1:AA:805:C:N4	2.70	0.40
1:AA:880:C:H2'	1:AA:881:G:H5'	2.04	0.40
1:AA:939:G:H1'	1:AA:1375:A:N3	2.37	0.40
2:AB:171:ALA:HA	2:AB:174:VAL:CG2	2.50	0.40
1:AA:1112:C:C2'	3:AC:178:LEU:HD23	2.45	0.40
1:AA:620:C:O2'	4:AD:138:TYR:HD1	1.96	0.40
4:AD:157:LEU:HA	4:AD:160:GLN:NE2	2.37	0.40
4:AD:194:LEU:HD22	4:AD:194:LEU:N	2.35	0.40
8:AH:36:LEU:HD23	8:AH:39:LEU:CD2	2.52	0.40
10:AJ:90:LEU:N	10:AJ:91:PRO:HD2	2.37	0.40
15:AO:38:ARG:O	15:AO:41:GLU:HB3	2.20	0.40
15:AO:62:GLN:NE2	15:AO:66:LEU:HG	2.32	0.40
17:AQ:68:ARG:O	17:AQ:69:LYS:HE3	2.22	0.40
18:AR:76:LEU:C	18:AR:78:LEU:H	2.25	0.40
47:B1:31:ILE:CG2	47:B1:32:HIS:H	2.23	0.40
51:B5:3:LYS:O	51:B5:5:LYS:HD2	2.21	0.40
53:B7:160:LYS:HG2	53:B7:161:ASP:OD2	2.21	0.40
22:BB:1861:G:C2	53:B7:199:ASN:HB2	2.53	0.40
23:BA:115:G:H2'	23:BA:116:C:O4'	2.22	0.40
22:BB:1134:C:H2'	22:BB:1135:C:C5	2.56	0.40
22:BB:1305:C:H2'	22:BB:1306:U:H5	1.86	0.40
22:BB:1316:G:H2'	22:BB:1317:G:C8	2.57	0.40
22:BB:1369:G:H2'	22:BB:1370:U:O4'	2.21	0.40
22:BB:1356:G:O4'	22:BB:1613:G:OP2	2.40	0.40
22:BB:1750:A:C5	22:BB:2675:U:H1'	2.57	0.40
22:BB:1769:U:H2'	22:BB:1775:A:C2	2.57	0.40
22:BB:588:G:C5'	22:BB:2001:G:H5''	2.42	0.40
22:BB:2310:G:O2'	44:BX:70:ILE:HB	2.18	0.40
22:BB:425:A:C6	22:BB:2391:A:N3	2.89	0.40
22:BB:2412:A:H5''	22:BB:2413:A:OP1	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:BB:2498:U:H5''	22:BB:2499:C:OP1	2.21	0.40
22:BB:2633:A:H61	22:BB:2646:C:H42	1.68	0.40
22:BB:1681:A:C5	22:BB:2706:U:C4	3.08	0.40
22:BB:2503:G:O2'	22:BB:2721:A:C2	2.69	0.40
22:BB:2736:U:H2'	22:BB:2738:A:OP2	2.21	0.40
22:BB:309:G:H1'	22:BB:351:A:H61	1.85	0.40
22:BB:3168:G:H2'	22:BB:3170:A:OP2	2.22	0.40
22:BB:533:C:C4'	22:BB:550:C:O2	2.69	0.40
22:BB:217:U:C5'	22:BB:633:G:O2'	2.69	0.40
22:BB:656:U:HO2'	22:BB:657:A:H8	1.68	0.40
22:BB:760:U:C5'	40:BT:111:ARG:HB2	2.50	0.40
22:BB:876:A:H1'	23:BA:102:A:H2	1.87	0.40
22:BB:927:C:H2'	22:BB:928:G:C8	2.56	0.40
22:BB:953:G:O4'	22:BB:1203:A:N3	2.55	0.40
24:BD:75:VAL:HB	24:BD:97:TYR:CE2	2.56	0.40
25:BE:167:VAL:O	25:BE:168:GLN:HB2	2.20	0.40
22:BB:334:G:H3'	26:BF:162:ARG:O	2.20	0.40
27:BG:13:ARG:HB3	27:BG:14:PRO:CD	2.45	0.40
27:BG:31:ILE:HG12	27:BG:96:MET:CE	2.51	0.40
28:BH:148:VAL:C	28:BH:149:ARG:HD2	2.42	0.40
30:BJ:78:ILE:CG2	30:BJ:107:ILE:HG23	2.51	0.40
31:BK:110:LEU:HD23	31:BK:111:LYS:H	1.87	0.40
31:BK:43:VAL:HG12	31:BK:44:VAL:O	2.21	0.40
34:BN:105:PHE:CZ	34:BN:112:GLU:HA	2.56	0.40
36:BP:16:LYS:HA	36:BP:16:LYS:HE2	2.03	0.40
38:BR:101:ARG:O	38:BR:103:PRO:HD3	2.21	0.40
41:BU:4:TYR:O	41:BU:5:ASP:HB2	2.22	0.40
42:BV:46:VAL:CG1	42:BV:77:HIS:HA	2.51	0.40
44:BX:41:ARG:O	44:BX:66:LYS:HA	2.21	0.40
45:BY:25:LEU:HB3	45:BY:47:ARG:HH22	1.86	0.40
1:CA:1120:G:O2'	1:CA:1121:U:H5'	2.21	0.40
1:CA:1272:G:H2'	1:CA:1273:G:H8	1.85	0.40
1:CA:1348:U:OP2	9:CI:109:VAL:CA	2.43	0.40
1:CA:243:A:H2	1:CA:245:C:H2'	1.86	0.40
1:CA:533:A:H4'	1:CA:534:U:OP1	2.21	0.40
1:CA:827:U:H4'	8:CH:19:VAL:CG2	2.51	0.40
1:CA:847:C:H2'	1:CA:848:G:C8	2.57	0.40
1:CA:870:U:H4'	1:CA:871:U:O5'	2.20	0.40
1:CA:880:C:H2'	1:CA:881:G:H5'	2.04	0.40
1:CA:892:A:O2'	1:CA:893:C:H5'	2.22	0.40
1:CA:973:G:OP2	1:CA:974:A:H2'	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CB:98:LEU:H	2:CB:101:MET:CE	2.34	0.40
2:CB:155:LEU:HD13	2:CB:157:ARG:O	2.21	0.40
2:CB:95:GLN:CD	2:CB:96:ARG:H	2.25	0.40
4:CD:13:ARG:O	4:CD:39:PRO:HB3	2.22	0.40
5:CE:13:ILE:HG22	5:CE:30:ALA:HB2	2.04	0.40
7:CG:108:ALA:CA	7:CG:111:ARG:HD2	2.51	0.40
8:CH:9:MET:HA	8:CH:12:ARG:CZ	2.52	0.40
13:CM:65:LYS:HG3	13:CM:70:LEU:HA	2.04	0.40
14:CN:39:LEU:HB3	14:CN:44:LEU:CD1	2.51	0.40
15:CO:16:ALA:HA	15:CO:26:GLU:CB	2.51	0.40
17:CQ:26:GLN:HE21	17:CQ:37:LYS:HB2	1.85	0.40
47:D1:17:GLN:HG3	47:D1:33:VAL:O	2.21	0.40
23:DA:115:G:H2'	23:DA:116:C:O4'	2.21	0.40
22:DB:1011:A:H5'	46:DZ:7:ARG:NE	2.36	0.40
22:DB:1030:U:P	22:DB:1046:U:O4'	2.79	0.40
22:DB:1625:A:H2'	22:DB:1632:A:H4'	2.02	0.40
22:DB:1769:U:H2'	22:DB:1775:A:C2	2.57	0.40
22:DB:2224:U:H6	22:DB:2224:U:O5'	2.04	0.40
22:DB:2412:A:H5''	22:DB:2413:A:OP1	2.21	0.40
22:DB:2498:U:H5''	22:DB:2499:C:OP1	2.21	0.40
22:DB:2530:C:H2'	22:DB:2531:U:C6	2.56	0.40
22:DB:2658:A:O2'	25:DE:188:ILE:CA	2.66	0.40
22:DB:2698:G:H2'	22:DB:2699:G:C8	2.56	0.40
22:DB:2717:G:C6	22:DB:2748:C:N4	2.87	0.40
22:DB:3122:U:H2'	22:DB:3123:G:C8	2.57	0.40
22:DB:414:A:H2'	22:DB:415:A:O4'	2.21	0.40
22:DB:418:C:H3'	53:D7:197:GLU:CD	2.42	0.40
22:DB:542:A:C8	22:DB:570:G:N2	2.79	0.40
22:DB:606:A:C2	33:DM:23:PRO:HA	2.56	0.40
22:DB:627:A:O5'	26:DF:100:ARG:NH1	2.54	0.40
22:DB:822:G:H2'	22:DB:823:U:C6	2.56	0.40
22:DB:88:G:OP2	22:DB:90:G:H4'	2.22	0.40
22:DB:1789:U:H5''	24:DD:257:LEU:CB	2.51	0.40
24:DD:31:LYS:HD3	24:DD:33:LEU:N	2.36	0.40
24:DD:31:LYS:HE3	24:DD:33:LEU:O	2.21	0.40
22:DB:2600:A:C5'	25:DE:159:HIS:O	2.69	0.40
22:DB:2600:A:H4'	25:DE:159:HIS:O	2.14	0.40
27:DG:127:ASN:HA	27:DG:157:VAL:HA	2.04	0.40
27:DG:126:GLY:HA3	27:DG:160:ALA:HB3	2.04	0.40
28:DH:19:ALA:HA	28:DH:24:PHE:HE1	1.86	0.40
30:DJ:76:TYR:CZ	30:DJ:80:LYS:HB2	2.56	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:DB:2760:G:C3'	31:DK:149:LYS:CD	2.82	0.40
31:DK:65:LYS:C	31:DK:67:ARG:N	2.73	0.40
32:DL:24:VAL:HG23	32:DL:51:ILE:HD12	2.03	0.40
33:DM:143:PRO:CG	33:DM:144:GLU:H	2.35	0.40
34:DN:70:PHE:CG	34:DN:71:PRO:HD2	2.56	0.40
36:DP:16:LYS:HE2	36:DP:16:LYS:HA	2.04	0.40
39:DS:94:LYS:HB2	39:DS:94:LYS:NZ	2.37	0.40
42:DV:48:VAL:CG1	42:DV:50:GLY:H	2.27	0.40
43:DW:74:ARG:NH2	43:DW:74:ARG:HG2	2.36	0.40
43:DW:25:ASN:ND2	43:DW:85:MET:HB2	2.37	0.40
1:EA:1005:A:H2'	1:EA:1006:C:C6	2.57	0.40
1:EA:1443:G:H2'	1:EA:1445:U:OP1	2.21	0.40
1:EA:109:A:C8	1:EA:326:G:H2'	2.56	0.40
1:EA:509:A:HO2'	1:EA:510:A:C5'	2.35	0.40
1:EA:683:G:N2	11:EK:39:PRO:HG3	2.36	0.40
1:EA:775:G:N2	1:EA:805:C:N4	2.70	0.40
1:EA:892:A:O2'	1:EA:893:C:H5'	2.22	0.40
1:EA:908:A:H2'	1:EA:909:A:H8	1.86	0.40
1:EA:973:G:OP2	1:EA:974:A:H2'	2.21	0.40
2:EB:31:TYR:OH	2:EB:49:GLU:HB3	2.22	0.40
2:EB:54:THR:O	2:EB:58:ILE:HG13	2.21	0.40
3:EC:9:GLY:HA2	3:EC:12:LEU:CD1	2.47	0.40
13:EM:29:ARG:NH2	13:EM:66:LEU:HD11	2.36	0.40
13:EM:76:ALA:HA	13:EM:79:LYS:HB2	2.02	0.40
14:EN:33:VAL:CG1	14:EN:40:CYS:HB3	2.48	0.40
16:EP:21:VAL:HG21	16:EP:34:GLU:HB3	2.04	0.40
17:EQ:65:ILE:N	17:EQ:65:ILE:HD12	2.36	0.40
19:ES:6:LYS:HB3	19:ES:7:LYS:NZ	2.35	0.40
47:F1:46:GLU:OE1	47:F1:73:LYS:HD3	2.21	0.40
53:F7:34:LEU:HD23	53:F7:203:ILE:HA	2.04	0.40
53:F7:64:VAL:HG13	53:F7:110:PHE:HA	2.04	0.40
23:FA:115:G:H2'	23:FA:116:C:O4'	2.22	0.40
22:FB:1095:A:C2	22:FB:1116:U:H4'	2.57	0.40
22:FB:1134:C:H2'	22:FB:1135:C:C5	2.56	0.40
22:FB:1141:U:N3	22:FB:2008:C:H5"	2.36	0.40
22:FB:1270:C:H4'	26:FF:77:PHE:CD1	2.56	0.40
22:FB:1315:A:H5"	22:FB:1316:G:OP1	2.22	0.40
22:FB:1364:C:H5'	22:FB:1588:A:C4'	2.50	0.40
22:FB:1454:U:H2'	22:FB:1455:C:C6	2.56	0.40
22:FB:1966:C:O2'	22:FB:1967:U:H5'	2.22	0.40
22:FB:428:A:C2	22:FB:2388:G:C2	3.10	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:FB:2491:C:O5'	22:FB:2491:C:H6	2.05	0.40
22:FB:2633:A:H61	22:FB:2646:C:H42	1.68	0.40
22:FB:2675:U:H2'	22:FB:2676:G:C8	2.57	0.40
22:FB:2715:C:H2'	22:FB:2716:G:C8	2.57	0.40
22:FB:2769:C:O2'	22:FB:2867:G:C6	2.70	0.40
22:FB:358:C:H2'	22:FB:359:G:O4'	2.21	0.40
22:FB:458:G:P	38:FR:5:LYS:NZ	2.86	0.40
22:FB:504:G:O2'	40:FT:25:PHE:CD2	2.70	0.40
22:FB:550:C:H2'	22:FB:551:A:O4'	2.22	0.40
22:FB:597:U:O4'	33:FM:28:LYS:NZ	2.48	0.40
22:FB:796:A:C8	22:FB:797:A:H4'	2.56	0.40
22:FB:88:G:OP2	22:FB:90:G:H4'	2.22	0.40
22:FB:890:U:H1'	22:FB:912:A:N6	2.36	0.40
22:FB:2612:G:N9	25:FE:62:PRO:HG3	2.37	0.40
22:FB:2043:A:C3'	26:FF:62:LYS:NZ	2.82	0.40
28:FH:69:ARG:CZ	28:FH:69:ARG:HB3	2.50	0.40
23:FA:8:C:C2'	36:FP:32:TYR:CE1	3.04	0.40
38:FR:101:ARG:O	38:FR:103:PRO:HD3	2.21	0.40
39:FS:22:VAL:O	39:FS:23:GLU:HG2	2.22	0.40
22:FB:504:G:C4'	40:FT:25:PHE:HE2	2.16	0.40
43:FW:127:PRO:HB2	43:FW:128:ARG:H	1.66	0.40
23:FA:14:C:N3	44:FX:52:GLY:O	2.54	0.40
45:FY:10:GLN:HB2	45:FY:10:GLN:HE21	1.69	0.40
1:GA:1191:A:H2'	1:GA:1192:C:C4	2.57	0.40
1:GA:1257:U:H4'	1:GA:1258:G:H5'	2.02	0.40
1:GA:607:A:H5''	1:GA:630:G:N2	2.35	0.40
1:GA:60:A:H62	20:GT:12:ALA:H	1.64	0.40
1:GA:627:G:O2'	1:GA:628:G:H5'	2.21	0.40
1:GA:731:G:C5'	1:GA:766:A:H4'	2.52	0.40
1:GA:939:G:H1'	1:GA:1375:A:N3	2.37	0.40
2:GB:25:ASN:HB2	2:GB:191:ASP:CA	2.51	0.40
2:GB:47:THR:O	2:GB:51:LEU:HG	2.21	0.40
2:GB:54:THR:O	2:GB:58:ILE:HG13	2.21	0.40
1:GA:1190:G:OP2	3:GC:5:ILE:HG13	2.21	0.40
4:GD:70:ILE:H	4:GD:70:ILE:HG13	1.73	0.40
1:GA:1398:A:C6	5:GE:22:GLY:N	2.75	0.40
5:GE:79:GLU:CG	5:GE:92:LYS:HG2	2.52	0.40
1:GA:1224:G:C3'	13:GM:102:ARG:HB3	2.51	0.40
13:GM:68:GLY:HA2	13:GM:71:ARG:NE	2.36	0.40
13:GM:66:LEU:HA	13:GM:70:LEU:HB2	2.02	0.40
13:GM:76:ALA:HA	13:GM:79:LYS:HB2	2.02	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:GO:15:PHE:CD2	15:GO:81:LEU:HD11	2.56	0.40
17:GQ:46:ASP:CG	17:GQ:49:GLU:HA	2.40	0.40
17:GQ:68:ARG:O	17:GQ:69:LYS:HE3	2.22	0.40
1:GA:663:A:P	18:GR:65:ILE:CD1	2.88	0.40
11:GK:116:HIS:CG	18:GR:81:PHE:HE2	2.40	0.40
1:AA:180:U:H6	20:GT:101:GLY:HA2	1.85	0.40
22:HB:1377:G:H3'	47:H1:3:LYS:HE2	1.56	0.40
49:H3:11:LYS:HD3	49:H3:11:LYS:N	2.36	0.40
50:H4:16:HIS:NE2	50:H4:21:ARG:NH2	2.69	0.40
53:H7:111:LEU:HD21	53:H7:151:PHE:HB2	2.03	0.40
22:HB:1247:U:H2'	22:HB:1248:G:C8	2.56	0.40
22:HB:1248:G:H2'	22:HB:1249:G:C8	2.57	0.40
22:HB:1284:G:C5	40:HT:107:ILE:HD11	2.57	0.40
22:HB:1483:G:C1'	22:HB:1484:G:N3	2.84	0.40
22:HB:1591:U:O2'	22:HB:1592:U:H5'	2.20	0.40
22:HB:1803:G:H1'	24:HD:47:GLY:CA	2.43	0.40
22:HB:1995:G:H5'	40:HT:117:ILE:CA	2.51	0.40
22:HB:2224:U:C3'	22:HB:2225:G:H5'	2.47	0.40
22:HB:2231:G:H2'	22:HB:2232:G:O4'	2.21	0.40
22:HB:2232:G:N2	22:HB:2233:C:N4	2.70	0.40
22:HB:2273:C:H5	36:HP:11:LEU:HD21	1.86	0.40
22:HB:2412:A:H5''	22:HB:2413:A:OP1	2.21	0.40
22:HB:2504:G:O4'	22:HB:2721:A:C2	2.74	0.40
22:HB:10:A:C5	22:HB:2608:A:C6	3.09	0.40
22:HB:1750:A:N1	22:HB:2675:U:O2	2.54	0.40
22:HB:968:C:C2	22:HB:2438:A:H5'	2.56	0.40
22:HB:1885:C:HO2'	24:HD:242:ALA:HB2	1.84	0.40
24:HD:27:LYS:HZ3	24:HD:28:ARG:N	2.20	0.40
25:HE:107:THR:CA	25:HE:164:ARG:HH22	2.35	0.40
30:HJ:78:ILE:CG2	30:HJ:107:ILE:HG23	2.51	0.40
31:HK:43:VAL:HG12	31:HK:44:VAL:O	2.21	0.40
32:HL:2:ILE:CG2	32:HL:44:TYR:HB2	2.51	0.40
34:HN:128:ILE:HG13	34:HN:129:GLN:N	2.37	0.40
34:HN:98:VAL:HG22	34:HN:99:LYS:H	1.82	0.40
34:HN:39:GLU:H	34:HN:99:LYS:HD3	1.86	0.40
35:HO:98:LEU:HB3	35:HO:99:ARG:H	1.67	0.40
36:HP:18:ARG:HA	36:HP:18:ARG:HD3	1.92	0.40
37:HQ:60:SER:HB2	37:HQ:105:TYR:CZ	2.57	0.40
39:HS:35:LEU:O	39:HS:36:LYS:HD2	2.22	0.40
39:HS:62:GLU:O	39:HS:95:ILE:HG23	2.22	0.40
42:HV:35:LYS:O	42:HV:37:LEU:HD23	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:HV:98:ILE:O	42:HV:98:ILE:HG22	2.22	0.40
43:HW:74:ARG:HG2	43:HW:74:ARG:NH2	2.36	0.40
44:HX:32:LYS:HG3	44:HX:33:ALA:N	2.35	0.40
45:HY:22:LYS:HD3	45:HY:47:ARG:CZ	2.51	0.40
1:IA:1035:A:H2'	1:IA:1036:G:N2	2.33	0.40
1:IA:1194:U:H5''	5:IE:23:GLY:CA	2.52	0.40
1:IA:262:A:H5'	20:IT:74:LYS:HB3	2.03	0.40
1:IA:518:C:H4'	1:IA:519:C:OP2	2.22	0.40
1:IA:892:A:O2'	1:IA:893:C:H5'	2.21	0.40
1:IA:926:G:N2	1:IA:1505:G:C1'	2.84	0.40
2:IB:19:HIS:CG	2:IB:20:GLU:H	2.39	0.40
2:IB:212:GLN:HG2	2:IB:212:GLN:O	2.22	0.40
3:IC:130:VAL:O	3:IC:133:ALA:HB3	2.21	0.40
3:IC:181:ASN:HD22	3:IC:205:GLY:N	2.20	0.40
4:ID:199:ASN:HA	4:ID:199:ASN:HD22	1.69	0.40
1:IA:18:C:O3'	5:IE:127:ASN:ND2	2.55	0.40
6:IF:12:PRO:HB3	6:IF:59:TYR:HB3	2.04	0.40
7:IG:49:ILE:HA	7:IG:53:LYS:NZ	2.37	0.40
7:IG:54:THR:C	7:IG:56:GLN:H	2.24	0.40
9:II:118:LYS:C	9:II:120:ARG:H	2.25	0.40
7:IG:16:LEU:HD23	9:II:42:ARG:HD2	1.86	0.40
9:II:43:ALA:CA	9:II:74:ILE:HD13	2.50	0.40
13:IM:26:GLY:O	13:IM:30:ALA:HB2	2.22	0.40
17:IQ:26:GLN:HE21	17:IQ:37:LYS:HB2	1.86	0.40
18:IR:51:LEU:HA	18:IR:52:PRO:HD3	1.87	0.40
19:IS:38:SER:O	19:IS:70:LYS:HA	2.21	0.40
19:IS:53:ASN:N	19:IS:56:GLN:O	2.55	0.40
22:JB:2722:C:C4'	52:J6:35:ARG:NH2	2.84	0.40
22:JB:3177:C:P	53:J7:163:PRO:HD2	2.61	0.40
22:JB:1118:G:O2'	22:JB:1119:U:H5'	2.21	0.40
22:JB:1003:C:C2	22:JB:1174:G:C2	3.09	0.40
22:JB:1247:U:H2'	22:JB:1248:G:C8	2.56	0.40
22:JB:113:C:O2'	22:JB:125:A:O4'	2.32	0.40
22:JB:1326:U:H5''	22:JB:1345:G:H4'	2.04	0.40
22:JB:1351:G:H2'	22:JB:1352:G:C8	2.56	0.40
22:JB:1445:A:O2'	22:JB:1446:U:H5'	2.21	0.40
22:JB:1683:G:O2'	22:JB:1684:G:H5'	2.21	0.40
22:JB:1899:A:H2'	22:JB:1900:U:C6	2.56	0.40
22:JB:2011:U:H2'	22:JB:2012:A:C8	2.57	0.40
22:JB:2062:U:H5'	47:J1:32:HIS:CE1	2.56	0.40
22:JB:222:G:H2'	22:JB:223:C:H6	1.85	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:JB:2232:G:N2	22:JB:2233:C:N4	2.70	0.40
22:JB:838:A:C5'	22:JB:2407:G:C6	3.05	0.40
22:JB:2412:A:H5''	22:JB:2413:A:OP1	2.21	0.40
22:JB:245:C:H1'	22:JB:438:G:N2	2.36	0.40
22:JB:2707:G:O3'	32:JL:82:LYS:HD2	2.19	0.40
22:JB:465:C:O2	50:J4:39:ARG:CG	2.64	0.40
22:JB:48:A:H5'	22:JB:49:U:OP1	2.22	0.40
22:JB:887:G:H2'	22:JB:888:G:C8	2.55	0.40
24:JD:212:SER:CA	24:JD:215:LEU:HB2	2.51	0.40
22:JB:2573:C:N4	24:JD:239:ARG:HE	2.14	0.40
25:JE:144:ARG:CZ	25:JE:144:ARG:H	2.33	0.40
22:JB:1261:G:N7	26:JF:44:SER:OG	2.54	0.40
22:JB:687:G:H4'	26:JF:70:GLY:HA3	2.03	0.40
22:JB:1072:U:H1'	30:JJ:11:GLN:OE1	2.19	0.40
30:JJ:91:PRO:HG3	30:JJ:134:MET:O	2.22	0.40
22:JB:2542:U:C4'	32:JL:40:GLY:C	2.90	0.40
32:JL:4:PRO:HB2	32:JL:5:GLN:H	1.72	0.40
33:JM:94:GLU:OE2	33:JM:99:VAL:HG11	2.21	0.40
37:JQ:67:THR:CA	37:JQ:82:PRO:HB3	2.50	0.40
39:JS:62:GLU:O	39:JS:95:ILE:HG23	2.22	0.40
41:JU:80:VAL:HG12	41:JU:81:ARG:N	2.36	0.40
22:JB:2239:C:C3'	44:JX:14:ARG:NH2	2.84	0.40
44:JX:61:ALA:HB2	44:JX:80:SER:HA	2.03	0.40
46:JZ:4:LYS:C	46:JZ:5:LEU:HD12	2.42	0.40
1:AA:1131:G:H2'	1:AA:1132:C:C6	2.57	0.40
1:AA:1228:C:N3	13:AM:120:LYS:CB	2.84	0.40
1:AA:1316:G:H5'	1:AA:1360:A:C2	2.56	0.40
1:AA:1352:C:H2'	1:AA:1353:G:O4'	2.21	0.40
1:AA:175:C:O2	20:AT:25:ARG:NH2	2.54	0.40
1:AA:216:C:H42	1:AA:217:C:N4	2.19	0.40
1:AA:524:G:H2'	1:AA:525:C:C6	2.57	0.40
1:AA:638:G:O2'	1:AA:639:G:H5'	2.20	0.40
1:AA:689:C:H3'	11:AK:51:LYS:HZ2	1.83	0.40
1:AA:892:A:O2'	1:AA:893:C:H5'	2.22	0.40
2:AB:25:ASN:HB2	2:AB:191:ASP:CA	2.51	0.40
3:AC:152:ILE:HG22	3:AC:153:VAL:N	2.37	0.40
5:AE:127:ASN:O	5:AE:129:ILE:N	2.55	0.40
5:AE:16:THR:HG23	5:AE:16:THR:O	2.22	0.40
5:AE:79:GLU:CG	5:AE:92:LYS:HG2	2.52	0.40
7:AG:31:MET:HE3	7:AG:34:GLY:HA2	2.02	0.40
9:AI:40:LEU:O	9:AI:44:VAL:HG23	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:AI:29:ASN:ND2	9:AI:64:THR:HG23	2.27	0.40
9:AI:10:ARG:CG	9:AI:75:ASP:HB2	2.51	0.40
11:AK:23:ALA:HB1	11:AK:88:GLY:HA3	2.03	0.40
11:AK:58:PRO:O	11:AK:93:GLN:HB2	2.21	0.40
13:AM:15:VAL:HG22	13:AM:45:VAL:HA	2.03	0.40
13:AM:99:ARG:HH21	19:AS:2:PRO:CA	2.34	0.40
10:AJ:65:LEU:CB	14:AN:56:VAL:CG2	2.33	0.40
15:AO:38:ARG:HD3	15:AO:38:ARG:N	2.36	0.40
1:AA:276:G:N2	17:AQ:68:ARG:NH2	2.69	0.40
47:B1:48:ARG:HH22	47:B1:69:ARG:CZ	2.35	0.40
53:B7:128:LEU:HD22	53:B7:131:ARG:CZ	2.51	0.40
53:B7:17:SER:HB2	53:B7:18:THR:H	1.69	0.40
23:BA:95:U:H2'	23:BA:96:C:C6	2.56	0.40
22:BB:11:G:O2'	22:BB:12:U:H5'	2.21	0.40
22:BB:1333:G:C2'	22:BB:1334:A:H5''	2.52	0.40
22:BB:1377:G:C4	47:B1:3:LYS:CG	2.59	0.40
22:BB:1842:G:N3	22:BB:1842:G:H2'	2.37	0.40
22:BB:2348:A:H2'	22:BB:2349:G:C8	2.57	0.40
22:BB:2466:G:H2'	22:BB:2467:A:C8	2.56	0.40
22:BB:2507:U:H1'	22:BB:2515:G:N2	2.37	0.40
22:BB:2591:C:O2	48:B2:4:HIS:CA	2.68	0.40
22:BB:2595:C:H2'	22:BB:2596:C:H6	1.86	0.40
22:BB:2512:A:OP1	22:BB:2644:A:H4'	2.22	0.40
22:BB:2675:U:H2'	22:BB:2676:G:C8	2.57	0.40
22:BB:27:G:H1'	22:BB:523:A:N6	2.36	0.40
22:BB:2856:U:O4'	35:BO:93:GLY:C	2.59	0.40
22:BB:3866:A:C8	53:B7:43:LYS:HG2	2.50	0.40
22:BB:414:A:H2'	22:BB:415:A:O4'	2.22	0.40
22:BB:843:G:OP1	22:BB:843:G:H3'	2.22	0.40
22:BB:88:G:OP2	22:BB:90:G:H4'	2.22	0.40
24:BD:31:LYS:HD3	24:BD:33:LEU:N	2.36	0.40
24:BD:75:VAL:HB	24:BD:97:TYR:HE2	1.86	0.40
25:BE:77:ILE:O	25:BE:78:LEU:HB2	2.21	0.40
27:BG:120:ASN:C	27:BG:122:PHE:HD1	2.24	0.40
27:BG:152:MET:HE3	27:BG:152:MET:N	2.36	0.40
27:BG:126:GLY:HA3	27:BG:160:ALA:HB3	2.04	0.40
22:BB:2760:G:H5'	31:BK:146:THR:HA	2.04	0.40
35:BO:26:THR:HG22	35:BO:70:ILE:HG23	2.04	0.40
37:BQ:55:ILE:CB	37:BQ:71:ILE:HG12	2.51	0.40
39:BS:25:LEU:HB3	39:BS:26:GLN:H	1.53	0.40
22:BB:1237:G:C2'	39:BS:86:HIS:HA	2.45	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:BT:72:LEU:HA	40:BT:126:ILE:HG21	2.02	0.40
41:BU:65:VAL:HG21	41:BU:67:ARG:NH2	2.29	0.40
34:BN:37:ALA:C	43:BW:74:ARG:NH2	2.75	0.40
22:BB:2365:U:H4'	44:BX:39:ARG:HB2	2.04	0.40
22:BB:94:C:C2'	45:BY:41:HIS:CD2	3.04	0.40
1:CA:105:G:H2'	1:CA:106:C:C6	2.57	0.40
1:CA:1131:G:H2'	1:CA:1132:C:C6	2.57	0.40
1:CA:1182:G:H5'	1:CA:1184:G:C5'	2.52	0.40
1:CA:1191:A:H2'	1:CA:1192:C:C4	2.57	0.40
1:CA:1378:C:H5''	1:CA:1379:G:OP2	2.22	0.40
1:CA:216:C:H42	1:CA:217:C:N4	2.19	0.40
1:CA:426:G:O3'	4:CD:41:GLY:HA2	2.22	0.40
1:CA:939:G:H1'	1:CA:1375:A:N3	2.37	0.40
2:CB:112:VAL:O	2:CB:112:VAL:HG12	2.21	0.40
2:CB:47:THR:O	2:CB:51:LEU:HG	2.22	0.40
3:CC:71:ALA:CB	3:CC:115:LEU:HD11	2.51	0.40
3:CC:59:ARG:CA	3:CC:64:VAL:HG13	2.44	0.40
5:CE:81:GLU:HG2	5:CE:91:LEU:HG	2.03	0.40
7:CG:146:GLU:C	7:CG:148:ASN:N	2.74	0.40
7:CG:155:ARG:O	7:CG:156:TRP:HB2	2.21	0.40
8:CH:27:PRO:HA	8:CH:58:TYR:HA	2.02	0.40
9:CI:45:ALA:C	9:CI:51:ARG:HH12	2.25	0.40
10:CJ:53:PRO:HG2	10:CJ:54:PHE:HD1	1.85	0.40
3:CC:60:ALA:HA	10:CJ:92:THR:HG23	2.02	0.40
1:CA:718:G:O2'	11:CK:116:HIS:ND1	2.53	0.40
11:CK:58:PRO:O	11:CK:93:GLN:HB2	2.21	0.40
1:CA:1333:A:C4'	13:CM:114:ARG:NE	2.85	0.40
1:CA:951:G:C2'	13:CM:126:LYS:OXT	2.69	0.40
13:CM:66:LEU:HA	13:CM:70:LEU:HB2	2.03	0.40
15:CO:38:ARG:N	15:CO:38:ARG:HD3	2.36	0.40
15:CO:38:ARG:O	15:CO:41:GLU:HB3	2.21	0.40
6:CF:48:LEU:HD23	18:CR:78:LEU:CA	2.51	0.40
50:D4:16:HIS:NE2	50:D4:21:ARG:NH2	2.69	0.40
51:D5:49:VAL:O	51:D5:50:LEU:HB2	2.21	0.40
53:D7:111:LEU:HD21	53:D7:151:PHE:HB2	2.03	0.40
53:D7:160:LYS:HG2	53:D7:161:ASP:OD2	2.21	0.40
22:DB:1134:C:H2'	22:DB:1135:C:C5	2.56	0.40
22:DB:1002:C:N4	22:DB:1174:G:C6	2.88	0.40
22:DB:1305:C:H2'	22:DB:1306:U:H5	1.86	0.40
22:DB:1355:A:OP1	41:DU:55:THR:C	2.57	0.40
22:DB:1454:U:H2'	22:DB:1455:C:C6	2.56	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:DB:1908:C:C3'	22:DB:1909:U:H4'	2.51	0.40
22:DB:587:A:H2'	22:DB:2001:G:H5'	2.04	0.40
22:DB:2470:U:N1	22:DB:2549:G:OP1	2.54	0.40
22:DB:2661:G:O6	25:DE:10:GLY:HA3	2.21	0.40
22:DB:2736:U:H2'	22:DB:2738:A:OP2	2.21	0.40
22:DB:2769:C:H4'	22:DB:2866:A:C6	2.57	0.40
22:DB:27:G:H1'	22:DB:523:A:N6	2.36	0.40
22:DB:648:A:O3'	22:DB:649:G:O4'	2.40	0.40
22:DB:694:G:H2'	22:DB:695:G:C8	2.55	0.40
22:DB:916:U:C5'	43:DW:161:ALA:CA	2.59	0.40
24:DD:41:GLY:H	24:DD:61:LEU:HD21	1.87	0.40
24:DD:75:VAL:HB	24:DD:97:TYR:CE2	2.56	0.40
22:DB:1675:C:C6	25:DE:134:TRP:CH2	3.01	0.40
25:DE:61:LYS:HB2	25:DE:62:PRO:HD3	2.04	0.40
25:DE:8:LYS:CB	37:DQ:3:THR:CB	2.79	0.40
27:DG:31:ILE:HG23	27:DG:31:ILE:O	2.22	0.40
28:DH:152:ARG:O	28:DH:153:LYS:C	2.59	0.40
31:DK:58:ILE:HG21	31:DK:131:VAL:HB	2.04	0.40
33:DM:29:THR:O	33:DM:30:ALA:HB3	2.22	0.40
35:DO:5:LYS:HB2	35:DO:6:ALA:H	1.60	0.40
38:DR:28:ARG:HA	38:DR:31:GLN:HG2	2.03	0.40
39:DS:35:LEU:O	39:DS:36:LYS:HD2	2.22	0.40
41:DU:29:VAL:HB	41:DU:30:SER:H	1.63	0.40
42:DV:103:LYS:NZ	42:DV:103:LYS:HB3	2.37	0.40
42:DV:84:VAL:HG12	42:DV:86:PRO:HD2	2.04	0.40
43:DW:168:VAL:HG12	43:DW:169:VAL:H	1.86	0.40
1:EA:1305:G:H21	1:EA:1331:G:H2'	1.83	0.40
1:EA:939:G:H1'	1:EA:1375:A:N3	2.37	0.40
1:EA:258:G:P	20:ET:87:LYS:CE	3.10	0.40
1:EA:370:C:H42	1:EA:390:C:H42	1.67	0.40
1:EA:452:A:N3	16:EP:72:ARG:NH1	2.70	0.40
1:EA:524:G:H2'	1:EA:525:C:C6	2.57	0.40
1:EA:642:A:H2'	1:EA:643:C:C6	2.56	0.40
1:EA:847:C:H2'	1:EA:848:G:C8	2.57	0.40
1:EA:968:A:H2'	9:EI:128:ARG:HE	1.73	0.40
2:EB:155:LEU:HD13	2:EB:157:ARG:O	2.21	0.40
2:EB:19:HIS:CG	2:EB:20:GLU:H	2.39	0.40
2:EB:55:PHE:HA	2:EB:58:ILE:HB	2.03	0.40
3:EC:54:ARG:HB3	3:EC:69:HIS:CD2	2.56	0.40
4:ED:175:SER:O	4:ED:183:GLY:HA3	2.21	0.40
5:EE:98:THR:CG2	5:EE:101:ILE:HD12	2.52	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:EG:103:TRP:CD1	7:EG:134:ALA:HA	2.57	0.40
7:EG:54:THR:C	7:EG:56:GLN:H	2.24	0.40
1:EA:1186:G:C2'	9:EI:111:ARG:HD3	2.49	0.40
10:EJ:61:GLU:HG2	14:EN:59:ALA:O	2.22	0.40
11:EK:23:ALA:HB1	11:EK:88:GLY:HA3	2.03	0.40
13:EM:68:GLY:HA2	13:EM:71:ARG:NE	2.37	0.40
15:EO:64:ARG:HH11	15:EO:64:ARG:HG3	1.87	0.40
1:EA:375:U:HO2'	16:EP:17:TYR:HE2	0.72	0.40
50:F4:18:PHE:CE2	50:F4:45:SER:HB2	2.57	0.40
22:FB:469:G:H5''	50:F4:41:GLN:OE1	2.21	0.40
53:F7:8:LEU:HD22	53:F7:12:LEU:HD12	2.04	0.40
53:F7:53:PRO:HA	53:F7:154:SER:CB	2.51	0.40
23:FA:58:G:H5''	23:FA:59:A:H5'	2.03	0.40
23:FA:95:U:H2'	23:FA:96:C:C6	2.56	0.40
22:FB:1049:C:N3	22:FB:1129:A:C4	2.89	0.40
22:FB:1305:C:H2'	22:FB:1306:U:H5	1.86	0.40
22:FB:1590:C:H2'	22:FB:1591:U:H5'	2.03	0.40
22:FB:1764:A:OP2	22:FB:1820:G:H5'	2.22	0.40
22:FB:1861:G:C3'	22:FB:1862:C:P	3.08	0.40
22:FB:1899:A:H2'	22:FB:1900:U:C6	2.56	0.40
22:FB:1924:C:N4	22:FB:1948:C:H4'	2.37	0.40
22:FB:2231:G:H2'	22:FB:2232:G:O4'	2.21	0.40
22:FB:2507:U:H1'	22:FB:2515:G:N2	2.37	0.40
22:FB:2736:U:H2'	22:FB:2738:A:OP2	2.22	0.40
22:FB:27:G:H1'	22:FB:523:A:N6	2.36	0.40
22:FB:300:C:OP2	22:FB:301:C:H5	2.04	0.40
22:FB:414:A:H2'	22:FB:415:A:O4'	2.22	0.40
22:FB:694:G:H2'	22:FB:695:G:C8	2.55	0.40
24:FD:198:ASN:HB3	24:FD:201:HIS:HB3	2.03	0.40
25:FE:137:ARG:HA	25:FE:138:PRO:HD3	1.87	0.40
27:FG:122:PHE:CG	27:FG:123:ASP:N	2.89	0.40
30:FJ:91:PRO:HG3	30:FJ:134:MET:O	2.22	0.40
30:FJ:76:TYR:CZ	30:FJ:80:LYS:HB2	2.56	0.40
32:FL:52:VAL:HG22	32:FL:71:LYS:HG3	2.04	0.40
32:FL:69:VAL:O	32:FL:70:VAL:HB	2.20	0.40
22:FB:227:G:OP2	33:FM:59:ARG:NH1	2.54	0.40
34:FN:68:ARG:NH1	34:FN:104:MET:SD	2.95	0.40
35:FO:5:LYS:HE3	35:FO:5:LYS:H	1.85	0.40
36:FP:97:HIS:N	36:FP:97:HIS:ND1	2.59	0.40
38:FR:37:GLN:N	38:FR:40:LEU:HD23	2.37	0.40
39:FS:35:LEU:O	39:FS:36:LYS:HD2	2.22	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:FT:101:PRO:O	40:FT:121:THR:HG21	2.21	0.40
40:FT:105:ARG:HG3	40:FT:119:LYS:NZ	2.37	0.40
44:FX:31:VAL:HG12	44:FX:32:LYS:CG	2.49	0.40
46:FZ:9:VAL:HB	46:FZ:10:ILE:HD12	2.03	0.40
1:GA:1099:G:H2'	1:GA:1100:C:H5'	2.03	0.40
1:GA:1256:A:C6	1:GA:1278:U:H1'	2.56	0.40
1:CA:1265:G:P	1:GA:1273:G:H1'	2.62	0.40
1:GA:232:G:H2'	1:GA:233:C:H6	1.86	0.40
1:GA:332:G:H2'	1:GA:333:G:H8	1.87	0.40
1:GA:775:G:N2	1:GA:805:C:N4	2.70	0.40
1:GA:892:A:O2'	1:GA:893:C:H5'	2.21	0.40
4:GD:157:LEU:HA	4:GD:160:GLN:NE2	2.37	0.40
6:GF:12:PRO:HB3	6:GF:59:TYR:HB3	2.04	0.40
7:GG:36:LYS:HZ3	7:GG:36:LYS:HB2	1.86	0.40
8:GH:67:PRO:HB2	8:GH:68:ARG:H	1.75	0.40
11:GK:23:ALA:HB1	11:GK:88:GLY:HA3	2.03	0.40
12:GL:34:ARG:HA	12:GL:85:ILE:CD1	2.52	0.40
14:GN:39:LEU:O	14:GN:44:LEU:HD13	2.21	0.40
47:H1:17:GLN:HG3	47:H1:33:VAL:O	2.21	0.40
51:H5:52:LYS:HA	51:H5:54:GLU:OE2	2.21	0.40
53:H7:128:LEU:HD13	53:H7:133:LYS:HD2	2.01	0.40
23:HA:109:G:O2'	23:HA:110:U:H5'	2.22	0.40
23:HA:115:G:H2'	23:HA:116:C:O4'	2.21	0.40
22:HB:1142:G:O6	31:HK:105:GLY:CA	2.67	0.40
22:HB:128:C:H5'	22:HB:1361:G:N2	2.30	0.40
22:HB:1376:C:N3	47:H1:3:LYS:CB	2.81	0.40
22:HB:1384:G:HO2'	22:HB:1385:C:H6	1.69	0.40
22:HB:1398:G:N2	22:HB:1416:A:C8	2.89	0.40
22:HB:1398:G:O4'	22:HB:1416:A:C2	2.74	0.40
22:HB:12:U:C2'	22:HB:13:A:H5'	2.50	0.40
22:HB:1764:A:OP2	22:HB:1820:G:H5'	2.22	0.40
22:HB:1845:A:H2	22:HB:1846:A:H62	1.69	0.40
22:HB:1141:U:O2	22:HB:2008:C:H4'	2.21	0.40
22:HB:2011:U:H2'	22:HB:2012:A:C8	2.57	0.40
22:HB:2210:C:H2'	22:HB:2211:U:H6	1.86	0.40
22:HB:222:G:H2'	22:HB:223:C:H6	1.85	0.40
22:HB:245:C:H1'	22:HB:438:G:N2	2.36	0.40
22:HB:971:A:H1'	22:HB:2474:G:N2	2.37	0.40
22:HB:2491:C:H2'	22:HB:2492:G:C4'	2.50	0.40
22:HB:2499:C:H2'	22:HB:2500:C:C6	2.57	0.40
22:HB:2657:G:H2'	22:HB:2658:A:C8	2.57	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:HB:3167:U:O4	53:H7:98:ARG:HD2	2.22	0.40
22:HB:414:A:H2'	22:HB:415:A:O4'	2.21	0.40
22:HB:423:G:H5''	22:HB:424:G:O2'	2.21	0.40
22:HB:587:A:H2'	22:HB:2001:G:H5'	2.04	0.40
22:HB:642:A:N1	22:HB:2394:G:C2	2.90	0.40
22:HB:743:A:H2'	22:HB:744:C:H6	1.86	0.40
22:HB:700:C:N4	22:HB:800:U:H4'	2.33	0.40
22:HB:814:G:O4'	22:HB:814:G:N3	2.54	0.40
22:HB:1816:G:HO2'	24:HD:247:VAL:HG23	1.86	0.40
22:HB:1803:G:HO2'	24:HD:46:ARG:CG	2.33	0.40
26:HF:14:THR:OG1	26:HF:195:ILE:HD11	2.21	0.40
26:HF:115:GLY:CA	26:HF:185:ARG:HG3	2.51	0.40
27:HG:170:LEU:O	27:HG:171:GLN:HG3	2.22	0.40
28:HH:148:VAL:C	28:HH:149:ARG:HD2	2.42	0.40
28:HH:76:VAL:HA	28:HH:79:VAL:HG12	2.04	0.40
29:HI:39:THR:OG1	29:HI:40:ARG:N	2.54	0.40
30:HJ:76:TYR:CZ	30:HJ:80:LYS:HB2	2.56	0.40
32:HL:52:VAL:HG22	32:HL:71:LYS:HG3	2.04	0.40
32:HL:83:ARG:HD3	37:HQ:83:PHE:CE2	2.56	0.40
33:HM:29:THR:O	33:HM:30:ALA:HB3	2.22	0.40
25:HE:195:LEU:CD1	37:HQ:2:GLN:N	2.84	0.40
37:HQ:38:LYS:HD3	37:HQ:50:PHE:O	2.22	0.40
38:HR:37:GLN:N	38:HR:40:LEU:HD23	2.37	0.40
39:HS:22:VAL:O	39:HS:93:ILE:HG13	2.21	0.40
43:HW:136:VAL:O	43:HW:137:ASP:HB3	2.22	0.40
43:HW:25:ASN:ND2	43:HW:85:MET:HB2	2.37	0.40
43:HW:72:ASP:HB2	43:HW:78:PRO:CA	2.51	0.40
44:HX:41:ARG:HE	44:HX:41:ARG:N	2.20	0.40
44:HX:80:SER:CB	44:HX:83:ALA:HB3	2.51	0.40
1:IA:1191:A:H2'	1:IA:1192:C:C4	2.57	0.40
1:IA:555:C:O5'	12:IL:20:LYS:NZ	2.50	0.40
1:IA:627:G:O2'	1:IA:628:G:H5'	2.22	0.40
1:IA:753:A:N3	8:IH:1:MET:HE1	0.74	0.40
1:IA:731:G:C5'	1:IA:766:A:H4'	2.52	0.40
1:IA:847:C:H2'	1:IA:848:G:C8	2.57	0.40
1:IA:939:G:H1'	1:IA:1375:A:N3	2.37	0.40
3:IC:152:ILE:HG22	3:IC:153:VAL:N	2.37	0.40
4:ID:133:VAL:HG12	4:ID:135:LEU:H	1.86	0.40
5:IE:11:ILE:HG22	5:IE:12:LEU:N	2.36	0.40
7:IG:16:LEU:CD1	9:II:45:ALA:HB2	2.31	0.40
13:IM:65:LYS:O	13:IM:66:LEU:HG	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:IM:81:LEU:O	13:IM:92:HIS:CD2	2.75	0.40
17:IQ:26:GLN:HE21	17:IQ:37:LYS:CB	2.35	0.40
1:IA:845:A:C3'	18:IR:23:LYS:HZ1	2.33	0.40
19:IS:11:VAL:HA	19:IS:39:THR:H	1.87	0.40
47:J1:17:GLN:HG3	47:J1:33:VAL:O	2.22	0.40
47:J1:31:ILE:O	47:J1:32:HIS:HB2	2.21	0.40
50:J4:18:PHE:CE2	50:J4:45:SER:HB2	2.57	0.40
22:JB:220:U:C5'	51:J5:60:LEU:HD13	2.43	0.40
53:J7:77:LYS:CE	53:J7:84:VAL:HB	2.52	0.40
23:JA:111:C:H5''	23:JA:112:A:H5''	2.02	0.40
23:JA:95:U:H2'	23:JA:96:C:C6	2.56	0.40
22:JB:113:C:C1'	22:JB:125:A:C1'	2.90	0.40
22:JB:1315:A:H5''	22:JB:1316:G:OP1	2.22	0.40
22:JB:1377:G:N2	22:JB:1380:C:H5	2.19	0.40
22:JB:1329:U:H5'	22:JB:1405:A:H1'	2.03	0.40
22:JB:1590:C:H2'	22:JB:1591:U:H5'	2.04	0.40
22:JB:1803:G:H2'	22:JB:1804:U:C6	2.57	0.40
22:JB:181:A:H4'	22:JB:182:G:C5'	2.51	0.40
22:JB:1845:A:H2	22:JB:1846:A:H62	1.69	0.40
22:JB:2059:U:H2'	22:JB:2060:A:C5'	2.49	0.40
22:JB:2210:C:H2'	22:JB:2211:U:H6	1.86	0.40
22:JB:2259:G:H2'	22:JB:2367:A:H2	1.87	0.40
22:JB:2491:C:H2'	22:JB:2492:G:C4'	2.50	0.40
22:JB:2457:A:O4'	22:JB:2507:U:H4'	2.21	0.40
22:JB:2557:G:H2'	22:JB:2558:C:O4'	2.21	0.40
22:JB:2685:A:O2'	35:JO:64:ARG:HG3	2.19	0.40
22:JB:2737:A:H8	52:J6:18:ARG:CD	2.34	0.40
22:JB:310:A:H1'	22:JB:333:A:N1	2.37	0.40
22:JB:573:C:H2'	22:JB:574:C:O4'	2.21	0.40
22:JB:777:A:P	24:JD:211:ARG:HH21	2.45	0.40
25:JE:103:ASP:HB3	25:JE:168:GLN:CA	2.50	0.40
26:JF:88:PRO:O	26:JF:89:ARG:HB2	2.22	0.40
30:JJ:78:ILE:HG22	30:JJ:107:ILE:HG23	2.03	0.40
33:JM:29:THR:O	33:JM:30:ALA:HB3	2.22	0.40
33:JM:79:GLN:O	33:JM:83:LEU:HD11	2.20	0.40
34:JN:120:ARG:NH2	34:JN:121:LEU:HD13	2.37	0.40
34:JN:128:ILE:HG13	34:JN:129:GLN:N	2.37	0.40
34:JN:78:LYS:HB2	34:JN:78:LYS:NZ	2.36	0.40
34:JN:9:LYS:HZ2	34:JN:73:LYS:HD3	1.85	0.40
22:JB:594:G:P	38:JR:3:ARG:HH22	2.37	0.40
39:JS:24:SER:HB2	39:JS:28:GLU:OE2	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:JS:39:PHE:C	39:JS:54:TYR:HB3	2.42	0.40
40:JT:105:ARG:HG3	40:JT:119:LYS:NZ	2.37	0.40
42:JV:44:GLN:O	42:JV:44:GLN:HG3	2.21	0.40
43:JW:154:LEU:O	43:JW:155:PRO:C	2.60	0.40
44:JX:80:SER:CB	44:JX:83:ALA:HB3	2.51	0.40
46:JZ:27:LYS:HA	46:JZ:27:LYS:HD3	1.97	0.40

All (144) symmetry-related close contacts are listed below. The label for Atom-2 includes the symmetry operator and encoded unit-cell translations to be applied.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:435:C:OP1	22:BB:3096:C:OP1[3_465]	0.46	1.74
12:IL:128:ALA:C	22:JB:3157:G:C4'[4_445]	0.52	1.68
7:GG:60:LYS:CD	10:GJ:90:LEU:CD1[3_465]	0.58	1.62
7:GG:60:LYS:CE	10:GJ:90:LEU:CG[3_465]	0.60	1.60
4:CD:173:TRP:N	6:CF:15:ASP:OD2[3_465]	0.63	1.57
4:CD:172:PRO:C	6:CF:15:ASP:OD2[3_465]	0.77	1.43
23:BA:121:G:N2	53:B7:122:ARG:NH2[6_555]	0.79	1.41
1:IA:415:A:O2'	22:JB:3152:G:N2[4_445]	1.03	1.17
12:IL:128:ALA:C	22:JB:3157:G:O4'[4_445]	1.04	1.16
4:ED:172:PRO:CA	6:EF:15:ASP:OD2[3_465]	1.08	1.12
7:IG:60:LYS:CD	10:IJ:90:LEU:CD1[3_465]	1.10	1.10
23:DA:121:G:O2'	53:H7:122:ARG:NH1[4_445]	1.10	1.10
4:ED:172:PRO:N	6:EF:15:ASP:OD2[3_465]	1.13	1.07
53:F7:117:MSE:O	23:JA:121:G:N2[4_445]	1.14	1.06
7:IG:60:LYS:CG	10:IJ:90:LEU:CD1[3_465]	1.15	1.05
12:IL:128:ALA:OXT	22:JB:3157:G:O4'[4_445]	1.17	1.03
7:IG:60:LYS:CE	10:IJ:90:LEU:CG[3_465]	1.18	1.02
12:IL:128:ALA:OXT	22:JB:3157:G:C4'[4_445]	1.22	0.98
4:ED:172:PRO:CB	6:EF:15:ASP:OD2[3_465]	1.23	0.97
7:GG:60:LYS:NZ	10:GJ:90:LEU:CD2[3_465]	1.24	0.96
7:GG:60:LYS:NZ	10:GJ:90:LEU:CG[3_465]	1.25	0.95
53:D7:122:ARG:NH1	23:HA:121:G:O4'[4_445]	1.25	0.95
1:EA:435:C:OP1	22:FB:3096:C:OP1[3_465]	1.25	0.95
4:CD:172:PRO:CA	6:CF:15:ASP:CG[3_465]	1.26	0.94
12:EL:128:ALA:O	22:FB:3157:G:O6[3_465]	1.30	0.90
12:IL:128:ALA:O	22:JB:3157:G:O5'[4_445]	1.33	0.87
12:IL:128:ALA:OXT	22:JB:3157:G:C1'[4_445]	1.34	0.86
12:IL:128:ALA:O	22:JB:3157:G:C4'[4_445]	1.34	0.86
4:CD:35:ARG:O	11:CK:12:ARG:O[3_465]	1.35	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:GG:57:GLU:OE1	10:GJ:88:LEU:CA[3_465]	1.35	0.85
1:CA:435:C:OP1	22:DB:3096:C:OP1[3_465]	1.36	0.84
12:IL:128:ALA:O	22:JB:3157:G:C5'[4_445]	1.37	0.83
4:CD:35:ARG:CD	11:CK:12:ARG:CG[3_465]	1.38	0.82
23:BA:121:G:N2	53:B7:122:ARG:CZ[6_555]	1.38	0.82
4:CD:172:PRO:C	6:CF:15:ASP:CG[3_465]	1.39	0.81
7:GG:60:LYS:CE	10:GJ:90:LEU:CD1[3_465]	1.41	0.79
4:ED:172:PRO:CD	6:EF:15:ASP:OD2[3_465]	1.41	0.79
4:ED:172:PRO:CB	6:EF:15:ASP:CG[3_465]	1.42	0.78
7:IG:57:GLU:OE2	10:IJ:88:LEU:CD2[3_465]	1.48	0.72
4:ED:172:PRO:CG	6:EF:15:ASP:OD2[3_465]	1.49	0.71
1:AA:435:C:P	22:BB:3096:C:OP1[3_465]	1.49	0.71
4:CD:35:ARG:CD	11:CK:12:ARG:CB[3_465]	1.50	0.70
12:IL:128:ALA:C	22:JB:3157:G:C5'[4_445]	1.50	0.70
1:AA:435:C:OP1	22:BB:3096:C:P[3_465]	1.50	0.70
12:IL:128:ALA:OXT	22:JB:3157:G:C2'[4_445]	1.50	0.70
4:CD:35:ARG:CD	11:CK:12:ARG:CA[3_465]	1.54	0.66
4:ED:172:PRO:CB	6:EF:15:ASP:CB[3_465]	1.56	0.64
53:F7:117:MSE:CG	23:JA:121:G:N1[4_445]	1.56	0.64
4:CD:35:ARG:NE	11:CK:12:ARG:CG[3_465]	1.58	0.62
4:CD:172:PRO:CA	6:CF:15:ASP:OD1[3_465]	1.59	0.61
53:F7:117:MSE:SE	23:JA:121:G:O6[4_445]	1.60	0.60
4:CD:173:TRP:N	6:CF:15:ASP:CG[3_465]	1.60	0.60
12:IL:128:ALA:OXT	22:JB:3157:G:C3'[4_445]	1.61	0.59
4:CD:172:PRO:CB	6:CF:15:ASP:CA[3_465]	1.61	0.59
4:CD:35:ARG:CB	11:CK:12:ARG:CA[3_465]	1.62	0.58
22:BB:2868:G:O6	22:FB:2877:A:C2[16_335]	1.64	0.56
1:IA:415:A:O2'	22:JB:3152:G:C2[4_445]	1.64	0.56
12:IL:128:ALA:N	22:JB:3157:G:C5'[4_445]	1.64	0.56
12:IL:128:ALA:CA	22:JB:3157:G:C5'[4_445]	1.65	0.55
23:DA:121:G:O2'	53:H7:122:ARG:CZ[4_445]	1.66	0.54
4:CD:35:ARG:CB	11:CK:12:ARG:C[3_465]	1.68	0.52
7:GG:57:GLU:OE1	10:GJ:88:LEU:CB[3_465]	1.69	0.51
7:GG:60:LYS:CE	10:GJ:90:LEU:CB[3_465]	1.70	0.50
7:IG:60:LYS:CE	10:IJ:90:LEU:CD1[3_465]	1.71	0.49
7:IG:60:LYS:CE	10:IJ:90:LEU:CD2[3_465]	1.73	0.47
7:IG:57:GLU:CD	10:IJ:88:LEU:CD2[3_465]	1.75	0.45
12:IL:128:ALA:CA	22:JB:3157:G:C4'[4_445]	1.75	0.45
7:GG:57:GLU:CD	10:GJ:88:LEU:CD2[3_465]	1.76	0.44
53:F7:117:MSE:SE	23:JA:121:G:C6[4_445]	1.77	0.43
1:GA:494:G:OP1	29:HI:9:SER:OG[4_445]	1.79	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:IG:60:LYS:NZ	10:IJ:90:LEU:CD2[3_465]	1.80	0.40
1:IA:416:G:OP2	22:JB:3139:U:O2'[4_445]	1.80	0.40
4:ID:172:PRO:CA	6:IF:15:ASP:OD2[4_445]	1.80	0.40
4:CD:35:ARG:CG	11:CK:12:ARG:CA[3_465]	1.80	0.40
12:EL:128:ALA:C	22:FB:3157:G:O6[3_465]	1.81	0.39
7:GG:60:LYS:CD	10:GJ:90:LEU:CG[3_465]	1.82	0.38
4:CD:35:ARG:CB	11:CK:12:ARG:O[3_465]	1.82	0.38
53:F7:117:MSE:SE	23:JA:121:G:N1[4_445]	1.83	0.37
1:IA:416:G:OP1	22:JB:3139:U:C1'[4_445]	1.84	0.36
4:CD:172:PRO:CA	6:CF:15:ASP:OD2[3_465]	1.85	0.35
23:BA:121:G:N2	53:B7:122:ARG:NH1[6_555]	1.85	0.35
22:DB:2868:G:O6	22:DB:2877:A:C2[16_335]	1.85	0.35
12:IL:128:ALA:CA	22:JB:3157:G:O4'[4_445]	1.86	0.34
12:IL:128:ALA:CB	22:JB:3157:G:C3'[4_445]	1.86	0.34
12:IL:128:ALA:C	22:JB:3157:G:C3'[4_445]	1.86	0.34
4:CD:172:PRO:O	6:CF:15:ASP:OD2[3_465]	1.87	0.33
4:ID:172:PRO:CB	6:IF:15:ASP:OD2[4_445]	1.87	0.33
9:II:57:GLY:O	10:IJ:33:GLN:NE2[3_465]	1.87	0.33
4:ED:35:ARG:NH1	11:EK:12:ARG:CG[3_465]	1.88	0.32
4:ED:172:PRO:CA	6:EF:15:ASP:CG[3_465]	1.88	0.32
1:IA:416:G:C5'	22:JB:3153:G:N2[4_445]	1.88	0.32
1:GA:416:G:OP1	22:HB:3153:G:N2[4_445]	1.91	0.29
4:CD:35:ARG:CG	11:CK:12:ARG:CB[3_465]	1.92	0.28
4:AD:173:TRP:CA	6:AF:15:ASP:OD2[3_465]	1.92	0.28
53:D7:122:ARG:NH1	23:HA:121:G:C1'[4_445]	1.92	0.28
4:ED:172:PRO:CD	6:EF:15:ASP:CG[3_465]	1.93	0.27
1:CA:435:C:OP1	22:DB:3096:C:P[3_465]	1.93	0.27
4:CD:35:ARG:C	11:CK:12:ARG:O[3_465]	1.95	0.25
4:AD:173:TRP:N	6:AF:15:ASP:OD2[3_465]	1.96	0.24
23:BA:121:G:C2	53:B7:122:ARG:NH1[6_555]	1.96	0.24
12:IL:128:ALA:O	22:JB:3157:G:O4'[4_445]	1.96	0.24
12:EL:128:ALA:OXT	22:FB:3157:G:O6[3_465]	1.97	0.23
53:F7:117:MSE:C	23:JA:121:G:N2[4_445]	1.98	0.22
4:CD:173:TRP:CA	6:CF:15:ASP:OD2[3_465]	1.98	0.22
7:GG:60:LYS:CG	10:GJ:90:LEU:CD1[3_465]	1.98	0.22
23:BA:121:G:N3	53:B7:122:ARG:NH1[6_555]	2.00	0.20
23:DA:121:G:O2'	53:H7:122:ARG:NH2[4_445]	2.01	0.19
7:GG:57:GLU:OE2	10:GJ:88:LEU:N[3_465]	2.01	0.19
4:ED:172:PRO:CG	6:EF:15:ASP:CG[3_465]	2.01	0.19
1:IA:415:A:C2'	22:JB:3152:G:N2[4_445]	2.01	0.19
7:GG:57:GLU:OE2	10:GJ:88:LEU:CG[3_465]	2.01	0.19

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
53:D7:122:ARG:CD	23:HA:121:G:O2'[4_445]	2.02	0.18
4:ED:172:PRO:N	6:EF:15:ASP:CG[3_465]	2.02	0.18
1:GA:435:C:OP1	22:HB:3096:C:OP1[4_445]	2.02	0.18
1:IA:416:G:OP1	22:JB:3139:U:O4'[4_445]	2.03	0.17
7:EG:17:VAL:O	10:EJ:29:ARG:NH1[4_445]	2.04	0.16
7:GG:57:GLU:CB	10:GJ:88:LEU:CD2[3_465]	2.04	0.16
7:GG:57:GLU:OE1	10:GJ:88:LEU:CD2[3_465]	2.05	0.15
4:CD:35:ARG:CD	11:CK:12:ARG:N[3_465]	2.05	0.15
1:IA:416:G:OP1	22:JB:3138:C:O2[4_445]	2.06	0.14
7:IG:57:GLU:OE2	10:IJ:88:LEU:CG[3_465]	2.06	0.14
7:IG:60:LYS:CD	10:IJ:90:LEU:CG[3_465]	2.06	0.14
53:D7:122:ARG:NH1	23:HA:121:G:C4'[4_445]	2.07	0.13
7:GG:60:LYS:CE	10:GJ:90:LEU:CD2[3_465]	2.08	0.12
7:GG:57:GLU:CD	10:GJ:88:LEU:CG[3_465]	2.09	0.11
12:IL:128:ALA:OXT	22:JB:3157:G:O2'[4_445]	2.09	0.11
4:CD:172:PRO:CA	6:CF:15:ASP:CB[3_465]	2.09	0.11
53:F7:117:MSE:CG	23:JA:121:G:C2[4_445]	2.10	0.10
7:GG:57:GLU:CD	10:GJ:88:LEU:CA[3_465]	2.10	0.10
53:F7:117:MSE:O	23:JA:121:G:C2[4_445]	2.10	0.10
1:CA:435:C:OP1	22:DB:3096:C:C5'[3_465]	2.12	0.08
23:BA:121:G:C2	53:B7:122:ARG:NH2[6_555]	2.12	0.08
12:IL:128:ALA:N	22:JB:3157:G:O5'[4_445]	2.15	0.05
53:F7:117:MSE:CG	23:JA:121:G:N2[4_445]	2.16	0.04
12:IL:128:ALA:C	22:JB:3157:G:C1'[4_445]	2.16	0.04
7:GG:60:LYS:NZ	10:GJ:90:LEU:CD1[3_465]	2.16	0.04
1:IA:415:A:C5'	22:JB:3139:U:O2'[4_445]	2.16	0.04
7:GG:57:GLU:OE1	10:GJ:88:LEU:CG[3_465]	2.17	0.03
4:GD:186:LEU:CD1	6:GF:17:SER:OG[4_445]	2.17	0.03
7:GG:17:VAL:O	10:GJ:29:ARG:NH1[3_465]	2.17	0.03
4:CD:172:PRO:N	6:CF:15:ASP:OD1[3_465]	2.17	0.03
1:EA:416:G:OP1	22:FB:3153:G:N2[3_465]	2.18	0.02
1:IA:415:A:O2'	22:JB:3152:G:N1[4_445]	2.19	0.01
1:AA:434:U:O3'	22:BB:3096:C:OP1[3_465]	2.19	0.01

5.3 Torsion angles ⓘ

5.3.1 Protein backbone ⓘ

In the following table, the Percentiles column shows the percent Ramachandran outliers of the chain as a percentile score with respect to all X-ray entries followed by that with respect to entries of similar resolution.

The Analysed column shows the number of residues for which the backbone conformation was analysed, and the total number of residues.

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
2	AB	232/234 (99%)	129 (56%)	74 (32%)	29 (12%)	0	5
2	CB	232/234 (99%)	128 (55%)	75 (32%)	29 (12%)	0	5
2	EB	232/234 (99%)	127 (55%)	76 (33%)	29 (12%)	0	5
2	GB	232/234 (99%)	129 (56%)	74 (32%)	29 (12%)	0	5
2	IB	232/234 (99%)	128 (55%)	75 (32%)	29 (12%)	0	5
3	AC	204/206 (99%)	125 (61%)	60 (29%)	19 (9%)	0	11
3	CC	204/206 (99%)	124 (61%)	61 (30%)	19 (9%)	0	11
3	EC	204/206 (99%)	125 (61%)	60 (29%)	19 (9%)	0	11
3	GC	204/206 (99%)	124 (61%)	61 (30%)	19 (9%)	0	11
3	IC	204/206 (99%)	124 (61%)	61 (30%)	19 (9%)	0	11
4	AD	206/208 (99%)	130 (63%)	56 (27%)	20 (10%)	0	10
4	CD	206/208 (99%)	129 (63%)	57 (28%)	20 (10%)	0	10
4	ED	206/208 (99%)	130 (63%)	56 (27%)	20 (10%)	0	10
4	GD	206/208 (99%)	128 (62%)	58 (28%)	20 (10%)	0	10
4	ID	206/208 (99%)	129 (63%)	57 (28%)	20 (10%)	0	10
5	AE	148/150 (99%)	93 (63%)	43 (29%)	12 (8%)	1	12
5	CE	148/150 (99%)	91 (62%)	45 (30%)	12 (8%)	1	12
5	EE	148/150 (99%)	92 (62%)	44 (30%)	12 (8%)	1	12
5	GE	148/150 (99%)	92 (62%)	44 (30%)	12 (8%)	1	12
5	IE	148/150 (99%)	92 (62%)	44 (30%)	12 (8%)	1	12
6	AF	99/101 (98%)	67 (68%)	25 (25%)	7 (7%)	1	14
6	CF	99/101 (98%)	67 (68%)	25 (25%)	7 (7%)	1	14
6	EF	99/101 (98%)	67 (68%)	25 (25%)	7 (7%)	1	14
6	GF	99/101 (98%)	67 (68%)	25 (25%)	7 (7%)	1	14
6	IF	99/101 (98%)	67 (68%)	25 (25%)	7 (7%)	1	14
7	AG	153/155 (99%)	94 (61%)	47 (31%)	12 (8%)	1	13
7	CG	153/155 (99%)	94 (61%)	47 (31%)	12 (8%)	1	13
7	EG	153/155 (99%)	93 (61%)	48 (31%)	12 (8%)	1	13
7	GG	153/155 (99%)	94 (61%)	47 (31%)	12 (8%)	1	13
7	IG	153/155 (99%)	94 (61%)	47 (31%)	12 (8%)	1	13

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
8	AH	136/138 (99%)	83 (61%)	38 (28%)	15 (11%)	0	7
8	CH	136/138 (99%)	83 (61%)	37 (27%)	16 (12%)	0	6
8	EH	136/138 (99%)	83 (61%)	37 (27%)	16 (12%)	0	6
8	GH	136/138 (99%)	83 (61%)	37 (27%)	16 (12%)	0	6
8	IH	136/138 (99%)	83 (61%)	37 (27%)	16 (12%)	0	6
9	AI	125/127 (98%)	68 (54%)	43 (34%)	14 (11%)	0	7
9	CI	125/127 (98%)	68 (54%)	43 (34%)	14 (11%)	0	7
9	EI	125/127 (98%)	68 (54%)	43 (34%)	14 (11%)	0	7
9	GI	125/127 (98%)	68 (54%)	43 (34%)	14 (11%)	0	7
9	II	125/127 (98%)	68 (54%)	43 (34%)	14 (11%)	0	7
10	AJ	96/98 (98%)	52 (54%)	22 (23%)	22 (23%)	0	1
10	CJ	96/98 (98%)	53 (55%)	21 (22%)	22 (23%)	0	1
10	EJ	96/98 (98%)	52 (54%)	22 (23%)	22 (23%)	0	1
10	GJ	96/98 (98%)	52 (54%)	22 (23%)	22 (23%)	0	1
10	IJ	96/98 (98%)	52 (54%)	22 (23%)	22 (23%)	0	1
11	AK	117/119 (98%)	72 (62%)	32 (27%)	13 (11%)	0	7
11	CK	117/119 (98%)	74 (63%)	30 (26%)	13 (11%)	0	7
11	EK	117/119 (98%)	73 (62%)	31 (26%)	13 (11%)	0	7
11	GK	117/119 (98%)	73 (62%)	31 (26%)	13 (11%)	0	7
11	IK	117/119 (98%)	73 (62%)	31 (26%)	13 (11%)	0	7
12	AL	118/124 (95%)	77 (65%)	34 (29%)	7 (6%)	1	17
12	CL	116/124 (94%)	76 (66%)	32 (28%)	8 (7%)	1	15
12	EL	118/124 (95%)	76 (64%)	34 (29%)	8 (7%)	1	15
12	GL	116/124 (94%)	77 (66%)	31 (27%)	8 (7%)	1	15
12	IL	118/124 (95%)	78 (66%)	33 (28%)	7 (6%)	1	17
13	AM	121/125 (97%)	77 (64%)	32 (26%)	12 (10%)	0	9
13	CM	119/125 (95%)	77 (65%)	32 (27%)	10 (8%)	1	12
13	EM	119/125 (95%)	77 (65%)	32 (27%)	10 (8%)	1	12
13	GM	121/125 (97%)	77 (64%)	32 (26%)	12 (10%)	0	9
13	IM	119/125 (95%)	78 (66%)	30 (25%)	11 (9%)	1	11
14	AN	58/60 (97%)	22 (38%)	27 (47%)	9 (16%)	0	3

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
14	CN	58/60 (97%)	23 (40%)	26 (45%)	9 (16%)	0	3
14	EN	58/60 (97%)	22 (38%)	27 (47%)	9 (16%)	0	3
14	GN	58/60 (97%)	22 (38%)	27 (47%)	9 (16%)	0	3
14	IN	58/60 (97%)	22 (38%)	27 (47%)	9 (16%)	0	3
15	AO	86/88 (98%)	59 (69%)	19 (22%)	8 (9%)	0	11
15	CO	86/88 (98%)	59 (69%)	20 (23%)	7 (8%)	1	12
15	EO	86/88 (98%)	59 (69%)	19 (22%)	8 (9%)	0	11
15	GO	86/88 (98%)	59 (69%)	20 (23%)	7 (8%)	1	12
15	IO	86/88 (98%)	59 (69%)	19 (22%)	8 (9%)	0	11
16	AP	81/83 (98%)	48 (59%)	29 (36%)	4 (5%)	2	20
16	CP	81/83 (98%)	48 (59%)	29 (36%)	4 (5%)	2	20
16	EP	81/83 (98%)	48 (59%)	29 (36%)	4 (5%)	2	20
16	GP	81/83 (98%)	48 (59%)	29 (36%)	4 (5%)	2	20
16	IP	81/83 (98%)	49 (60%)	28 (35%)	4 (5%)	2	20
17	AQ	102/104 (98%)	53 (52%)	34 (33%)	15 (15%)	0	4
17	CQ	102/104 (98%)	53 (52%)	34 (33%)	15 (15%)	0	4
17	EQ	102/104 (98%)	53 (52%)	34 (33%)	15 (15%)	0	4
17	GQ	102/104 (98%)	53 (52%)	34 (33%)	15 (15%)	0	4
17	IQ	102/104 (98%)	53 (52%)	34 (33%)	15 (15%)	0	4
18	AR	71/73 (97%)	43 (61%)	20 (28%)	8 (11%)	0	7
18	CR	71/73 (97%)	43 (61%)	20 (28%)	8 (11%)	0	7
18	ER	71/73 (97%)	43 (61%)	20 (28%)	8 (11%)	0	7
18	GR	71/73 (97%)	43 (61%)	20 (28%)	8 (11%)	0	7
18	IR	71/73 (97%)	43 (61%)	20 (28%)	8 (11%)	0	7
19	AS	78/80 (98%)	48 (62%)	22 (28%)	8 (10%)	0	8
19	CS	78/80 (98%)	49 (63%)	21 (27%)	8 (10%)	0	8
19	ES	78/80 (98%)	48 (62%)	22 (28%)	8 (10%)	0	8
19	GS	78/80 (98%)	49 (63%)	20 (26%)	9 (12%)	0	6
19	IS	78/80 (98%)	48 (62%)	21 (27%)	9 (12%)	0	6
20	AT	97/99 (98%)	65 (67%)	20 (21%)	12 (12%)	0	5
20	CT	97/99 (98%)	64 (66%)	21 (22%)	12 (12%)	0	5

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
20	ET	97/99 (98%)	64 (66%)	21 (22%)	12 (12%)	0	5
20	GT	97/99 (98%)	64 (66%)	21 (22%)	12 (12%)	0	5
20	IT	97/99 (98%)	64 (66%)	21 (22%)	12 (12%)	0	5
21	Aa	88/90 (98%)	77 (88%)	10 (11%)	1 (1%)	14	52
21	Ca	88/90 (98%)	77 (88%)	10 (11%)	1 (1%)	14	52
21	Ea	88/90 (98%)	77 (88%)	10 (11%)	1 (1%)	14	52
21	Ga	88/90 (98%)	77 (88%)	10 (11%)	1 (1%)	14	52
21	Ia	88/90 (98%)	77 (88%)	10 (11%)	1 (1%)	14	52
24	BD	268/270 (99%)	96 (36%)	93 (35%)	79 (30%)	0	0
24	DD	268/270 (99%)	98 (37%)	92 (34%)	78 (29%)	0	0
24	FD	268/270 (99%)	97 (36%)	93 (35%)	78 (29%)	0	0
24	HD	268/270 (99%)	97 (36%)	93 (35%)	78 (29%)	0	0
24	JD	268/270 (99%)	96 (36%)	95 (35%)	77 (29%)	0	0
25	BE	203/205 (99%)	85 (42%)	74 (36%)	44 (22%)	0	2
25	DE	203/205 (99%)	85 (42%)	74 (36%)	44 (22%)	0	2
25	FE	203/205 (99%)	85 (42%)	73 (36%)	45 (22%)	0	1
25	HE	203/205 (99%)	85 (42%)	73 (36%)	45 (22%)	0	1
25	JE	203/205 (99%)	86 (42%)	73 (36%)	44 (22%)	0	2
26	BF	195/198 (98%)	90 (46%)	59 (30%)	46 (24%)	0	1
26	DF	195/198 (98%)	90 (46%)	59 (30%)	46 (24%)	0	1
26	FF	195/198 (98%)	90 (46%)	59 (30%)	46 (24%)	0	1
26	HF	195/198 (98%)	90 (46%)	59 (30%)	46 (24%)	0	1
26	JF	195/198 (98%)	90 (46%)	59 (30%)	46 (24%)	0	1
27	BG	176/178 (99%)	75 (43%)	59 (34%)	42 (24%)	0	1
27	DG	176/178 (99%)	75 (43%)	59 (34%)	42 (24%)	0	1
27	FG	176/178 (99%)	74 (42%)	60 (34%)	42 (24%)	0	1
27	HG	176/178 (99%)	75 (43%)	59 (34%)	42 (24%)	0	1
27	JG	176/178 (99%)	75 (43%)	58 (33%)	43 (24%)	0	1
28	BH	175/177 (99%)	84 (48%)	55 (31%)	36 (21%)	0	2
28	DH	175/177 (99%)	83 (47%)	56 (32%)	36 (21%)	0	2
28	FH	175/177 (99%)	83 (47%)	56 (32%)	36 (21%)	0	2

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
28	HH	175/177 (99%)	84 (48%)	55 (31%)	36 (21%)	0	2
28	JH	175/177 (99%)	83 (47%)	56 (32%)	36 (21%)	0	2
29	BI	50/52 (96%)	16 (32%)	19 (38%)	15 (30%)	0	0
29	DI	50/52 (96%)	16 (32%)	19 (38%)	15 (30%)	0	0
29	FI	50/52 (96%)	16 (32%)	19 (38%)	15 (30%)	0	0
29	HI	50/52 (96%)	16 (32%)	19 (38%)	15 (30%)	0	0
29	JI	50/52 (96%)	16 (32%)	19 (38%)	15 (30%)	0	0
30	BJ	141/143 (99%)	56 (40%)	47 (33%)	38 (27%)	0	0
30	DJ	141/143 (99%)	56 (40%)	47 (33%)	38 (27%)	0	0
30	FJ	141/143 (99%)	56 (40%)	47 (33%)	38 (27%)	0	0
30	HJ	141/143 (99%)	56 (40%)	47 (33%)	38 (27%)	0	0
30	JJ	141/143 (99%)	56 (40%)	47 (33%)	38 (27%)	0	0
31	BK	141/143 (99%)	55 (39%)	58 (41%)	28 (20%)	0	2
31	DK	141/143 (99%)	55 (39%)	58 (41%)	28 (20%)	0	2
31	FK	141/143 (99%)	55 (39%)	58 (41%)	28 (20%)	0	2
31	HK	141/143 (99%)	55 (39%)	58 (41%)	28 (20%)	0	2
31	JK	141/143 (99%)	55 (39%)	58 (41%)	28 (20%)	0	2
32	BL	130/132 (98%)	56 (43%)	37 (28%)	37 (28%)	0	0
32	DL	130/132 (98%)	56 (43%)	37 (28%)	37 (28%)	0	0
32	FL	130/132 (98%)	56 (43%)	37 (28%)	37 (28%)	0	0
32	HL	130/132 (98%)	56 (43%)	37 (28%)	37 (28%)	0	0
32	JL	130/132 (98%)	56 (43%)	37 (28%)	37 (28%)	0	0
33	BM	139/141 (99%)	60 (43%)	43 (31%)	36 (26%)	0	1
33	DM	139/141 (99%)	60 (43%)	43 (31%)	36 (26%)	0	1
33	FM	139/141 (99%)	60 (43%)	43 (31%)	36 (26%)	0	1
33	HM	139/141 (99%)	60 (43%)	43 (31%)	36 (26%)	0	1
33	JM	139/141 (99%)	60 (43%)	43 (31%)	36 (26%)	0	1
34	BN	122/124 (98%)	60 (49%)	35 (29%)	27 (22%)	0	1
34	DN	122/124 (98%)	61 (50%)	34 (28%)	27 (22%)	0	1
34	FN	122/124 (98%)	61 (50%)	34 (28%)	27 (22%)	0	1
34	HN	122/124 (98%)	61 (50%)	34 (28%)	27 (22%)	0	1

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
34	JN	122/124 (98%)	61 (50%)	34 (28%)	27 (22%)	0	1
35	BO	112/114 (98%)	52 (46%)	38 (34%)	22 (20%)	0	2
35	DO	112/114 (98%)	52 (46%)	38 (34%)	22 (20%)	0	2
35	FO	112/114 (98%)	52 (46%)	37 (33%)	23 (20%)	0	2
35	HO	112/114 (98%)	52 (46%)	38 (34%)	22 (20%)	0	2
35	JO	112/114 (98%)	51 (46%)	39 (35%)	22 (20%)	0	2
36	BP	109/111 (98%)	52 (48%)	37 (34%)	20 (18%)	0	3
36	DP	109/111 (98%)	52 (48%)	37 (34%)	20 (18%)	0	3
36	FP	109/111 (98%)	52 (48%)	37 (34%)	20 (18%)	0	3
36	HP	109/111 (98%)	52 (48%)	37 (34%)	20 (18%)	0	3
36	JP	109/111 (98%)	52 (48%)	37 (34%)	20 (18%)	0	3
37	BQ	123/125 (98%)	50 (41%)	47 (38%)	26 (21%)	0	2
37	DQ	123/125 (98%)	50 (41%)	48 (39%)	25 (20%)	0	2
37	FQ	123/125 (98%)	50 (41%)	47 (38%)	26 (21%)	0	2
37	HQ	123/125 (98%)	50 (41%)	48 (39%)	25 (20%)	0	2
37	JQ	123/125 (98%)	50 (41%)	47 (38%)	26 (21%)	0	2
38	BR	115/117 (98%)	55 (48%)	41 (36%)	19 (16%)	0	3
38	DR	115/117 (98%)	55 (48%)	41 (36%)	19 (16%)	0	3
38	FR	115/117 (98%)	55 (48%)	41 (36%)	19 (16%)	0	3
38	HR	115/117 (98%)	55 (48%)	40 (35%)	20 (17%)	0	3
38	JR	115/117 (98%)	55 (48%)	41 (36%)	19 (16%)	0	3
39	BS	98/100 (98%)	39 (40%)	37 (38%)	22 (22%)	0	1
39	DS	98/100 (98%)	38 (39%)	38 (39%)	22 (22%)	0	1
39	FS	98/100 (98%)	39 (40%)	37 (38%)	22 (22%)	0	1
39	HS	98/100 (98%)	39 (40%)	37 (38%)	22 (22%)	0	1
39	JS	98/100 (98%)	39 (40%)	37 (38%)	22 (22%)	0	1
40	BT	128/130 (98%)	52 (41%)	51 (40%)	25 (20%)	0	2
40	DT	128/130 (98%)	52 (41%)	51 (40%)	25 (20%)	0	2
40	FT	128/130 (98%)	52 (41%)	51 (40%)	25 (20%)	0	2
40	HT	128/130 (98%)	52 (41%)	51 (40%)	25 (20%)	0	2
40	JT	128/130 (98%)	53 (41%)	50 (39%)	25 (20%)	0	2

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
41	BU	91/93 (98%)	29 (32%)	30 (33%)	32 (35%)	0	0
41	DU	91/93 (98%)	29 (32%)	30 (33%)	32 (35%)	0	0
41	FU	91/93 (98%)	28 (31%)	31 (34%)	32 (35%)	0	0
41	HU	91/93 (98%)	29 (32%)	30 (33%)	32 (35%)	0	0
41	JU	91/93 (98%)	28 (31%)	31 (34%)	32 (35%)	0	0
42	BV	111/113 (98%)	43 (39%)	35 (32%)	33 (30%)	0	0
42	DV	111/113 (98%)	43 (39%)	36 (32%)	32 (29%)	0	0
42	FV	111/113 (98%)	43 (39%)	36 (32%)	32 (29%)	0	0
42	HV	111/113 (98%)	43 (39%)	35 (32%)	33 (30%)	0	0
42	JV	111/113 (98%)	43 (39%)	36 (32%)	32 (29%)	0	0
43	BW	169/173 (98%)	45 (27%)	69 (41%)	55 (32%)	0	0
43	DW	168/173 (97%)	44 (26%)	70 (42%)	54 (32%)	0	0
43	FW	168/173 (97%)	44 (26%)	69 (41%)	55 (33%)	0	0
43	HW	168/173 (97%)	44 (26%)	70 (42%)	54 (32%)	0	0
43	JW	168/173 (97%)	44 (26%)	70 (42%)	54 (32%)	0	0
44	BX	84/86 (98%)	31 (37%)	29 (34%)	24 (29%)	0	0
44	DX	84/86 (98%)	31 (37%)	29 (34%)	24 (29%)	0	0
44	FX	84/86 (98%)	31 (37%)	29 (34%)	24 (29%)	0	0
44	HX	84/86 (98%)	31 (37%)	29 (34%)	24 (29%)	0	0
44	JX	84/86 (98%)	31 (37%)	29 (34%)	24 (29%)	0	0
45	BY	63/65 (97%)	35 (56%)	16 (25%)	12 (19%)	0	2
45	DY	63/65 (97%)	35 (56%)	16 (25%)	12 (19%)	0	2
45	FY	63/65 (97%)	35 (56%)	16 (25%)	12 (19%)	0	2
45	HY	63/65 (97%)	35 (56%)	16 (25%)	12 (19%)	0	2
45	JY	63/65 (97%)	35 (56%)	16 (25%)	12 (19%)	0	2
46	BZ	53/55 (96%)	25 (47%)	19 (36%)	9 (17%)	0	3
46	DZ	53/55 (96%)	25 (47%)	19 (36%)	9 (17%)	0	3
46	FZ	53/55 (96%)	25 (47%)	19 (36%)	9 (17%)	0	3
46	HZ	53/55 (96%)	25 (47%)	19 (36%)	9 (17%)	0	3
46	JZ	53/55 (96%)	25 (47%)	19 (36%)	9 (17%)	0	3
47	B1	71/73 (97%)	26 (37%)	24 (34%)	21 (30%)	0	0

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
47	D1	71/73 (97%)	26 (37%)	24 (34%)	21 (30%)	0	0
47	F1	71/73 (97%)	26 (37%)	25 (35%)	20 (28%)	0	0
47	H1	71/73 (97%)	26 (37%)	24 (34%)	21 (30%)	0	0
47	J1	71/73 (97%)	26 (37%)	24 (34%)	21 (30%)	0	0
48	B2	56/58 (97%)	19 (34%)	23 (41%)	14 (25%)	0	1
48	D2	56/58 (97%)	19 (34%)	23 (41%)	14 (25%)	0	1
48	F2	56/58 (97%)	19 (34%)	23 (41%)	14 (25%)	0	1
48	H2	56/58 (97%)	19 (34%)	23 (41%)	14 (25%)	0	1
48	J2	56/58 (97%)	19 (34%)	23 (41%)	14 (25%)	0	1
49	B3	51/53 (96%)	13 (26%)	18 (35%)	20 (39%)	0	0
49	D3	51/53 (96%)	13 (26%)	18 (35%)	20 (39%)	0	0
49	F3	51/53 (96%)	13 (26%)	18 (35%)	20 (39%)	0	0
49	H3	51/53 (96%)	13 (26%)	18 (35%)	20 (39%)	0	0
49	J3	51/53 (96%)	13 (26%)	18 (35%)	20 (39%)	0	0
50	B4	44/46 (96%)	20 (46%)	15 (34%)	9 (20%)	0	2
50	D4	44/46 (96%)	20 (46%)	15 (34%)	9 (20%)	0	2
50	F4	44/46 (96%)	20 (46%)	15 (34%)	9 (20%)	0	2
50	H4	44/46 (96%)	20 (46%)	15 (34%)	9 (20%)	0	2
50	J4	44/46 (96%)	20 (46%)	15 (34%)	9 (20%)	0	2
51	B5	61/63 (97%)	26 (43%)	19 (31%)	16 (26%)	0	1
51	D5	61/63 (97%)	27 (44%)	19 (31%)	15 (25%)	0	1
51	F5	61/63 (97%)	26 (43%)	20 (33%)	15 (25%)	0	1
51	H5	61/63 (97%)	26 (43%)	20 (33%)	15 (25%)	0	1
51	J5	61/63 (97%)	26 (43%)	20 (33%)	15 (25%)	0	1
52	B6	33/35 (94%)	12 (36%)	10 (30%)	11 (33%)	0	0
52	D6	33/35 (94%)	12 (36%)	10 (30%)	11 (33%)	0	0
52	F6	33/35 (94%)	12 (36%)	10 (30%)	11 (33%)	0	0
52	H6	33/35 (94%)	12 (36%)	10 (30%)	11 (33%)	0	0
52	J6	33/35 (94%)	12 (36%)	10 (30%)	11 (33%)	0	0
53	B7	215/217 (99%)	112 (52%)	79 (37%)	24 (11%)	0	7
53	D7	215/217 (99%)	113 (53%)	78 (36%)	24 (11%)	0	7

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
53	F7	215/217 (99%)	114 (53%)	77 (36%)	24 (11%)	0	7
53	H7	215/217 (99%)	113 (53%)	78 (36%)	24 (11%)	0	7
53	J7	215/217 (99%)	112 (52%)	79 (37%)	24 (11%)	0	7
All	All	29701/30260 (98%)	14747 (50%)	9520 (32%)	5434 (18%)	0	3

All (5434) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
2	AB	19	HIS
2	AB	24	TRP
2	AB	165	VAL
2	AB	195	ASP
3	AC	4	LYS
3	AC	16	ARG
3	AC	26	LYS
3	AC	73	PRO
3	AC	167	TRP
4	AD	24	GLU
4	AD	170	VAL
4	AD	178	VAL
4	AD	204	ILE
5	AE	16	THR
5	AE	70	PRO
6	AF	35	ALA
6	AF	48	LEU
6	AF	96	PRO
7	AG	134	ALA
9	AI	41	VAL
9	AI	117	HIS
10	AJ	34	VAL
10	AJ	55	LYS
10	AJ	79	ARG
10	AJ	86	MET
12	AL	45	PRO
12	AL	104	VAL
13	AM	30	ALA
13	AM	83	ASP
13	AM	84	ILE
13	AM	124	PRO
14	AN	22	THR
17	AQ	33	GLY

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Mol	Chain	Res	Type
17	AQ	104	LYS
18	AR	54	ARG
18	AR	59	SER
19	AS	36	ARG
19	AS	76	PRO
24	BD	8	PRO
24	BD	25	THR
24	BD	64	ILE
24	BD	68	LYS
24	BD	92	ILE
24	BD	95	LEU
24	BD	105	ILE
24	BD	108	PRO
24	BD	126	LYS
24	BD	178	PRO
24	BD	193	ILE
24	BD	205	VAL
24	BD	214	TRP
24	BD	219	PRO
24	BD	228	PRO
24	BD	229	VAL
24	BD	246	PRO
24	BD	249	PRO
24	BD	257	LEU
24	BD	266	SER
25	BE	7	THR
25	BE	22	PRO
25	BE	53	PRO
25	BE	72	VAL
25	BE	96	PHE
25	BE	147	PRO
26	BF	22	VAL
26	BF	88	PRO
26	BF	121	ASP
26	BF	160	ALA
26	BF	166	TRP
26	BF	184	ASP
26	BF	189	ASP
27	BG	3	GLN
27	BG	23	SER
27	BG	35	VAL
27	BG	60	ILE

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Mol	Chain	Res	Type
27	BG	67	ILE
27	BG	74	ILE
27	BG	84	PRO
27	BG	85	VAL
27	BG	87	ILE
27	BG	88	LYS
27	BG	111	ILE
27	BG	122	PHE
27	BG	132	ILE
27	BG	134	GLU
27	BG	138	PHE
27	BG	139	PRO
27	BG	150	ARG
27	BG	156	ILE
28	BH	7	GLN
28	BH	9	ILE
28	BH	36	PRO
28	BH	38	ASN
28	BH	43	VAL
28	BH	112	PRO
28	BH	115	ILE
28	BH	125	VAL
28	BH	126	PRO
28	BH	176	ALA
29	BI	4	ILE
29	BI	30	ILE
29	BI	46	LEU
29	BI	47	GLU
29	BI	49	GLN
30	BJ	3	LYS
30	BJ	7	ILE
30	BJ	13	PRO
30	BJ	20	ALA
30	BJ	22	PRO
30	BJ	23	VAL
30	BJ	42	ASN
30	BJ	46	ALA
30	BJ	57	ILE
30	BJ	77	LEU
30	BJ	81	ALA
30	BJ	91	PRO
30	BJ	108	ALA

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Mol	Chain	Res	Type
30	BJ	112	MET
30	BJ	142	PRO
31	BK	30	LYS
31	BK	69	ASP
31	BK	123	PRO
31	BK	124	GLU
31	BK	155	THR
31	BK	157	PRO
31	BK	163	PRO
31	BK	165	VAL
32	BL	4	PRO
32	BL	47	VAL
32	BL	60	PRO
32	BL	120	ASP
32	BL	131	PRO
33	BM	8	PRO
33	BM	9	THR
33	BM	14	LYS
33	BM	17	LYS
33	BM	37	GLN
33	BM	53	ARG
33	BM	60	LEU
33	BM	70	THR
33	BM	102	LYS
33	BM	105	PRO
33	BM	133	VAL
33	BM	139	ARG
33	BM	141	VAL
33	BM	143	PRO
34	BN	12	LYS
34	BN	14	PHE
34	BN	22	ALA
34	BN	26	ASP
34	BN	73	LYS
34	BN	74	PRO
34	BN	79	PRO
35	BO	13	ASN
35	BO	18	VAL
35	BO	23	ALA
35	BO	91	PRO
35	BO	102	THR
36	BP	56	SER

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Mol	Chain	Res	Type
37	BQ	25	PRO
37	BQ	48	GLN
37	BQ	64	LYS
37	BQ	93	ILE
37	BQ	124	VAL
38	BR	33	ARG
38	BR	62	ILE
38	BR	113	SER
39	BS	5	ILE
39	BS	13	ARG
39	BS	25	LEU
39	BS	31	ASP
39	BS	80	TYR
39	BS	84	THR
40	BT	61	PRO
40	BT	67	PRO
40	BT	81	HIS
40	BT	130	GLU
41	BU	5	ASP
41	BU	12	ILE
41	BU	33	ALA
41	BU	67	ARG
41	BU	72	ARG
41	BU	88	ILE
42	BV	6	ALA
42	BV	48	VAL
42	BV	58	VAL
42	BV	60	PRO
42	BV	65	PRO
42	BV	69	GLN
42	BV	77	HIS
43	BW	7	PRO
43	BW	30	VAL
43	BW	40	ASP
43	BW	46	GLN
43	BW	75	LYS
43	BW	115	ILE
43	BW	124	ALA
43	BW	125	PRO
43	BW	127	PRO
43	BW	137	ASP
43	BW	138	VAL

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Mol	Chain	Res	Type
43	BW	152	ILE
43	BW	155	PRO
44	BX	27	GLY
44	BX	31	VAL
45	BY	11	ALA
45	BY	20	ALA
45	BY	42	ARG
46	BZ	6	VAL
46	BZ	35	SER
47	B1	7	PRO
47	B1	11	PRO
47	B1	31	ILE
48	B2	5	PRO
48	B2	28	PRO
48	B2	46	CYS
48	B2	47	PRO
48	B2	48	ASN
48	B2	53	ASP
49	B3	9	ILE
49	B3	42	PRO
49	B3	48	VAL
49	B3	49	VAL
50	B4	7	PRO
50	B4	41	GLN
51	B5	8	LYS
51	B5	61	MET
51	B5	63	PRO
53	B7	20	TYR
53	B7	81	PRO
2	CB	19	HIS
2	CB	24	TRP
2	CB	165	VAL
2	CB	195	ASP
3	CC	4	LYS
3	CC	16	ARG
3	CC	26	LYS
3	CC	73	PRO
3	CC	167	TRP
4	CD	24	GLU
4	CD	170	VAL
4	CD	178	VAL
4	CD	204	ILE

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Mol	Chain	Res	Type
5	CE	16	THR
5	CE	70	PRO
6	CF	35	ALA
6	CF	48	LEU
6	CF	96	PRO
7	CG	134	ALA
9	CI	41	VAL
9	CI	117	HIS
10	CJ	34	VAL
10	CJ	55	LYS
10	CJ	79	ARG
10	CJ	86	MET
12	CL	45	PRO
12	CL	104	VAL
13	CM	30	ALA
13	CM	124	PRO
14	CN	22	THR
17	CQ	33	GLY
17	CQ	104	LYS
18	CR	54	ARG
18	CR	59	SER
19	CS	36	ARG
19	CS	76	PRO
24	DD	8	PRO
24	DD	25	THR
24	DD	64	ILE
24	DD	68	LYS
24	DD	92	ILE
24	DD	95	LEU
24	DD	105	ILE
24	DD	108	PRO
24	DD	126	LYS
24	DD	178	PRO
24	DD	193	ILE
24	DD	205	VAL
24	DD	214	TRP
24	DD	219	PRO
24	DD	228	PRO
24	DD	229	VAL
24	DD	246	PRO
24	DD	249	PRO
24	DD	257	LEU

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Mol	Chain	Res	Type
24	DD	266	SER
25	DE	7	THR
25	DE	22	PRO
25	DE	53	PRO
25	DE	72	VAL
25	DE	96	PHE
25	DE	147	PRO
26	DF	22	VAL
26	DF	88	PRO
26	DF	121	ASP
26	DF	160	ALA
26	DF	166	TRP
26	DF	184	ASP
26	DF	189	ASP
27	DG	3	GLN
27	DG	35	VAL
27	DG	60	ILE
27	DG	67	ILE
27	DG	74	ILE
27	DG	84	PRO
27	DG	85	VAL
27	DG	87	ILE
27	DG	88	LYS
27	DG	111	ILE
27	DG	122	PHE
27	DG	132	ILE
27	DG	134	GLU
27	DG	138	PHE
27	DG	139	PRO
27	DG	150	ARG
27	DG	156	ILE
28	DH	7	GLN
28	DH	9	ILE
28	DH	36	PRO
28	DH	38	ASN
28	DH	43	VAL
28	DH	112	PRO
28	DH	115	ILE
28	DH	125	VAL
28	DH	126	PRO
28	DH	176	ALA
29	DI	4	ILE

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Mol	Chain	Res	Type
29	DI	30	ILE
29	DI	46	LEU
29	DI	47	GLU
29	DI	49	GLN
30	DJ	3	LYS
30	DJ	7	ILE
30	DJ	13	PRO
30	DJ	20	ALA
30	DJ	22	PRO
30	DJ	23	VAL
30	DJ	42	ASN
30	DJ	46	ALA
30	DJ	57	ILE
30	DJ	77	LEU
30	DJ	81	ALA
30	DJ	91	PRO
30	DJ	108	ALA
30	DJ	112	MET
30	DJ	142	PRO
31	DK	30	LYS
31	DK	69	ASP
31	DK	123	PRO
31	DK	124	GLU
31	DK	155	THR
31	DK	157	PRO
31	DK	163	PRO
31	DK	165	VAL
32	DL	4	PRO
32	DL	47	VAL
32	DL	60	PRO
32	DL	120	ASP
32	DL	131	PRO
33	DM	8	PRO
33	DM	9	THR
33	DM	14	LYS
33	DM	17	LYS
33	DM	37	GLN
33	DM	53	ARG
33	DM	60	LEU
33	DM	102	LYS
33	DM	105	PRO
33	DM	133	VAL

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Mol	Chain	Res	Type
33	DM	139	ARG
33	DM	141	VAL
33	DM	143	PRO
34	DN	12	LYS
34	DN	14	PHE
34	DN	22	ALA
34	DN	26	ASP
34	DN	73	LYS
34	DN	74	PRO
34	DN	79	PRO
35	DO	13	ASN
35	DO	18	VAL
35	DO	23	ALA
35	DO	91	PRO
35	DO	102	THR
36	DP	56	SER
37	DQ	25	PRO
37	DQ	48	GLN
37	DQ	64	LYS
37	DQ	93	ILE
37	DQ	124	VAL
38	DR	33	ARG
38	DR	62	ILE
38	DR	113	SER
39	DS	5	ILE
39	DS	13	ARG
39	DS	25	LEU
39	DS	31	ASP
39	DS	80	TYR
39	DS	84	THR
40	DT	61	PRO
40	DT	67	PRO
40	DT	81	HIS
40	DT	130	GLU
41	DU	5	ASP
41	DU	12	ILE
41	DU	33	ALA
41	DU	67	ARG
41	DU	72	ARG
41	DU	88	ILE
42	DV	6	ALA
42	DV	48	VAL

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Mol	Chain	Res	Type
42	DV	58	VAL
42	DV	60	PRO
42	DV	65	PRO
42	DV	69	GLN
42	DV	77	HIS
43	DW	7	PRO
43	DW	30	VAL
43	DW	40	ASP
43	DW	46	GLN
43	DW	75	LYS
43	DW	115	ILE
43	DW	124	ALA
43	DW	125	PRO
43	DW	127	PRO
43	DW	137	ASP
43	DW	138	VAL
43	DW	152	ILE
43	DW	155	PRO
44	DX	27	GLY
44	DX	31	VAL
45	DY	11	ALA
45	DY	20	ALA
45	DY	42	ARG
46	DZ	6	VAL
46	DZ	35	SER
47	D1	7	PRO
47	D1	11	PRO
47	D1	31	ILE
48	D2	5	PRO
48	D2	28	PRO
48	D2	46	CYS
48	D2	47	PRO
48	D2	48	ASN
48	D2	53	ASP
49	D3	9	ILE
49	D3	42	PRO
49	D3	48	VAL
49	D3	49	VAL
50	D4	7	PRO
50	D4	41	GLN
51	D5	8	LYS
51	D5	61	MET

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Mol	Chain	Res	Type
51	D5	63	PRO
53	D7	20	TYR
53	D7	81	PRO
2	EB	19	HIS
2	EB	24	TRP
2	EB	165	VAL
2	EB	195	ASP
3	EC	4	LYS
3	EC	16	ARG
3	EC	26	LYS
3	EC	73	PRO
3	EC	167	TRP
4	ED	24	GLU
4	ED	170	VAL
4	ED	178	VAL
4	ED	204	ILE
5	EE	16	THR
5	EE	70	PRO
6	EF	35	ALA
6	EF	48	LEU
6	EF	96	PRO
7	EG	134	ALA
9	EI	41	VAL
9	EI	117	HIS
10	EJ	34	VAL
10	EJ	55	LYS
10	EJ	79	ARG
10	EJ	86	MET
12	EL	45	PRO
12	EL	104	VAL
13	EM	19	LEU
13	EM	30	ALA
13	EM	124	PRO
14	EN	22	THR
17	EQ	33	GLY
17	EQ	104	LYS
18	ER	54	ARG
18	ER	59	SER
19	ES	36	ARG
19	ES	76	PRO
24	FD	8	PRO
24	FD	25	THR

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Mol	Chain	Res	Type
24	FD	64	ILE
24	FD	68	LYS
24	FD	92	ILE
24	FD	95	LEU
24	FD	105	ILE
24	FD	108	PRO
24	FD	126	LYS
24	FD	178	PRO
24	FD	193	ILE
24	FD	205	VAL
24	FD	214	TRP
24	FD	219	PRO
24	FD	228	PRO
24	FD	229	VAL
24	FD	246	PRO
24	FD	249	PRO
24	FD	257	LEU
24	FD	266	SER
25	FE	7	THR
25	FE	22	PRO
25	FE	53	PRO
25	FE	72	VAL
25	FE	96	PHE
25	FE	147	PRO
26	FF	22	VAL
26	FF	88	PRO
26	FF	121	ASP
26	FF	160	ALA
26	FF	166	TRP
26	FF	184	ASP
26	FF	189	ASP
27	FG	3	GLN
27	FG	35	VAL
27	FG	60	ILE
27	FG	67	ILE
27	FG	74	ILE
27	FG	84	PRO
27	FG	85	VAL
27	FG	87	ILE
27	FG	88	LYS
27	FG	111	ILE
27	FG	122	PHE

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Mol	Chain	Res	Type
27	FG	132	ILE
27	FG	134	GLU
27	FG	138	PHE
27	FG	139	PRO
27	FG	150	ARG
27	FG	156	ILE
28	FH	7	GLN
28	FH	9	ILE
28	FH	36	PRO
28	FH	38	ASN
28	FH	43	VAL
28	FH	112	PRO
28	FH	115	ILE
28	FH	125	VAL
28	FH	126	PRO
28	FH	176	ALA
29	FI	4	ILE
29	FI	30	ILE
29	FI	46	LEU
29	FI	47	GLU
29	FI	49	GLN
30	FJ	3	LYS
30	FJ	7	ILE
30	FJ	13	PRO
30	FJ	20	ALA
30	FJ	22	PRO
30	FJ	23	VAL
30	FJ	42	ASN
30	FJ	46	ALA
30	FJ	57	ILE
30	FJ	77	LEU
30	FJ	81	ALA
30	FJ	91	PRO
30	FJ	108	ALA
30	FJ	112	MET
30	FJ	142	PRO
31	FK	30	LYS
31	FK	69	ASP
31	FK	123	PRO
31	FK	124	GLU
31	FK	155	THR
31	FK	157	PRO

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Mol	Chain	Res	Type
31	FK	163	PRO
31	FK	165	VAL
32	FL	4	PRO
32	FL	47	VAL
32	FL	60	PRO
32	FL	120	ASP
32	FL	131	PRO
33	FM	8	PRO
33	FM	9	THR
33	FM	14	LYS
33	FM	17	LYS
33	FM	37	GLN
33	FM	53	ARG
33	FM	60	LEU
33	FM	70	THR
33	FM	102	LYS
33	FM	105	PRO
33	FM	133	VAL
33	FM	139	ARG
33	FM	141	VAL
33	FM	143	PRO
34	FN	12	LYS
34	FN	14	PHE
34	FN	22	ALA
34	FN	26	ASP
34	FN	73	LYS
34	FN	74	PRO
34	FN	79	PRO
35	FO	13	ASN
35	FO	18	VAL
35	FO	23	ALA
35	FO	91	PRO
35	FO	102	THR
36	FP	56	SER
37	FQ	25	PRO
37	FQ	48	GLN
37	FQ	64	LYS
37	FQ	93	ILE
37	FQ	124	VAL
38	FR	33	ARG
38	FR	62	ILE
38	FR	113	SER

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Mol	Chain	Res	Type
39	FS	5	ILE
39	FS	13	ARG
39	FS	25	LEU
39	FS	31	ASP
39	FS	80	TYR
39	FS	84	THR
40	FT	61	PRO
40	FT	67	PRO
40	FT	81	HIS
40	FT	130	GLU
41	FU	5	ASP
41	FU	12	ILE
41	FU	33	ALA
41	FU	67	ARG
41	FU	72	ARG
41	FU	88	ILE
42	FV	6	ALA
42	FV	48	VAL
42	FV	58	VAL
42	FV	60	PRO
42	FV	65	PRO
42	FV	69	GLN
42	FV	77	HIS
43	FW	7	PRO
43	FW	30	VAL
43	FW	40	ASP
43	FW	46	GLN
43	FW	75	LYS
43	FW	115	ILE
43	FW	124	ALA
43	FW	125	PRO
43	FW	127	PRO
43	FW	137	ASP
43	FW	138	VAL
43	FW	152	ILE
43	FW	155	PRO
44	FX	27	GLY
44	FX	31	VAL
45	FY	11	ALA
45	FY	20	ALA
45	FY	42	ARG
46	FZ	6	VAL

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Mol	Chain	Res	Type
46	FZ	35	SER
47	F1	7	PRO
47	F1	11	PRO
47	F1	31	ILE
48	F2	5	PRO
48	F2	28	PRO
48	F2	46	CYS
48	F2	47	PRO
48	F2	48	ASN
48	F2	53	ASP
49	F3	9	ILE
49	F3	42	PRO
49	F3	48	VAL
49	F3	49	VAL
50	F4	7	PRO
50	F4	41	GLN
51	F5	8	LYS
51	F5	61	MET
51	F5	63	PRO
53	F7	20	TYR
53	F7	81	PRO
2	GB	19	HIS
2	GB	24	TRP
2	GB	165	VAL
2	GB	195	ASP
3	GC	4	LYS
3	GC	16	ARG
3	GC	26	LYS
3	GC	73	PRO
3	GC	167	TRP
4	GD	24	GLU
4	GD	170	VAL
4	GD	178	VAL
4	GD	204	ILE
5	GE	16	THR
5	GE	70	PRO
6	GF	35	ALA
6	GF	48	LEU
6	GF	96	PRO
7	GG	134	ALA
9	GI	41	VAL
9	GI	117	HIS

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Mol	Chain	Res	Type
10	GJ	34	VAL
10	GJ	55	LYS
10	GJ	79	ARG
10	GJ	86	MET
12	GL	45	PRO
12	GL	104	VAL
13	GM	30	ALA
13	GM	90	LEU
13	GM	124	PRO
14	GN	22	THR
17	GQ	33	GLY
17	GQ	104	LYS
18	GR	54	ARG
18	GR	59	SER
19	GS	36	ARG
19	GS	76	PRO
24	HD	8	PRO
24	HD	25	THR
24	HD	64	ILE
24	HD	68	LYS
24	HD	92	ILE
24	HD	95	LEU
24	HD	105	ILE
24	HD	108	PRO
24	HD	126	LYS
24	HD	178	PRO
24	HD	193	ILE
24	HD	205	VAL
24	HD	214	TRP
24	HD	219	PRO
24	HD	228	PRO
24	HD	229	VAL
24	HD	246	PRO
24	HD	249	PRO
24	HD	257	LEU
24	HD	266	SER
25	HE	7	THR
25	HE	22	PRO
25	HE	53	PRO
25	HE	72	VAL
25	HE	96	PHE
25	HE	147	PRO

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Mol	Chain	Res	Type
26	HF	22	VAL
26	HF	88	PRO
26	HF	121	ASP
26	HF	160	ALA
26	HF	166	TRP
26	HF	184	ASP
26	HF	189	ASP
27	HG	3	GLN
27	HG	35	VAL
27	HG	60	ILE
27	HG	67	ILE
27	HG	74	ILE
27	HG	84	PRO
27	HG	85	VAL
27	HG	87	ILE
27	HG	88	LYS
27	HG	111	ILE
27	HG	122	PHE
27	HG	132	ILE
27	HG	134	GLU
27	HG	138	PHE
27	HG	139	PRO
27	HG	150	ARG
27	HG	156	ILE
28	HH	7	GLN
28	HH	9	ILE
28	HH	36	PRO
28	HH	38	ASN
28	HH	43	VAL
28	HH	112	PRO
28	HH	115	ILE
28	HH	125	VAL
28	HH	126	PRO
28	HH	176	ALA
29	HI	4	ILE
29	HI	30	ILE
29	HI	46	LEU
29	HI	47	GLU
29	HI	49	GLN
30	HJ	3	LYS
30	HJ	7	ILE
30	HJ	13	PRO

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Mol	Chain	Res	Type
30	HJ	20	ALA
30	HJ	22	PRO
30	HJ	23	VAL
30	HJ	42	ASN
30	HJ	46	ALA
30	HJ	57	ILE
30	HJ	65	PHE
30	HJ	77	LEU
30	HJ	81	ALA
30	HJ	91	PRO
30	HJ	108	ALA
30	HJ	112	MET
30	HJ	142	PRO
31	HK	30	LYS
31	HK	69	ASP
31	HK	123	PRO
31	HK	124	GLU
31	HK	155	THR
31	HK	157	PRO
31	HK	163	PRO
31	HK	165	VAL
32	HL	4	PRO
32	HL	47	VAL
32	HL	60	PRO
32	HL	120	ASP
32	HL	131	PRO
33	HM	8	PRO
33	HM	9	THR
33	HM	14	LYS
33	HM	17	LYS
33	HM	37	GLN
33	HM	53	ARG
33	HM	60	LEU
33	HM	70	THR
33	HM	102	LYS
33	HM	105	PRO
33	HM	133	VAL
33	HM	139	ARG
33	HM	141	VAL
33	HM	143	PRO
34	HN	12	LYS
34	HN	14	PHE

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Mol	Chain	Res	Type
34	HN	22	ALA
34	HN	26	ASP
34	HN	73	LYS
34	HN	74	PRO
34	HN	79	PRO
35	HO	13	ASN
35	HO	18	VAL
35	HO	23	ALA
35	HO	69	ASP
35	HO	91	PRO
35	HO	102	THR
36	HP	56	SER
37	HQ	25	PRO
37	HQ	48	GLN
37	HQ	64	LYS
37	HQ	93	ILE
37	HQ	124	VAL
38	HR	33	ARG
38	HR	62	ILE
38	HR	113	SER
39	HS	5	ILE
39	HS	13	ARG
39	HS	25	LEU
39	HS	31	ASP
39	HS	80	TYR
39	HS	84	THR
40	HT	61	PRO
40	HT	67	PRO
40	HT	81	HIS
40	HT	130	GLU
41	HU	5	ASP
41	HU	12	ILE
41	HU	33	ALA
41	HU	67	ARG
41	HU	72	ARG
41	HU	88	ILE
42	HV	6	ALA
42	HV	48	VAL
42	HV	58	VAL
42	HV	60	PRO
42	HV	65	PRO
42	HV	69	GLN

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Mol	Chain	Res	Type
42	HV	77	HIS
43	HW	7	PRO
43	HW	30	VAL
43	HW	40	ASP
43	HW	46	GLN
43	HW	75	LYS
43	HW	115	ILE
43	HW	124	ALA
43	HW	125	PRO
43	HW	127	PRO
43	HW	137	ASP
43	HW	138	VAL
43	HW	152	ILE
43	HW	155	PRO
44	HX	27	GLY
44	HX	31	VAL
45	HY	11	ALA
45	HY	20	ALA
45	HY	42	ARG
46	HZ	6	VAL
46	HZ	35	SER
47	H1	7	PRO
47	H1	11	PRO
47	H1	31	ILE
48	H2	5	PRO
48	H2	28	PRO
48	H2	46	CYS
48	H2	47	PRO
48	H2	48	ASN
48	H2	53	ASP
49	H3	9	ILE
49	H3	42	PRO
49	H3	48	VAL
49	H3	49	VAL
50	H4	7	PRO
50	H4	41	GLN
51	H5	8	LYS
51	H5	61	MET
51	H5	63	PRO
53	H7	20	TYR
53	H7	81	PRO
2	IB	19	HIS

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Mol	Chain	Res	Type
2	IB	24	TRP
2	IB	165	VAL
2	IB	195	ASP
3	IC	4	LYS
3	IC	16	ARG
3	IC	26	LYS
3	IC	73	PRO
3	IC	167	TRP
4	ID	24	GLU
4	ID	170	VAL
4	ID	178	VAL
4	ID	204	ILE
5	IE	16	THR
5	IE	70	PRO
6	IF	35	ALA
6	IF	48	LEU
6	IF	96	PRO
7	IG	134	ALA
9	II	41	VAL
9	II	117	HIS
10	IJ	34	VAL
10	IJ	55	LYS
10	IJ	79	ARG
10	IJ	86	MET
12	IL	45	PRO
12	IL	104	VAL
13	IM	19	LEU
13	IM	30	ALA
13	IM	124	PRO
14	IN	22	THR
17	IQ	33	GLY
17	IQ	104	LYS
18	IR	54	ARG
18	IR	59	SER
19	IS	36	ARG
19	IS	76	PRO
24	JD	8	PRO
24	JD	25	THR
24	JD	64	ILE
24	JD	68	LYS
24	JD	92	ILE
24	JD	95	LEU

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Mol	Chain	Res	Type
24	JD	105	ILE
24	JD	108	PRO
24	JD	126	LYS
24	JD	178	PRO
24	JD	193	ILE
24	JD	205	VAL
24	JD	214	TRP
24	JD	219	PRO
24	JD	228	PRO
24	JD	229	VAL
24	JD	246	PRO
24	JD	249	PRO
24	JD	257	LEU
24	JD	266	SER
25	JE	7	THR
25	JE	22	PRO
25	JE	53	PRO
25	JE	72	VAL
25	JE	96	PHE
25	JE	147	PRO
26	JF	22	VAL
26	JF	88	PRO
26	JF	121	ASP
26	JF	160	ALA
26	JF	166	TRP
26	JF	184	ASP
26	JF	189	ASP
27	JG	3	GLN
27	JG	23	SER
27	JG	35	VAL
27	JG	60	ILE
27	JG	67	ILE
27	JG	74	ILE
27	JG	84	PRO
27	JG	85	VAL
27	JG	87	ILE
27	JG	88	LYS
27	JG	111	ILE
27	JG	122	PHE
27	JG	132	ILE
27	JG	134	GLU
27	JG	138	PHE

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Mol	Chain	Res	Type
27	JG	139	PRO
27	JG	150	ARG
27	JG	156	ILE
28	JH	7	GLN
28	JH	9	ILE
28	JH	36	PRO
28	JH	38	ASN
28	JH	43	VAL
28	JH	112	PRO
28	JH	115	ILE
28	JH	125	VAL
28	JH	126	PRO
28	JH	176	ALA
29	JI	4	ILE
29	JI	30	ILE
29	JI	46	LEU
29	JI	47	GLU
29	JI	49	GLN
30	JJ	3	LYS
30	JJ	7	ILE
30	JJ	13	PRO
30	JJ	20	ALA
30	JJ	22	PRO
30	JJ	23	VAL
30	JJ	42	ASN
30	JJ	57	ILE
30	JJ	65	PHE
30	JJ	77	LEU
30	JJ	81	ALA
30	JJ	91	PRO
30	JJ	108	ALA
30	JJ	112	MET
30	JJ	142	PRO
31	JK	30	LYS
31	JK	69	ASP
31	JK	123	PRO
31	JK	124	GLU
31	JK	155	THR
31	JK	157	PRO
31	JK	163	PRO
31	JK	165	VAL
32	JL	4	PRO

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Mol	Chain	Res	Type
32	JL	47	VAL
32	JL	60	PRO
32	JL	120	ASP
32	JL	131	PRO
33	JM	8	PRO
33	JM	9	THR
33	JM	14	LYS
33	JM	17	LYS
33	JM	37	GLN
33	JM	53	ARG
33	JM	60	LEU
33	JM	70	THR
33	JM	102	LYS
33	JM	105	PRO
33	JM	133	VAL
33	JM	139	ARG
33	JM	141	VAL
33	JM	143	PRO
34	JN	12	LYS
34	JN	14	PHE
34	JN	22	ALA
34	JN	26	ASP
34	JN	73	LYS
34	JN	74	PRO
34	JN	79	PRO
35	JO	13	ASN
35	JO	18	VAL
35	JO	23	ALA
35	JO	91	PRO
35	JO	102	THR
36	JP	56	SER
37	JQ	25	PRO
37	JQ	48	GLN
37	JQ	64	LYS
37	JQ	93	ILE
37	JQ	124	VAL
38	JR	33	ARG
38	JR	62	ILE
38	JR	113	SER
39	JS	5	ILE
39	JS	13	ARG
39	JS	25	LEU

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Mol	Chain	Res	Type
39	JS	31	ASP
39	JS	80	TYR
39	JS	84	THR
40	JT	61	PRO
40	JT	67	PRO
40	JT	81	HIS
40	JT	130	GLU
41	JU	5	ASP
41	JU	12	ILE
41	JU	33	ALA
41	JU	67	ARG
41	JU	72	ARG
41	JU	88	ILE
42	JV	6	ALA
42	JV	48	VAL
42	JV	58	VAL
42	JV	60	PRO
42	JV	65	PRO
42	JV	69	GLN
42	JV	77	HIS
43	JW	7	PRO
43	JW	30	VAL
43	JW	40	ASP
43	JW	46	GLN
43	JW	75	LYS
43	JW	115	ILE
43	JW	124	ALA
43	JW	125	PRO
43	JW	127	PRO
43	JW	137	ASP
43	JW	138	VAL
43	JW	152	ILE
43	JW	155	PRO
44	JX	27	GLY
44	JX	31	VAL
45	JY	11	ALA
45	JY	20	ALA
45	JY	42	ARG
46	JZ	6	VAL
46	JZ	35	SER
47	J1	7	PRO
47	J1	11	PRO

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Mol	Chain	Res	Type
47	J1	31	ILE
48	J2	5	PRO
48	J2	28	PRO
48	J2	46	CYS
48	J2	47	PRO
48	J2	48	ASN
48	J2	53	ASP
49	J3	9	ILE
49	J3	42	PRO
49	J3	48	VAL
49	J3	49	VAL
50	J4	7	PRO
50	J4	41	GLN
51	J5	8	LYS
51	J5	61	MET
51	J5	63	PRO
53	J7	20	TYR
53	J7	81	PRO
2	AB	17	PHE
2	AB	20	GLU
2	AB	59	GLU
2	AB	134	GLU
2	AB	154	LEU
2	AB	174	VAL
2	AB	177	ALA
2	AB	190	THR
3	AC	61	ALA
3	AC	66	VAL
3	AC	127	ARG
3	AC	134	ILE
3	AC	160	ALA
4	AD	10	ARG
4	AD	119	GLN
4	AD	131	ARG
4	AD	147	ALA
4	AD	157	LEU
4	AD	173	TRP
5	AE	55	VAL
5	AE	107	ARG
6	AF	84	ASN
6	AF	94	GLN
7	AG	25	ALA

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Mol	Chain	Res	Type
7	AG	62	PHE
7	AG	130	GLY
8	AH	2	LEU
8	AH	3	THR
8	AH	127	LEU
9	AI	38	GLN
9	AI	55	ALA
9	AI	60	ASP
9	AI	61	ALA
10	AJ	35	SER
10	AJ	72	VAL
10	AJ	84	GLN
11	AK	47	VAL
11	AK	49	GLY
11	AK	98	LEU
11	AK	121	PRO
11	AK	125	PHE
13	AM	19	LEU
13	AM	67	GLU
13	AM	100	GLY
13	AM	107	ALA
13	AM	113	PRO
14	AN	11	LYS
14	AN	54	PRO
15	AO	69	TYR
15	AO	73	GLU
16	AP	66	PRO
17	AQ	4	LYS
17	AQ	36	ILE
17	AQ	87	LYS
18	AR	23	LYS
18	AR	52	PRO
18	AR	80	PRO
19	AS	30	LEU
19	AS	67	VAL
19	AS	68	GLY
20	AT	65	LYS
24	BD	22	SER
24	BD	28	ARG
24	BD	32	ALA
24	BD	38	PRO
24	BD	39	LYS

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Mol	Chain	Res	Type
24	BD	44	ASN
24	BD	72	LYS
24	BD	79	VAL
24	BD	85	ASP
24	BD	104	TYR
24	BD	117	VAL
24	BD	134	ARG
24	BD	144	ALA
24	BD	172	TYR
24	BD	175	VAL
24	BD	211	ARG
24	BD	221	GLN
24	BD	233	HIS
24	BD	251	GLY
25	BE	3	GLY
25	BE	6	GLY
25	BE	9	ILE
25	BE	39	ALA
25	BE	49	ILE
25	BE	91	VAL
25	BE	113	THR
25	BE	166	THR
26	BF	15	ILE
26	BF	20	PRO
26	BF	38	ARG
26	BF	59	TYR
26	BF	64	THR
26	BF	102	LEU
26	BF	129	LYS
26	BF	130	THR
26	BF	140	ASN
26	BF	156	ASN
26	BF	158	ARG
26	BF	194	GLU
27	BG	21	GLY
27	BG	32	GLU
27	BG	37	ASN
27	BG	48	LYS
27	BG	78	LYS
27	BG	89	VAL
27	BG	104	ILE
27	BG	118	ASN

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Mol	Chain	Res	Type
27	BG	165	GLU
28	BH	67	LEU
28	BH	85	ILE
28	BH	119	ALA
28	BH	122	THR
28	BH	131	ILE
28	BH	150	LYS
28	BH	161	GLY
28	BH	165	VAL
29	BI	14	THR
29	BI	27	ASN
29	BI	35	ALA
29	BI	38	ALA
29	BI	44	LYS
30	BJ	8	VAL
30	BJ	19	PRO
30	BJ	21	PRO
30	BJ	29	GLN
30	BJ	43	ALA
30	BJ	52	ILE
30	BJ	65	PHE
30	BJ	82	ALA
30	BJ	92	ASN
30	BJ	94	ALA
30	BJ	141	GLY
31	BK	61	ARG
31	BK	72	PRO
31	BK	101	THR
31	BK	103	TYR
31	BK	136	PRO
31	BK	139	ARG
31	BK	140	GLN
31	BK	148	LEU
32	BL	5	GLN
32	BL	22	ILE
32	BL	31	GLY
32	BL	32	LYS
32	BL	63	ALA
32	BL	68	ASP
32	BL	69	VAL
32	BL	81	ILE
32	BL	97	VAL

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Mol	Chain	Res	Type
32	BL	100	ASN
32	BL	105	PRO
32	BL	124	MET
33	BM	35	LYS
33	BM	63	ARG
33	BM	65	PHE
33	BM	79	GLN
33	BM	88	PHE
33	BM	103	ASN
33	BM	107	LYS
34	BN	41	ALA
34	BN	58	HIS
34	BN	80	ALA
34	BN	90	ALA
34	BN	107	VAL
34	BN	108	ALA
35	BO	5	LYS
35	BO	39	THR
35	BO	48	VAL
35	BO	52	ILE
35	BO	60	LEU
35	BO	69	ASP
35	BO	71	HIS
35	BO	100	VAL
35	BO	113	ILE
36	BP	18	ARG
36	BP	33	ARG
36	BP	49	GLN
36	BP	67	THR
36	BP	103	LEU
37	BQ	5	ILE
37	BQ	21	THR
37	BQ	65	SER
37	BQ	66	PHE
37	BQ	82	PRO
37	BQ	99	VAL
37	BQ	114	ALA
37	BQ	120	ASP
38	BR	31	GLN
38	BR	32	TYR
38	BR	37	GLN
38	BR	73	GLY

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Mol	Chain	Res	Type
38	BR	74	MET
38	BR	75	ASN
38	BR	89	ASP
38	BR	110	VAL
39	BS	16	GLU
39	BS	56	VAL
39	BS	87	ARG
40	BT	48	LYS
40	BT	84	GLU
40	BT	108	PRO
40	BT	110	ALA
41	BU	10	PRO
41	BU	11	VAL
41	BU	27	PHE
41	BU	29	VAL
41	BU	39	LYS
41	BU	55	THR
41	BU	57	ASN
41	BU	59	PRO
41	BU	68	PHE
41	BU	73	ASN
41	BU	80	VAL
41	BU	82	LEU
42	BV	12	ASP
42	BV	66	GLN
42	BV	78	ALA
42	BV	84	VAL
42	BV	86	PRO
42	BV	89	GLY
42	BV	93	ARG
42	BV	108	VAL
43	BW	19	ILE
43	BW	20	ALA
43	BW	21	ALA
43	BW	32	PHE
43	BW	33	ALA
43	BW	35	ASP
43	BW	57	GLU
43	BW	116	VAL
43	BW	126	GLY
43	BW	165	GLU
43	BW	166	LEU

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Mol	Chain	Res	Type
44	BX	32	LYS
44	BX	46	LYS
44	BX	68	VAL
44	BX	71	ASN
44	BX	74	LYS
44	BX	80	SER
44	BX	81	ILE
45	BY	38	ALA
45	BY	46	LEU
45	BY	59	GLU
45	BY	60	LEU
46	BZ	9	VAL
46	BZ	33	GLU
46	BZ	36	ASP
46	BZ	50	LEU
46	BZ	54	GLN
47	B1	21	VAL
47	B1	22	MET
47	B1	25	MET
47	B1	34	ASP
47	B1	50	LEU
47	B1	61	LYS
47	B1	72	LYS
48	B2	12	SER
48	B2	24	ALA
48	B2	45	ILE
48	B2	57	VAL
49	B3	14	SER
49	B3	20	PHE
49	B3	27	ASN
49	B3	29	ARG
49	B3	39	LYS
49	B3	44	ALA
50	B4	12	ARG
50	B4	18	PHE
50	B4	34	ARG
50	B4	40	HIS
51	B5	27	SER
51	B5	30	ARG
51	B5	47	GLY
51	B5	50	LEU
51	B5	57	ARG

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Mol	Chain	Res	Type
52	B6	3	VAL
52	B6	8	LYS
52	B6	17	VAL
52	B6	27	CYS
52	B6	31	LYS
53	B7	58	PRO
53	B7	68	PRO
53	B7	79	ALA
53	B7	108	GLU
53	B7	160	LYS
53	B7	201	ARG
2	CB	17	PHE
2	CB	20	GLU
2	CB	59	GLU
2	CB	134	GLU
2	CB	154	LEU
2	CB	174	VAL
2	CB	177	ALA
2	CB	190	THR
3	CC	61	ALA
3	CC	66	VAL
3	CC	127	ARG
3	CC	134	ILE
3	CC	160	ALA
4	CD	10	ARG
4	CD	119	GLN
4	CD	131	ARG
4	CD	147	ALA
4	CD	157	LEU
4	CD	173	TRP
5	CE	55	VAL
5	CE	107	ARG
6	CF	84	ASN
6	CF	94	GLN
7	CG	25	ALA
7	CG	62	PHE
7	CG	130	GLY
8	CH	2	LEU
8	CH	3	THR
8	CH	127	LEU
9	CI	38	GLN
9	CI	55	ALA

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Mol	Chain	Res	Type
9	CI	60	ASP
9	CI	61	ALA
10	CJ	35	SER
10	CJ	72	VAL
10	CJ	84	GLN
11	CK	47	VAL
11	CK	49	GLY
11	CK	98	LEU
11	CK	121	PRO
11	CK	125	PHE
13	CM	19	LEU
13	CM	67	GLU
13	CM	100	GLY
13	CM	107	ALA
13	CM	113	PRO
14	CN	11	LYS
14	CN	28	GLY
14	CN	54	PRO
15	CO	69	TYR
15	CO	73	GLU
16	CP	66	PRO
17	CQ	4	LYS
17	CQ	36	ILE
17	CQ	87	LYS
18	CR	23	LYS
18	CR	52	PRO
18	CR	80	PRO
19	CS	30	LEU
19	CS	67	VAL
19	CS	68	GLY
20	CT	65	LYS
24	DD	22	SER
24	DD	28	ARG
24	DD	32	ALA
24	DD	38	PRO
24	DD	39	LYS
24	DD	44	ASN
24	DD	72	LYS
24	DD	79	VAL
24	DD	85	ASP
24	DD	104	TYR
24	DD	117	VAL

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Mol	Chain	Res	Type
24	DD	134	ARG
24	DD	144	ALA
24	DD	172	TYR
24	DD	175	VAL
24	DD	211	ARG
24	DD	221	GLN
24	DD	233	HIS
24	DD	251	GLY
25	DE	3	GLY
25	DE	6	GLY
25	DE	9	ILE
25	DE	39	ALA
25	DE	49	ILE
25	DE	91	VAL
25	DE	113	THR
25	DE	166	THR
26	DF	15	ILE
26	DF	20	PRO
26	DF	38	ARG
26	DF	59	TYR
26	DF	64	THR
26	DF	102	LEU
26	DF	129	LYS
26	DF	130	THR
26	DF	140	ASN
26	DF	156	ASN
26	DF	158	ARG
26	DF	194	GLU
27	DG	21	GLY
27	DG	23	SER
27	DG	32	GLU
27	DG	37	ASN
27	DG	48	LYS
27	DG	78	LYS
27	DG	89	VAL
27	DG	104	ILE
27	DG	118	ASN
27	DG	165	GLU
28	DH	67	LEU
28	DH	85	ILE
28	DH	119	ALA
28	DH	122	THR

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Mol	Chain	Res	Type
28	DH	131	ILE
28	DH	150	LYS
28	DH	161	GLY
28	DH	165	VAL
29	DI	14	THR
29	DI	27	ASN
29	DI	35	ALA
29	DI	38	ALA
29	DI	44	LYS
30	DJ	8	VAL
30	DJ	19	PRO
30	DJ	21	PRO
30	DJ	29	GLN
30	DJ	43	ALA
30	DJ	52	ILE
30	DJ	65	PHE
30	DJ	82	ALA
30	DJ	92	ASN
30	DJ	94	ALA
30	DJ	141	GLY
31	DK	61	ARG
31	DK	72	PRO
31	DK	101	THR
31	DK	103	TYR
31	DK	136	PRO
31	DK	139	ARG
31	DK	140	GLN
31	DK	148	LEU
32	DL	5	GLN
32	DL	22	ILE
32	DL	31	GLY
32	DL	32	LYS
32	DL	63	ALA
32	DL	68	ASP
32	DL	69	VAL
32	DL	81	ILE
32	DL	97	VAL
32	DL	100	ASN
32	DL	105	PRO
32	DL	124	MET
33	DM	35	LYS
33	DM	63	ARG

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Mol	Chain	Res	Type
33	DM	65	PHE
33	DM	70	THR
33	DM	79	GLN
33	DM	88	PHE
33	DM	103	ASN
33	DM	107	LYS
34	DN	41	ALA
34	DN	58	HIS
34	DN	80	ALA
34	DN	90	ALA
34	DN	107	VAL
34	DN	108	ALA
35	DO	5	LYS
35	DO	39	THR
35	DO	48	VAL
35	DO	52	ILE
35	DO	60	LEU
35	DO	69	ASP
35	DO	71	HIS
35	DO	100	VAL
35	DO	113	ILE
36	DP	18	ARG
36	DP	33	ARG
36	DP	49	GLN
36	DP	67	THR
36	DP	103	LEU
37	DQ	5	ILE
37	DQ	21	THR
37	DQ	66	PHE
37	DQ	82	PRO
37	DQ	99	VAL
37	DQ	114	ALA
37	DQ	120	ASP
38	DR	31	GLN
38	DR	32	TYR
38	DR	37	GLN
38	DR	73	GLY
38	DR	74	MET
38	DR	75	ASN
38	DR	89	ASP
38	DR	110	VAL
39	DS	16	GLU

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Mol	Chain	Res	Type
39	DS	56	VAL
39	DS	87	ARG
40	DT	25	PHE
40	DT	48	LYS
40	DT	84	GLU
40	DT	108	PRO
40	DT	110	ALA
41	DU	10	PRO
41	DU	11	VAL
41	DU	27	PHE
41	DU	29	VAL
41	DU	39	LYS
41	DU	55	THR
41	DU	57	ASN
41	DU	59	PRO
41	DU	68	PHE
41	DU	73	ASN
41	DU	80	VAL
41	DU	82	LEU
42	DV	12	ASP
42	DV	66	GLN
42	DV	78	ALA
42	DV	84	VAL
42	DV	86	PRO
42	DV	89	GLY
42	DV	93	ARG
42	DV	108	VAL
43	DW	19	ILE
43	DW	20	ALA
43	DW	21	ALA
43	DW	32	PHE
43	DW	33	ALA
43	DW	35	ASP
43	DW	57	GLU
43	DW	116	VAL
43	DW	126	GLY
43	DW	165	GLU
43	DW	166	LEU
44	DX	32	LYS
44	DX	46	LYS
44	DX	68	VAL
44	DX	71	ASN

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Mol	Chain	Res	Type
44	DX	74	LYS
44	DX	81	ILE
45	DY	38	ALA
45	DY	46	LEU
45	DY	59	GLU
45	DY	60	LEU
46	DZ	9	VAL
46	DZ	33	GLU
46	DZ	36	ASP
46	DZ	50	LEU
46	DZ	54	GLN
47	D1	21	VAL
47	D1	22	MET
47	D1	25	MET
47	D1	34	ASP
47	D1	50	LEU
47	D1	61	LYS
47	D1	72	LYS
48	D2	12	SER
48	D2	24	ALA
48	D2	57	VAL
49	D3	14	SER
49	D3	20	PHE
49	D3	27	ASN
49	D3	29	ARG
49	D3	39	LYS
49	D3	44	ALA
50	D4	12	ARG
50	D4	18	PHE
50	D4	34	ARG
50	D4	40	HIS
51	D5	27	SER
51	D5	30	ARG
51	D5	47	GLY
51	D5	50	LEU
51	D5	57	ARG
52	D6	3	VAL
52	D6	8	LYS
52	D6	17	VAL
52	D6	25	VAL
52	D6	27	CYS
52	D6	31	LYS

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Mol	Chain	Res	Type
53	D7	58	PRO
53	D7	68	PRO
53	D7	79	ALA
53	D7	108	GLU
53	D7	160	LYS
53	D7	201	ARG
2	EB	17	PHE
2	EB	20	GLU
2	EB	59	GLU
2	EB	134	GLU
2	EB	154	LEU
2	EB	174	VAL
2	EB	177	ALA
2	EB	190	THR
3	EC	61	ALA
3	EC	66	VAL
3	EC	127	ARG
3	EC	134	ILE
3	EC	160	ALA
4	ED	10	ARG
4	ED	119	GLN
4	ED	131	ARG
4	ED	147	ALA
4	ED	157	LEU
4	ED	173	TRP
5	EE	55	VAL
5	EE	107	ARG
6	EF	84	ASN
6	EF	94	GLN
7	EG	25	ALA
7	EG	62	PHE
7	EG	130	GLY
8	EH	2	LEU
8	EH	3	THR
8	EH	127	LEU
9	EI	38	GLN
9	EI	55	ALA
9	EI	60	ASP
9	EI	61	ALA
10	EJ	35	SER
10	EJ	72	VAL
10	EJ	84	GLN

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Mol	Chain	Res	Type
11	EK	47	VAL
11	EK	49	GLY
11	EK	98	LEU
11	EK	121	PRO
11	EK	125	PHE
13	EM	67	GLU
13	EM	100	GLY
13	EM	107	ALA
13	EM	113	PRO
14	EN	11	LYS
14	EN	54	PRO
15	EO	69	TYR
15	EO	73	GLU
16	EP	66	PRO
17	EQ	4	LYS
17	EQ	36	ILE
17	EQ	87	LYS
18	ER	23	LYS
18	ER	52	PRO
18	ER	80	PRO
19	ES	30	LEU
19	ES	67	VAL
19	ES	68	GLY
20	ET	65	LYS
24	FD	22	SER
24	FD	28	ARG
24	FD	32	ALA
24	FD	38	PRO
24	FD	39	LYS
24	FD	44	ASN
24	FD	72	LYS
24	FD	79	VAL
24	FD	85	ASP
24	FD	104	TYR
24	FD	117	VAL
24	FD	134	ARG
24	FD	144	ALA
24	FD	172	TYR
24	FD	175	VAL
24	FD	221	GLN
24	FD	233	HIS
24	FD	251	GLY

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Mol	Chain	Res	Type
25	FE	3	GLY
25	FE	6	GLY
25	FE	9	ILE
25	FE	39	ALA
25	FE	49	ILE
25	FE	91	VAL
25	FE	113	THR
25	FE	166	THR
26	FF	15	ILE
26	FF	20	PRO
26	FF	38	ARG
26	FF	59	TYR
26	FF	64	THR
26	FF	102	LEU
26	FF	129	LYS
26	FF	130	THR
26	FF	140	ASN
26	FF	156	ASN
26	FF	158	ARG
26	FF	194	GLU
27	FG	21	GLY
27	FG	23	SER
27	FG	37	ASN
27	FG	48	LYS
27	FG	78	LYS
27	FG	89	VAL
27	FG	104	ILE
27	FG	118	ASN
27	FG	165	GLU
28	FH	67	LEU
28	FH	85	ILE
28	FH	119	ALA
28	FH	122	THR
28	FH	131	ILE
28	FH	150	LYS
28	FH	161	GLY
28	FH	165	VAL
29	FI	14	THR
29	FI	27	ASN
29	FI	38	ALA
29	FI	44	LYS
30	FJ	8	VAL

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Mol	Chain	Res	Type
30	FJ	19	PRO
30	FJ	21	PRO
30	FJ	29	GLN
30	FJ	43	ALA
30	FJ	52	ILE
30	FJ	65	PHE
30	FJ	82	ALA
30	FJ	92	ASN
30	FJ	94	ALA
30	FJ	141	GLY
31	FK	61	ARG
31	FK	72	PRO
31	FK	101	THR
31	FK	103	TYR
31	FK	136	PRO
31	FK	139	ARG
31	FK	140	GLN
31	FK	148	LEU
32	FL	5	GLN
32	FL	22	ILE
32	FL	31	GLY
32	FL	32	LYS
32	FL	63	ALA
32	FL	68	ASP
32	FL	69	VAL
32	FL	81	ILE
32	FL	97	VAL
32	FL	100	ASN
32	FL	105	PRO
32	FL	124	MET
33	FM	35	LYS
33	FM	63	ARG
33	FM	65	PHE
33	FM	79	GLN
33	FM	88	PHE
33	FM	103	ASN
33	FM	107	LYS
34	FN	41	ALA
34	FN	58	HIS
34	FN	80	ALA
34	FN	90	ALA
34	FN	107	VAL

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Mol	Chain	Res	Type
34	FN	108	ALA
35	FO	5	LYS
35	FO	39	THR
35	FO	48	VAL
35	FO	52	ILE
35	FO	60	LEU
35	FO	69	ASP
35	FO	71	HIS
35	FO	100	VAL
35	FO	113	ILE
36	FP	9	ARG
36	FP	18	ARG
36	FP	33	ARG
36	FP	49	GLN
36	FP	67	THR
36	FP	103	LEU
37	FQ	5	ILE
37	FQ	21	THR
37	FQ	65	SER
37	FQ	66	PHE
37	FQ	82	PRO
37	FQ	99	VAL
37	FQ	114	ALA
37	FQ	120	ASP
38	FR	31	GLN
38	FR	32	TYR
38	FR	37	GLN
38	FR	73	GLY
38	FR	74	MET
38	FR	75	ASN
38	FR	89	ASP
38	FR	110	VAL
39	FS	16	GLU
39	FS	56	VAL
39	FS	87	ARG
40	FT	48	LYS
40	FT	84	GLU
40	FT	108	PRO
40	FT	110	ALA
41	FU	10	PRO
41	FU	11	VAL
41	FU	27	PHE

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Mol	Chain	Res	Type
41	FU	29	VAL
41	FU	39	LYS
41	FU	55	THR
41	FU	57	ASN
41	FU	59	PRO
41	FU	68	PHE
41	FU	73	ASN
41	FU	80	VAL
41	FU	82	LEU
42	FV	12	ASP
42	FV	66	GLN
42	FV	78	ALA
42	FV	84	VAL
42	FV	86	PRO
42	FV	89	GLY
42	FV	93	ARG
42	FV	108	VAL
43	FW	19	ILE
43	FW	20	ALA
43	FW	21	ALA
43	FW	32	PHE
43	FW	33	ALA
43	FW	35	ASP
43	FW	57	GLU
43	FW	116	VAL
43	FW	126	GLY
43	FW	165	GLU
43	FW	166	LEU
44	FX	32	LYS
44	FX	46	LYS
44	FX	68	VAL
44	FX	71	ASN
44	FX	74	LYS
44	FX	80	SER
44	FX	81	ILE
45	FY	38	ALA
45	FY	46	LEU
45	FY	59	GLU
45	FY	60	LEU
46	FZ	9	VAL
46	FZ	33	GLU
46	FZ	36	ASP

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Mol	Chain	Res	Type
46	FZ	50	LEU
46	FZ	54	GLN
47	F1	22	MET
47	F1	25	MET
47	F1	34	ASP
47	F1	50	LEU
47	F1	61	LYS
47	F1	72	LYS
48	F2	12	SER
48	F2	24	ALA
48	F2	57	VAL
49	F3	14	SER
49	F3	20	PHE
49	F3	27	ASN
49	F3	29	ARG
49	F3	39	LYS
49	F3	44	ALA
50	F4	12	ARG
50	F4	18	PHE
50	F4	34	ARG
50	F4	40	HIS
51	F5	27	SER
51	F5	30	ARG
51	F5	47	GLY
51	F5	50	LEU
51	F5	57	ARG
52	F6	3	VAL
52	F6	8	LYS
52	F6	17	VAL
52	F6	25	VAL
52	F6	27	CYS
52	F6	31	LYS
53	F7	58	PRO
53	F7	68	PRO
53	F7	79	ALA
53	F7	108	GLU
53	F7	160	LYS
53	F7	201	ARG
2	GB	17	PHE
2	GB	20	GLU
2	GB	59	GLU
2	GB	134	GLU

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Mol	Chain	Res	Type
2	GB	154	LEU
2	GB	174	VAL
2	GB	177	ALA
2	GB	190	THR
3	GC	61	ALA
3	GC	66	VAL
3	GC	127	ARG
3	GC	134	ILE
3	GC	160	ALA
4	GD	10	ARG
4	GD	119	GLN
4	GD	131	ARG
4	GD	147	ALA
4	GD	157	LEU
4	GD	173	TRP
5	GE	55	VAL
5	GE	107	ARG
6	GF	84	ASN
6	GF	94	GLN
7	GG	25	ALA
7	GG	62	PHE
7	GG	130	GLY
8	GH	2	LEU
8	GH	3	THR
8	GH	127	LEU
9	GI	38	GLN
9	GI	55	ALA
9	GI	60	ASP
9	GI	61	ALA
10	GJ	35	SER
10	GJ	72	VAL
10	GJ	84	GLN
11	GK	47	VAL
11	GK	49	GLY
11	GK	98	LEU
11	GK	121	PRO
11	GK	125	PHE
13	GM	19	LEU
13	GM	67	GLU
13	GM	89	GLY
13	GM	100	GLY
13	GM	107	ALA

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Mol	Chain	Res	Type
13	GM	113	PRO
14	GN	11	LYS
14	GN	54	PRO
15	GO	69	TYR
15	GO	73	GLU
16	GP	66	PRO
17	GQ	4	LYS
17	GQ	36	ILE
17	GQ	87	LYS
18	GR	23	LYS
18	GR	52	PRO
18	GR	80	PRO
19	GS	30	LEU
19	GS	67	VAL
19	GS	68	GLY
20	GT	65	LYS
24	HD	22	SER
24	HD	28	ARG
24	HD	32	ALA
24	HD	38	PRO
24	HD	39	LYS
24	HD	44	ASN
24	HD	72	LYS
24	HD	79	VAL
24	HD	85	ASP
24	HD	104	TYR
24	HD	117	VAL
24	HD	134	ARG
24	HD	144	ALA
24	HD	172	TYR
24	HD	175	VAL
24	HD	211	ARG
24	HD	221	GLN
24	HD	233	HIS
24	HD	251	GLY
25	HE	3	GLY
25	HE	6	GLY
25	HE	9	ILE
25	HE	39	ALA
25	HE	49	ILE
25	HE	58	LYS
25	HE	91	VAL

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Mol	Chain	Res	Type
25	HE	113	THR
25	HE	166	THR
26	HF	15	ILE
26	HF	20	PRO
26	HF	38	ARG
26	HF	59	TYR
26	HF	64	THR
26	HF	102	LEU
26	HF	129	LYS
26	HF	130	THR
26	HF	140	ASN
26	HF	156	ASN
26	HF	158	ARG
26	HF	194	GLU
27	HG	21	GLY
27	HG	23	SER
27	HG	32	GLU
27	HG	37	ASN
27	HG	48	LYS
27	HG	78	LYS
27	HG	89	VAL
27	HG	104	ILE
27	HG	118	ASN
27	HG	165	GLU
28	HH	67	LEU
28	HH	85	ILE
28	HH	119	ALA
28	HH	122	THR
28	HH	131	ILE
28	HH	150	LYS
28	HH	161	GLY
28	HH	165	VAL
29	HI	14	THR
29	HI	27	ASN
29	HI	38	ALA
29	HI	44	LYS
30	HJ	8	VAL
30	HJ	19	PRO
30	HJ	21	PRO
30	HJ	29	GLN
30	HJ	43	ALA
30	HJ	52	ILE

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Mol	Chain	Res	Type
30	HJ	82	ALA
30	HJ	92	ASN
30	HJ	94	ALA
30	HJ	141	GLY
31	HK	61	ARG
31	HK	72	PRO
31	HK	101	THR
31	HK	103	TYR
31	HK	136	PRO
31	HK	139	ARG
31	HK	140	GLN
31	HK	148	LEU
32	HL	5	GLN
32	HL	22	ILE
32	HL	31	GLY
32	HL	32	LYS
32	HL	63	ALA
32	HL	68	ASP
32	HL	69	VAL
32	HL	81	ILE
32	HL	97	VAL
32	HL	100	ASN
32	HL	105	PRO
32	HL	124	MET
33	HM	35	LYS
33	HM	63	ARG
33	HM	65	PHE
33	HM	79	GLN
33	HM	88	PHE
33	HM	103	ASN
33	HM	107	LYS
34	HN	41	ALA
34	HN	58	HIS
34	HN	80	ALA
34	HN	90	ALA
34	HN	107	VAL
34	HN	108	ALA
35	HO	5	LYS
35	HO	39	THR
35	HO	48	VAL
35	HO	52	ILE
35	HO	60	LEU

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Mol	Chain	Res	Type
35	HO	71	HIS
35	HO	100	VAL
35	HO	113	ILE
36	HP	18	ARG
36	HP	33	ARG
36	HP	49	GLN
36	HP	67	THR
36	HP	103	LEU
37	HQ	5	ILE
37	HQ	21	THR
37	HQ	65	SER
37	HQ	66	PHE
37	HQ	82	PRO
37	HQ	99	VAL
37	HQ	114	ALA
37	HQ	120	ASP
38	HR	31	GLN
38	HR	32	TYR
38	HR	37	GLN
38	HR	73	GLY
38	HR	74	MET
38	HR	75	ASN
38	HR	89	ASP
38	HR	110	VAL
39	HS	16	GLU
39	HS	56	VAL
39	HS	87	ARG
40	HT	48	LYS
40	HT	84	GLU
40	HT	108	PRO
40	HT	110	ALA
41	HU	10	PRO
41	HU	11	VAL
41	HU	27	PHE
41	HU	29	VAL
41	HU	39	LYS
41	HU	55	THR
41	HU	57	ASN
41	HU	59	PRO
41	HU	68	PHE
41	HU	73	ASN
41	HU	80	VAL

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Mol	Chain	Res	Type
41	HU	82	LEU
42	HV	12	ASP
42	HV	66	GLN
42	HV	78	ALA
42	HV	84	VAL
42	HV	86	PRO
42	HV	89	GLY
42	HV	93	ARG
42	HV	108	VAL
43	HW	19	ILE
43	HW	20	ALA
43	HW	21	ALA
43	HW	32	PHE
43	HW	33	ALA
43	HW	35	ASP
43	HW	57	GLU
43	HW	116	VAL
43	HW	126	GLY
43	HW	165	GLU
43	HW	166	LEU
44	HX	32	LYS
44	HX	46	LYS
44	HX	68	VAL
44	HX	74	LYS
44	HX	81	ILE
45	HY	38	ALA
45	HY	46	LEU
45	HY	59	GLU
45	HY	60	LEU
46	HZ	9	VAL
46	HZ	33	GLU
46	HZ	36	ASP
46	HZ	50	LEU
46	HZ	54	GLN
47	H1	21	VAL
47	H1	22	MET
47	H1	25	MET
47	H1	34	ASP
47	H1	50	LEU
47	H1	61	LYS
47	H1	72	LYS
48	H2	12	SER

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Mol	Chain	Res	Type
48	H2	24	ALA
48	H2	45	ILE
48	H2	57	VAL
49	H3	14	SER
49	H3	20	PHE
49	H3	27	ASN
49	H3	29	ARG
49	H3	39	LYS
49	H3	44	ALA
50	H4	12	ARG
50	H4	18	PHE
50	H4	34	ARG
50	H4	40	HIS
51	H5	27	SER
51	H5	30	ARG
51	H5	47	GLY
51	H5	50	LEU
51	H5	57	ARG
52	H6	3	VAL
52	H6	8	LYS
52	H6	17	VAL
52	H6	27	CYS
52	H6	31	LYS
53	H7	58	PRO
53	H7	68	PRO
53	H7	79	ALA
53	H7	108	GLU
53	H7	160	LYS
53	H7	201	ARG
2	IB	17	PHE
2	IB	20	GLU
2	IB	21	ARG
2	IB	59	GLU
2	IB	134	GLU
2	IB	154	LEU
2	IB	174	VAL
2	IB	177	ALA
2	IB	190	THR
3	IC	61	ALA
3	IC	66	VAL
3	IC	127	ARG
3	IC	134	ILE

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Mol	Chain	Res	Type
3	IC	160	ALA
4	ID	10	ARG
4	ID	119	GLN
4	ID	131	ARG
4	ID	147	ALA
4	ID	157	LEU
4	ID	173	TRP
5	IE	55	VAL
5	IE	107	ARG
6	IF	84	ASN
6	IF	94	GLN
7	IG	25	ALA
7	IG	62	PHE
7	IG	130	GLY
8	IH	2	LEU
8	IH	3	THR
8	IH	127	LEU
9	II	38	GLN
9	II	55	ALA
9	II	60	ASP
9	II	61	ALA
10	IJ	35	SER
10	IJ	72	VAL
10	IJ	84	GLN
11	IK	47	VAL
11	IK	49	GLY
11	IK	98	LEU
11	IK	121	PRO
11	IK	125	PHE
13	IM	67	GLU
13	IM	100	GLY
13	IM	107	ALA
13	IM	113	PRO
14	IN	11	LYS
14	IN	54	PRO
15	IO	69	TYR
15	IO	73	GLU
16	IP	66	PRO
17	IQ	4	LYS
17	IQ	36	ILE
17	IQ	87	LYS
18	IR	23	LYS

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Mol	Chain	Res	Type
18	IR	52	PRO
18	IR	80	PRO
19	IS	30	LEU
19	IS	67	VAL
19	IS	68	GLY
20	IT	65	LYS
24	JD	22	SER
24	JD	28	ARG
24	JD	32	ALA
24	JD	38	PRO
24	JD	39	LYS
24	JD	44	ASN
24	JD	72	LYS
24	JD	79	VAL
24	JD	85	ASP
24	JD	104	TYR
24	JD	117	VAL
24	JD	134	ARG
24	JD	144	ALA
24	JD	172	TYR
24	JD	175	VAL
24	JD	211	ARG
24	JD	221	GLN
24	JD	233	HIS
24	JD	251	GLY
25	JE	3	GLY
25	JE	6	GLY
25	JE	9	ILE
25	JE	39	ALA
25	JE	49	ILE
25	JE	91	VAL
25	JE	113	THR
25	JE	166	THR
26	JF	15	ILE
26	JF	20	PRO
26	JF	38	ARG
26	JF	59	TYR
26	JF	64	THR
26	JF	102	LEU
26	JF	129	LYS
26	JF	130	THR
26	JF	140	ASN

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Mol	Chain	Res	Type
26	JF	156	ASN
26	JF	158	ARG
26	JF	194	GLU
27	JG	21	GLY
27	JG	32	GLU
27	JG	37	ASN
27	JG	48	LYS
27	JG	78	LYS
27	JG	89	VAL
27	JG	104	ILE
27	JG	118	ASN
27	JG	165	GLU
28	JH	67	LEU
28	JH	85	ILE
28	JH	119	ALA
28	JH	122	THR
28	JH	131	ILE
28	JH	150	LYS
28	JH	161	GLY
28	JH	165	VAL
29	JI	14	THR
29	JI	27	ASN
29	JI	38	ALA
29	JI	44	LYS
30	JJ	8	VAL
30	JJ	19	PRO
30	JJ	21	PRO
30	JJ	29	GLN
30	JJ	43	ALA
30	JJ	46	ALA
30	JJ	52	ILE
30	JJ	82	ALA
30	JJ	92	ASN
30	JJ	94	ALA
30	JJ	141	GLY
31	JK	61	ARG
31	JK	72	PRO
31	JK	101	THR
31	JK	103	TYR
31	JK	136	PRO
31	JK	139	ARG
31	JK	140	GLN

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Mol	Chain	Res	Type
31	JK	148	LEU
32	JL	5	GLN
32	JL	22	ILE
32	JL	31	GLY
32	JL	32	LYS
32	JL	63	ALA
32	JL	68	ASP
32	JL	69	VAL
32	JL	81	ILE
32	JL	97	VAL
32	JL	100	ASN
32	JL	105	PRO
32	JL	124	MET
33	JM	35	LYS
33	JM	63	ARG
33	JM	65	PHE
33	JM	79	GLN
33	JM	88	PHE
33	JM	103	ASN
33	JM	107	LYS
34	JN	41	ALA
34	JN	58	HIS
34	JN	80	ALA
34	JN	90	ALA
34	JN	107	VAL
34	JN	108	ALA
35	JO	5	LYS
35	JO	39	THR
35	JO	48	VAL
35	JO	52	ILE
35	JO	60	LEU
35	JO	69	ASP
35	JO	71	HIS
35	JO	100	VAL
35	JO	113	ILE
36	JP	18	ARG
36	JP	33	ARG
36	JP	49	GLN
36	JP	67	THR
36	JP	103	LEU
37	JQ	5	ILE
37	JQ	21	THR

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Mol	Chain	Res	Type
37	JQ	66	PHE
37	JQ	82	PRO
37	JQ	99	VAL
37	JQ	114	ALA
37	JQ	120	ASP
38	JR	31	GLN
38	JR	32	TYR
38	JR	37	GLN
38	JR	73	GLY
38	JR	74	MET
38	JR	75	ASN
38	JR	89	ASP
38	JR	110	VAL
39	JS	16	GLU
39	JS	56	VAL
39	JS	87	ARG
40	JT	48	LYS
40	JT	84	GLU
40	JT	108	PRO
40	JT	110	ALA
41	JU	10	PRO
41	JU	11	VAL
41	JU	27	PHE
41	JU	29	VAL
41	JU	39	LYS
41	JU	55	THR
41	JU	57	ASN
41	JU	59	PRO
41	JU	68	PHE
41	JU	73	ASN
41	JU	80	VAL
41	JU	82	LEU
42	JV	12	ASP
42	JV	66	GLN
42	JV	78	ALA
42	JV	84	VAL
42	JV	86	PRO
42	JV	89	GLY
42	JV	93	ARG
42	JV	108	VAL
43	JW	19	ILE
43	JW	20	ALA

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Mol	Chain	Res	Type
43	JW	21	ALA
43	JW	32	PHE
43	JW	33	ALA
43	JW	35	ASP
43	JW	57	GLU
43	JW	116	VAL
43	JW	126	GLY
43	JW	165	GLU
43	JW	166	LEU
44	JX	32	LYS
44	JX	46	LYS
44	JX	68	VAL
44	JX	71	ASN
44	JX	74	LYS
44	JX	81	ILE
45	JY	38	ALA
45	JY	46	LEU
45	JY	59	GLU
45	JY	60	LEU
46	JZ	9	VAL
46	JZ	33	GLU
46	JZ	36	ASP
46	JZ	50	LEU
46	JZ	54	GLN
47	J1	21	VAL
47	J1	22	MET
47	J1	25	MET
47	J1	34	ASP
47	J1	50	LEU
47	J1	61	LYS
47	J1	72	LYS
48	J2	12	SER
48	J2	24	ALA
48	J2	45	ILE
48	J2	57	VAL
49	J3	14	SER
49	J3	20	PHE
49	J3	27	ASN
49	J3	29	ARG
49	J3	39	LYS
49	J3	44	ALA
50	J4	12	ARG

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Mol	Chain	Res	Type
50	J4	18	PHE
50	J4	34	ARG
50	J4	40	HIS
51	J5	27	SER
51	J5	30	ARG
51	J5	47	GLY
51	J5	50	LEU
51	J5	57	ARG
52	J6	3	VAL
52	J6	8	LYS
52	J6	17	VAL
52	J6	27	CYS
52	J6	31	LYS
53	J7	58	PRO
53	J7	68	PRO
53	J7	79	ALA
53	J7	108	GLU
53	J7	160	LYS
53	J7	201	ARG
2	AB	21	ARG
2	AB	56	ARG
2	AB	159	PRO
3	AC	71	ALA
3	AC	154	SER
4	AD	4	TYR
4	AD	12	CYS
4	AD	29	PRO
4	AD	47	ARG
4	AD	48	ALA
4	AD	163	GLU
5	AE	11	ILE
5	AE	49	PRO
5	AE	116	THR
5	AE	143	ARG
6	AF	34	GLY
7	AG	115	ARG
8	AH	54	ASP
8	AH	67	PRO
8	AH	84	ARG
8	AH	107	LEU
8	AH	125	ARG
8	AH	126	LYS

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Mol	Chain	Res	Type
9	AI	23	ASN
9	AI	46	ALA
9	AI	56	LEU
10	AJ	20	ALA
10	AJ	54	PHE
10	AJ	57	LYS
10	AJ	73	ASP
10	AJ	91	PRO
11	AK	25	TYR
11	AK	39	PRO
11	AK	40	ILE
11	AK	52	GLY
12	AL	9	GLN
12	AL	74	GLY
12	AL	121	GLY
14	AN	17	LYS
14	AN	28	GLY
15	AO	88	ARG
16	AP	48	TRP
17	AQ	66	SER
17	AQ	80	GLY
17	AQ	82	MET
17	AQ	88	TYR
17	AQ	99	SER
18	AR	60	GLY
19	AS	25	LYS
20	AT	9	ASN
20	AT	14	LYS
20	AT	40	ALA
20	AT	74	LYS
20	AT	78	ALA
20	AT	98	PRO
21	Aa	33	LEU
24	BD	12	SER
24	BD	30	GLU
24	BD	49	ILE
24	BD	52	ARG
24	BD	96	HIS
24	BD	98	ALA
24	BD	100	GLY
24	BD	140	ALA
24	BD	149	PRO

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Mol	Chain	Res	Type
24	BD	168	LYS
24	BD	212	SER
24	BD	235	GLY
25	BE	8	LYS
25	BE	18	ASP
25	BE	58	LYS
25	BE	61	LYS
25	BE	68	ALA
25	BE	74	PRO
25	BE	86	PRO
25	BE	125	GLY
25	BE	180	ASN
25	BE	182	ILE
25	BE	196	VAL
25	BE	198	LEU
26	BF	3	GLN
26	BF	71	ASP
26	BF	83	ALA
26	BF	84	PHE
26	BF	91	TYR
26	BF	100	ARG
27	BG	13	ARG
27	BG	38	GLU
27	BG	53	ALA
27	BG	73	SER
27	BG	79	LEU
27	BG	129	ASN
27	BG	175	LEU
27	BG	178	ARG
28	BH	12	PRO
28	BH	19	ALA
28	BH	80	SER
28	BH	105	MET
29	BI	8	PRO
30	BJ	17	ALA
30	BJ	24	GLY
30	BJ	76	TYR
31	BK	37	ASP
31	BK	50	PRO
31	BK	120	SER
31	BK	122	HIS
31	BK	150	VAL

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Mol	Chain	Res	Type
32	BL	16	ALA
32	BL	51	ILE
32	BL	56	LYS
32	BL	93	ARG
32	BL	128	SER
33	BM	22	GLY
33	BM	32	ARG
33	BM	74	VAL
33	BM	113	GLU
34	BN	35	LEU
34	BN	38	MET
34	BN	88	LYS
34	BN	96	SER
34	BN	111	THR
35	BO	20	LEU
35	BO	37	THR
35	BO	50	GLN
35	BO	78	LYS
35	BO	82	GLU
36	BP	9	ARG
36	BP	10	LYS
36	BP	40	ALA
36	BP	45	ASP
36	BP	65	THR
36	BP	95	LYS
37	BQ	26	ASP
37	BQ	74	GLY
37	BQ	102	ALA
38	BR	79	PHE
39	BS	22	VAL
39	BS	37	ALA
39	BS	42	GLY
39	BS	50	ASP
39	BS	55	THR
40	BT	25	PHE
40	BT	33	MET
40	BT	64	ALA
40	BT	89	ARG
40	BT	120	ARG
41	BU	28	TRP
41	BU	36	THR
41	BU	46	PHE

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Mol	Chain	Res	Type
41	BU	90	ALA
41	BU	91	LEU
42	BV	43	ASP
42	BV	71	GLN
42	BV	83	LEU
42	BV	87	GLU
42	BV	91	ALA
42	BV	99	VAL
42	BV	103	LYS
43	BW	6	LYS
43	BW	52	PHE
43	BW	70	GLN
43	BW	86	VAL
43	BW	87	THR
43	BW	128	ARG
43	BW	140	LYS
43	BW	142	ASN
43	BW	147	ILE
43	BW	168	VAL
44	BX	10	SER
44	BX	18	PRO
44	BX	59	LEU
44	BX	66	LYS
44	BX	84	ALA
45	BY	43	VAL
46	BZ	2	LYS
47	B1	41	PRO
47	B1	57	ASP
47	B1	62	ARG
48	B2	13	LYS
48	B2	55	ARG
49	B3	3	LYS
49	B3	6	PRO
49	B3	53	LYS
50	B4	4	THR
50	B4	35	ARG
51	B5	51	ALA
52	B6	11	CYS
52	B6	21	GLY
52	B6	24	LEU
52	B6	25	VAL
52	B6	29	ASN

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Mol	Chain	Res	Type
53	B7	13	LYS
53	B7	21	ASN
53	B7	42	LYS
53	B7	55	PRO
53	B7	96	GLN
53	B7	181	GLU
53	B7	197	GLU
53	B7	208	THR
2	CB	21	ARG
2	CB	56	ARG
2	CB	159	PRO
3	CC	71	ALA
3	CC	154	SER
4	CD	4	TYR
4	CD	12	CYS
4	CD	29	PRO
4	CD	47	ARG
4	CD	48	ALA
4	CD	163	GLU
5	CE	11	ILE
5	CE	49	PRO
5	CE	116	THR
5	CE	143	ARG
6	CF	34	GLY
7	CG	115	ARG
8	CH	54	ASP
8	CH	67	PRO
8	CH	84	ARG
8	CH	107	LEU
8	CH	125	ARG
8	CH	126	LYS
9	CI	23	ASN
9	CI	46	ALA
9	CI	56	LEU
10	CJ	20	ALA
10	CJ	54	PHE
10	CJ	57	LYS
10	CJ	73	ASP
10	CJ	91	PRO
11	CK	25	TYR
11	CK	39	PRO
11	CK	40	ILE

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Mol	Chain	Res	Type
11	CK	52	GLY
12	CL	9	GLN
12	CL	74	GLY
12	CL	121	GLY
14	CN	17	LYS
15	CO	88	ARG
16	CP	48	TRP
17	CQ	66	SER
17	CQ	80	GLY
17	CQ	82	MET
17	CQ	88	TYR
17	CQ	99	SER
18	CR	60	GLY
19	CS	25	LYS
20	CT	9	ASN
20	CT	14	LYS
20	CT	40	ALA
20	CT	74	LYS
20	CT	78	ALA
20	CT	98	PRO
21	Ca	33	LEU
24	DD	12	SER
24	DD	30	GLU
24	DD	49	ILE
24	DD	52	ARG
24	DD	96	HIS
24	DD	98	ALA
24	DD	100	GLY
24	DD	140	ALA
24	DD	149	PRO
24	DD	168	LYS
24	DD	212	SER
24	DD	235	GLY
25	DE	8	LYS
25	DE	18	ASP
25	DE	58	LYS
25	DE	61	LYS
25	DE	68	ALA
25	DE	74	PRO
25	DE	86	PRO
25	DE	125	GLY
25	DE	180	ASN

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Mol	Chain	Res	Type
25	DE	182	ILE
25	DE	196	VAL
25	DE	198	LEU
26	DF	3	GLN
26	DF	71	ASP
26	DF	83	ALA
26	DF	84	PHE
26	DF	91	TYR
26	DF	100	ARG
27	DG	13	ARG
27	DG	38	GLU
27	DG	53	ALA
27	DG	73	SER
27	DG	79	LEU
27	DG	129	ASN
27	DG	175	LEU
27	DG	178	ARG
28	DH	12	PRO
28	DH	19	ALA
28	DH	80	SER
28	DH	105	MET
29	DI	8	PRO
30	DJ	17	ALA
30	DJ	24	GLY
30	DJ	76	TYR
31	DK	37	ASP
31	DK	50	PRO
31	DK	120	SER
31	DK	122	HIS
31	DK	150	VAL
32	DL	16	ALA
32	DL	51	ILE
32	DL	56	LYS
32	DL	93	ARG
32	DL	128	SER
33	DM	22	GLY
33	DM	32	ARG
33	DM	74	VAL
33	DM	113	GLU
34	DN	35	LEU
34	DN	38	MET
34	DN	88	LYS

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Mol	Chain	Res	Type
34	DN	96	SER
34	DN	111	THR
35	DO	8	ARG
35	DO	20	LEU
35	DO	37	THR
35	DO	50	GLN
35	DO	78	LYS
35	DO	82	GLU
36	DP	9	ARG
36	DP	40	ALA
36	DP	45	ASP
36	DP	65	THR
36	DP	95	LYS
37	DQ	26	ASP
37	DQ	65	SER
37	DQ	74	GLY
37	DQ	102	ALA
38	DR	79	PHE
39	DS	22	VAL
39	DS	37	ALA
39	DS	42	GLY
39	DS	50	ASP
39	DS	55	THR
40	DT	33	MET
40	DT	64	ALA
40	DT	89	ARG
40	DT	120	ARG
41	DU	28	TRP
41	DU	36	THR
41	DU	46	PHE
41	DU	90	ALA
41	DU	91	LEU
42	DV	43	ASP
42	DV	71	GLN
42	DV	83	LEU
42	DV	87	GLU
42	DV	91	ALA
42	DV	99	VAL
42	DV	103	LYS
43	DW	6	LYS
43	DW	52	PHE
43	DW	70	GLN

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Mol	Chain	Res	Type
43	DW	87	THR
43	DW	128	ARG
43	DW	140	LYS
43	DW	142	ASN
43	DW	147	ILE
43	DW	168	VAL
44	DX	10	SER
44	DX	18	PRO
44	DX	59	LEU
44	DX	66	LYS
44	DX	80	SER
44	DX	84	ALA
45	DY	43	VAL
46	DZ	2	LYS
47	D1	41	PRO
47	D1	57	ASP
47	D1	62	ARG
48	D2	13	LYS
48	D2	45	ILE
48	D2	55	ARG
49	D3	3	LYS
49	D3	6	PRO
49	D3	52	GLU
49	D3	53	LYS
50	D4	4	THR
50	D4	35	ARG
51	D5	51	ALA
52	D6	11	CYS
52	D6	21	GLY
52	D6	24	LEU
52	D6	29	ASN
53	D7	13	LYS
53	D7	21	ASN
53	D7	42	LYS
53	D7	55	PRO
53	D7	96	GLN
53	D7	181	GLU
53	D7	197	GLU
53	D7	208	THR
2	EB	21	ARG
2	EB	56	ARG
2	EB	159	PRO

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Mol	Chain	Res	Type
3	EC	71	ALA
3	EC	154	SER
4	ED	4	TYR
4	ED	12	CYS
4	ED	29	PRO
4	ED	47	ARG
4	ED	48	ALA
4	ED	163	GLU
5	EE	11	ILE
5	EE	49	PRO
5	EE	116	THR
5	EE	143	ARG
6	EF	34	GLY
7	EG	115	ARG
8	EH	54	ASP
8	EH	67	PRO
8	EH	84	ARG
8	EH	107	LEU
8	EH	125	ARG
8	EH	126	LYS
9	EI	23	ASN
9	EI	46	ALA
9	EI	56	LEU
10	EJ	20	ALA
10	EJ	54	PHE
10	EJ	57	LYS
10	EJ	73	ASP
10	EJ	91	PRO
11	EK	25	TYR
11	EK	39	PRO
11	EK	40	ILE
11	EK	52	GLY
12	EL	9	GLN
12	EL	74	GLY
12	EL	121	GLY
14	EN	17	LYS
14	EN	28	GLY
14	EN	36	PHE
15	EO	88	ARG
16	EP	48	TRP
17	EQ	66	SER
17	EQ	80	GLY

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Mol	Chain	Res	Type
17	EQ	82	MET
17	EQ	88	TYR
17	EQ	99	SER
18	ER	60	GLY
19	ES	25	LYS
20	ET	9	ASN
20	ET	14	LYS
20	ET	40	ALA
20	ET	74	LYS
20	ET	78	ALA
20	ET	98	PRO
21	Ea	33	LEU
24	FD	12	SER
24	FD	30	GLU
24	FD	49	ILE
24	FD	52	ARG
24	FD	96	HIS
24	FD	98	ALA
24	FD	100	GLY
24	FD	140	ALA
24	FD	149	PRO
24	FD	168	LYS
24	FD	211	ARG
24	FD	212	SER
24	FD	235	GLY
25	FE	8	LYS
25	FE	18	ASP
25	FE	58	LYS
25	FE	61	LYS
25	FE	68	ALA
25	FE	74	PRO
25	FE	86	PRO
25	FE	125	GLY
25	FE	180	ASN
25	FE	182	ILE
25	FE	196	VAL
25	FE	198	LEU
26	FF	3	GLN
26	FF	42	THR
26	FF	71	ASP
26	FF	83	ALA
26	FF	84	PHE

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Mol	Chain	Res	Type
26	FF	91	TYR
26	FF	100	ARG
27	FG	13	ARG
27	FG	32	GLU
27	FG	38	GLU
27	FG	53	ALA
27	FG	73	SER
27	FG	79	LEU
27	FG	129	ASN
27	FG	175	LEU
27	FG	178	ARG
28	FH	12	PRO
28	FH	19	ALA
28	FH	80	SER
28	FH	105	MET
29	FI	8	PRO
29	FI	35	ALA
30	FJ	17	ALA
30	FJ	24	GLY
30	FJ	76	TYR
31	FK	37	ASP
31	FK	50	PRO
31	FK	120	SER
31	FK	122	HIS
31	FK	150	VAL
32	FL	16	ALA
32	FL	51	ILE
32	FL	56	LYS
32	FL	93	ARG
32	FL	128	SER
33	FM	22	GLY
33	FM	32	ARG
33	FM	74	VAL
33	FM	113	GLU
34	FN	35	LEU
34	FN	38	MET
34	FN	88	LYS
34	FN	96	SER
34	FN	111	THR
35	FO	8	ARG
35	FO	20	LEU
35	FO	37	THR

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Mol	Chain	Res	Type
35	FO	50	GLN
35	FO	78	LYS
35	FO	82	GLU
36	FP	40	ALA
36	FP	45	ASP
36	FP	65	THR
36	FP	95	LYS
37	FQ	26	ASP
37	FQ	74	GLY
37	FQ	102	ALA
38	FR	79	PHE
39	FS	22	VAL
39	FS	37	ALA
39	FS	42	GLY
39	FS	50	ASP
39	FS	55	THR
40	FT	25	PHE
40	FT	33	MET
40	FT	64	ALA
40	FT	89	ARG
40	FT	120	ARG
41	FU	36	THR
41	FU	46	PHE
41	FU	90	ALA
41	FU	91	LEU
42	FV	43	ASP
42	FV	71	GLN
42	FV	87	GLU
42	FV	91	ALA
42	FV	99	VAL
42	FV	103	LYS
43	FW	6	LYS
43	FW	52	PHE
43	FW	70	GLN
43	FW	86	VAL
43	FW	87	THR
43	FW	128	ARG
43	FW	140	LYS
43	FW	142	ASN
43	FW	147	ILE
43	FW	168	VAL
44	FX	10	SER

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Mol	Chain	Res	Type
44	FX	18	PRO
44	FX	59	LEU
44	FX	66	LYS
44	FX	84	ALA
45	FY	43	VAL
46	FZ	2	LYS
47	F1	21	VAL
47	F1	41	PRO
47	F1	57	ASP
47	F1	62	ARG
48	F2	13	LYS
48	F2	45	ILE
48	F2	55	ARG
49	F3	3	LYS
49	F3	6	PRO
49	F3	53	LYS
50	F4	4	THR
50	F4	35	ARG
51	F5	51	ALA
52	F6	11	CYS
52	F6	21	GLY
52	F6	24	LEU
52	F6	29	ASN
53	F7	13	LYS
53	F7	21	ASN
53	F7	42	LYS
53	F7	55	PRO
53	F7	96	GLN
53	F7	181	GLU
53	F7	197	GLU
53	F7	208	THR
2	GB	21	ARG
2	GB	56	ARG
2	GB	159	PRO
3	GC	71	ALA
3	GC	154	SER
4	GD	4	TYR
4	GD	12	CYS
4	GD	29	PRO
4	GD	47	ARG
4	GD	48	ALA
4	GD	163	GLU

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Mol	Chain	Res	Type
5	GE	11	ILE
5	GE	49	PRO
5	GE	116	THR
5	GE	143	ARG
6	GF	34	GLY
7	GG	115	ARG
8	GH	54	ASP
8	GH	67	PRO
8	GH	84	ARG
8	GH	107	LEU
8	GH	125	ARG
8	GH	126	LYS
9	GI	23	ASN
9	GI	46	ALA
9	GI	56	LEU
10	GJ	20	ALA
10	GJ	54	PHE
10	GJ	57	LYS
10	GJ	73	ASP
10	GJ	91	PRO
11	GK	25	TYR
11	GK	39	PRO
11	GK	40	ILE
11	GK	52	GLY
12	GL	9	GLN
12	GL	74	GLY
12	GL	121	GLY
14	GN	17	LYS
14	GN	28	GLY
15	GO	88	ARG
16	GP	48	TRP
17	GQ	66	SER
17	GQ	80	GLY
17	GQ	82	MET
17	GQ	88	TYR
17	GQ	99	SER
18	GR	60	GLY
19	GS	25	LYS
20	GT	9	ASN
20	GT	14	LYS
20	GT	40	ALA
20	GT	74	LYS

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Mol	Chain	Res	Type
20	GT	78	ALA
20	GT	98	PRO
21	Ga	33	LEU
24	HD	12	SER
24	HD	30	GLU
24	HD	49	ILE
24	HD	52	ARG
24	HD	96	HIS
24	HD	98	ALA
24	HD	100	GLY
24	HD	140	ALA
24	HD	149	PRO
24	HD	168	LYS
24	HD	212	SER
24	HD	235	GLY
25	HE	8	LYS
25	HE	18	ASP
25	HE	61	LYS
25	HE	68	ALA
25	HE	74	PRO
25	HE	86	PRO
25	HE	125	GLY
25	HE	180	ASN
25	HE	182	ILE
25	HE	196	VAL
25	HE	198	LEU
26	HF	3	GLN
26	HF	71	ASP
26	HF	83	ALA
26	HF	84	PHE
26	HF	91	TYR
26	HF	100	ARG
27	HG	13	ARG
27	HG	38	GLU
27	HG	53	ALA
27	HG	73	SER
27	HG	79	LEU
27	HG	129	ASN
27	HG	175	LEU
27	HG	178	ARG
28	HH	12	PRO
28	HH	19	ALA

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Mol	Chain	Res	Type
28	HH	80	SER
28	HH	105	MET
29	HI	8	PRO
29	HI	35	ALA
30	HJ	17	ALA
30	HJ	24	GLY
30	HJ	76	TYR
31	HK	37	ASP
31	HK	50	PRO
31	HK	120	SER
31	HK	122	HIS
31	HK	150	VAL
32	HL	16	ALA
32	HL	51	ILE
32	HL	56	LYS
32	HL	93	ARG
32	HL	128	SER
33	HM	22	GLY
33	HM	74	VAL
33	HM	113	GLU
34	HN	35	LEU
34	HN	38	MET
34	HN	88	LYS
34	HN	96	SER
34	HN	111	THR
35	HO	8	ARG
35	HO	20	LEU
35	HO	37	THR
35	HO	50	GLN
35	HO	78	LYS
35	HO	82	GLU
36	HP	9	ARG
36	HP	40	ALA
36	HP	45	ASP
36	HP	65	THR
36	HP	95	LYS
37	HQ	26	ASP
37	HQ	74	GLY
37	HQ	102	ALA
38	HR	79	PHE
39	HS	22	VAL
39	HS	37	ALA

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Mol	Chain	Res	Type
39	HS	42	GLY
39	HS	50	ASP
39	HS	55	THR
40	HT	25	PHE
40	HT	33	MET
40	HT	64	ALA
40	HT	89	ARG
40	HT	120	ARG
41	HU	28	TRP
41	HU	36	THR
41	HU	46	PHE
41	HU	90	ALA
41	HU	91	LEU
42	HV	43	ASP
42	HV	71	GLN
42	HV	83	LEU
42	HV	87	GLU
42	HV	91	ALA
42	HV	99	VAL
42	HV	103	LYS
43	HW	6	LYS
43	HW	52	PHE
43	HW	70	GLN
43	HW	87	THR
43	HW	118	HIS
43	HW	128	ARG
43	HW	140	LYS
43	HW	142	ASN
43	HW	147	ILE
43	HW	168	VAL
44	HX	10	SER
44	HX	18	PRO
44	HX	59	LEU
44	HX	66	LYS
44	HX	71	ASN
44	HX	80	SER
44	HX	84	ALA
45	HY	43	VAL
46	HZ	2	LYS
47	H1	41	PRO
47	H1	57	ASP
47	H1	62	ARG

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Mol	Chain	Res	Type
48	H2	13	LYS
48	H2	55	ARG
49	H3	3	LYS
49	H3	6	PRO
49	H3	53	LYS
50	H4	4	THR
50	H4	35	ARG
51	H5	51	ALA
52	H6	11	CYS
52	H6	21	GLY
52	H6	24	LEU
52	H6	25	VAL
52	H6	29	ASN
53	H7	13	LYS
53	H7	21	ASN
53	H7	42	LYS
53	H7	55	PRO
53	H7	96	GLN
53	H7	181	GLU
53	H7	197	GLU
53	H7	208	THR
2	IB	56	ARG
2	IB	159	PRO
3	IC	71	ALA
3	IC	154	SER
4	ID	4	TYR
4	ID	12	CYS
4	ID	29	PRO
4	ID	47	ARG
4	ID	48	ALA
4	ID	94	LEU
4	ID	163	GLU
5	IE	11	ILE
5	IE	49	PRO
5	IE	116	THR
5	IE	143	ARG
6	IF	34	GLY
7	IG	115	ARG
8	IH	54	ASP
8	IH	67	PRO
8	IH	84	ARG
8	IH	107	LEU

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Mol	Chain	Res	Type
8	IH	125	ARG
8	IH	126	LYS
9	II	23	ASN
9	II	46	ALA
9	II	56	LEU
10	IJ	20	ALA
10	IJ	54	PHE
10	IJ	57	LYS
10	IJ	73	ASP
10	IJ	91	PRO
11	IK	25	TYR
11	IK	39	PRO
11	IK	40	ILE
11	IK	52	GLY
12	IL	9	GLN
12	IL	74	GLY
12	IL	121	GLY
14	IN	17	LYS
14	IN	28	GLY
15	IO	88	ARG
16	IP	48	TRP
17	IQ	66	SER
17	IQ	80	GLY
17	IQ	82	MET
17	IQ	88	TYR
17	IQ	99	SER
18	IR	60	GLY
19	IS	25	LYS
20	IT	9	ASN
20	IT	14	LYS
20	IT	40	ALA
20	IT	74	LYS
20	IT	78	ALA
20	IT	98	PRO
21	Ia	33	LEU
24	JD	30	GLU
24	JD	49	ILE
24	JD	52	ARG
24	JD	96	HIS
24	JD	98	ALA
24	JD	100	GLY
24	JD	140	ALA

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Mol	Chain	Res	Type
24	JD	149	PRO
24	JD	168	LYS
24	JD	212	SER
24	JD	235	GLY
25	JE	8	LYS
25	JE	18	ASP
25	JE	58	LYS
25	JE	61	LYS
25	JE	68	ALA
25	JE	74	PRO
25	JE	86	PRO
25	JE	125	GLY
25	JE	180	ASN
25	JE	182	ILE
25	JE	196	VAL
25	JE	198	LEU
26	JF	3	GLN
26	JF	71	ASP
26	JF	83	ALA
26	JF	84	PHE
26	JF	91	TYR
26	JF	100	ARG
27	JG	13	ARG
27	JG	38	GLU
27	JG	53	ALA
27	JG	73	SER
27	JG	79	LEU
27	JG	129	ASN
27	JG	175	LEU
27	JG	178	ARG
28	JH	12	PRO
28	JH	19	ALA
28	JH	80	SER
28	JH	105	MET
29	JI	8	PRO
29	JI	35	ALA
30	JJ	17	ALA
30	JJ	24	GLY
30	JJ	76	TYR
31	JK	37	ASP
31	JK	50	PRO
31	JK	120	SER

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Mol	Chain	Res	Type
31	JK	122	HIS
31	JK	150	VAL
32	JL	16	ALA
32	JL	51	ILE
32	JL	56	LYS
32	JL	93	ARG
32	JL	128	SER
33	JM	22	GLY
33	JM	32	ARG
33	JM	74	VAL
33	JM	113	GLU
34	JN	35	LEU
34	JN	38	MET
34	JN	88	LYS
34	JN	96	SER
34	JN	111	THR
35	JO	20	LEU
35	JO	37	THR
35	JO	50	GLN
35	JO	78	LYS
35	JO	82	GLU
36	JP	9	ARG
36	JP	10	LYS
36	JP	40	ALA
36	JP	45	ASP
36	JP	65	THR
36	JP	95	LYS
37	JQ	26	ASP
37	JQ	65	SER
37	JQ	74	GLY
37	JQ	102	ALA
38	JR	79	PHE
39	JS	22	VAL
39	JS	37	ALA
39	JS	42	GLY
39	JS	50	ASP
39	JS	55	THR
40	JT	25	PHE
40	JT	33	MET
40	JT	64	ALA
40	JT	89	ARG
40	JT	120	ARG

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Mol	Chain	Res	Type
41	JU	28	TRP
41	JU	36	THR
41	JU	46	PHE
41	JU	90	ALA
41	JU	91	LEU
42	JV	43	ASP
42	JV	71	GLN
42	JV	83	LEU
42	JV	87	GLU
42	JV	91	ALA
42	JV	99	VAL
42	JV	103	LYS
43	JW	6	LYS
43	JW	42	ALA
43	JW	52	PHE
43	JW	70	GLN
43	JW	86	VAL
43	JW	87	THR
43	JW	128	ARG
43	JW	140	LYS
43	JW	142	ASN
43	JW	147	ILE
43	JW	168	VAL
44	JX	10	SER
44	JX	18	PRO
44	JX	59	LEU
44	JX	66	LYS
44	JX	80	SER
44	JX	84	ALA
45	JY	43	VAL
46	JZ	2	LYS
47	J1	41	PRO
47	J1	57	ASP
47	J1	62	ARG
48	J2	13	LYS
48	J2	55	ARG
49	J3	3	LYS
49	J3	6	PRO
49	J3	53	LYS
50	J4	4	THR
50	J4	35	ARG
51	J5	51	ALA

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Mol	Chain	Res	Type
52	J6	11	CYS
52	J6	21	GLY
52	J6	24	LEU
52	J6	25	VAL
52	J6	29	ASN
53	J7	13	LYS
53	J7	21	ASN
53	J7	42	LYS
53	J7	55	PRO
53	J7	96	GLN
53	J7	181	GLU
53	J7	197	GLU
53	J7	208	THR
2	AB	23	ARG
2	AB	58	ILE
2	AB	101	MET
2	AB	184	VAL
2	AB	230	VAL
2	AB	232	PRO
3	AC	168	ALA
3	AC	181	ASN
4	AD	94	LEU
4	AD	202	LEU
5	AE	15	ARG
5	AE	20	GLN
5	AE	62	ALA
6	AF	73	ASN
7	AG	34	GLY
7	AG	81	GLY
8	AH	20	TYR
8	AH	22	GLU
8	AH	33	GLU
8	AH	55	GLY
8	AH	73	ASP
9	AI	58	ARG
9	AI	106	ALA
10	AJ	12	ASP
10	AJ	61	GLU
10	AJ	80	LYS
10	AJ	89	ASP
10	AJ	99	LYS
11	AK	35	PRO

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Mol	Chain	Res	Type
11	AK	72	ALA
11	AK	127	LYS
12	AL	28	LYS
13	AM	48	LEU
14	AN	27	CYS
14	AN	36	PHE
15	AO	19	PRO
17	AQ	14	LYS
18	AR	25	THR
19	AS	38	SER
20	AT	50	GLU
20	AT	97	ALA
24	BD	11	PRO
24	BD	20	ASP
24	BD	26	LYS
24	BD	40	THR
24	BD	76	ASN
24	BD	103	ARG
24	BD	195	ALA
24	BD	201	HIS
24	BD	207	GLY
24	BD	224	SER
24	BD	254	THR
25	BE	16	LYS
25	BE	160	MET
25	BE	188	ILE
26	BF	42	THR
26	BF	45	THR
26	BF	95	LEU
27	BG	39	GLY
27	BG	121	ALA
28	BH	25	LYS
28	BH	31	GLY
28	BH	77	LYS
28	BH	151	VAL
29	BI	37	SER
30	BJ	93	LYS
30	BJ	122	ALA
31	BK	64	GLY
31	BK	126	VAL
32	BL	27	SER
32	BL	40	GLY

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Mol	Chain	Res	Type
32	BL	42	LYS
32	BL	44	TYR
32	BL	61	ARG
32	BL	62	GLY
32	BL	78	SER
33	BM	10	PRO
33	BM	11	GLY
33	BM	29	THR
33	BM	54	SER
33	BM	78	SER
33	BM	111	SER
33	BM	114	ILE
35	BO	8	ARG
36	BP	38	ILE
36	BP	102	ALA
36	BP	112	LEU
37	BQ	30	GLY
37	BQ	43	ASN
37	BQ	57	ILE
37	BQ	63	ARG
37	BQ	73	PHE
38	BR	5	LYS
38	BR	76	TYR
38	BR	90	LEU
39	BS	18	ASP
39	BS	34	GLU
39	BS	51	ALA
40	BT	8	PHE
40	BT	18	VAL
40	BT	30	TYR
40	BT	34	SER
40	BT	68	VAL
40	BT	106	LEU
40	BT	111	ARG
40	BT	125	THR
41	BU	18	SER
41	BU	58	VAL
41	BU	81	ARG
42	BV	36	VAL
42	BV	62	MET
42	BV	63	THR
42	BV	74	LEU

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Mol	Chain	Res	Type
42	BV	90	LYS
43	BW	18	MET
43	BW	42	ALA
43	BW	45	GLN
43	BW	68	ALA
43	BW	118	HIS
43	BW	129	ARG
44	BX	7	VAL
44	BX	23	VAL
44	BX	44	LYS
44	BX	49	GLN
44	BX	62	LEU
45	BY	3	PRO
47	B1	10	VAL
47	B1	14	ILE
47	B1	24	THR
47	B1	56	VAL
48	B2	21	SER
48	B2	27	ALA
49	B3	28	ARG
49	B3	34	LYS
49	B3	36	GLU
49	B3	40	TYR
49	B3	50	PHE
49	B3	52	GLU
50	B4	15	THR
51	B5	24	ALA
52	B6	10	MET
2	CB	23	ARG
2	CB	58	ILE
2	CB	101	MET
2	CB	184	VAL
2	CB	230	VAL
2	CB	232	PRO
3	CC	168	ALA
3	CC	181	ASN
4	CD	94	LEU
4	CD	202	LEU
5	CE	15	ARG
5	CE	20	GLN
5	CE	62	ALA
6	CF	73	ASN

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Mol	Chain	Res	Type
7	CG	81	GLY
8	CH	20	TYR
8	CH	22	GLU
8	CH	33	GLU
8	CH	55	GLY
8	CH	73	ASP
8	CH	95	VAL
9	CI	58	ARG
9	CI	106	ALA
10	CJ	12	ASP
10	CJ	61	GLU
10	CJ	80	LYS
10	CJ	89	ASP
10	CJ	99	LYS
11	CK	35	PRO
11	CK	72	ALA
11	CK	127	LYS
12	CL	28	LYS
13	CM	48	LEU
14	CN	27	CYS
14	CN	36	PHE
15	CO	5	LYS
15	CO	19	PRO
17	CQ	14	LYS
18	CR	25	THR
19	CS	38	SER
20	CT	50	GLU
20	CT	97	ALA
24	DD	11	PRO
24	DD	20	ASP
24	DD	26	LYS
24	DD	40	THR
24	DD	76	ASN
24	DD	103	ARG
24	DD	195	ALA
24	DD	201	HIS
24	DD	207	GLY
24	DD	224	SER
24	DD	254	THR
25	DE	16	LYS
25	DE	160	MET
25	DE	188	ILE

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Mol	Chain	Res	Type
26	DF	42	THR
26	DF	45	THR
26	DF	95	LEU
26	DF	152	THR
27	DG	39	GLY
27	DG	121	ALA
28	DH	25	LYS
28	DH	31	GLY
28	DH	77	LYS
28	DH	151	VAL
29	DI	11	LEU
29	DI	37	SER
30	DJ	93	LYS
30	DJ	122	ALA
31	DK	64	GLY
31	DK	79	PHE
31	DK	126	VAL
32	DL	27	SER
32	DL	40	GLY
32	DL	42	LYS
32	DL	44	TYR
32	DL	61	ARG
32	DL	62	GLY
32	DL	78	SER
33	DM	10	PRO
33	DM	11	GLY
33	DM	29	THR
33	DM	54	SER
33	DM	78	SER
33	DM	111	SER
33	DM	114	ILE
36	DP	10	LYS
36	DP	38	ILE
36	DP	87	VAL
36	DP	102	ALA
36	DP	112	LEU
37	DQ	30	GLY
37	DQ	43	ASN
37	DQ	57	ILE
37	DQ	63	ARG
37	DQ	68	VAL
37	DQ	73	PHE

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Mol	Chain	Res	Type
38	DR	5	LYS
38	DR	76	TYR
38	DR	90	LEU
39	DS	18	ASP
39	DS	51	ALA
40	DT	8	PHE
40	DT	18	VAL
40	DT	30	TYR
40	DT	34	SER
40	DT	68	VAL
40	DT	106	LEU
40	DT	111	ARG
40	DT	125	THR
41	DU	18	SER
41	DU	58	VAL
41	DU	81	ARG
42	DV	36	VAL
42	DV	62	MET
42	DV	63	THR
42	DV	74	LEU
42	DV	90	LYS
43	DW	18	MET
43	DW	42	ALA
43	DW	45	GLN
43	DW	68	ALA
43	DW	86	VAL
43	DW	118	HIS
43	DW	129	ARG
44	DX	7	VAL
44	DX	23	VAL
44	DX	44	LYS
44	DX	49	GLN
44	DX	62	LEU
47	D1	10	VAL
47	D1	14	ILE
47	D1	24	THR
47	D1	56	VAL
48	D2	21	SER
48	D2	27	ALA
49	D3	28	ARG
49	D3	34	LYS
49	D3	36	GLU

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Mol	Chain	Res	Type
49	D3	40	TYR
49	D3	50	PHE
50	D4	15	THR
51	D5	24	ALA
52	D6	10	MET
2	EB	23	ARG
2	EB	58	ILE
2	EB	101	MET
2	EB	184	VAL
2	EB	230	VAL
2	EB	232	PRO
3	EC	168	ALA
3	EC	181	ASN
4	ED	94	LEU
4	ED	202	LEU
5	EE	15	ARG
5	EE	20	GLN
5	EE	62	ALA
6	EF	73	ASN
7	EG	34	GLY
7	EG	81	GLY
8	EH	20	TYR
8	EH	22	GLU
8	EH	33	GLU
8	EH	55	GLY
8	EH	73	ASP
9	EI	58	ARG
9	EI	106	ALA
10	EJ	12	ASP
10	EJ	61	GLU
10	EJ	80	LYS
10	EJ	89	ASP
10	EJ	99	LYS
11	EK	35	PRO
11	EK	72	ALA
11	EK	127	LYS
12	EL	28	LYS
13	EM	48	LEU
14	EN	27	CYS
15	EO	19	PRO
17	EQ	14	LYS
18	ER	25	THR

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Mol	Chain	Res	Type
19	ES	38	SER
20	ET	50	GLU
20	ET	97	ALA
24	FD	11	PRO
24	FD	20	ASP
24	FD	26	LYS
24	FD	40	THR
24	FD	76	ASN
24	FD	103	ARG
24	FD	195	ALA
24	FD	207	GLY
24	FD	224	SER
24	FD	254	THR
25	FE	16	LYS
25	FE	160	MET
25	FE	188	ILE
26	FF	45	THR
26	FF	95	LEU
26	FF	152	THR
27	FG	39	GLY
27	FG	63	GLN
27	FG	121	ALA
28	FH	25	LYS
28	FH	31	GLY
28	FH	77	LYS
28	FH	151	VAL
29	FI	11	LEU
29	FI	37	SER
30	FJ	93	LYS
30	FJ	122	ALA
31	FK	64	GLY
31	FK	126	VAL
32	FL	27	SER
32	FL	40	GLY
32	FL	42	LYS
32	FL	44	TYR
32	FL	61	ARG
32	FL	62	GLY
32	FL	78	SER
33	FM	10	PRO
33	FM	11	GLY
33	FM	29	THR

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Mol	Chain	Res	Type
33	FM	54	SER
33	FM	78	SER
33	FM	111	SER
33	FM	114	ILE
36	FP	10	LYS
36	FP	102	ALA
36	FP	112	LEU
37	FQ	30	GLY
37	FQ	43	ASN
37	FQ	57	ILE
37	FQ	63	ARG
37	FQ	73	PHE
38	FR	5	LYS
38	FR	76	TYR
38	FR	77	SER
38	FR	90	LEU
39	FS	18	ASP
39	FS	34	GLU
39	FS	51	ALA
40	FT	8	PHE
40	FT	18	VAL
40	FT	30	TYR
40	FT	34	SER
40	FT	68	VAL
40	FT	106	LEU
40	FT	111	ARG
40	FT	125	THR
41	FU	18	SER
41	FU	28	TRP
41	FU	58	VAL
41	FU	81	ARG
42	FV	36	VAL
42	FV	62	MET
42	FV	63	THR
42	FV	74	LEU
42	FV	83	LEU
42	FV	90	LYS
43	FW	18	MET
43	FW	42	ALA
43	FW	45	GLN
43	FW	68	ALA
43	FW	118	HIS

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Mol	Chain	Res	Type
43	FW	129	ARG
44	FX	7	VAL
44	FX	23	VAL
44	FX	44	LYS
44	FX	49	GLN
44	FX	62	LEU
47	F1	10	VAL
47	F1	14	ILE
47	F1	24	THR
47	F1	56	VAL
48	F2	21	SER
48	F2	27	ALA
49	F3	28	ARG
49	F3	34	LYS
49	F3	36	GLU
49	F3	40	TYR
49	F3	50	PHE
49	F3	52	GLU
50	F4	15	THR
51	F5	24	ALA
52	F6	10	MET
2	GB	23	ARG
2	GB	58	ILE
2	GB	101	MET
2	GB	184	VAL
2	GB	230	VAL
2	GB	232	PRO
3	GC	168	ALA
3	GC	181	ASN
4	GD	94	LEU
4	GD	202	LEU
5	GE	15	ARG
5	GE	20	GLN
5	GE	62	ALA
6	GF	73	ASN
7	GG	81	GLY
8	GH	20	TYR
8	GH	22	GLU
8	GH	33	GLU
8	GH	55	GLY
8	GH	73	ASP
9	GI	58	ARG

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Mol	Chain	Res	Type
9	GI	106	ALA
10	GJ	12	ASP
10	GJ	61	GLU
10	GJ	80	LYS
10	GJ	89	ASP
10	GJ	99	LYS
11	GK	35	PRO
11	GK	72	ALA
11	GK	127	LYS
13	GM	48	LEU
14	GN	27	CYS
14	GN	36	PHE
15	GO	19	PRO
17	GQ	14	LYS
18	GR	25	THR
19	GS	38	SER
20	GT	50	GLU
20	GT	97	ALA
24	HD	11	PRO
24	HD	20	ASP
24	HD	26	LYS
24	HD	40	THR
24	HD	76	ASN
24	HD	103	ARG
24	HD	195	ALA
24	HD	201	HIS
24	HD	207	GLY
24	HD	224	SER
24	HD	254	THR
25	HE	16	LYS
25	HE	160	MET
25	HE	188	ILE
26	HF	42	THR
26	HF	45	THR
26	HF	95	LEU
26	HF	152	THR
27	HG	39	GLY
27	HG	121	ALA
28	HH	25	LYS
28	HH	31	GLY
28	HH	77	LYS
28	HH	151	VAL

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Mol	Chain	Res	Type
29	HI	11	LEU
29	HI	37	SER
30	HJ	93	LYS
30	HJ	122	ALA
31	HK	64	GLY
31	HK	79	PHE
31	HK	126	VAL
32	HL	27	SER
32	HL	40	GLY
32	HL	42	LYS
32	HL	44	TYR
32	HL	61	ARG
32	HL	62	GLY
32	HL	78	SER
33	HM	10	PRO
33	HM	11	GLY
33	HM	29	THR
33	HM	32	ARG
33	HM	54	SER
33	HM	78	SER
33	HM	111	SER
33	HM	114	ILE
36	HP	10	LYS
36	HP	38	ILE
36	HP	87	VAL
36	HP	102	ALA
36	HP	112	LEU
37	HQ	30	GLY
37	HQ	43	ASN
37	HQ	57	ILE
37	HQ	63	ARG
37	HQ	68	VAL
37	HQ	73	PHE
38	HR	5	LYS
38	HR	76	TYR
38	HR	90	LEU
39	HS	18	ASP
39	HS	51	ALA
40	HT	8	PHE
40	HT	18	VAL
40	HT	30	TYR
40	HT	34	SER

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Mol	Chain	Res	Type
40	HT	68	VAL
40	HT	106	LEU
40	HT	111	ARG
40	HT	125	THR
41	HU	18	SER
41	HU	58	VAL
41	HU	81	ARG
42	HV	36	VAL
42	HV	62	MET
42	HV	63	THR
42	HV	74	LEU
42	HV	90	LYS
43	HW	18	MET
43	HW	42	ALA
43	HW	45	GLN
43	HW	68	ALA
43	HW	86	VAL
43	HW	129	ARG
44	HX	7	VAL
44	HX	23	VAL
44	HX	44	LYS
44	HX	49	GLN
44	HX	62	LEU
47	H1	10	VAL
47	H1	14	ILE
47	H1	24	THR
47	H1	56	VAL
48	H2	21	SER
48	H2	27	ALA
49	H3	28	ARG
49	H3	34	LYS
49	H3	36	GLU
49	H3	40	TYR
49	H3	50	PHE
49	H3	52	GLU
50	H4	15	THR
51	H5	24	ALA
52	H6	10	MET
2	IB	58	ILE
2	IB	101	MET
2	IB	184	VAL
2	IB	230	VAL

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Mol	Chain	Res	Type
2	IB	232	PRO
3	IC	168	ALA
3	IC	181	ASN
4	ID	202	LEU
5	IE	15	ARG
5	IE	20	GLN
5	IE	62	ALA
6	IF	73	ASN
7	IG	34	GLY
7	IG	81	GLY
8	IH	20	TYR
8	IH	22	GLU
8	IH	33	GLU
8	IH	55	GLY
8	IH	73	ASP
9	II	58	ARG
9	II	106	ALA
10	IJ	12	ASP
10	IJ	61	GLU
10	IJ	80	LYS
10	IJ	89	ASP
10	IJ	99	LYS
11	IK	35	PRO
11	IK	72	ALA
11	IK	127	LYS
12	IL	28	LYS
13	IM	48	LEU
14	IN	27	CYS
14	IN	36	PHE
15	IO	19	PRO
17	IQ	14	LYS
18	IR	25	THR
19	IS	38	SER
20	IT	50	GLU
20	IT	97	ALA
24	JD	11	PRO
24	JD	12	SER
24	JD	20	ASP
24	JD	26	LYS
24	JD	40	THR
24	JD	76	ASN
24	JD	103	ARG

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Mol	Chain	Res	Type
24	JD	195	ALA
24	JD	201	HIS
24	JD	207	GLY
24	JD	224	SER
24	JD	254	THR
25	JE	16	LYS
25	JE	160	MET
25	JE	188	ILE
26	JF	42	THR
26	JF	45	THR
26	JF	95	LEU
27	JG	39	GLY
27	JG	121	ALA
28	JH	25	LYS
28	JH	31	GLY
28	JH	77	LYS
28	JH	151	VAL
29	JI	11	LEU
29	JI	37	SER
30	JJ	93	LYS
30	JJ	122	ALA
31	JK	64	GLY
31	JK	79	PHE
31	JK	126	VAL
32	JL	27	SER
32	JL	40	GLY
32	JL	42	LYS
32	JL	44	TYR
32	JL	61	ARG
32	JL	62	GLY
32	JL	78	SER
33	JM	10	PRO
33	JM	11	GLY
33	JM	29	THR
33	JM	54	SER
33	JM	78	SER
33	JM	111	SER
33	JM	114	ILE
35	JO	8	ARG
36	JP	38	ILE
36	JP	102	ALA
36	JP	112	LEU

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Mol	Chain	Res	Type
37	JQ	30	GLY
37	JQ	43	ASN
37	JQ	57	ILE
37	JQ	63	ARG
37	JQ	73	PHE
38	JR	5	LYS
38	JR	76	TYR
38	JR	77	SER
38	JR	90	LEU
39	JS	18	ASP
39	JS	34	GLU
39	JS	51	ALA
40	JT	8	PHE
40	JT	18	VAL
40	JT	30	TYR
40	JT	34	SER
40	JT	68	VAL
40	JT	106	LEU
40	JT	111	ARG
40	JT	125	THR
41	JU	18	SER
41	JU	45	ALA
41	JU	58	VAL
41	JU	81	ARG
42	JV	36	VAL
42	JV	62	MET
42	JV	63	THR
42	JV	74	LEU
42	JV	90	LYS
43	JW	18	MET
43	JW	45	GLN
43	JW	68	ALA
43	JW	118	HIS
43	JW	129	ARG
44	JX	7	VAL
44	JX	23	VAL
44	JX	44	LYS
44	JX	49	GLN
44	JX	62	LEU
47	J1	10	VAL
47	J1	14	ILE
47	J1	24	THR

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Mol	Chain	Res	Type
47	J1	56	VAL
48	J2	21	SER
48	J2	27	ALA
49	J3	28	ARG
49	J3	34	LYS
49	J3	36	GLU
49	J3	40	TYR
49	J3	50	PHE
49	J3	52	GLU
50	J4	15	THR
51	J5	24	ALA
52	J6	10	MET
2	AB	26	PRO
2	AB	202	PRO
3	AC	141	VAL
3	AC	153	VAL
5	AE	38	GLN
7	AG	14	PRO
7	AG	136	LYS
8	AH	95	VAL
10	AJ	32	ALA
10	AJ	43	ARG
13	AM	112	GLY
13	AM	123	ALA
15	AO	5	LYS
17	AQ	47	PRO
19	AS	77	THR
20	AT	79	ARG
20	AT	95	ALA
24	BD	15	GLN
24	BD	51	SER
24	BD	153	ALA
24	BD	181	GLU
24	BD	202	LYS
25	BE	21	ILE
25	BE	29	GLY
25	BE	77	ILE
25	BE	186	GLY
25	BE	201	ALA
25	BE	204	ALA
26	BF	36	ALA
26	BF	47	THR

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Mol	Chain	Res	Type
26	BF	109	ALA
26	BF	148	VAL
26	BF	152	THR
26	BF	169	VAL
26	BF	171	PRO
27	BG	63	GLN
27	BG	70	ALA
27	BG	141	ILE
27	BG	171	GLN
28	BH	21	ASP
28	BH	30	LYS
28	BH	152	ARG
28	BH	166	GLY
29	BI	11	LEU
29	BI	34	LEU
30	BJ	53	ILE
30	BJ	68	ILE
30	BJ	138	VAL
31	BK	36	ASN
31	BK	79	PHE
31	BK	83	ILE
31	BK	127	ILE
31	BK	137	LYS
32	BL	6	SER
32	BL	57	ASP
32	BL	109	ARG
32	BL	127	VAL
33	BM	38	LYS
33	BM	46	GLY
33	BM	92	THR
34	BN	17	ARG
34	BN	76	THR
34	BN	82	THR
34	BN	120	ARG
35	BO	112	LEU
36	BP	31	VAL
36	BP	87	VAL
37	BQ	44	ARG
37	BQ	68	VAL
38	BR	77	SER
38	BR	94	VAL
39	BS	4	ILE

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Mol	Chain	Res	Type
39	BS	7	THR
39	BS	93	ILE
39	BS	95	ILE
40	BT	90	LEU
40	BT	92	VAL
41	BU	45	ALA
42	BV	11	ASN
42	BV	76	LEU
43	BW	54	ILE
43	BW	63	PRO
43	BW	78	PRO
43	BW	93	GLU
43	BW	98	VAL
43	BW	104	SER
43	BW	133	GLU
43	BW	136	VAL
43	BW	143	ILE
44	BX	8	GLY
44	BX	33	ALA
45	BY	32	ALA
47	B1	30	GLU
49	B3	15	SER
51	B5	5	LYS
51	B5	31	HIS
51	B5	39	ASP
53	B7	174	MSE
2	CB	26	PRO
2	CB	202	PRO
3	CC	141	VAL
3	CC	153	VAL
4	CD	56	VAL
5	CE	38	GLN
7	CG	14	PRO
7	CG	34	GLY
7	CG	136	LYS
10	CJ	32	ALA
10	CJ	43	ARG
13	CM	112	GLY
13	CM	123	ALA
17	CQ	47	PRO
19	CS	77	THR
20	CT	79	ARG

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Mol	Chain	Res	Type
20	CT	95	ALA
24	DD	15	GLN
24	DD	51	SER
24	DD	153	ALA
24	DD	166	GLN
24	DD	181	GLU
24	DD	268	ARG
25	DE	4	ILE
25	DE	21	ILE
25	DE	29	GLY
25	DE	77	ILE
25	DE	186	GLY
25	DE	201	ALA
25	DE	204	ALA
26	DF	36	ALA
26	DF	47	THR
26	DF	109	ALA
26	DF	148	VAL
26	DF	169	VAL
26	DF	171	PRO
27	DG	63	GLN
27	DG	70	ALA
27	DG	141	ILE
27	DG	171	GLN
28	DH	21	ASP
28	DH	30	LYS
28	DH	152	ARG
28	DH	166	GLY
29	DI	34	LEU
30	DJ	53	ILE
30	DJ	68	ILE
30	DJ	138	VAL
31	DK	36	ASN
31	DK	83	ILE
31	DK	127	ILE
31	DK	137	LYS
32	DL	6	SER
32	DL	57	ASP
32	DL	109	ARG
32	DL	127	VAL
33	DM	38	LYS
33	DM	46	GLY

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Mol	Chain	Res	Type
33	DM	92	THR
34	DN	17	ARG
34	DN	82	THR
34	DN	120	ARG
35	DO	112	LEU
36	DP	31	VAL
37	DQ	44	ARG
38	DR	77	SER
38	DR	94	VAL
39	DS	4	ILE
39	DS	7	THR
39	DS	34	GLU
39	DS	93	ILE
39	DS	95	ILE
40	DT	90	LEU
40	DT	92	VAL
41	DU	45	ALA
42	DV	11	ASN
42	DV	76	LEU
43	DW	54	ILE
43	DW	63	PRO
43	DW	78	PRO
43	DW	93	GLU
43	DW	98	VAL
43	DW	104	SER
43	DW	133	GLU
43	DW	136	VAL
43	DW	143	ILE
44	DX	8	GLY
44	DX	33	ALA
45	DY	3	PRO
45	DY	32	ALA
47	D1	30	GLU
49	D3	15	SER
51	D5	5	LYS
51	D5	39	ASP
53	D7	15	ALA
53	D7	174	MSE
53	D7	210	GLY
2	EB	26	PRO
2	EB	202	PRO
3	EC	141	VAL

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Mol	Chain	Res	Type
3	EC	153	VAL
4	ED	56	VAL
5	EE	38	GLN
7	EG	14	PRO
7	EG	136	LYS
8	EH	95	VAL
10	EJ	32	ALA
10	EJ	43	ARG
13	EM	112	GLY
13	EM	123	ALA
15	EO	5	LYS
17	EQ	47	PRO
19	ES	77	THR
20	ET	79	ARG
20	ET	95	ALA
24	FD	15	GLN
24	FD	51	SER
24	FD	153	ALA
24	FD	166	GLN
24	FD	181	GLU
24	FD	201	HIS
24	FD	202	LYS
25	FE	4	ILE
25	FE	21	ILE
25	FE	29	GLY
25	FE	77	ILE
25	FE	186	GLY
25	FE	201	ALA
25	FE	204	ALA
26	FF	36	ALA
26	FF	47	THR
26	FF	109	ALA
26	FF	148	VAL
26	FF	169	VAL
26	FF	171	PRO
27	FG	70	ALA
27	FG	141	ILE
27	FG	171	GLN
28	FH	21	ASP
28	FH	30	LYS
28	FH	152	ARG
28	FH	166	GLY

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Mol	Chain	Res	Type
29	FI	34	LEU
30	FJ	53	ILE
30	FJ	68	ILE
30	FJ	138	VAL
31	FK	36	ASN
31	FK	79	PHE
31	FK	83	ILE
31	FK	127	ILE
31	FK	137	LYS
32	FL	6	SER
32	FL	57	ASP
32	FL	109	ARG
32	FL	127	VAL
33	FM	38	LYS
33	FM	92	THR
34	FN	17	ARG
34	FN	82	THR
34	FN	120	ARG
35	FO	112	LEU
36	FP	31	VAL
36	FP	38	ILE
36	FP	87	VAL
37	FQ	44	ARG
37	FQ	68	VAL
38	FR	94	VAL
39	FS	4	ILE
39	FS	7	THR
39	FS	93	ILE
39	FS	95	ILE
40	FT	90	LEU
40	FT	92	VAL
41	FU	45	ALA
42	FV	11	ASN
42	FV	76	LEU
43	FW	54	ILE
43	FW	63	PRO
43	FW	78	PRO
43	FW	93	GLU
43	FW	98	VAL
43	FW	104	SER
43	FW	133	GLU
43	FW	136	VAL

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Mol	Chain	Res	Type
43	FW	143	ILE
44	FX	8	GLY
44	FX	33	ALA
45	FY	3	PRO
45	FY	32	ALA
47	F1	12	CYS
47	F1	30	GLU
49	F3	15	SER
51	F5	5	LYS
51	F5	31	HIS
51	F5	39	ASP
53	F7	17	SER
53	F7	174	MSE
53	F7	210	GLY
2	GB	26	PRO
2	GB	202	PRO
3	GC	141	VAL
3	GC	153	VAL
4	GD	56	VAL
5	GE	38	GLN
7	GG	14	PRO
7	GG	34	GLY
7	GG	136	LYS
8	GH	95	VAL
10	GJ	32	ALA
10	GJ	43	ARG
12	GL	28	LYS
13	GM	123	ALA
15	GO	5	LYS
17	GQ	47	PRO
19	GS	77	THR
20	GT	79	ARG
20	GT	95	ALA
24	HD	15	GLN
24	HD	51	SER
24	HD	153	ALA
24	HD	181	GLU
24	HD	202	LYS
25	HE	4	ILE
25	HE	21	ILE
25	HE	29	GLY
25	HE	77	ILE

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Mol	Chain	Res	Type
25	HE	186	GLY
25	HE	201	ALA
25	HE	204	ALA
26	HF	36	ALA
26	HF	47	THR
26	HF	109	ALA
26	HF	148	VAL
26	HF	169	VAL
26	HF	171	PRO
27	HG	63	GLN
27	HG	70	ALA
27	HG	141	ILE
27	HG	171	GLN
28	HH	21	ASP
28	HH	30	LYS
28	HH	166	GLY
29	HI	34	LEU
30	HJ	53	ILE
30	HJ	68	ILE
30	HJ	124	ALA
30	HJ	138	VAL
31	HK	36	ASN
31	HK	83	ILE
31	HK	127	ILE
31	HK	137	LYS
32	HL	6	SER
32	HL	57	ASP
32	HL	109	ARG
32	HL	127	VAL
33	HM	38	LYS
33	HM	92	THR
34	HN	17	ARG
34	HN	82	THR
34	HN	120	ARG
35	HO	112	LEU
36	HP	31	VAL
37	HQ	44	ARG
38	HR	77	SER
38	HR	94	VAL
39	HS	4	ILE
39	HS	7	THR
39	HS	34	GLU

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Mol	Chain	Res	Type
39	HS	93	ILE
39	HS	95	ILE
40	HT	90	LEU
40	HT	92	VAL
41	HU	45	ALA
42	HV	11	ASN
42	HV	76	LEU
43	HW	54	ILE
43	HW	78	PRO
43	HW	93	GLU
43	HW	98	VAL
43	HW	104	SER
43	HW	133	GLU
43	HW	136	VAL
43	HW	143	ILE
44	HX	8	GLY
44	HX	33	ALA
45	HY	3	PRO
45	HY	32	ALA
47	H1	12	CYS
47	H1	30	GLU
49	H3	15	SER
51	H5	5	LYS
51	H5	39	ASP
53	H7	17	SER
53	H7	174	MSE
53	H7	210	GLY
2	IB	23	ARG
2	IB	26	PRO
2	IB	202	PRO
3	IC	141	VAL
3	IC	153	VAL
4	ID	56	VAL
5	IE	38	GLN
7	IG	14	PRO
7	IG	136	LYS
8	IH	95	VAL
10	IJ	32	ALA
10	IJ	43	ARG
13	IM	112	GLY
13	IM	123	ALA
15	IO	5	LYS

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Mol	Chain	Res	Type
17	IQ	47	PRO
19	IS	77	THR
20	IT	79	ARG
20	IT	95	ALA
24	JD	15	GLN
24	JD	51	SER
24	JD	153	ALA
24	JD	181	GLU
24	JD	268	ARG
25	JE	4	ILE
25	JE	21	ILE
25	JE	29	GLY
25	JE	77	ILE
25	JE	186	GLY
25	JE	201	ALA
25	JE	204	ALA
26	JF	36	ALA
26	JF	47	THR
26	JF	109	ALA
26	JF	148	VAL
26	JF	152	THR
26	JF	169	VAL
26	JF	171	PRO
27	JG	63	GLN
27	JG	70	ALA
27	JG	141	ILE
27	JG	171	GLN
28	JH	21	ASP
28	JH	30	LYS
28	JH	166	GLY
29	JI	34	LEU
30	JJ	53	ILE
30	JJ	68	ILE
30	JJ	138	VAL
31	JK	36	ASN
31	JK	83	ILE
31	JK	127	ILE
31	JK	137	LYS
32	JL	57	ASP
32	JL	109	ARG
32	JL	127	VAL
33	JM	38	LYS

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Mol	Chain	Res	Type
33	JM	92	THR
34	JN	17	ARG
34	JN	82	THR
34	JN	120	ARG
35	JO	112	LEU
36	JP	31	VAL
36	JP	87	VAL
37	JQ	44	ARG
37	JQ	68	VAL
38	JR	94	VAL
39	JS	4	ILE
39	JS	7	THR
39	JS	93	ILE
39	JS	95	ILE
40	JT	90	LEU
40	JT	92	VAL
42	JV	11	ASN
42	JV	76	LEU
43	JW	54	ILE
43	JW	78	PRO
43	JW	93	GLU
43	JW	98	VAL
43	JW	104	SER
43	JW	133	GLU
43	JW	136	VAL
43	JW	143	ILE
44	JX	8	GLY
44	JX	33	ALA
45	JY	3	PRO
45	JY	32	ALA
47	J1	30	GLU
49	J3	15	SER
51	J5	5	LYS
51	J5	39	ASP
53	J7	17	SER
53	J7	174	MSE
53	J7	210	GLY
2	AB	16	HIS
2	AB	229	VAL
3	AC	159	GLY
4	AD	56	VAL
7	AG	129	GLU

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Mol	Chain	Res	Type
14	AN	18	VAL
14	AN	48	ALA
15	AO	17	ARG
20	AT	47	GLY
24	BD	86	PRO
24	BD	122	GLU
24	BD	166	GLN
24	BD	199	ALA
24	BD	268	ARG
24	BD	269	PHE
25	BE	4	ILE
25	BE	28	ALA
25	BE	150	VAL
26	BF	7	ILE
26	BF	13	ARG
26	BF	32	THR
26	BF	144	GLY
26	BF	159	ARG
27	BG	109	PRO
28	BH	18	ASN
28	BH	63	ALA
28	BH	84	THR
28	BH	92	VAL
28	BH	113	VAL
28	BH	135	GLY
29	BI	13	LYS
30	BJ	80	LYS
30	BJ	124	ALA
32	BL	70	VAL
36	BP	53	ALA
38	BR	26	GLY
39	BS	30	GLY
40	BT	27	VAL
41	BU	35	LYS
41	BU	38	ILE
42	BV	75	ALA
43	BW	92	VAL
43	BW	135	VAL
44	BX	65	GLY
44	BX	75	GLY
47	B1	12	CYS
47	B1	44	THR

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Mol	Chain	Res	Type
47	B1	53	GLU
51	B5	37	SER
53	B7	15	ALA
53	B7	17	SER
53	B7	191	GLU
53	B7	210	GLY
2	CB	16	HIS
2	CB	229	VAL
3	CC	159	GLY
7	CG	129	GLU
14	CN	18	VAL
14	CN	48	ALA
20	CT	47	GLY
24	DD	43	ARG
24	DD	86	PRO
24	DD	199	ALA
24	DD	202	LYS
25	DE	28	ALA
25	DE	150	VAL
26	DF	7	ILE
26	DF	13	ARG
26	DF	32	THR
26	DF	144	GLY
26	DF	159	ARG
27	DG	109	PRO
28	DH	18	ASN
28	DH	63	ALA
28	DH	84	THR
28	DH	92	VAL
28	DH	113	VAL
28	DH	135	GLY
29	DI	13	LYS
30	DJ	80	LYS
30	DJ	124	ALA
32	DL	70	VAL
34	DN	76	THR
36	DP	53	ALA
38	DR	26	GLY
39	DS	30	GLY
40	DT	27	VAL
41	DU	35	LYS
41	DU	38	ILE

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Mol	Chain	Res	Type
43	DW	81	VAL
43	DW	135	VAL
44	DX	65	GLY
44	DX	75	GLY
47	D1	12	CYS
47	D1	44	THR
47	D1	53	GLU
51	D5	31	HIS
53	D7	17	SER
53	D7	191	GLU
2	EB	16	HIS
2	EB	229	VAL
3	EC	159	GLY
7	EG	129	GLU
14	EN	18	VAL
14	EN	48	ALA
15	EO	17	ARG
20	ET	47	GLY
24	FD	86	PRO
24	FD	122	GLU
24	FD	199	ALA
24	FD	268	ARG
25	FE	28	ALA
25	FE	150	VAL
25	FE	154	LYS
26	FF	7	ILE
26	FF	13	ARG
26	FF	32	THR
26	FF	144	GLY
26	FF	159	ARG
27	FG	109	PRO
28	FH	18	ASN
28	FH	63	ALA
28	FH	84	THR
28	FH	92	VAL
28	FH	113	VAL
28	FH	135	GLY
29	FI	13	LYS
30	FJ	80	LYS
30	FJ	124	ALA
32	FL	70	VAL
33	FM	46	GLY

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Mol	Chain	Res	Type
34	FN	76	THR
35	FO	104	ARG
36	FP	53	ALA
38	FR	26	GLY
39	FS	30	GLY
40	FT	27	VAL
41	FU	35	LYS
41	FU	38	ILE
43	FW	81	VAL
43	FW	92	VAL
43	FW	135	VAL
44	FX	65	GLY
44	FX	75	GLY
47	F1	44	THR
53	F7	15	ALA
53	F7	191	GLU
2	GB	16	HIS
2	GB	229	VAL
3	GC	159	GLY
7	GG	129	GLU
13	GM	112	GLY
14	GN	18	VAL
14	GN	48	ALA
19	GS	70	LYS
20	GT	47	GLY
24	HD	43	ARG
24	HD	86	PRO
24	HD	166	GLN
24	HD	199	ALA
24	HD	268	ARG
25	HE	28	ALA
25	HE	150	VAL
25	HE	154	LYS
26	HF	7	ILE
26	HF	13	ARG
26	HF	32	THR
26	HF	144	GLY
26	HF	159	ARG
27	HG	109	PRO
28	HH	18	ASN
28	HH	63	ALA
28	HH	84	THR

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Mol	Chain	Res	Type
28	HH	92	VAL
28	HH	113	VAL
28	HH	135	GLY
28	HH	152	ARG
29	HI	13	LYS
30	HJ	80	LYS
32	HL	70	VAL
33	HM	46	GLY
34	HN	76	THR
36	HP	53	ALA
38	HR	22	LYS
38	HR	26	GLY
39	HS	30	GLY
40	HT	27	VAL
41	HU	35	LYS
41	HU	38	ILE
42	HV	75	ALA
43	HW	63	PRO
43	HW	81	VAL
43	HW	92	VAL
43	HW	135	VAL
44	HX	65	GLY
44	HX	75	GLY
47	H1	44	THR
47	H1	53	GLU
51	H5	31	HIS
53	H7	15	ALA
53	H7	191	GLU
2	IB	16	HIS
2	IB	229	VAL
3	IC	159	GLY
7	IG	129	GLU
14	IN	18	VAL
14	IN	48	ALA
15	IO	17	ARG
19	IS	70	LYS
20	IT	47	GLY
24	JD	86	PRO
24	JD	166	GLN
24	JD	199	ALA
24	JD	202	LYS
25	JE	28	ALA

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Mol	Chain	Res	Type
25	JE	150	VAL
26	JF	7	ILE
26	JF	13	ARG
26	JF	32	THR
26	JF	144	GLY
26	JF	159	ARG
27	JG	109	PRO
28	JH	18	ASN
28	JH	63	ALA
28	JH	84	THR
28	JH	92	VAL
28	JH	113	VAL
28	JH	135	GLY
28	JH	152	ARG
29	JI	13	LYS
30	JJ	80	LYS
30	JJ	124	ALA
32	JL	6	SER
32	JL	70	VAL
33	JM	46	GLY
34	JN	76	THR
36	JP	53	ALA
38	JR	26	GLY
39	JS	30	GLY
41	JU	35	LYS
41	JU	38	ILE
43	JW	63	PRO
43	JW	135	VAL
44	JX	65	GLY
44	JX	75	GLY
47	J1	12	CYS
47	J1	44	THR
47	J1	53	GLU
51	J5	31	HIS
53	J7	15	ALA
53	J7	191	GLU
2	AB	130	ARG
2	AB	228	GLY
4	AD	7	PRO
9	AI	21	PRO
10	AJ	77	PRO
11	AK	90	GLY

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Mol	Chain	Res	Type
12	AL	40	VAL
15	AO	11	VAL
17	AQ	54	GLY
24	BD	121	PRO
24	BD	197	GLY
24	BD	238	GLY
25	BE	161	GLY
25	BE	173	VAL
26	BF	17	LEU
26	BF	70	GLY
26	BF	151	VAL
26	BF	188	ILE
34	BN	97	VAL
38	BR	8	ILE
41	BU	6	ILE
42	BV	50	GLY
43	BW	81	VAL
43	BW	150	GLY
43	BW	171	VAL
2	CB	130	ARG
2	CB	228	GLY
4	CD	7	PRO
9	CI	21	PRO
10	CJ	77	PRO
11	CK	90	GLY
15	CO	11	VAL
17	CQ	54	GLY
24	DD	121	PRO
24	DD	197	GLY
24	DD	238	GLY
25	DE	161	GLY
25	DE	173	VAL
26	DF	70	GLY
26	DF	151	VAL
26	DF	188	ILE
34	DN	97	VAL
38	DR	8	ILE
41	DU	6	ILE
41	DU	60	GLY
42	DV	50	GLY
43	DW	92	VAL
43	DW	150	GLY

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Mol	Chain	Res	Type
43	DW	171	VAL
2	EB	130	ARG
2	EB	228	GLY
4	ED	7	PRO
10	EJ	77	PRO
11	EK	90	GLY
15	EO	11	VAL
17	EQ	54	GLY
24	FD	197	GLY
24	FD	238	GLY
25	FE	161	GLY
25	FE	173	VAL
26	FF	17	LEU
26	FF	70	GLY
26	FF	151	VAL
26	FF	188	ILE
34	FN	97	VAL
38	FR	8	ILE
41	FU	6	ILE
42	FV	50	GLY
43	FW	150	GLY
43	FW	171	VAL
2	GB	130	ARG
2	GB	228	GLY
4	GD	7	PRO
9	GI	21	PRO
10	GJ	77	PRO
11	GK	90	GLY
15	GO	11	VAL
17	GQ	54	GLY
24	HD	121	PRO
24	HD	197	GLY
24	HD	238	GLY
25	HE	161	GLY
25	HE	173	VAL
26	HF	70	GLY
26	HF	151	VAL
26	HF	188	ILE
34	HN	97	VAL
38	HR	8	ILE
41	HU	6	ILE
42	HV	50	GLY

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Mol	Chain	Res	Type
43	HW	150	GLY
43	HW	171	VAL
2	IB	130	ARG
2	IB	228	GLY
4	ID	7	PRO
10	IJ	77	PRO
11	IK	90	GLY
15	IO	11	VAL
16	IP	53	VAL
17	IQ	54	GLY
24	JD	121	PRO
24	JD	197	GLY
24	JD	238	GLY
25	JE	161	GLY
25	JE	173	VAL
26	JF	17	LEU
26	JF	70	GLY
26	JF	151	VAL
26	JF	188	ILE
34	JN	97	VAL
38	JR	8	ILE
40	JT	27	VAL
41	JU	6	ILE
42	JV	50	GLY
43	JW	81	VAL
43	JW	92	VAL
43	JW	150	GLY
43	JW	171	VAL
3	AC	5	ILE
10	AJ	93	GLY
16	AP	53	VAL
25	BE	158	GLY
30	BJ	135	GLY
34	BN	98	VAL
36	BP	17	VAL
41	BU	60	GLY
44	BX	38	VAL
45	BY	50	VAL
3	CC	5	ILE
10	CJ	93	GLY
12	CL	40	VAL
16	CP	53	VAL

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Mol	Chain	Res	Type
25	DE	158	GLY
26	DF	17	LEU
30	DJ	135	GLY
34	DN	98	VAL
44	DX	38	VAL
45	DY	50	VAL
3	EC	5	ILE
9	EI	21	PRO
10	EJ	93	GLY
12	EL	40	VAL
16	EP	53	VAL
24	FD	121	PRO
25	FE	158	GLY
30	FJ	135	GLY
34	FN	98	VAL
41	FU	60	GLY
44	FX	38	VAL
45	FY	50	VAL
3	GC	5	ILE
10	GJ	93	GLY
12	GL	40	VAL
16	GP	53	VAL
25	HE	158	GLY
26	HF	17	LEU
30	HJ	135	GLY
34	HN	98	VAL
41	HU	60	GLY
44	HX	38	VAL
45	HY	50	VAL
3	IC	5	ILE
9	II	21	PRO
10	IJ	93	GLY
12	IL	40	VAL
25	JE	158	GLY
30	JJ	135	GLY
34	JN	98	VAL
41	JU	60	GLY
44	JX	38	VAL
45	JY	50	VAL
16	AP	36	ILE
17	AQ	77	VAL
17	AQ	85	VAL

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Mol	Chain	Res	Type
18	AR	27	GLY
24	BD	167	GLY
25	BE	190	GLY
25	BE	194	GLY
26	BF	172	VAL
32	BL	75	VAL
34	BN	103	VAL
37	BQ	35	VAL
37	BQ	77	VAL
41	BU	93	GLY
42	BV	54	ILE
16	CP	36	ILE
17	CQ	77	VAL
17	CQ	85	VAL
18	CR	27	GLY
25	DE	194	GLY
26	DF	172	VAL
34	DN	103	VAL
36	DP	17	VAL
37	DQ	35	VAL
37	DQ	77	VAL
41	DU	93	GLY
42	DV	4	PRO
42	DV	54	ILE
15	EO	45	VAL
16	EP	36	ILE
17	EQ	77	VAL
17	EQ	85	VAL
18	ER	27	GLY
25	FE	31	CYS
25	FE	190	GLY
25	FE	194	GLY
26	FF	172	VAL
32	FL	75	VAL
34	FN	103	VAL
36	FP	17	VAL
37	FQ	35	VAL
37	FQ	77	VAL
41	FU	93	GLY
42	FV	4	PRO
42	FV	54	ILE
53	F7	190	ILE

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Mol	Chain	Res	Type
16	GP	36	ILE
17	GQ	77	VAL
17	GQ	85	VAL
18	GR	27	GLY
24	HD	167	GLY
25	HE	190	GLY
25	HE	194	GLY
26	HF	172	VAL
32	HL	75	VAL
34	HN	103	VAL
36	HP	17	VAL
37	HQ	35	VAL
37	HQ	77	VAL
41	HU	93	GLY
42	HV	54	ILE
16	IP	36	ILE
17	IQ	77	VAL
17	IQ	85	VAL
18	IR	27	GLY
25	JE	194	GLY
26	JF	172	VAL
32	JL	75	VAL
34	JN	103	VAL
36	JP	17	VAL
37	JQ	35	VAL
37	JQ	77	VAL
41	JU	93	GLY
42	JV	4	PRO
42	JV	54	ILE
2	AB	208	ILE
7	AG	19	GLY
7	AG	55	GLY
9	AI	24	GLY
10	AJ	40	LEU
15	AO	45	VAL
25	BE	31	CYS
26	BF	99	VAL
32	BL	3	MET
32	BL	52	VAL
33	BM	57	ILE
34	BN	39	GLU
36	BP	7	ILE

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Mol	Chain	Res	Type
40	BT	128	VAL
42	BV	4	PRO
45	BY	35	GLY
51	B5	14	ILE
53	B7	95	GLY
53	B7	137	PRO
53	B7	190	ILE
2	CB	151	GLY
2	CB	208	ILE
7	CG	19	GLY
7	CG	55	GLY
9	CI	24	GLY
9	CI	68	GLY
15	CO	45	VAL
24	DD	167	GLY
25	DE	31	CYS
25	DE	190	GLY
26	DF	99	VAL
32	DL	3	MET
32	DL	52	VAL
32	DL	75	VAL
33	DM	57	ILE
34	DN	34	GLY
34	DN	39	GLU
35	DO	70	ILE
36	DP	7	ILE
40	DT	128	VAL
45	DY	35	GLY
51	D5	14	ILE
53	D7	95	GLY
53	D7	137	PRO
53	D7	190	ILE
2	EB	151	GLY
2	EB	208	ILE
7	EG	19	GLY
7	EG	55	GLY
9	EI	24	GLY
24	FD	167	GLY
24	FD	247	VAL
26	FF	99	VAL
32	FL	3	MET
32	FL	52	VAL

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Mol	Chain	Res	Type
33	FM	57	ILE
34	FN	39	GLU
35	FO	70	ILE
36	FP	7	ILE
40	FT	128	VAL
45	FY	35	GLY
51	F5	14	ILE
53	F7	95	GLY
53	F7	137	PRO
2	GB	151	GLY
2	GB	208	ILE
7	GG	19	GLY
7	GG	55	GLY
9	GI	24	GLY
9	GI	68	GLY
10	GJ	40	LEU
15	GO	45	VAL
25	HE	31	CYS
26	HF	99	VAL
32	HL	3	MET
32	HL	52	VAL
33	HM	57	ILE
34	HN	34	GLY
34	HN	39	GLU
35	HO	70	ILE
36	HP	7	ILE
40	HT	128	VAL
42	HV	4	PRO
45	HY	35	GLY
51	H5	14	ILE
53	H7	95	GLY
53	H7	137	PRO
53	H7	190	ILE
2	IB	208	ILE
7	IG	19	GLY
7	IG	55	GLY
9	II	24	GLY
9	II	68	GLY
10	IJ	40	LEU
15	IO	45	VAL
24	JD	167	GLY
25	JE	31	CYS

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Mol	Chain	Res	Type
25	JE	190	GLY
32	JL	3	MET
32	JL	52	VAL
33	JM	57	ILE
34	JN	34	GLY
34	JN	39	GLU
35	JO	70	ILE
36	JP	7	ILE
40	JT	128	VAL
45	JY	35	GLY
51	J5	14	ILE
53	J7	95	GLY
53	J7	137	PRO
53	J7	190	ILE
2	AB	151	GLY
3	AC	171	GLY
9	AI	68	GLY
24	BD	227	ASN
24	BD	247	VAL
30	BJ	34	ILE
34	BN	34	GLY
35	BO	70	ILE
37	BQ	117	ILE
43	BW	97	PRO
46	BZ	40	VAL
51	B5	38	GLY
3	CC	171	GLY
8	CH	43	GLY
10	CJ	40	LEU
12	CL	48	PRO
24	DD	227	ASN
24	DD	247	VAL
30	DJ	34	ILE
46	DZ	40	VAL
51	D5	38	GLY
3	EC	171	GLY
8	EH	43	GLY
9	EI	68	GLY
10	EJ	40	LEU
12	EL	48	PRO
24	FD	227	ASN
30	FJ	34	ILE

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Mol	Chain	Res	Type
34	FN	34	GLY
37	FQ	117	ILE
43	FW	97	PRO
46	FZ	40	VAL
51	F5	38	GLY
3	GC	171	GLY
8	GH	43	GLY
12	GL	48	PRO
24	HD	227	ASN
24	HD	247	VAL
30	HJ	34	ILE
46	HZ	40	VAL
51	H5	38	GLY
2	IB	151	GLY
3	IC	171	GLY
8	IH	43	GLY
13	IM	7	VAL
24	JD	227	ASN
24	JD	247	VAL
26	JF	99	VAL
27	JG	82	GLY
30	JJ	34	ILE
37	JQ	117	ILE
46	JZ	40	VAL
51	J5	38	GLY

5.3.2 Protein sidechains ⓘ

In the following table, the Percentiles column shows the percent sidechain outliers of the chain as a percentile score with respect to all X-ray entries followed by that with respect to entries of similar resolution.

The Analysed column shows the number of residues for which the sidechain conformation was analysed, and the total number of residues.

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
2	AB	202/202 (100%)	179 (89%)	23 (11%)	5	21
2	CB	202/202 (100%)	179 (89%)	23 (11%)	5	21
2	EB	202/202 (100%)	179 (89%)	23 (11%)	5	21
2	GB	202/202 (100%)	179 (89%)	23 (11%)	5	21
2	IB	202/202 (100%)	179 (89%)	23 (11%)	5	21

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
3	AC	160/160 (100%)	150 (94%)	10 (6%)	18	43
3	CC	160/160 (100%)	150 (94%)	10 (6%)	18	43
3	EC	160/160 (100%)	150 (94%)	10 (6%)	18	43
3	GC	160/160 (100%)	150 (94%)	10 (6%)	18	43
3	IC	160/160 (100%)	150 (94%)	10 (6%)	18	43
4	AD	180/180 (100%)	157 (87%)	23 (13%)	4	18
4	CD	180/180 (100%)	157 (87%)	23 (13%)	4	18
4	ED	180/180 (100%)	157 (87%)	23 (13%)	4	18
4	GD	180/180 (100%)	157 (87%)	23 (13%)	4	18
4	ID	180/180 (100%)	157 (87%)	23 (13%)	4	18
5	AE	115/115 (100%)	106 (92%)	9 (8%)	12	36
5	CE	115/115 (100%)	106 (92%)	9 (8%)	12	36
5	EE	115/115 (100%)	106 (92%)	9 (8%)	12	36
5	GE	115/115 (100%)	106 (92%)	9 (8%)	12	36
5	IE	115/115 (100%)	106 (92%)	9 (8%)	12	36
6	AF	90/90 (100%)	82 (91%)	8 (9%)	9	30
6	CF	90/90 (100%)	81 (90%)	9 (10%)	7	26
6	EF	90/90 (100%)	82 (91%)	8 (9%)	9	30
6	GF	90/90 (100%)	82 (91%)	8 (9%)	9	30
6	IF	90/90 (100%)	81 (90%)	9 (10%)	7	26
7	AG	126/126 (100%)	115 (91%)	11 (9%)	10	31
7	CG	126/126 (100%)	115 (91%)	11 (9%)	10	31
7	EG	126/126 (100%)	115 (91%)	11 (9%)	10	31
7	GG	126/126 (100%)	115 (91%)	11 (9%)	10	31
7	IG	126/126 (100%)	115 (91%)	11 (9%)	10	31
8	AH	119/119 (100%)	113 (95%)	6 (5%)	24	49
8	CH	119/119 (100%)	113 (95%)	6 (5%)	24	49
8	EH	119/119 (100%)	113 (95%)	6 (5%)	24	49
8	GH	119/119 (100%)	113 (95%)	6 (5%)	24	49
8	IH	119/119 (100%)	113 (95%)	6 (5%)	24	49
9	AI	98/98 (100%)	87 (89%)	11 (11%)	6	22

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
9	CI	98/98 (100%)	87 (89%)	11 (11%)	6	22
9	EI	98/98 (100%)	88 (90%)	10 (10%)	7	25
9	GI	98/98 (100%)	87 (89%)	11 (11%)	6	22
9	II	98/98 (100%)	87 (89%)	11 (11%)	6	22
10	AJ	88/88 (100%)	81 (92%)	7 (8%)	12	35
10	CJ	88/88 (100%)	81 (92%)	7 (8%)	12	35
10	EJ	88/88 (100%)	81 (92%)	7 (8%)	12	35
10	GJ	88/88 (100%)	81 (92%)	7 (8%)	12	35
10	IJ	88/88 (100%)	81 (92%)	7 (8%)	12	35
11	AK	90/90 (100%)	80 (89%)	10 (11%)	6	22
11	CK	90/90 (100%)	80 (89%)	10 (11%)	6	22
11	EK	90/90 (100%)	80 (89%)	10 (11%)	6	22
11	GK	90/90 (100%)	80 (89%)	10 (11%)	6	22
11	IK	90/90 (100%)	80 (89%)	10 (11%)	6	22
12	AL	104/104 (100%)	98 (94%)	6 (6%)	20	45
12	CL	104/104 (100%)	98 (94%)	6 (6%)	20	45
12	EL	104/104 (100%)	98 (94%)	6 (6%)	20	45
12	GL	104/104 (100%)	98 (94%)	6 (6%)	20	45
12	IL	104/104 (100%)	98 (94%)	6 (6%)	20	45
13	AM	100/100 (100%)	86 (86%)	14 (14%)	3	17
13	CM	100/100 (100%)	86 (86%)	14 (14%)	3	17
13	EM	100/100 (100%)	86 (86%)	14 (14%)	3	17
13	GM	100/100 (100%)	86 (86%)	14 (14%)	3	17
13	IM	100/100 (100%)	86 (86%)	14 (14%)	3	17
14	AN	49/49 (100%)	44 (90%)	5 (10%)	7	25
14	CN	49/49 (100%)	44 (90%)	5 (10%)	7	25
14	EN	49/49 (100%)	44 (90%)	5 (10%)	7	25
14	GN	49/49 (100%)	44 (90%)	5 (10%)	7	25
14	IN	49/49 (100%)	44 (90%)	5 (10%)	7	25
15	AO	79/79 (100%)	75 (95%)	4 (5%)	24	48
15	CO	79/79 (100%)	75 (95%)	4 (5%)	24	48

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
15	EO	79/79 (100%)	75 (95%)	4 (5%)	24	48
15	GO	79/79 (100%)	75 (95%)	4 (5%)	24	48
15	IO	79/79 (100%)	75 (95%)	4 (5%)	24	48
16	AP	72/72 (100%)	68 (94%)	4 (6%)	21	46
16	CP	72/72 (100%)	68 (94%)	4 (6%)	21	46
16	EP	72/72 (100%)	68 (94%)	4 (6%)	21	46
16	GP	72/72 (100%)	68 (94%)	4 (6%)	21	46
16	IP	72/72 (100%)	68 (94%)	4 (6%)	21	46
17	AQ	96/96 (100%)	88 (92%)	8 (8%)	11	34
17	CQ	96/96 (100%)	88 (92%)	8 (8%)	11	34
17	EQ	96/96 (100%)	88 (92%)	8 (8%)	11	34
17	GQ	96/96 (100%)	88 (92%)	8 (8%)	11	34
17	IQ	96/96 (100%)	88 (92%)	8 (8%)	11	34
18	AR	64/64 (100%)	57 (89%)	7 (11%)	6	23
18	CR	64/64 (100%)	57 (89%)	7 (11%)	6	23
18	ER	64/64 (100%)	57 (89%)	7 (11%)	6	23
18	GR	64/64 (100%)	57 (89%)	7 (11%)	6	23
18	IR	64/64 (100%)	57 (89%)	7 (11%)	6	23
19	AS	71/71 (100%)	62 (87%)	9 (13%)	4	18
19	CS	71/71 (100%)	62 (87%)	9 (13%)	4	18
19	ES	71/71 (100%)	62 (87%)	9 (13%)	4	18
19	GS	71/71 (100%)	62 (87%)	9 (13%)	4	18
19	IS	71/71 (100%)	62 (87%)	9 (13%)	4	18
20	AT	76/76 (100%)	73 (96%)	3 (4%)	32	56
20	CT	76/76 (100%)	73 (96%)	3 (4%)	32	56
20	ET	76/76 (100%)	73 (96%)	3 (4%)	32	56
20	GT	76/76 (100%)	73 (96%)	3 (4%)	32	56
20	IT	76/76 (100%)	73 (96%)	3 (4%)	32	56
21	Aa	80/80 (100%)	62 (78%)	18 (22%)	1	5
21	Ca	80/80 (100%)	62 (78%)	18 (22%)	1	5
21	Ea	80/80 (100%)	62 (78%)	18 (22%)	1	5

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
21	Ga	80/80 (100%)	62 (78%)	18 (22%)	1	5
21	Ia	80/80 (100%)	62 (78%)	18 (22%)	1	5
24	BD	212/212 (100%)	168 (79%)	44 (21%)	1	6
24	DD	212/212 (100%)	168 (79%)	44 (21%)	1	6
24	FD	212/212 (100%)	168 (79%)	44 (21%)	1	6
24	HD	212/212 (100%)	168 (79%)	44 (21%)	1	6
24	JD	212/212 (100%)	168 (79%)	44 (21%)	1	6
25	BE	155/155 (100%)	130 (84%)	25 (16%)	2	13
25	DE	155/155 (100%)	130 (84%)	25 (16%)	2	13
25	FE	155/155 (100%)	131 (84%)	24 (16%)	2	14
25	HE	155/155 (100%)	131 (84%)	24 (16%)	2	14
25	JE	155/155 (100%)	130 (84%)	25 (16%)	2	13
26	BF	157/158 (99%)	139 (88%)	18 (12%)	5	21
26	DF	157/158 (99%)	139 (88%)	18 (12%)	5	21
26	FF	157/158 (99%)	139 (88%)	18 (12%)	5	21
26	HF	157/158 (99%)	139 (88%)	18 (12%)	5	21
26	JF	157/158 (99%)	139 (88%)	18 (12%)	5	21
27	BG	154/154 (100%)	122 (79%)	32 (21%)	1	6
27	DG	154/154 (100%)	122 (79%)	32 (21%)	1	6
27	FG	154/154 (100%)	122 (79%)	32 (21%)	1	6
27	HG	154/154 (100%)	122 (79%)	32 (21%)	1	6
27	JG	154/154 (100%)	122 (79%)	32 (21%)	1	6
28	BH	137/137 (100%)	116 (85%)	21 (15%)	2	14
28	DH	137/137 (100%)	116 (85%)	21 (15%)	2	14
28	FH	137/137 (100%)	116 (85%)	21 (15%)	2	14
28	HH	137/137 (100%)	116 (85%)	21 (15%)	2	14
28	JH	137/137 (100%)	116 (85%)	21 (15%)	2	14
29	BI	44/44 (100%)	39 (89%)	5 (11%)	5	21
29	DI	44/44 (100%)	39 (89%)	5 (11%)	5	21
29	FI	44/44 (100%)	39 (89%)	5 (11%)	5	21
29	HI	44/44 (100%)	39 (89%)	5 (11%)	5	21

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
29	JI	44/44 (100%)	39 (89%)	5 (11%)	5	21
30	BJ	107/107 (100%)	95 (89%)	12 (11%)	6	22
30	DJ	107/107 (100%)	95 (89%)	12 (11%)	6	22
30	FJ	107/107 (100%)	95 (89%)	12 (11%)	6	22
30	HJ	107/107 (100%)	95 (89%)	12 (11%)	6	22
30	JJ	107/107 (100%)	95 (89%)	12 (11%)	6	22
31	BK	119/119 (100%)	102 (86%)	17 (14%)	3	16
31	DK	119/119 (100%)	102 (86%)	17 (14%)	3	16
31	FK	119/119 (100%)	102 (86%)	17 (14%)	3	16
31	HK	119/119 (100%)	102 (86%)	17 (14%)	3	16
31	JK	119/119 (100%)	102 (86%)	17 (14%)	3	16
32	BL	101/101 (100%)	88 (87%)	13 (13%)	4	18
32	DL	101/101 (100%)	88 (87%)	13 (13%)	4	18
32	FL	101/101 (100%)	88 (87%)	13 (13%)	4	18
32	HL	101/101 (100%)	88 (87%)	13 (13%)	4	18
32	JL	101/101 (100%)	88 (87%)	13 (13%)	4	18
33	BM	108/108 (100%)	88 (82%)	20 (18%)	1	9
33	DM	108/108 (100%)	88 (82%)	20 (18%)	1	9
33	FM	108/108 (100%)	88 (82%)	20 (18%)	1	9
33	HM	108/108 (100%)	88 (82%)	20 (18%)	1	9
33	JM	108/108 (100%)	88 (82%)	20 (18%)	1	9
34	BN	99/99 (100%)	75 (76%)	24 (24%)	0	4
34	DN	99/99 (100%)	75 (76%)	24 (24%)	0	4
34	FN	99/99 (100%)	75 (76%)	24 (24%)	0	4
34	HN	99/99 (100%)	75 (76%)	24 (24%)	0	4
34	JN	99/99 (100%)	75 (76%)	24 (24%)	0	4
35	BO	91/91 (100%)	78 (86%)	13 (14%)	3	16
35	DO	91/91 (100%)	78 (86%)	13 (14%)	3	16
35	FO	91/91 (100%)	78 (86%)	13 (14%)	3	16
35	HO	91/91 (100%)	78 (86%)	13 (14%)	3	16
35	JO	91/91 (100%)	78 (86%)	13 (14%)	3	16

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
36	BP	80/80 (100%)	71 (89%)	9 (11%)	6	21
36	DP	80/80 (100%)	71 (89%)	9 (11%)	6	21
36	FP	80/80 (100%)	71 (89%)	9 (11%)	6	21
36	HP	80/80 (100%)	71 (89%)	9 (11%)	6	21
36	JP	80/80 (100%)	71 (89%)	9 (11%)	6	21
37	BQ	108/108 (100%)	92 (85%)	16 (15%)	3	15
37	DQ	108/108 (100%)	92 (85%)	16 (15%)	3	15
37	FQ	108/108 (100%)	92 (85%)	16 (15%)	3	15
37	HQ	108/108 (100%)	92 (85%)	16 (15%)	3	15
37	JQ	108/108 (100%)	92 (85%)	16 (15%)	3	15
38	BR	96/96 (100%)	82 (85%)	14 (15%)	3	15
38	DR	96/96 (100%)	82 (85%)	14 (15%)	3	15
38	FR	96/96 (100%)	82 (85%)	14 (15%)	3	15
38	HR	96/96 (100%)	82 (85%)	14 (15%)	3	15
38	JR	96/96 (100%)	82 (85%)	14 (15%)	3	15
39	BS	79/79 (100%)	70 (89%)	9 (11%)	5	21
39	DS	79/79 (100%)	70 (89%)	9 (11%)	5	21
39	FS	79/79 (100%)	70 (89%)	9 (11%)	5	21
39	HS	79/79 (100%)	70 (89%)	9 (11%)	5	21
39	JS	79/79 (100%)	70 (89%)	9 (11%)	5	21
40	BT	112/112 (100%)	99 (88%)	13 (12%)	5	21
40	DT	112/112 (100%)	99 (88%)	13 (12%)	5	21
40	FT	112/112 (100%)	99 (88%)	13 (12%)	5	21
40	HT	112/112 (100%)	99 (88%)	13 (12%)	5	21
40	JT	112/112 (100%)	99 (88%)	13 (12%)	5	21
41	BU	75/75 (100%)	69 (92%)	6 (8%)	12	35
41	DU	75/75 (100%)	69 (92%)	6 (8%)	12	35
41	FU	75/75 (100%)	69 (92%)	6 (8%)	12	35
41	HU	75/75 (100%)	68 (91%)	7 (9%)	9	28
41	JU	75/75 (100%)	68 (91%)	7 (9%)	9	28
42	BV	94/94 (100%)	86 (92%)	8 (8%)	10	33

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
42	DV	94/94 (100%)	86 (92%)	8 (8%)	10	33
42	FV	94/94 (100%)	86 (92%)	8 (8%)	10	33
42	HV	94/94 (100%)	86 (92%)	8 (8%)	10	33
42	JV	94/94 (100%)	86 (92%)	8 (8%)	10	33
43	BW	147/147 (100%)	125 (85%)	22 (15%)	3	15
43	DW	147/147 (100%)	125 (85%)	22 (15%)	3	15
43	FW	147/147 (100%)	125 (85%)	22 (15%)	3	15
43	HW	147/147 (100%)	125 (85%)	22 (15%)	3	15
43	JW	147/147 (100%)	125 (85%)	22 (15%)	3	15
44	BX	64/64 (100%)	49 (77%)	15 (23%)	1	4
44	DX	64/64 (100%)	49 (77%)	15 (23%)	1	4
44	FX	64/64 (100%)	48 (75%)	16 (25%)	0	3
44	HX	64/64 (100%)	48 (75%)	16 (25%)	0	3
44	JX	64/64 (100%)	49 (77%)	15 (23%)	1	4
45	BY	53/53 (100%)	44 (83%)	9 (17%)	2	12
45	DY	53/53 (100%)	44 (83%)	9 (17%)	2	12
45	FY	53/53 (100%)	44 (83%)	9 (17%)	2	12
45	HY	53/53 (100%)	44 (83%)	9 (17%)	2	12
45	JY	53/53 (100%)	44 (83%)	9 (17%)	2	12
46	BZ	48/48 (100%)	38 (79%)	10 (21%)	1	6
46	DZ	48/48 (100%)	38 (79%)	10 (21%)	1	6
46	FZ	48/48 (100%)	38 (79%)	10 (21%)	1	6
46	HZ	48/48 (100%)	38 (79%)	10 (21%)	1	6
46	JZ	48/48 (100%)	38 (79%)	10 (21%)	1	6
47	B1	66/66 (100%)	53 (80%)	13 (20%)	1	8
47	D1	66/66 (100%)	53 (80%)	13 (20%)	1	8
47	F1	66/66 (100%)	53 (80%)	13 (20%)	1	8
47	H1	66/66 (100%)	53 (80%)	13 (20%)	1	8
47	J1	66/66 (100%)	53 (80%)	13 (20%)	1	8
48	B2	51/51 (100%)	39 (76%)	12 (24%)	1	4
48	D2	51/51 (100%)	39 (76%)	12 (24%)	1	4

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
48	F2	51/51 (100%)	39 (76%)	12 (24%)	1	4
48	H2	51/51 (100%)	39 (76%)	12 (24%)	1	4
48	J2	51/51 (100%)	39 (76%)	12 (24%)	1	4
49	B3	46/46 (100%)	33 (72%)	13 (28%)	0	2
49	D3	46/46 (100%)	33 (72%)	13 (28%)	0	2
49	F3	46/46 (100%)	33 (72%)	13 (28%)	0	2
49	H3	46/46 (100%)	33 (72%)	13 (28%)	0	2
49	J3	46/46 (100%)	33 (72%)	13 (28%)	0	2
50	B4	39/39 (100%)	28 (72%)	11 (28%)	0	2
50	D4	39/39 (100%)	28 (72%)	11 (28%)	0	2
50	F4	39/39 (100%)	28 (72%)	11 (28%)	0	2
50	H4	39/39 (100%)	28 (72%)	11 (28%)	0	2
50	J4	39/39 (100%)	28 (72%)	11 (28%)	0	2
51	B5	50/50 (100%)	35 (70%)	15 (30%)	0	2
51	D5	50/50 (100%)	35 (70%)	15 (30%)	0	2
51	F5	50/50 (100%)	35 (70%)	15 (30%)	0	2
51	H5	50/50 (100%)	35 (70%)	15 (30%)	0	2
51	J5	50/50 (100%)	35 (70%)	15 (30%)	0	2
52	B6	34/34 (100%)	30 (88%)	4 (12%)	5	20
52	D6	34/34 (100%)	30 (88%)	4 (12%)	5	20
52	F6	34/34 (100%)	30 (88%)	4 (12%)	5	20
52	H6	34/34 (100%)	30 (88%)	4 (12%)	5	20
52	J6	34/34 (100%)	30 (88%)	4 (12%)	5	20
53	B7	191/187 (102%)	179 (94%)	12 (6%)	18	43
53	D7	191/187 (102%)	179 (94%)	12 (6%)	18	43
53	F7	191/187 (102%)	179 (94%)	12 (6%)	18	43
53	H7	191/187 (102%)	179 (94%)	12 (6%)	18	43
53	J7	191/187 (102%)	179 (94%)	12 (6%)	18	43
All	All	24880/24865 (100%)	21622 (87%)	3258 (13%)	4	18

All (3258) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
2	AB	8	LYS
2	AB	9	GLU
2	AB	16	HIS
2	AB	23	ARG
2	AB	30	ARG
2	AB	37	ASN
2	AB	90	MET
2	AB	95	GLN
2	AB	96	ARG
2	AB	101	MET
2	AB	106	LYS
2	AB	113	HIS
2	AB	144	ARG
2	AB	155	LEU
2	AB	158	LEU
2	AB	163	PHE
2	AB	175	ARG
2	AB	190	THR
2	AB	199	TYR
2	AB	204	ASN
2	AB	230	VAL
2	AB	232	PRO
2	AB	236	TYR
3	AC	3	ASN
3	AC	35	GLU
3	AC	56	ASP
3	AC	62	ASP
3	AC	91	LEU
3	AC	139	GLN
3	AC	140	ARG
3	AC	167	TRP
3	AC	176	HIS
3	AC	190	ARG
4	AD	11	LEU
4	AD	20	TYR
4	AD	53	ASP
4	AD	57	ARG
4	AD	61	LYS
4	AD	93	PHE
4	AD	107	ARG
4	AD	122	ARG
4	AD	135	LEU
4	AD	150	GLU

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Mol	Chain	Res	Type
4	AD	152	SER
4	AD	157	LEU
4	AD	161	ASN
4	AD	168	ARG
4	AD	173	TRP
4	AD	174	LEU
4	AD	196	LEU
4	AD	199	ASN
4	AD	200	GLU
4	AD	201	GLN
4	AD	202	LEU
4	AD	205	GLU
4	AD	207	TYR
5	AE	10	MET
5	AE	12	LEU
5	AE	19	MET
5	AE	63	ARG
5	AE	64	ARG
5	AE	73	ASN
5	AE	78	HIS
5	AE	89	ILE
5	AE	150	ARG
6	AF	10	LEU
6	AF	13	ASN
6	AF	32	ASN
6	AF	33	TYR
6	AF	36	ARG
6	AF	43	LEU
6	AF	57	GLN
6	AF	98	LEU
7	AG	3	ARG
7	AG	37	ASN
7	AG	89	MET
7	AG	94	ARG
7	AG	98	SER
7	AG	106	GLN
7	AG	115	ARG
7	AG	122	HIS
7	AG	126	ASP
7	AG	136	LYS
7	AG	154	TYR
8	AH	25	ASP

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Mol	Chain	Res	Type
8	AH	31	PHE
8	AH	41	ARG
8	AH	56	LYS
8	AH	91	ARG
8	AH	127	LEU
9	AI	10	ARG
9	AI	19	LEU
9	AI	25	LYS
9	AI	47	LEU
9	AI	48	GLU
9	AI	59	PHE
9	AI	60	ASP
9	AI	75	ASP
9	AI	102	LEU
9	AI	111	ARG
9	AI	121	ARG
10	AJ	9	ARG
10	AJ	55	LYS
10	AJ	56	HIS
10	AJ	64	GLU
10	AJ	71	LEU
10	AJ	79	ARG
10	AJ	95	GLU
11	AK	26	ASN
11	AK	57	THR
11	AK	59	TYR
11	AK	73	MET
11	AK	81	ASP
11	AK	85	ARG
11	AK	91	ARG
11	AK	123	LYS
11	AK	125	PHE
11	AK	126	ARG
12	AL	33	ARG
12	AL	53	ARG
12	AL	67	THR
12	AL	73	GLU
12	AL	89	ARG
12	AL	90	VAL
13	AM	3	ARG
13	AM	21	TYR
13	AM	46	LYS

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Mol	Chain	Res	Type
13	AM	49	THR
13	AM	56	LEU
13	AM	62	ASN
13	AM	70	LEU
13	AM	80	ARG
13	AM	81	LEU
13	AM	98	VAL
13	AM	109	THR
13	AM	110	ARG
13	AM	124	PRO
13	AM	125	ARG
14	AN	8	GLU
14	AN	18	VAL
14	AN	44	LEU
14	AN	46	GLU
14	AN	53	LEU
15	AO	5	LYS
15	AO	35	ARG
15	AO	38	ARG
15	AO	39	LEU
16	AP	9	PHE
16	AP	38	TYR
16	AP	48	TRP
16	AP	55	ARG
17	AQ	27	PHE
17	AQ	34	LYS
17	AQ	60	ILE
17	AQ	69	LYS
17	AQ	84	LEU
17	AQ	95	TYR
17	AQ	98	LEU
17	AQ	101	ARG
18	AR	35	ARG
18	AR	38	GLU
18	AR	42	ARG
18	AR	44	LEU
18	AR	53	ARG
18	AR	54	ARG
18	AR	81	PHE
19	AS	5	LEU
19	AS	7	LYS
19	AS	12	ASP

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Mol	Chain	Res	Type
19	AS	14	HIS
19	AS	32	LYS
19	AS	36	ARG
19	AS	38	SER
19	AS	43	GLU
19	AS	52	TYR
20	AT	13	LEU
20	AT	23	ARG
20	AT	53	LEU
21	Aa	7	LYS
21	Aa	8	GLN
21	Aa	9	MET
21	Aa	25	LYS
21	Aa	27	GLU
21	Aa	28	LYS
21	Aa	30	GLN
21	Aa	32	HIS
21	Aa	37	HIS
21	Aa	45	GLN
21	Aa	63	SER
21	Aa	74	ASN
21	Aa	76	LEU
21	Aa	78	ASN
21	Aa	79	LYS
21	Aa	82	ARG
21	Aa	85	ASN
21	Aa	90	LYS
24	BD	4	LYS
24	BD	27	LYS
24	BD	33	LEU
24	BD	35	GLU
24	BD	37	LEU
24	BD	38	PRO
24	BD	43	ARG
24	BD	48	ARG
24	BD	52	ARG
24	BD	60	ARG
24	BD	70	ARG
24	BD	72	LYS
24	BD	76	ASN
24	BD	78	LYS
24	BD	88	ARG

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Mol	Chain	Res	Type
24	BD	91	ARG
24	BD	94	LEU
24	BD	95	LEU
24	BD	105	ILE
24	BD	118	ASN
24	BD	121	PRO
24	BD	124	GLU
24	BD	127	LEU
24	BD	133	LEU
24	BD	142	VAL
24	BD	148	VAL
24	BD	151	LYS
24	BD	154	GLN
24	BD	155	LEU
24	BD	177	LEU
24	BD	178	PRO
24	BD	213	ARG
24	BD	219	PRO
24	BD	228	PRO
24	BD	233	HIS
24	BD	239	ARG
24	BD	244	ARG
24	BD	249	PRO
24	BD	252	LYS
24	BD	257	LEU
24	BD	261	ARG
24	BD	265	THR
24	BD	268	ARG
24	BD	270	ILE
25	BE	5	LEU
25	BE	14	ILE
25	BE	22	PRO
25	BE	27	LEU
25	BE	40	GLN
25	BE	53	PRO
25	BE	58	LYS
25	BE	67	PHE
25	BE	72	VAL
25	BE	92	ASN
25	BE	94	ASP
25	BE	95	ILE
25	BE	109	LYS

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Mol	Chain	Res	Type
25	BE	111	LYS
25	BE	118	LYS
25	BE	119	ARG
25	BE	132	LYS
25	BE	136	ARG
25	BE	144	ARG
25	BE	151	TYR
25	BE	152	LYS
25	BE	155	ARG
25	BE	169	ASN
25	BE	192	ASN
25	BE	199	ARG
26	BF	10	ASN
26	BF	40	ARG
26	BF	56	ARG
26	BF	58	MET
26	BF	61	GLN
26	BF	87	LYS
26	BF	88	PRO
26	BF	104	LEU
26	BF	111	ARG
26	BF	116	LYS
26	BF	121	ASP
26	BF	127	ASP
26	BF	136	TRP
26	BF	140	ASN
26	BF	143	ASP
26	BF	176	ASN
26	BF	179	ASP
26	BF	185	ARG
27	BG	6	THR
27	BG	9	ASN
27	BG	12	VAL
27	BG	13	ARG
27	BG	17	MET
27	BG	18	GLN
27	BG	19	GLN
27	BG	30	ARG
27	BG	34	ILE
27	BG	63	GLN
27	BG	64	LYS
27	BG	68	THR

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Mol	Chain	Res	Type
27	BG	72	LYS
27	BG	76	ASN
27	BG	78	LYS
27	BG	85	VAL
27	BG	92	ARG
27	BG	114	PHE
27	BG	118	ASN
27	BG	127	ASN
27	BG	130	LEU
27	BG	133	LYS
27	BG	134	GLU
27	BG	139	PRO
27	BG	143	TYR
27	BG	148	LYS
27	BG	149	THR
27	BG	152	MET
27	BG	156	ILE
27	BG	158	THR
27	BG	167	ARG
27	BG	179	LYS
28	BH	6	LYS
28	BH	21	ASP
28	BH	27	LYS
28	BH	33	LEU
28	BH	35	VAL
28	BH	36	PRO
28	BH	53	GLU
28	BH	57	ASP
28	BH	69	ARG
28	BH	77	LYS
28	BH	83	TYR
28	BH	89	LEU
28	BH	94	PHE
28	BH	98	LEU
28	BH	107	ILE
28	BH	115	ILE
28	BH	126	PRO
28	BH	130	ARG
28	BH	137	ASP
28	BH	151	VAL
28	BH	160	LYS
29	BI	2	GLN

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Mol	Chain	Res	Type
29	BI	8	PRO
29	BI	16	GLU
29	BI	24	TYR
29	BI	46	LEU
30	BJ	18	THR
30	BJ	21	PRO
30	BJ	22	PRO
30	BJ	23	VAL
30	BJ	39	LYS
30	BJ	42	ASN
30	BJ	48	LYS
30	BJ	71	THR
30	BJ	91	PRO
30	BJ	115	LEU
30	BJ	125	ASN
30	BJ	142	PRO
31	BK	30	LYS
31	BK	51	LEU
31	BK	57	LEU
31	BK	63	ARG
31	BK	75	ILE
31	BK	94	LYS
31	BK	97	ASP
31	BK	107	GLN
31	BK	110	LEU
31	BK	123	PRO
31	BK	139	ARG
31	BK	142	ARG
31	BK	147	ARG
31	BK	156	HIS
31	BK	157	PRO
31	BK	163	PRO
31	BK	167	LYS
32	BL	2	ILE
32	BL	3	MET
32	BL	22	ILE
32	BL	23	ARG
32	BL	43	ARG
32	BL	44	TYR
32	BL	49	ASP
32	BL	61	ARG
32	BL	69	VAL

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Mol	Chain	Res	Type
32	BL	83	ARG
32	BL	102	GLN
32	BL	105	PRO
32	BL	121	ARG
33	BM	7	LYS
33	BM	8	PRO
33	BM	9	THR
33	BM	34	HIS
33	BM	35	LYS
33	BM	45	LYS
33	BM	50	GLU
33	BM	56	LEU
33	BM	59	ARG
33	BM	62	LYS
33	BM	63	ARG
33	BM	66	ASN
33	BM	72	TYR
33	BM	79	GLN
33	BM	101	ARG
33	BM	105	PRO
33	BM	107	LYS
33	BM	139	ARG
33	BM	140	VAL
33	BM	143	PRO
34	BN	9	LYS
34	BN	10	PHE
34	BN	12	LYS
34	BN	13	GLN
34	BN	26	ASP
34	BN	36	ILE
34	BN	42	TRP
34	BN	47	GLN
34	BN	52	ARG
34	BN	55	MET
34	BN	58	HIS
34	BN	60	ARG
34	BN	61	ARG
34	BN	73	LYS
34	BN	74	PRO
34	BN	94	TRP
34	BN	100	PRO
34	BN	102	ARG

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Mol	Chain	Res	Type
34	BN	104	MET
34	BN	112	GLU
34	BN	114	GLN
34	BN	120	ARG
34	BN	125	LYS
34	BN	131	LYS
35	BO	3	HIS
35	BO	5	LYS
35	BO	37	THR
35	BO	38	LEU
35	BO	39	THR
35	BO	52	ILE
35	BO	63	ARG
35	BO	68	GLN
35	BO	80	MET
35	BO	87	TYR
35	BO	99	ARG
35	BO	110	MET
35	BO	112	LEU
36	BP	8	ARG
36	BP	11	LEU
36	BP	12	ARG
36	BP	29	LEU
36	BP	63	ASN
36	BP	64	LYS
36	BP	94	TYR
36	BP	96	TYR
36	BP	97	HIS
37	BQ	5	ILE
37	BQ	11	GLU
37	BQ	20	HIS
37	BQ	23	GLN
37	BQ	25	PRO
37	BQ	38	LYS
37	BQ	43	ASN
37	BQ	50	PHE
37	BQ	55	ILE
37	BQ	58	ASN
37	BQ	63	ARG
37	BQ	90	GLN
37	BQ	103	LYS
37	BQ	105	TYR

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Mol	Chain	Res	Type
37	BQ	108	ARG
37	BQ	126	LYS
38	BR	15	LYS
38	BR	20	ARG
38	BR	32	TYR
38	BR	33	ARG
38	BR	46	GLU
38	BR	49	ASP
38	BR	50	ARG
38	BR	56	ASP
38	BR	63	GLN
38	BR	64	ARG
38	BR	71	LEU
38	BR	92	ARG
38	BR	109	LEU
38	BR	111	ASP
39	BS	10	LYS
39	BS	25	LEU
39	BS	28	GLU
39	BS	50	ASP
39	BS	67	LYS
39	BS	73	LYS
39	BS	82	ARG
39	BS	83	ARG
39	BS	96	LEU
40	BT	11	LYS
40	BT	15	LYS
40	BT	25	PHE
40	BT	39	ARG
40	BT	61	PRO
40	BT	67	PRO
40	BT	70	LYS
40	BT	73	ASN
40	BT	81	HIS
40	BT	96	TYR
40	BT	111	ARG
40	BT	127	ILE
40	BT	131	LYS
41	BU	17	TYR
41	BU	57	ASN
41	BU	68	PHE
41	BU	73	ASN

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Mol	Chain	Res	Type
41	BU	75	ARG
41	BU	86	GLN
42	BV	14	LEU
42	BV	18	LYS
42	BV	25	LEU
42	BV	35	LYS
42	BV	42	ARG
42	BV	59	LYS
42	BV	95	ARG
42	BV	103	LYS
43	BW	3	LEU
43	BW	7	PRO
43	BW	11	LYS
43	BW	16	GLU
43	BW	18	MET
43	BW	29	ASN
43	BW	41	ARG
43	BW	51	LEU
43	BW	74	ARG
43	BW	84	TYR
43	BW	87	THR
43	BW	119	ASN
43	BW	120	LEU
43	BW	125	PRO
43	BW	128	ARG
43	BW	133	GLU
43	BW	142	ASN
43	BW	143	ILE
43	BW	145	ASP
43	BW	153	LYS
43	BW	155	PRO
43	BW	168	VAL
44	BX	5	LYS
44	BX	7	VAL
44	BX	21	LEU
44	BX	25	LYS
44	BX	29	GLU
44	BX	32	LYS
44	BX	37	LEU
44	BX	39	ARG
44	BX	41	ARG
44	BX	46	LYS

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Mol	Chain	Res	Type
44	BX	49	GLN
44	BX	55	ARG
44	BX	62	LEU
44	BX	74	LYS
44	BX	79	ILE
45	BY	2	LYS
45	BY	10	GLN
45	BY	17	GLU
45	BY	25	LEU
45	BY	30	PHE
45	BY	41	HIS
45	BY	49	GLU
45	BY	52	GLN
45	BY	60	LEU
46	BZ	1	MET
46	BZ	2	LYS
46	BZ	12	ARG
46	BZ	16	GLN
46	BZ	18	LYS
46	BZ	23	LEU
46	BZ	25	LEU
46	BZ	43	MET
46	BZ	48	LYS
46	BZ	51	LEU
47	B1	1	MET
47	B1	2	GLN
47	B1	3	LYS
47	B1	19	GLN
47	B1	22	MET
47	B1	28	ARG
47	B1	30	GLU
47	B1	33	VAL
47	B1	48	ARG
47	B1	53	GLU
47	B1	57	ASP
47	B1	63	PHE
47	B1	72	LYS
48	B2	5	PRO
48	B2	6	VAL
48	B2	9	LYS
48	B2	15	LYS
48	B2	28	PRO

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Mol	Chain	Res	Type
48	B2	29	ASN
48	B2	31	THR
48	B2	33	CYS
48	B2	47	PRO
48	B2	49	CYS
48	B2	56	GLN
48	B2	58	LEU
49	B3	9	ILE
49	B3	11	LYS
49	B3	20	PHE
49	B3	21	TYR
49	B3	27	ASN
49	B3	32	GLN
49	B3	34	LYS
49	B3	38	LYS
49	B3	39	LYS
49	B3	42	PRO
49	B3	43	VAL
49	B3	45	LYS
49	B3	48	VAL
50	B4	1	MET
50	B4	8	ASN
50	B4	11	LYS
50	B4	12	ARG
50	B4	15	THR
50	B4	22	MET
50	B4	23	LYS
50	B4	25	LYS
50	B4	35	ARG
50	B4	37	LYS
50	B4	41	GLN
51	B5	13	ARG
51	B5	23	MET
51	B5	25	PHE
51	B5	26	LYS
51	B5	32	GLN
51	B5	33	ASN
51	B5	36	LYS
51	B5	41	ILE
51	B5	44	LYS
51	B5	46	LYS
51	B5	52	LYS

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Mol	Chain	Res	Type
51	B5	57	ARG
51	B5	59	LYS
51	B5	63	PRO
51	B5	64	ARG
52	B6	2	LYS
52	B6	19	ARG
52	B6	29	ASN
52	B6	32	HIS
53	B7	32	ILE
53	B7	71	GLU
53	B7	75	TYR
53	B7	82	LYS
53	B7	151	PHE
53	B7	158	LYS
53	B7	164	GLN
53	B7	172	GLU
53	B7	173	ASP
53	B7	195	LYS
53	B7	199	ASN
53	B7	201	ARG
2	CB	8	LYS
2	CB	9	GLU
2	CB	16	HIS
2	CB	23	ARG
2	CB	30	ARG
2	CB	37	ASN
2	CB	90	MET
2	CB	95	GLN
2	CB	96	ARG
2	CB	101	MET
2	CB	106	LYS
2	CB	113	HIS
2	CB	144	ARG
2	CB	155	LEU
2	CB	158	LEU
2	CB	163	PHE
2	CB	175	ARG
2	CB	190	THR
2	CB	199	TYR
2	CB	204	ASN
2	CB	230	VAL
2	CB	232	PRO

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Mol	Chain	Res	Type
2	CB	236	TYR
3	CC	3	ASN
3	CC	35	GLU
3	CC	56	ASP
3	CC	62	ASP
3	CC	91	LEU
3	CC	139	GLN
3	CC	140	ARG
3	CC	167	TRP
3	CC	176	HIS
3	CC	190	ARG
4	CD	11	LEU
4	CD	20	TYR
4	CD	53	ASP
4	CD	57	ARG
4	CD	61	LYS
4	CD	93	PHE
4	CD	107	ARG
4	CD	122	ARG
4	CD	135	LEU
4	CD	150	GLU
4	CD	152	SER
4	CD	157	LEU
4	CD	161	ASN
4	CD	168	ARG
4	CD	173	TRP
4	CD	174	LEU
4	CD	196	LEU
4	CD	199	ASN
4	CD	200	GLU
4	CD	201	GLN
4	CD	202	LEU
4	CD	205	GLU
4	CD	207	TYR
5	CE	10	MET
5	CE	12	LEU
5	CE	19	MET
5	CE	63	ARG
5	CE	64	ARG
5	CE	73	ASN
5	CE	78	HIS
5	CE	89	ILE

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Mol	Chain	Res	Type
5	CE	150	ARG
6	CF	10	LEU
6	CF	13	ASN
6	CF	32	ASN
6	CF	33	TYR
6	CF	36	ARG
6	CF	43	LEU
6	CF	57	GLN
6	CF	74	ASP
6	CF	98	LEU
7	CG	3	ARG
7	CG	37	ASN
7	CG	89	MET
7	CG	94	ARG
7	CG	98	SER
7	CG	106	GLN
7	CG	115	ARG
7	CG	122	HIS
7	CG	126	ASP
7	CG	136	LYS
7	CG	154	TYR
8	CH	25	ASP
8	CH	31	PHE
8	CH	41	ARG
8	CH	56	LYS
8	CH	91	ARG
8	CH	127	LEU
9	CI	10	ARG
9	CI	19	LEU
9	CI	25	LYS
9	CI	47	LEU
9	CI	48	GLU
9	CI	59	PHE
9	CI	60	ASP
9	CI	75	ASP
9	CI	102	LEU
9	CI	111	ARG
9	CI	121	ARG
10	CJ	9	ARG
10	CJ	55	LYS
10	CJ	56	HIS
10	CJ	64	GLU

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Mol	Chain	Res	Type
10	CJ	71	LEU
10	CJ	79	ARG
10	CJ	95	GLU
11	CK	26	ASN
11	CK	57	THR
11	CK	59	TYR
11	CK	73	MET
11	CK	81	ASP
11	CK	85	ARG
11	CK	91	ARG
11	CK	123	LYS
11	CK	125	PHE
11	CK	126	ARG
12	CL	33	ARG
12	CL	53	ARG
12	CL	67	THR
12	CL	73	GLU
12	CL	89	ARG
12	CL	90	VAL
13	CM	3	ARG
13	CM	21	TYR
13	CM	46	LYS
13	CM	49	THR
13	CM	56	LEU
13	CM	62	ASN
13	CM	70	LEU
13	CM	80	ARG
13	CM	81	LEU
13	CM	98	VAL
13	CM	109	THR
13	CM	110	ARG
13	CM	124	PRO
13	CM	125	ARG
14	CN	8	GLU
14	CN	18	VAL
14	CN	44	LEU
14	CN	46	GLU
14	CN	53	LEU
15	CO	5	LYS
15	CO	35	ARG
15	CO	38	ARG
15	CO	39	LEU

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Mol	Chain	Res	Type
16	CP	9	PHE
16	CP	38	TYR
16	CP	48	TRP
16	CP	55	ARG
17	CQ	27	PHE
17	CQ	34	LYS
17	CQ	60	ILE
17	CQ	69	LYS
17	CQ	84	LEU
17	CQ	95	TYR
17	CQ	98	LEU
17	CQ	101	ARG
18	CR	35	ARG
18	CR	38	GLU
18	CR	42	ARG
18	CR	44	LEU
18	CR	53	ARG
18	CR	54	ARG
18	CR	81	PHE
19	CS	5	LEU
19	CS	7	LYS
19	CS	12	ASP
19	CS	14	HIS
19	CS	32	LYS
19	CS	36	ARG
19	CS	38	SER
19	CS	43	GLU
19	CS	52	TYR
20	CT	13	LEU
20	CT	23	ARG
20	CT	53	LEU
21	Ca	7	LYS
21	Ca	8	GLN
21	Ca	9	MET
21	Ca	25	LYS
21	Ca	27	GLU
21	Ca	28	LYS
21	Ca	30	GLN
21	Ca	32	HIS
21	Ca	37	HIS
21	Ca	45	GLN
21	Ca	63	SER

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Mol	Chain	Res	Type
21	Ca	74	ASN
21	Ca	76	LEU
21	Ca	78	ASN
21	Ca	79	LYS
21	Ca	82	ARG
21	Ca	85	ASN
21	Ca	90	LYS
24	DD	4	LYS
24	DD	27	LYS
24	DD	33	LEU
24	DD	35	GLU
24	DD	37	LEU
24	DD	38	PRO
24	DD	43	ARG
24	DD	48	ARG
24	DD	52	ARG
24	DD	60	ARG
24	DD	70	ARG
24	DD	72	LYS
24	DD	76	ASN
24	DD	78	LYS
24	DD	88	ARG
24	DD	91	ARG
24	DD	94	LEU
24	DD	95	LEU
24	DD	105	ILE
24	DD	118	ASN
24	DD	121	PRO
24	DD	124	GLU
24	DD	127	LEU
24	DD	133	LEU
24	DD	142	VAL
24	DD	148	VAL
24	DD	151	LYS
24	DD	154	GLN
24	DD	155	LEU
24	DD	177	LEU
24	DD	178	PRO
24	DD	213	ARG
24	DD	219	PRO
24	DD	228	PRO
24	DD	233	HIS

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Mol	Chain	Res	Type
24	DD	239	ARG
24	DD	244	ARG
24	DD	249	PRO
24	DD	252	LYS
24	DD	257	LEU
24	DD	261	ARG
24	DD	265	THR
24	DD	268	ARG
24	DD	270	ILE
25	DE	5	LEU
25	DE	14	ILE
25	DE	22	PRO
25	DE	27	LEU
25	DE	40	GLN
25	DE	53	PRO
25	DE	58	LYS
25	DE	67	PHE
25	DE	72	VAL
25	DE	92	ASN
25	DE	94	ASP
25	DE	95	ILE
25	DE	109	LYS
25	DE	111	LYS
25	DE	118	LYS
25	DE	119	ARG
25	DE	132	LYS
25	DE	136	ARG
25	DE	144	ARG
25	DE	151	TYR
25	DE	152	LYS
25	DE	155	ARG
25	DE	169	ASN
25	DE	192	ASN
25	DE	199	ARG
26	DF	10	ASN
26	DF	40	ARG
26	DF	56	ARG
26	DF	58	MET
26	DF	61	GLN
26	DF	87	LYS
26	DF	88	PRO
26	DF	104	LEU

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Mol	Chain	Res	Type
26	DF	111	ARG
26	DF	116	LYS
26	DF	121	ASP
26	DF	127	ASP
26	DF	136	TRP
26	DF	140	ASN
26	DF	143	ASP
26	DF	176	ASN
26	DF	179	ASP
26	DF	185	ARG
27	DG	6	THR
27	DG	9	ASN
27	DG	12	VAL
27	DG	13	ARG
27	DG	17	MET
27	DG	18	GLN
27	DG	19	GLN
27	DG	30	ARG
27	DG	34	ILE
27	DG	63	GLN
27	DG	64	LYS
27	DG	68	THR
27	DG	72	LYS
27	DG	76	ASN
27	DG	78	LYS
27	DG	85	VAL
27	DG	92	ARG
27	DG	114	PHE
27	DG	118	ASN
27	DG	127	ASN
27	DG	130	LEU
27	DG	133	LYS
27	DG	134	GLU
27	DG	139	PRO
27	DG	143	TYR
27	DG	148	LYS
27	DG	149	THR
27	DG	152	MET
27	DG	156	ILE
27	DG	158	THR
27	DG	167	ARG
27	DG	179	LYS

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Mol	Chain	Res	Type
28	DH	6	LYS
28	DH	21	ASP
28	DH	27	LYS
28	DH	33	LEU
28	DH	35	VAL
28	DH	36	PRO
28	DH	53	GLU
28	DH	57	ASP
28	DH	69	ARG
28	DH	77	LYS
28	DH	83	TYR
28	DH	89	LEU
28	DH	94	PHE
28	DH	98	LEU
28	DH	107	ILE
28	DH	115	ILE
28	DH	126	PRO
28	DH	130	ARG
28	DH	137	ASP
28	DH	151	VAL
28	DH	160	LYS
29	DI	2	GLN
29	DI	8	PRO
29	DI	16	GLU
29	DI	24	TYR
29	DI	46	LEU
30	DJ	18	THR
30	DJ	21	PRO
30	DJ	22	PRO
30	DJ	23	VAL
30	DJ	39	LYS
30	DJ	42	ASN
30	DJ	48	LYS
30	DJ	71	THR
30	DJ	91	PRO
30	DJ	115	LEU
30	DJ	125	ASN
30	DJ	142	PRO
31	DK	30	LYS
31	DK	51	LEU
31	DK	57	LEU
31	DK	63	ARG

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Mol	Chain	Res	Type
31	DK	75	ILE
31	DK	94	LYS
31	DK	97	ASP
31	DK	107	GLN
31	DK	110	LEU
31	DK	123	PRO
31	DK	139	ARG
31	DK	142	ARG
31	DK	147	ARG
31	DK	156	HIS
31	DK	157	PRO
31	DK	163	PRO
31	DK	167	LYS
32	DL	2	ILE
32	DL	3	MET
32	DL	22	ILE
32	DL	23	ARG
32	DL	43	ARG
32	DL	44	TYR
32	DL	49	ASP
32	DL	61	ARG
32	DL	69	VAL
32	DL	83	ARG
32	DL	102	GLN
32	DL	105	PRO
32	DL	121	ARG
33	DM	7	LYS
33	DM	8	PRO
33	DM	9	THR
33	DM	34	HIS
33	DM	35	LYS
33	DM	45	LYS
33	DM	50	GLU
33	DM	56	LEU
33	DM	59	ARG
33	DM	62	LYS
33	DM	63	ARG
33	DM	66	ASN
33	DM	72	TYR
33	DM	79	GLN
33	DM	101	ARG
33	DM	105	PRO

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Mol	Chain	Res	Type
33	DM	107	LYS
33	DM	139	ARG
33	DM	140	VAL
33	DM	143	PRO
34	DN	9	LYS
34	DN	10	PHE
34	DN	12	LYS
34	DN	13	GLN
34	DN	26	ASP
34	DN	36	ILE
34	DN	42	TRP
34	DN	47	GLN
34	DN	52	ARG
34	DN	55	MET
34	DN	58	HIS
34	DN	60	ARG
34	DN	61	ARG
34	DN	73	LYS
34	DN	74	PRO
34	DN	94	TRP
34	DN	100	PRO
34	DN	102	ARG
34	DN	104	MET
34	DN	112	GLU
34	DN	114	GLN
34	DN	120	ARG
34	DN	125	LYS
34	DN	131	LYS
35	DO	3	HIS
35	DO	5	LYS
35	DO	37	THR
35	DO	38	LEU
35	DO	39	THR
35	DO	52	ILE
35	DO	63	ARG
35	DO	68	GLN
35	DO	80	MET
35	DO	87	TYR
35	DO	99	ARG
35	DO	110	MET
35	DO	112	LEU
36	DP	8	ARG

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Mol	Chain	Res	Type
36	DP	11	LEU
36	DP	12	ARG
36	DP	29	LEU
36	DP	63	ASN
36	DP	64	LYS
36	DP	94	TYR
36	DP	96	TYR
36	DP	97	HIS
37	DQ	5	ILE
37	DQ	11	GLU
37	DQ	20	HIS
37	DQ	23	GLN
37	DQ	25	PRO
37	DQ	38	LYS
37	DQ	43	ASN
37	DQ	50	PHE
37	DQ	55	ILE
37	DQ	58	ASN
37	DQ	63	ARG
37	DQ	90	GLN
37	DQ	103	LYS
37	DQ	105	TYR
37	DQ	108	ARG
37	DQ	126	LYS
38	DR	15	LYS
38	DR	20	ARG
38	DR	32	TYR
38	DR	33	ARG
38	DR	46	GLU
38	DR	49	ASP
38	DR	50	ARG
38	DR	56	ASP
38	DR	63	GLN
38	DR	64	ARG
38	DR	71	LEU
38	DR	92	ARG
38	DR	109	LEU
38	DR	111	ASP
39	DS	10	LYS
39	DS	25	LEU
39	DS	28	GLU
39	DS	50	ASP

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Mol	Chain	Res	Type
39	DS	67	LYS
39	DS	73	LYS
39	DS	82	ARG
39	DS	83	ARG
39	DS	96	LEU
40	DT	11	LYS
40	DT	15	LYS
40	DT	25	PHE
40	DT	39	ARG
40	DT	61	PRO
40	DT	67	PRO
40	DT	70	LYS
40	DT	73	ASN
40	DT	81	HIS
40	DT	96	TYR
40	DT	111	ARG
40	DT	127	ILE
40	DT	131	LYS
41	DU	17	TYR
41	DU	57	ASN
41	DU	68	PHE
41	DU	73	ASN
41	DU	75	ARG
41	DU	86	GLN
42	DV	14	LEU
42	DV	18	LYS
42	DV	25	LEU
42	DV	35	LYS
42	DV	42	ARG
42	DV	59	LYS
42	DV	95	ARG
42	DV	103	LYS
43	DW	3	LEU
43	DW	7	PRO
43	DW	11	LYS
43	DW	16	GLU
43	DW	18	MET
43	DW	29	ASN
43	DW	41	ARG
43	DW	51	LEU
43	DW	74	ARG
43	DW	84	TYR

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Mol	Chain	Res	Type
43	DW	87	THR
43	DW	119	ASN
43	DW	120	LEU
43	DW	125	PRO
43	DW	128	ARG
43	DW	133	GLU
43	DW	142	ASN
43	DW	143	ILE
43	DW	145	ASP
43	DW	153	LYS
43	DW	155	PRO
43	DW	168	VAL
44	DX	5	LYS
44	DX	7	VAL
44	DX	21	LEU
44	DX	25	LYS
44	DX	29	GLU
44	DX	32	LYS
44	DX	37	LEU
44	DX	39	ARG
44	DX	41	ARG
44	DX	46	LYS
44	DX	49	GLN
44	DX	55	ARG
44	DX	62	LEU
44	DX	74	LYS
44	DX	79	ILE
45	DY	2	LYS
45	DY	10	GLN
45	DY	17	GLU
45	DY	25	LEU
45	DY	30	PHE
45	DY	41	HIS
45	DY	49	GLU
45	DY	52	GLN
45	DY	60	LEU
46	DZ	1	MET
46	DZ	2	LYS
46	DZ	12	ARG
46	DZ	16	GLN
46	DZ	18	LYS
46	DZ	23	LEU

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Mol	Chain	Res	Type
46	DZ	25	LEU
46	DZ	43	MET
46	DZ	48	LYS
46	DZ	51	LEU
47	D1	1	MET
47	D1	2	GLN
47	D1	3	LYS
47	D1	19	GLN
47	D1	22	MET
47	D1	28	ARG
47	D1	30	GLU
47	D1	33	VAL
47	D1	48	ARG
47	D1	53	GLU
47	D1	57	ASP
47	D1	63	PHE
47	D1	72	LYS
48	D2	5	PRO
48	D2	6	VAL
48	D2	9	LYS
48	D2	15	LYS
48	D2	28	PRO
48	D2	29	ASN
48	D2	31	THR
48	D2	33	CYS
48	D2	47	PRO
48	D2	49	CYS
48	D2	56	GLN
48	D2	58	LEU
49	D3	9	ILE
49	D3	11	LYS
49	D3	20	PHE
49	D3	21	TYR
49	D3	27	ASN
49	D3	32	GLN
49	D3	34	LYS
49	D3	38	LYS
49	D3	39	LYS
49	D3	42	PRO
49	D3	43	VAL
49	D3	45	LYS
49	D3	48	VAL

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Mol	Chain	Res	Type
50	D4	1	MET
50	D4	8	ASN
50	D4	11	LYS
50	D4	12	ARG
50	D4	15	THR
50	D4	22	MET
50	D4	23	LYS
50	D4	25	LYS
50	D4	35	ARG
50	D4	37	LYS
50	D4	41	GLN
51	D5	13	ARG
51	D5	23	MET
51	D5	25	PHE
51	D5	26	LYS
51	D5	32	GLN
51	D5	33	ASN
51	D5	36	LYS
51	D5	41	ILE
51	D5	44	LYS
51	D5	46	LYS
51	D5	52	LYS
51	D5	57	ARG
51	D5	59	LYS
51	D5	63	PRO
51	D5	64	ARG
52	D6	2	LYS
52	D6	19	ARG
52	D6	29	ASN
52	D6	32	HIS
53	D7	32	ILE
53	D7	71	GLU
53	D7	75	TYR
53	D7	82	LYS
53	D7	151	PHE
53	D7	158	LYS
53	D7	164	GLN
53	D7	172	GLU
53	D7	173	ASP
53	D7	195	LYS
53	D7	199	ASN
53	D7	201	ARG

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Mol	Chain	Res	Type
2	EB	8	LYS
2	EB	9	GLU
2	EB	16	HIS
2	EB	23	ARG
2	EB	30	ARG
2	EB	37	ASN
2	EB	90	MET
2	EB	95	GLN
2	EB	96	ARG
2	EB	101	MET
2	EB	106	LYS
2	EB	113	HIS
2	EB	144	ARG
2	EB	155	LEU
2	EB	158	LEU
2	EB	163	PHE
2	EB	175	ARG
2	EB	190	THR
2	EB	199	TYR
2	EB	204	ASN
2	EB	230	VAL
2	EB	232	PRO
2	EB	236	TYR
3	EC	3	ASN
3	EC	35	GLU
3	EC	56	ASP
3	EC	62	ASP
3	EC	91	LEU
3	EC	139	GLN
3	EC	140	ARG
3	EC	167	TRP
3	EC	176	HIS
3	EC	190	ARG
4	ED	11	LEU
4	ED	20	TYR
4	ED	53	ASP
4	ED	57	ARG
4	ED	61	LYS
4	ED	93	PHE
4	ED	107	ARG
4	ED	122	ARG
4	ED	135	LEU

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Mol	Chain	Res	Type
4	ED	150	GLU
4	ED	152	SER
4	ED	157	LEU
4	ED	161	ASN
4	ED	168	ARG
4	ED	173	TRP
4	ED	174	LEU
4	ED	196	LEU
4	ED	199	ASN
4	ED	200	GLU
4	ED	201	GLN
4	ED	202	LEU
4	ED	205	GLU
4	ED	207	TYR
5	EE	10	MET
5	EE	12	LEU
5	EE	19	MET
5	EE	63	ARG
5	EE	64	ARG
5	EE	73	ASN
5	EE	78	HIS
5	EE	89	ILE
5	EE	150	ARG
6	EF	10	LEU
6	EF	13	ASN
6	EF	32	ASN
6	EF	33	TYR
6	EF	36	ARG
6	EF	43	LEU
6	EF	57	GLN
6	EF	98	LEU
7	EG	3	ARG
7	EG	37	ASN
7	EG	89	MET
7	EG	94	ARG
7	EG	98	SER
7	EG	106	GLN
7	EG	115	ARG
7	EG	122	HIS
7	EG	126	ASP
7	EG	136	LYS
7	EG	154	TYR

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Mol	Chain	Res	Type
8	EH	25	ASP
8	EH	31	PHE
8	EH	41	ARG
8	EH	56	LYS
8	EH	91	ARG
8	EH	127	LEU
9	EI	19	LEU
9	EI	25	LYS
9	EI	47	LEU
9	EI	48	GLU
9	EI	59	PHE
9	EI	60	ASP
9	EI	75	ASP
9	EI	102	LEU
9	EI	111	ARG
9	EI	121	ARG
10	EJ	9	ARG
10	EJ	55	LYS
10	EJ	56	HIS
10	EJ	64	GLU
10	EJ	71	LEU
10	EJ	79	ARG
10	EJ	95	GLU
11	EK	26	ASN
11	EK	57	THR
11	EK	59	TYR
11	EK	73	MET
11	EK	81	ASP
11	EK	85	ARG
11	EK	91	ARG
11	EK	123	LYS
11	EK	125	PHE
11	EK	126	ARG
12	EL	33	ARG
12	EL	53	ARG
12	EL	67	THR
12	EL	73	GLU
12	EL	89	ARG
12	EL	90	VAL
13	EM	3	ARG
13	EM	21	TYR
13	EM	46	LYS

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Mol	Chain	Res	Type
13	EM	49	THR
13	EM	56	LEU
13	EM	62	ASN
13	EM	70	LEU
13	EM	80	ARG
13	EM	81	LEU
13	EM	98	VAL
13	EM	109	THR
13	EM	110	ARG
13	EM	124	PRO
13	EM	125	ARG
14	EN	8	GLU
14	EN	18	VAL
14	EN	44	LEU
14	EN	46	GLU
14	EN	53	LEU
15	EO	5	LYS
15	EO	35	ARG
15	EO	38	ARG
15	EO	39	LEU
16	EP	9	PHE
16	EP	38	TYR
16	EP	48	TRP
16	EP	55	ARG
17	EQ	27	PHE
17	EQ	34	LYS
17	EQ	60	ILE
17	EQ	69	LYS
17	EQ	84	LEU
17	EQ	95	TYR
17	EQ	98	LEU
17	EQ	101	ARG
18	ER	35	ARG
18	ER	38	GLU
18	ER	42	ARG
18	ER	44	LEU
18	ER	53	ARG
18	ER	54	ARG
18	ER	81	PHE
19	ES	5	LEU
19	ES	7	LYS
19	ES	12	ASP

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Mol	Chain	Res	Type
19	ES	14	HIS
19	ES	32	LYS
19	ES	36	ARG
19	ES	38	SER
19	ES	43	GLU
19	ES	52	TYR
20	ET	13	LEU
20	ET	23	ARG
20	ET	53	LEU
21	Ea	7	LYS
21	Ea	8	GLN
21	Ea	9	MET
21	Ea	25	LYS
21	Ea	27	GLU
21	Ea	28	LYS
21	Ea	30	GLN
21	Ea	32	HIS
21	Ea	37	HIS
21	Ea	45	GLN
21	Ea	63	SER
21	Ea	74	ASN
21	Ea	76	LEU
21	Ea	78	ASN
21	Ea	79	LYS
21	Ea	82	ARG
21	Ea	85	ASN
21	Ea	90	LYS
24	FD	4	LYS
24	FD	27	LYS
24	FD	33	LEU
24	FD	35	GLU
24	FD	37	LEU
24	FD	38	PRO
24	FD	43	ARG
24	FD	48	ARG
24	FD	52	ARG
24	FD	60	ARG
24	FD	70	ARG
24	FD	72	LYS
24	FD	76	ASN
24	FD	78	LYS
24	FD	88	ARG

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Mol	Chain	Res	Type
24	FD	91	ARG
24	FD	94	LEU
24	FD	95	LEU
24	FD	105	ILE
24	FD	118	ASN
24	FD	121	PRO
24	FD	124	GLU
24	FD	127	LEU
24	FD	133	LEU
24	FD	142	VAL
24	FD	148	VAL
24	FD	151	LYS
24	FD	154	GLN
24	FD	155	LEU
24	FD	177	LEU
24	FD	178	PRO
24	FD	213	ARG
24	FD	219	PRO
24	FD	228	PRO
24	FD	233	HIS
24	FD	239	ARG
24	FD	244	ARG
24	FD	249	PRO
24	FD	252	LYS
24	FD	257	LEU
24	FD	261	ARG
24	FD	265	THR
24	FD	268	ARG
24	FD	270	ILE
25	FE	5	LEU
25	FE	14	ILE
25	FE	22	PRO
25	FE	27	LEU
25	FE	40	GLN
25	FE	53	PRO
25	FE	58	LYS
25	FE	67	PHE
25	FE	72	VAL
25	FE	92	ASN
25	FE	94	ASP
25	FE	95	ILE
25	FE	109	LYS

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Mol	Chain	Res	Type
25	FE	111	LYS
25	FE	118	LYS
25	FE	119	ARG
25	FE	132	LYS
25	FE	136	ARG
25	FE	144	ARG
25	FE	151	TYR
25	FE	155	ARG
25	FE	169	ASN
25	FE	192	ASN
25	FE	199	ARG
26	FF	10	ASN
26	FF	40	ARG
26	FF	56	ARG
26	FF	58	MET
26	FF	61	GLN
26	FF	87	LYS
26	FF	88	PRO
26	FF	104	LEU
26	FF	111	ARG
26	FF	116	LYS
26	FF	121	ASP
26	FF	127	ASP
26	FF	136	TRP
26	FF	140	ASN
26	FF	143	ASP
26	FF	176	ASN
26	FF	179	ASP
26	FF	185	ARG
27	FG	6	THR
27	FG	9	ASN
27	FG	12	VAL
27	FG	13	ARG
27	FG	17	MET
27	FG	18	GLN
27	FG	19	GLN
27	FG	30	ARG
27	FG	34	ILE
27	FG	63	GLN
27	FG	64	LYS
27	FG	68	THR
27	FG	72	LYS

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Mol	Chain	Res	Type
27	FG	76	ASN
27	FG	78	LYS
27	FG	85	VAL
27	FG	92	ARG
27	FG	114	PHE
27	FG	118	ASN
27	FG	127	ASN
27	FG	130	LEU
27	FG	133	LYS
27	FG	134	GLU
27	FG	139	PRO
27	FG	143	TYR
27	FG	148	LYS
27	FG	149	THR
27	FG	152	MET
27	FG	156	ILE
27	FG	158	THR
27	FG	167	ARG
27	FG	179	LYS
28	FH	6	LYS
28	FH	21	ASP
28	FH	27	LYS
28	FH	33	LEU
28	FH	35	VAL
28	FH	36	PRO
28	FH	53	GLU
28	FH	57	ASP
28	FH	69	ARG
28	FH	77	LYS
28	FH	83	TYR
28	FH	89	LEU
28	FH	94	PHE
28	FH	98	LEU
28	FH	107	ILE
28	FH	115	ILE
28	FH	126	PRO
28	FH	130	ARG
28	FH	137	ASP
28	FH	151	VAL
28	FH	160	LYS
29	FI	2	GLN
29	FI	8	PRO

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Mol	Chain	Res	Type
29	FI	16	GLU
29	FI	24	TYR
29	FI	46	LEU
30	FJ	18	THR
30	FJ	21	PRO
30	FJ	22	PRO
30	FJ	23	VAL
30	FJ	39	LYS
30	FJ	42	ASN
30	FJ	48	LYS
30	FJ	71	THR
30	FJ	91	PRO
30	FJ	115	LEU
30	FJ	125	ASN
30	FJ	142	PRO
31	FK	30	LYS
31	FK	51	LEU
31	FK	57	LEU
31	FK	63	ARG
31	FK	75	ILE
31	FK	94	LYS
31	FK	97	ASP
31	FK	107	GLN
31	FK	110	LEU
31	FK	123	PRO
31	FK	139	ARG
31	FK	142	ARG
31	FK	147	ARG
31	FK	156	HIS
31	FK	157	PRO
31	FK	163	PRO
31	FK	167	LYS
32	FL	2	ILE
32	FL	3	MET
32	FL	22	ILE
32	FL	23	ARG
32	FL	43	ARG
32	FL	44	TYR
32	FL	49	ASP
32	FL	61	ARG
32	FL	69	VAL
32	FL	83	ARG

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Mol	Chain	Res	Type
32	FL	102	GLN
32	FL	105	PRO
32	FL	121	ARG
33	FM	7	LYS
33	FM	8	PRO
33	FM	9	THR
33	FM	34	HIS
33	FM	35	LYS
33	FM	45	LYS
33	FM	50	GLU
33	FM	56	LEU
33	FM	59	ARG
33	FM	62	LYS
33	FM	63	ARG
33	FM	66	ASN
33	FM	72	TYR
33	FM	79	GLN
33	FM	101	ARG
33	FM	105	PRO
33	FM	107	LYS
33	FM	139	ARG
33	FM	140	VAL
33	FM	143	PRO
34	FN	9	LYS
34	FN	10	PHE
34	FN	12	LYS
34	FN	13	GLN
34	FN	26	ASP
34	FN	36	ILE
34	FN	42	TRP
34	FN	47	GLN
34	FN	52	ARG
34	FN	55	MET
34	FN	58	HIS
34	FN	60	ARG
34	FN	61	ARG
34	FN	73	LYS
34	FN	74	PRO
34	FN	94	TRP
34	FN	100	PRO
34	FN	102	ARG
34	FN	104	MET

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Mol	Chain	Res	Type
34	FN	112	GLU
34	FN	114	GLN
34	FN	120	ARG
34	FN	125	LYS
34	FN	131	LYS
35	FO	3	HIS
35	FO	5	LYS
35	FO	37	THR
35	FO	38	LEU
35	FO	39	THR
35	FO	52	ILE
35	FO	63	ARG
35	FO	68	GLN
35	FO	80	MET
35	FO	87	TYR
35	FO	99	ARG
35	FO	110	MET
35	FO	112	LEU
36	FP	8	ARG
36	FP	11	LEU
36	FP	12	ARG
36	FP	29	LEU
36	FP	63	ASN
36	FP	64	LYS
36	FP	94	TYR
36	FP	96	TYR
36	FP	97	HIS
37	FQ	5	ILE
37	FQ	11	GLU
37	FQ	20	HIS
37	FQ	23	GLN
37	FQ	25	PRO
37	FQ	38	LYS
37	FQ	43	ASN
37	FQ	50	PHE
37	FQ	55	ILE
37	FQ	58	ASN
37	FQ	63	ARG
37	FQ	90	GLN
37	FQ	103	LYS
37	FQ	105	TYR
37	FQ	108	ARG

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Mol	Chain	Res	Type
37	FQ	126	LYS
38	FR	15	LYS
38	FR	20	ARG
38	FR	32	TYR
38	FR	33	ARG
38	FR	46	GLU
38	FR	49	ASP
38	FR	50	ARG
38	FR	56	ASP
38	FR	63	GLN
38	FR	64	ARG
38	FR	71	LEU
38	FR	92	ARG
38	FR	109	LEU
38	FR	111	ASP
39	FS	10	LYS
39	FS	25	LEU
39	FS	28	GLU
39	FS	50	ASP
39	FS	67	LYS
39	FS	73	LYS
39	FS	82	ARG
39	FS	83	ARG
39	FS	96	LEU
40	FT	11	LYS
40	FT	15	LYS
40	FT	25	PHE
40	FT	39	ARG
40	FT	61	PRO
40	FT	67	PRO
40	FT	70	LYS
40	FT	73	ASN
40	FT	81	HIS
40	FT	96	TYR
40	FT	111	ARG
40	FT	127	ILE
40	FT	131	LYS
41	FU	17	TYR
41	FU	57	ASN
41	FU	68	PHE
41	FU	73	ASN
41	FU	75	ARG

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Mol	Chain	Res	Type
41	FU	86	GLN
42	FV	14	LEU
42	FV	18	LYS
42	FV	25	LEU
42	FV	35	LYS
42	FV	42	ARG
42	FV	59	LYS
42	FV	95	ARG
42	FV	103	LYS
43	FW	3	LEU
43	FW	7	PRO
43	FW	11	LYS
43	FW	16	GLU
43	FW	18	MET
43	FW	29	ASN
43	FW	41	ARG
43	FW	51	LEU
43	FW	74	ARG
43	FW	84	TYR
43	FW	87	THR
43	FW	119	ASN
43	FW	120	LEU
43	FW	125	PRO
43	FW	128	ARG
43	FW	133	GLU
43	FW	142	ASN
43	FW	143	ILE
43	FW	145	ASP
43	FW	153	LYS
43	FW	155	PRO
43	FW	168	VAL
44	FX	5	LYS
44	FX	7	VAL
44	FX	21	LEU
44	FX	25	LYS
44	FX	29	GLU
44	FX	32	LYS
44	FX	37	LEU
44	FX	39	ARG
44	FX	41	ARG
44	FX	46	LYS
44	FX	49	GLN

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Mol	Chain	Res	Type
44	FX	55	ARG
44	FX	62	LEU
44	FX	69	PHE
44	FX	74	LYS
44	FX	79	ILE
45	FY	2	LYS
45	FY	10	GLN
45	FY	17	GLU
45	FY	25	LEU
45	FY	30	PHE
45	FY	41	HIS
45	FY	49	GLU
45	FY	52	GLN
45	FY	60	LEU
46	FZ	1	MET
46	FZ	2	LYS
46	FZ	12	ARG
46	FZ	16	GLN
46	FZ	18	LYS
46	FZ	23	LEU
46	FZ	25	LEU
46	FZ	43	MET
46	FZ	48	LYS
46	FZ	51	LEU
47	F1	1	MET
47	F1	2	GLN
47	F1	3	LYS
47	F1	19	GLN
47	F1	22	MET
47	F1	28	ARG
47	F1	30	GLU
47	F1	33	VAL
47	F1	48	ARG
47	F1	53	GLU
47	F1	57	ASP
47	F1	63	PHE
47	F1	72	LYS
48	F2	5	PRO
48	F2	6	VAL
48	F2	9	LYS
48	F2	15	LYS
48	F2	28	PRO

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Mol	Chain	Res	Type
48	F2	29	ASN
48	F2	31	THR
48	F2	33	CYS
48	F2	47	PRO
48	F2	49	CYS
48	F2	56	GLN
48	F2	58	LEU
49	F3	9	ILE
49	F3	11	LYS
49	F3	20	PHE
49	F3	21	TYR
49	F3	27	ASN
49	F3	32	GLN
49	F3	34	LYS
49	F3	38	LYS
49	F3	39	LYS
49	F3	42	PRO
49	F3	43	VAL
49	F3	45	LYS
49	F3	48	VAL
50	F4	1	MET
50	F4	8	ASN
50	F4	11	LYS
50	F4	12	ARG
50	F4	15	THR
50	F4	22	MET
50	F4	23	LYS
50	F4	25	LYS
50	F4	35	ARG
50	F4	37	LYS
50	F4	41	GLN
51	F5	13	ARG
51	F5	23	MET
51	F5	25	PHE
51	F5	26	LYS
51	F5	32	GLN
51	F5	33	ASN
51	F5	36	LYS
51	F5	41	ILE
51	F5	44	LYS
51	F5	46	LYS
51	F5	52	LYS

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Mol	Chain	Res	Type
51	F5	57	ARG
51	F5	59	LYS
51	F5	63	PRO
51	F5	64	ARG
52	F6	2	LYS
52	F6	19	ARG
52	F6	29	ASN
52	F6	32	HIS
53	F7	32	ILE
53	F7	71	GLU
53	F7	75	TYR
53	F7	82	LYS
53	F7	151	PHE
53	F7	158	LYS
53	F7	164	GLN
53	F7	172	GLU
53	F7	173	ASP
53	F7	195	LYS
53	F7	199	ASN
53	F7	201	ARG
2	GB	8	LYS
2	GB	9	GLU
2	GB	16	HIS
2	GB	23	ARG
2	GB	30	ARG
2	GB	37	ASN
2	GB	90	MET
2	GB	95	GLN
2	GB	96	ARG
2	GB	101	MET
2	GB	106	LYS
2	GB	113	HIS
2	GB	144	ARG
2	GB	155	LEU
2	GB	158	LEU
2	GB	163	PHE
2	GB	175	ARG
2	GB	190	THR
2	GB	199	TYR
2	GB	204	ASN
2	GB	230	VAL
2	GB	232	PRO

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Mol	Chain	Res	Type
2	GB	236	TYR
3	GC	3	ASN
3	GC	35	GLU
3	GC	56	ASP
3	GC	62	ASP
3	GC	91	LEU
3	GC	139	GLN
3	GC	140	ARG
3	GC	167	TRP
3	GC	176	HIS
3	GC	190	ARG
4	GD	11	LEU
4	GD	20	TYR
4	GD	53	ASP
4	GD	57	ARG
4	GD	61	LYS
4	GD	93	PHE
4	GD	107	ARG
4	GD	122	ARG
4	GD	135	LEU
4	GD	150	GLU
4	GD	152	SER
4	GD	157	LEU
4	GD	161	ASN
4	GD	168	ARG
4	GD	173	TRP
4	GD	174	LEU
4	GD	196	LEU
4	GD	199	ASN
4	GD	200	GLU
4	GD	201	GLN
4	GD	202	LEU
4	GD	205	GLU
4	GD	207	TYR
5	GE	10	MET
5	GE	12	LEU
5	GE	19	MET
5	GE	63	ARG
5	GE	64	ARG
5	GE	73	ASN
5	GE	78	HIS
5	GE	89	ILE

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Mol	Chain	Res	Type
5	GE	150	ARG
6	GF	10	LEU
6	GF	13	ASN
6	GF	32	ASN
6	GF	33	TYR
6	GF	36	ARG
6	GF	43	LEU
6	GF	57	GLN
6	GF	98	LEU
7	GG	3	ARG
7	GG	37	ASN
7	GG	89	MET
7	GG	94	ARG
7	GG	98	SER
7	GG	106	GLN
7	GG	115	ARG
7	GG	122	HIS
7	GG	126	ASP
7	GG	136	LYS
7	GG	154	TYR
8	GH	25	ASP
8	GH	31	PHE
8	GH	41	ARG
8	GH	56	LYS
8	GH	91	ARG
8	GH	127	LEU
9	GI	10	ARG
9	GI	19	LEU
9	GI	25	LYS
9	GI	47	LEU
9	GI	48	GLU
9	GI	59	PHE
9	GI	60	ASP
9	GI	75	ASP
9	GI	102	LEU
9	GI	111	ARG
9	GI	121	ARG
10	GJ	9	ARG
10	GJ	55	LYS
10	GJ	56	HIS
10	GJ	64	GLU
10	GJ	71	LEU

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Mol	Chain	Res	Type
10	GJ	79	ARG
10	GJ	95	GLU
11	GK	26	ASN
11	GK	57	THR
11	GK	59	TYR
11	GK	73	MET
11	GK	81	ASP
11	GK	85	ARG
11	GK	91	ARG
11	GK	123	LYS
11	GK	125	PHE
11	GK	126	ARG
12	GL	33	ARG
12	GL	53	ARG
12	GL	67	THR
12	GL	73	GLU
12	GL	89	ARG
12	GL	90	VAL
13	GM	3	ARG
13	GM	21	TYR
13	GM	46	LYS
13	GM	49	THR
13	GM	56	LEU
13	GM	62	ASN
13	GM	70	LEU
13	GM	80	ARG
13	GM	81	LEU
13	GM	98	VAL
13	GM	109	THR
13	GM	110	ARG
13	GM	124	PRO
13	GM	125	ARG
14	GN	8	GLU
14	GN	18	VAL
14	GN	44	LEU
14	GN	46	GLU
14	GN	53	LEU
15	GO	5	LYS
15	GO	35	ARG
15	GO	38	ARG
15	GO	39	LEU
16	GP	9	PHE

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Mol	Chain	Res	Type
16	GP	38	TYR
16	GP	48	TRP
16	GP	55	ARG
17	GQ	27	PHE
17	GQ	34	LYS
17	GQ	60	ILE
17	GQ	69	LYS
17	GQ	84	LEU
17	GQ	95	TYR
17	GQ	98	LEU
17	GQ	101	ARG
18	GR	35	ARG
18	GR	38	GLU
18	GR	42	ARG
18	GR	44	LEU
18	GR	53	ARG
18	GR	54	ARG
18	GR	81	PHE
19	GS	5	LEU
19	GS	7	LYS
19	GS	12	ASP
19	GS	14	HIS
19	GS	32	LYS
19	GS	36	ARG
19	GS	38	SER
19	GS	43	GLU
19	GS	52	TYR
20	GT	13	LEU
20	GT	23	ARG
20	GT	53	LEU
21	Ga	7	LYS
21	Ga	8	GLN
21	Ga	9	MET
21	Ga	25	LYS
21	Ga	27	GLU
21	Ga	28	LYS
21	Ga	30	GLN
21	Ga	32	HIS
21	Ga	37	HIS
21	Ga	45	GLN
21	Ga	63	SER
21	Ga	74	ASN

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Mol	Chain	Res	Type
21	Ga	76	LEU
21	Ga	78	ASN
21	Ga	79	LYS
21	Ga	82	ARG
21	Ga	85	ASN
21	Ga	90	LYS
24	HD	4	LYS
24	HD	27	LYS
24	HD	33	LEU
24	HD	35	GLU
24	HD	37	LEU
24	HD	38	PRO
24	HD	43	ARG
24	HD	48	ARG
24	HD	52	ARG
24	HD	60	ARG
24	HD	70	ARG
24	HD	72	LYS
24	HD	76	ASN
24	HD	78	LYS
24	HD	88	ARG
24	HD	91	ARG
24	HD	94	LEU
24	HD	95	LEU
24	HD	105	ILE
24	HD	118	ASN
24	HD	121	PRO
24	HD	124	GLU
24	HD	127	LEU
24	HD	133	LEU
24	HD	142	VAL
24	HD	148	VAL
24	HD	151	LYS
24	HD	154	GLN
24	HD	155	LEU
24	HD	177	LEU
24	HD	178	PRO
24	HD	213	ARG
24	HD	219	PRO
24	HD	228	PRO
24	HD	233	HIS
24	HD	239	ARG

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Mol	Chain	Res	Type
24	HD	244	ARG
24	HD	249	PRO
24	HD	252	LYS
24	HD	257	LEU
24	HD	261	ARG
24	HD	265	THR
24	HD	268	ARG
24	HD	270	ILE
25	HE	5	LEU
25	HE	14	ILE
25	HE	22	PRO
25	HE	27	LEU
25	HE	40	GLN
25	HE	53	PRO
25	HE	58	LYS
25	HE	67	PHE
25	HE	72	VAL
25	HE	92	ASN
25	HE	94	ASP
25	HE	95	ILE
25	HE	109	LYS
25	HE	111	LYS
25	HE	118	LYS
25	HE	119	ARG
25	HE	132	LYS
25	HE	136	ARG
25	HE	144	ARG
25	HE	151	TYR
25	HE	155	ARG
25	HE	169	ASN
25	HE	192	ASN
25	HE	199	ARG
26	HF	10	ASN
26	HF	40	ARG
26	HF	56	ARG
26	HF	58	MET
26	HF	61	GLN
26	HF	87	LYS
26	HF	88	PRO
26	HF	104	LEU
26	HF	111	ARG
26	HF	116	LYS

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Mol	Chain	Res	Type
26	HF	121	ASP
26	HF	127	ASP
26	HF	136	TRP
26	HF	140	ASN
26	HF	143	ASP
26	HF	176	ASN
26	HF	179	ASP
26	HF	185	ARG
27	HG	6	THR
27	HG	9	ASN
27	HG	12	VAL
27	HG	13	ARG
27	HG	17	MET
27	HG	18	GLN
27	HG	19	GLN
27	HG	30	ARG
27	HG	34	ILE
27	HG	63	GLN
27	HG	64	LYS
27	HG	68	THR
27	HG	72	LYS
27	HG	76	ASN
27	HG	78	LYS
27	HG	85	VAL
27	HG	92	ARG
27	HG	114	PHE
27	HG	118	ASN
27	HG	127	ASN
27	HG	130	LEU
27	HG	133	LYS
27	HG	134	GLU
27	HG	139	PRO
27	HG	143	TYR
27	HG	148	LYS
27	HG	149	THR
27	HG	152	MET
27	HG	156	ILE
27	HG	158	THR
27	HG	167	ARG
27	HG	179	LYS
28	HH	6	LYS
28	HH	21	ASP

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Mol	Chain	Res	Type
28	HH	27	LYS
28	HH	33	LEU
28	HH	35	VAL
28	HH	36	PRO
28	HH	53	GLU
28	HH	57	ASP
28	HH	69	ARG
28	HH	77	LYS
28	HH	83	TYR
28	HH	89	LEU
28	HH	94	PHE
28	HH	98	LEU
28	HH	107	ILE
28	HH	115	ILE
28	HH	126	PRO
28	HH	130	ARG
28	HH	137	ASP
28	HH	151	VAL
28	HH	160	LYS
29	HI	2	GLN
29	HI	8	PRO
29	HI	16	GLU
29	HI	24	TYR
29	HI	46	LEU
30	HJ	18	THR
30	HJ	21	PRO
30	HJ	22	PRO
30	HJ	23	VAL
30	HJ	39	LYS
30	HJ	42	ASN
30	HJ	48	LYS
30	HJ	71	THR
30	HJ	91	PRO
30	HJ	115	LEU
30	HJ	125	ASN
30	HJ	142	PRO
31	HK	30	LYS
31	HK	51	LEU
31	HK	57	LEU
31	HK	63	ARG
31	HK	75	ILE
31	HK	94	LYS

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Mol	Chain	Res	Type
31	HK	97	ASP
31	HK	107	GLN
31	HK	110	LEU
31	HK	123	PRO
31	HK	139	ARG
31	HK	142	ARG
31	HK	147	ARG
31	HK	156	HIS
31	HK	157	PRO
31	HK	163	PRO
31	HK	167	LYS
32	HL	2	ILE
32	HL	3	MET
32	HL	22	ILE
32	HL	23	ARG
32	HL	43	ARG
32	HL	44	TYR
32	HL	49	ASP
32	HL	61	ARG
32	HL	69	VAL
32	HL	83	ARG
32	HL	102	GLN
32	HL	105	PRO
32	HL	121	ARG
33	HM	7	LYS
33	HM	8	PRO
33	HM	9	THR
33	HM	34	HIS
33	HM	35	LYS
33	HM	45	LYS
33	HM	50	GLU
33	HM	56	LEU
33	HM	59	ARG
33	HM	62	LYS
33	HM	63	ARG
33	HM	66	ASN
33	HM	72	TYR
33	HM	79	GLN
33	HM	101	ARG
33	HM	105	PRO
33	HM	107	LYS
33	HM	139	ARG

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Mol	Chain	Res	Type
33	HM	140	VAL
33	HM	143	PRO
34	HN	9	LYS
34	HN	10	PHE
34	HN	12	LYS
34	HN	13	GLN
34	HN	26	ASP
34	HN	36	ILE
34	HN	42	TRP
34	HN	47	GLN
34	HN	52	ARG
34	HN	55	MET
34	HN	58	HIS
34	HN	60	ARG
34	HN	61	ARG
34	HN	73	LYS
34	HN	74	PRO
34	HN	94	TRP
34	HN	100	PRO
34	HN	102	ARG
34	HN	104	MET
34	HN	112	GLU
34	HN	114	GLN
34	HN	120	ARG
34	HN	125	LYS
34	HN	131	LYS
35	HO	3	HIS
35	HO	5	LYS
35	HO	37	THR
35	HO	38	LEU
35	HO	39	THR
35	HO	52	ILE
35	HO	63	ARG
35	HO	68	GLN
35	HO	80	MET
35	HO	87	TYR
35	HO	99	ARG
35	HO	110	MET
35	HO	112	LEU
36	HP	8	ARG
36	HP	11	LEU
36	HP	12	ARG

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Mol	Chain	Res	Type
36	HP	29	LEU
36	HP	63	ASN
36	HP	64	LYS
36	HP	94	TYR
36	HP	96	TYR
36	HP	97	HIS
37	HQ	5	ILE
37	HQ	11	GLU
37	HQ	20	HIS
37	HQ	23	GLN
37	HQ	25	PRO
37	HQ	38	LYS
37	HQ	43	ASN
37	HQ	50	PHE
37	HQ	55	ILE
37	HQ	58	ASN
37	HQ	63	ARG
37	HQ	90	GLN
37	HQ	103	LYS
37	HQ	105	TYR
37	HQ	108	ARG
37	HQ	126	LYS
38	HR	15	LYS
38	HR	20	ARG
38	HR	32	TYR
38	HR	33	ARG
38	HR	46	GLU
38	HR	49	ASP
38	HR	50	ARG
38	HR	56	ASP
38	HR	63	GLN
38	HR	64	ARG
38	HR	71	LEU
38	HR	92	ARG
38	HR	109	LEU
38	HR	111	ASP
39	HS	10	LYS
39	HS	25	LEU
39	HS	28	GLU
39	HS	50	ASP
39	HS	67	LYS
39	HS	73	LYS

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Mol	Chain	Res	Type
39	HS	82	ARG
39	HS	83	ARG
39	HS	96	LEU
40	HT	11	LYS
40	HT	15	LYS
40	HT	25	PHE
40	HT	39	ARG
40	HT	61	PRO
40	HT	67	PRO
40	HT	70	LYS
40	HT	73	ASN
40	HT	81	HIS
40	HT	96	TYR
40	HT	111	ARG
40	HT	127	ILE
40	HT	131	LYS
41	HU	17	TYR
41	HU	57	ASN
41	HU	62	ARG
41	HU	68	PHE
41	HU	73	ASN
41	HU	75	ARG
41	HU	86	GLN
42	HV	14	LEU
42	HV	18	LYS
42	HV	25	LEU
42	HV	35	LYS
42	HV	42	ARG
42	HV	59	LYS
42	HV	95	ARG
42	HV	103	LYS
43	HW	3	LEU
43	HW	7	PRO
43	HW	11	LYS
43	HW	16	GLU
43	HW	18	MET
43	HW	29	ASN
43	HW	41	ARG
43	HW	51	LEU
43	HW	74	ARG
43	HW	84	TYR
43	HW	87	THR

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Mol	Chain	Res	Type
43	HW	119	ASN
43	HW	120	LEU
43	HW	125	PRO
43	HW	128	ARG
43	HW	133	GLU
43	HW	142	ASN
43	HW	143	ILE
43	HW	145	ASP
43	HW	153	LYS
43	HW	155	PRO
43	HW	168	VAL
44	HX	5	LYS
44	HX	7	VAL
44	HX	21	LEU
44	HX	25	LYS
44	HX	29	GLU
44	HX	32	LYS
44	HX	37	LEU
44	HX	39	ARG
44	HX	41	ARG
44	HX	46	LYS
44	HX	49	GLN
44	HX	55	ARG
44	HX	62	LEU
44	HX	69	PHE
44	HX	74	LYS
44	HX	79	ILE
45	HY	2	LYS
45	HY	10	GLN
45	HY	17	GLU
45	HY	25	LEU
45	HY	30	PHE
45	HY	41	HIS
45	HY	49	GLU
45	HY	52	GLN
45	HY	60	LEU
46	HZ	1	MET
46	HZ	2	LYS
46	HZ	12	ARG
46	HZ	16	GLN
46	HZ	18	LYS
46	HZ	23	LEU

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Mol	Chain	Res	Type
46	HZ	25	LEU
46	HZ	43	MET
46	HZ	48	LYS
46	HZ	51	LEU
47	H1	1	MET
47	H1	2	GLN
47	H1	3	LYS
47	H1	19	GLN
47	H1	22	MET
47	H1	28	ARG
47	H1	30	GLU
47	H1	33	VAL
47	H1	48	ARG
47	H1	53	GLU
47	H1	57	ASP
47	H1	63	PHE
47	H1	72	LYS
48	H2	5	PRO
48	H2	6	VAL
48	H2	9	LYS
48	H2	15	LYS
48	H2	28	PRO
48	H2	29	ASN
48	H2	31	THR
48	H2	33	CYS
48	H2	47	PRO
48	H2	49	CYS
48	H2	56	GLN
48	H2	58	LEU
49	H3	9	ILE
49	H3	11	LYS
49	H3	20	PHE
49	H3	21	TYR
49	H3	27	ASN
49	H3	32	GLN
49	H3	34	LYS
49	H3	38	LYS
49	H3	39	LYS
49	H3	42	PRO
49	H3	43	VAL
49	H3	45	LYS
49	H3	48	VAL

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Mol	Chain	Res	Type
50	H4	1	MET
50	H4	8	ASN
50	H4	11	LYS
50	H4	12	ARG
50	H4	15	THR
50	H4	22	MET
50	H4	23	LYS
50	H4	25	LYS
50	H4	35	ARG
50	H4	37	LYS
50	H4	41	GLN
51	H5	13	ARG
51	H5	23	MET
51	H5	25	PHE
51	H5	26	LYS
51	H5	32	GLN
51	H5	33	ASN
51	H5	36	LYS
51	H5	41	ILE
51	H5	44	LYS
51	H5	46	LYS
51	H5	52	LYS
51	H5	57	ARG
51	H5	59	LYS
51	H5	63	PRO
51	H5	64	ARG
52	H6	2	LYS
52	H6	19	ARG
52	H6	29	ASN
52	H6	32	HIS
53	H7	32	ILE
53	H7	71	GLU
53	H7	75	TYR
53	H7	82	LYS
53	H7	151	PHE
53	H7	158	LYS
53	H7	164	GLN
53	H7	172	GLU
53	H7	173	ASP
53	H7	195	LYS
53	H7	199	ASN
53	H7	201	ARG

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Mol	Chain	Res	Type
2	IB	8	LYS
2	IB	9	GLU
2	IB	16	HIS
2	IB	23	ARG
2	IB	30	ARG
2	IB	37	ASN
2	IB	90	MET
2	IB	95	GLN
2	IB	96	ARG
2	IB	101	MET
2	IB	106	LYS
2	IB	113	HIS
2	IB	144	ARG
2	IB	155	LEU
2	IB	158	LEU
2	IB	163	PHE
2	IB	175	ARG
2	IB	190	THR
2	IB	199	TYR
2	IB	204	ASN
2	IB	230	VAL
2	IB	232	PRO
2	IB	236	TYR
3	IC	3	ASN
3	IC	35	GLU
3	IC	56	ASP
3	IC	62	ASP
3	IC	91	LEU
3	IC	139	GLN
3	IC	140	ARG
3	IC	167	TRP
3	IC	176	HIS
3	IC	190	ARG
4	ID	11	LEU
4	ID	20	TYR
4	ID	53	ASP
4	ID	57	ARG
4	ID	61	LYS
4	ID	93	PHE
4	ID	107	ARG
4	ID	122	ARG
4	ID	135	LEU

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Mol	Chain	Res	Type
4	ID	150	GLU
4	ID	152	SER
4	ID	157	LEU
4	ID	161	ASN
4	ID	168	ARG
4	ID	173	TRP
4	ID	174	LEU
4	ID	196	LEU
4	ID	199	ASN
4	ID	200	GLU
4	ID	201	GLN
4	ID	202	LEU
4	ID	205	GLU
4	ID	207	TYR
5	IE	10	MET
5	IE	12	LEU
5	IE	19	MET
5	IE	63	ARG
5	IE	64	ARG
5	IE	73	ASN
5	IE	78	HIS
5	IE	89	ILE
5	IE	150	ARG
6	IF	10	LEU
6	IF	13	ASN
6	IF	32	ASN
6	IF	33	TYR
6	IF	36	ARG
6	IF	43	LEU
6	IF	57	GLN
6	IF	74	ASP
6	IF	98	LEU
7	IG	3	ARG
7	IG	37	ASN
7	IG	89	MET
7	IG	94	ARG
7	IG	98	SER
7	IG	106	GLN
7	IG	115	ARG
7	IG	122	HIS
7	IG	126	ASP
7	IG	136	LYS

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Mol	Chain	Res	Type
7	IG	154	TYR
8	IH	25	ASP
8	IH	31	PHE
8	IH	41	ARG
8	IH	56	LYS
8	IH	91	ARG
8	IH	127	LEU
9	II	10	ARG
9	II	19	LEU
9	II	25	LYS
9	II	47	LEU
9	II	48	GLU
9	II	59	PHE
9	II	60	ASP
9	II	75	ASP
9	II	102	LEU
9	II	111	ARG
9	II	121	ARG
10	IJ	9	ARG
10	IJ	55	LYS
10	IJ	56	HIS
10	IJ	64	GLU
10	IJ	71	LEU
10	IJ	79	ARG
10	IJ	95	GLU
11	IK	26	ASN
11	IK	57	THR
11	IK	59	TYR
11	IK	73	MET
11	IK	81	ASP
11	IK	85	ARG
11	IK	91	ARG
11	IK	123	LYS
11	IK	125	PHE
11	IK	126	ARG
12	IL	33	ARG
12	IL	53	ARG
12	IL	67	THR
12	IL	73	GLU
12	IL	89	ARG
12	IL	90	VAL
13	IM	3	ARG

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Mol	Chain	Res	Type
13	IM	21	TYR
13	IM	46	LYS
13	IM	49	THR
13	IM	56	LEU
13	IM	62	ASN
13	IM	70	LEU
13	IM	80	ARG
13	IM	81	LEU
13	IM	98	VAL
13	IM	109	THR
13	IM	110	ARG
13	IM	124	PRO
13	IM	125	ARG
14	IN	8	GLU
14	IN	18	VAL
14	IN	44	LEU
14	IN	46	GLU
14	IN	53	LEU
15	IO	5	LYS
15	IO	35	ARG
15	IO	38	ARG
15	IO	39	LEU
16	IP	9	PHE
16	IP	38	TYR
16	IP	48	TRP
16	IP	55	ARG
17	IQ	27	PHE
17	IQ	34	LYS
17	IQ	60	ILE
17	IQ	69	LYS
17	IQ	84	LEU
17	IQ	95	TYR
17	IQ	98	LEU
17	IQ	101	ARG
18	IR	35	ARG
18	IR	38	GLU
18	IR	42	ARG
18	IR	44	LEU
18	IR	53	ARG
18	IR	54	ARG
18	IR	81	PHE
19	IS	5	LEU

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Mol	Chain	Res	Type
19	IS	7	LYS
19	IS	12	ASP
19	IS	14	HIS
19	IS	32	LYS
19	IS	36	ARG
19	IS	38	SER
19	IS	43	GLU
19	IS	52	TYR
20	IT	13	LEU
20	IT	23	ARG
20	IT	53	LEU
21	Ia	7	LYS
21	Ia	8	GLN
21	Ia	9	MET
21	Ia	25	LYS
21	Ia	27	GLU
21	Ia	28	LYS
21	Ia	30	GLN
21	Ia	32	HIS
21	Ia	37	HIS
21	Ia	45	GLN
21	Ia	63	SER
21	Ia	74	ASN
21	Ia	76	LEU
21	Ia	78	ASN
21	Ia	79	LYS
21	Ia	82	ARG
21	Ia	85	ASN
21	Ia	90	LYS
24	JD	4	LYS
24	JD	27	LYS
24	JD	33	LEU
24	JD	35	GLU
24	JD	37	LEU
24	JD	38	PRO
24	JD	43	ARG
24	JD	48	ARG
24	JD	52	ARG
24	JD	60	ARG
24	JD	70	ARG
24	JD	72	LYS
24	JD	76	ASN

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Mol	Chain	Res	Type
24	JD	78	LYS
24	JD	88	ARG
24	JD	91	ARG
24	JD	94	LEU
24	JD	95	LEU
24	JD	105	ILE
24	JD	118	ASN
24	JD	121	PRO
24	JD	124	GLU
24	JD	127	LEU
24	JD	133	LEU
24	JD	142	VAL
24	JD	148	VAL
24	JD	151	LYS
24	JD	154	GLN
24	JD	155	LEU
24	JD	177	LEU
24	JD	178	PRO
24	JD	213	ARG
24	JD	219	PRO
24	JD	228	PRO
24	JD	233	HIS
24	JD	239	ARG
24	JD	244	ARG
24	JD	249	PRO
24	JD	252	LYS
24	JD	257	LEU
24	JD	261	ARG
24	JD	265	THR
24	JD	268	ARG
24	JD	270	ILE
25	JE	5	LEU
25	JE	14	ILE
25	JE	22	PRO
25	JE	27	LEU
25	JE	40	GLN
25	JE	53	PRO
25	JE	58	LYS
25	JE	67	PHE
25	JE	72	VAL
25	JE	92	ASN
25	JE	94	ASP

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Mol	Chain	Res	Type
25	JE	95	ILE
25	JE	109	LYS
25	JE	111	LYS
25	JE	118	LYS
25	JE	119	ARG
25	JE	132	LYS
25	JE	136	ARG
25	JE	144	ARG
25	JE	151	TYR
25	JE	152	LYS
25	JE	155	ARG
25	JE	169	ASN
25	JE	192	ASN
25	JE	199	ARG
26	JF	10	ASN
26	JF	40	ARG
26	JF	56	ARG
26	JF	58	MET
26	JF	61	GLN
26	JF	87	LYS
26	JF	88	PRO
26	JF	104	LEU
26	JF	111	ARG
26	JF	116	LYS
26	JF	121	ASP
26	JF	127	ASP
26	JF	136	TRP
26	JF	140	ASN
26	JF	143	ASP
26	JF	176	ASN
26	JF	179	ASP
26	JF	185	ARG
27	JG	6	THR
27	JG	9	ASN
27	JG	12	VAL
27	JG	13	ARG
27	JG	17	MET
27	JG	18	GLN
27	JG	19	GLN
27	JG	30	ARG
27	JG	34	ILE
27	JG	63	GLN

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Mol	Chain	Res	Type
27	JG	64	LYS
27	JG	68	THR
27	JG	72	LYS
27	JG	76	ASN
27	JG	78	LYS
27	JG	85	VAL
27	JG	92	ARG
27	JG	114	PHE
27	JG	118	ASN
27	JG	127	ASN
27	JG	130	LEU
27	JG	133	LYS
27	JG	134	GLU
27	JG	139	PRO
27	JG	143	TYR
27	JG	148	LYS
27	JG	149	THR
27	JG	152	MET
27	JG	156	ILE
27	JG	158	THR
27	JG	167	ARG
27	JG	179	LYS
28	JH	6	LYS
28	JH	21	ASP
28	JH	27	LYS
28	JH	33	LEU
28	JH	35	VAL
28	JH	36	PRO
28	JH	53	GLU
28	JH	57	ASP
28	JH	69	ARG
28	JH	77	LYS
28	JH	83	TYR
28	JH	89	LEU
28	JH	94	PHE
28	JH	98	LEU
28	JH	107	ILE
28	JH	115	ILE
28	JH	126	PRO
28	JH	130	ARG
28	JH	137	ASP
28	JH	151	VAL

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Mol	Chain	Res	Type
28	JH	160	LYS
29	JI	2	GLN
29	JI	8	PRO
29	JI	16	GLU
29	JI	24	TYR
29	JI	46	LEU
30	JJ	18	THR
30	JJ	21	PRO
30	JJ	22	PRO
30	JJ	23	VAL
30	JJ	39	LYS
30	JJ	42	ASN
30	JJ	48	LYS
30	JJ	71	THR
30	JJ	91	PRO
30	JJ	115	LEU
30	JJ	125	ASN
30	JJ	142	PRO
31	JK	30	LYS
31	JK	51	LEU
31	JK	57	LEU
31	JK	63	ARG
31	JK	75	ILE
31	JK	94	LYS
31	JK	97	ASP
31	JK	107	GLN
31	JK	110	LEU
31	JK	123	PRO
31	JK	139	ARG
31	JK	142	ARG
31	JK	147	ARG
31	JK	156	HIS
31	JK	157	PRO
31	JK	163	PRO
31	JK	167	LYS
32	JL	2	ILE
32	JL	3	MET
32	JL	22	ILE
32	JL	23	ARG
32	JL	43	ARG
32	JL	44	TYR
32	JL	49	ASP

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Mol	Chain	Res	Type
32	JL	61	ARG
32	JL	69	VAL
32	JL	83	ARG
32	JL	102	GLN
32	JL	105	PRO
32	JL	121	ARG
33	JM	7	LYS
33	JM	8	PRO
33	JM	9	THR
33	JM	34	HIS
33	JM	35	LYS
33	JM	45	LYS
33	JM	50	GLU
33	JM	56	LEU
33	JM	59	ARG
33	JM	62	LYS
33	JM	63	ARG
33	JM	66	ASN
33	JM	72	TYR
33	JM	79	GLN
33	JM	101	ARG
33	JM	105	PRO
33	JM	107	LYS
33	JM	139	ARG
33	JM	140	VAL
33	JM	143	PRO
34	JN	9	LYS
34	JN	10	PHE
34	JN	12	LYS
34	JN	13	GLN
34	JN	26	ASP
34	JN	36	ILE
34	JN	42	TRP
34	JN	47	GLN
34	JN	52	ARG
34	JN	55	MET
34	JN	58	HIS
34	JN	60	ARG
34	JN	61	ARG
34	JN	73	LYS
34	JN	74	PRO
34	JN	94	TRP

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Mol	Chain	Res	Type
34	JN	100	PRO
34	JN	102	ARG
34	JN	104	MET
34	JN	112	GLU
34	JN	114	GLN
34	JN	120	ARG
34	JN	125	LYS
34	JN	131	LYS
35	JO	3	HIS
35	JO	5	LYS
35	JO	37	THR
35	JO	38	LEU
35	JO	39	THR
35	JO	52	ILE
35	JO	63	ARG
35	JO	68	GLN
35	JO	80	MET
35	JO	87	TYR
35	JO	99	ARG
35	JO	110	MET
35	JO	112	LEU
36	JP	8	ARG
36	JP	11	LEU
36	JP	12	ARG
36	JP	29	LEU
36	JP	63	ASN
36	JP	64	LYS
36	JP	94	TYR
36	JP	96	TYR
36	JP	97	HIS
37	JQ	5	ILE
37	JQ	11	GLU
37	JQ	20	HIS
37	JQ	23	GLN
37	JQ	25	PRO
37	JQ	38	LYS
37	JQ	43	ASN
37	JQ	50	PHE
37	JQ	55	ILE
37	JQ	58	ASN
37	JQ	63	ARG
37	JQ	90	GLN

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Mol	Chain	Res	Type
37	JQ	103	LYS
37	JQ	105	TYR
37	JQ	108	ARG
37	JQ	126	LYS
38	JR	15	LYS
38	JR	20	ARG
38	JR	32	TYR
38	JR	33	ARG
38	JR	46	GLU
38	JR	49	ASP
38	JR	50	ARG
38	JR	56	ASP
38	JR	63	GLN
38	JR	64	ARG
38	JR	71	LEU
38	JR	92	ARG
38	JR	109	LEU
38	JR	111	ASP
39	JS	10	LYS
39	JS	25	LEU
39	JS	28	GLU
39	JS	50	ASP
39	JS	67	LYS
39	JS	73	LYS
39	JS	82	ARG
39	JS	83	ARG
39	JS	96	LEU
40	JT	11	LYS
40	JT	15	LYS
40	JT	25	PHE
40	JT	39	ARG
40	JT	61	PRO
40	JT	67	PRO
40	JT	70	LYS
40	JT	73	ASN
40	JT	81	HIS
40	JT	96	TYR
40	JT	111	ARG
40	JT	127	ILE
40	JT	131	LYS
41	JU	17	TYR
41	JU	57	ASN

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Mol	Chain	Res	Type
41	JU	62	ARG
41	JU	68	PHE
41	JU	73	ASN
41	JU	75	ARG
41	JU	86	GLN
42	JV	14	LEU
42	JV	18	LYS
42	JV	25	LEU
42	JV	35	LYS
42	JV	42	ARG
42	JV	59	LYS
42	JV	95	ARG
42	JV	103	LYS
43	JW	3	LEU
43	JW	7	PRO
43	JW	11	LYS
43	JW	16	GLU
43	JW	18	MET
43	JW	29	ASN
43	JW	41	ARG
43	JW	51	LEU
43	JW	74	ARG
43	JW	84	TYR
43	JW	87	THR
43	JW	119	ASN
43	JW	120	LEU
43	JW	125	PRO
43	JW	128	ARG
43	JW	133	GLU
43	JW	142	ASN
43	JW	143	ILE
43	JW	145	ASP
43	JW	153	LYS
43	JW	155	PRO
43	JW	168	VAL
44	JX	5	LYS
44	JX	7	VAL
44	JX	21	LEU
44	JX	25	LYS
44	JX	29	GLU
44	JX	32	LYS
44	JX	37	LEU

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Mol	Chain	Res	Type
44	JX	39	ARG
44	JX	41	ARG
44	JX	46	LYS
44	JX	49	GLN
44	JX	55	ARG
44	JX	62	LEU
44	JX	74	LYS
44	JX	79	ILE
45	JY	2	LYS
45	JY	10	GLN
45	JY	17	GLU
45	JY	25	LEU
45	JY	30	PHE
45	JY	41	HIS
45	JY	49	GLU
45	JY	52	GLN
45	JY	60	LEU
46	JZ	1	MET
46	JZ	2	LYS
46	JZ	12	ARG
46	JZ	16	GLN
46	JZ	18	LYS
46	JZ	23	LEU
46	JZ	25	LEU
46	JZ	43	MET
46	JZ	48	LYS
46	JZ	51	LEU
47	J1	1	MET
47	J1	2	GLN
47	J1	3	LYS
47	J1	19	GLN
47	J1	22	MET
47	J1	28	ARG
47	J1	30	GLU
47	J1	33	VAL
47	J1	48	ARG
47	J1	53	GLU
47	J1	57	ASP
47	J1	63	PHE
47	J1	72	LYS
48	J2	5	PRO
48	J2	6	VAL

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Mol	Chain	Res	Type
48	J2	9	LYS
48	J2	15	LYS
48	J2	28	PRO
48	J2	29	ASN
48	J2	31	THR
48	J2	33	CYS
48	J2	47	PRO
48	J2	49	CYS
48	J2	56	GLN
48	J2	58	LEU
49	J3	9	ILE
49	J3	11	LYS
49	J3	20	PHE
49	J3	21	TYR
49	J3	27	ASN
49	J3	32	GLN
49	J3	34	LYS
49	J3	38	LYS
49	J3	39	LYS
49	J3	42	PRO
49	J3	43	VAL
49	J3	45	LYS
49	J3	48	VAL
50	J4	1	MET
50	J4	8	ASN
50	J4	11	LYS
50	J4	12	ARG
50	J4	15	THR
50	J4	22	MET
50	J4	23	LYS
50	J4	25	LYS
50	J4	35	ARG
50	J4	37	LYS
50	J4	41	GLN
51	J5	13	ARG
51	J5	23	MET
51	J5	25	PHE
51	J5	26	LYS
51	J5	32	GLN
51	J5	33	ASN
51	J5	36	LYS
51	J5	41	ILE

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Mol	Chain	Res	Type
51	J5	44	LYS
51	J5	46	LYS
51	J5	52	LYS
51	J5	57	ARG
51	J5	59	LYS
51	J5	63	PRO
51	J5	64	ARG
52	J6	2	LYS
52	J6	19	ARG
52	J6	29	ASN
52	J6	32	HIS
53	J7	32	ILE
53	J7	71	GLU
53	J7	75	TYR
53	J7	82	LYS
53	J7	151	PHE
53	J7	158	LYS
53	J7	164	GLN
53	J7	172	GLU
53	J7	173	ASP
53	J7	195	LYS
53	J7	199	ASN
53	J7	201	ARG

Some sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (944) such sidechains are listed below:

Mol	Chain	Res	Type
2	AB	25	ASN
2	AB	40	HIS
2	AB	146	GLN
3	AC	3	ASN
3	AC	102	ASN
3	AC	123	GLN
3	AC	181	ASN
4	AD	42	GLN
4	AD	43	HIS
4	AD	45	GLN
4	AD	62	GLN
4	AD	77	ASN
4	AD	119	GLN
4	AD	129	ASN
4	AD	160	GLN

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Mol	Chain	Res	Type
4	AD	161	ASN
4	AD	199	ASN
4	AD	201	GLN
5	AE	56	GLN
5	AE	65	ASN
5	AE	72	GLN
5	AE	73	ASN
5	AE	130	ASN
6	AF	16	GLN
6	AF	18	GLN
6	AF	27	GLN
6	AF	32	ASN
6	AF	64	GLN
6	AF	94	GLN
7	AG	37	ASN
7	AG	64	GLN
7	AG	68	ASN
7	AG	106	GLN
7	AG	109	ASN
7	AG	148	ASN
8	AH	78	GLN
9	AI	34	ASN
9	AI	89	ASN
10	AJ	33	GLN
10	AJ	78	ASN
11	AK	13	GLN
11	AK	62	GLN
11	AK	104	GLN
11	AK	117	ASN
13	AM	12	ASN
13	AM	62	ASN
15	AO	9	GLN
15	AO	13	GLN
15	AO	37	ASN
15	AO	42	HIS
15	AO	51	HIS
15	AO	62	GLN
15	AO	71	GLN
16	AP	65	GLN
17	AQ	26	GLN
17	AQ	29	HIS
17	AQ	45	HIS

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Mol	Chain	Res	Type
17	AQ	93	GLN
17	AQ	94	ASN
18	AR	36	ASN
19	AS	53	ASN
20	AT	26	ASN
20	AT	42	GLN
24	BD	15	GLN
24	BD	45	ASN
24	BD	58	HIS
24	BD	76	ASN
24	BD	87	ASN
24	BD	118	ASN
24	BD	154	GLN
24	BD	201	HIS
24	BD	203	ASN
24	BD	227	ASN
25	BE	13	GLN
25	BE	35	GLN
25	BE	48	GLN
25	BE	60	ASN
25	BE	129	HIS
25	BE	159	HIS
25	BE	169	ASN
25	BE	192	ASN
26	BF	9	GLN
26	BF	10	ASN
26	BF	28	HIS
26	BF	34	GLN
26	BF	50	GLN
26	BF	66	ASN
26	BF	176	ASN
27	BG	18	GLN
27	BG	19	GLN
27	BG	63	GLN
27	BG	76	ASN
27	BG	81	GLN
27	BG	127	ASN
27	BG	129	ASN
27	BG	171	GLN
28	BH	18	ASN
28	BH	38	ASN
28	BH	45	GLN

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Mol	Chain	Res	Type
28	BH	49	GLN
28	BH	74	ASN
28	BH	86	ASN
28	BH	139	GLN
28	BH	143	GLN
28	BH	147	ASN
30	BJ	29	GLN
30	BJ	42	ASN
30	BJ	116	ASN
30	BJ	125	ASN
31	BK	39	GLN
31	BK	40	ASN
31	BK	66	HIS
31	BK	73	ASN
31	BK	107	GLN
31	BK	161	GLN
31	BK	164	GLN
32	BL	13	ASN
32	BL	41	ASN
32	BL	94	ASN
33	BM	37	GLN
33	BM	81	GLN
34	BN	13	GLN
34	BN	46	ASN
34	BN	114	GLN
35	BO	3	HIS
35	BO	13	ASN
35	BO	35	GLN
35	BO	68	GLN
36	BP	37	HIS
36	BP	63	ASN
37	BQ	23	GLN
37	BQ	58	ASN
37	BQ	90	GLN
38	BR	34	ASN
39	BS	57	GLN
39	BS	88	GLN
39	BS	99	GLN
40	BT	13	GLN
40	BT	73	ASN
40	BT	78	ASN
41	BU	3	HIS

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Mol	Chain	Res	Type
41	BU	8	GLN
41	BU	57	ASN
41	BU	71	GLN
41	BU	73	ASN
41	BU	86	GLN
41	BU	94	GLN
42	BV	32	GLN
42	BV	44	GLN
42	BV	52	ASN
42	BV	57	ASN
42	BV	64	ASN
42	BV	69	GLN
42	BV	71	GLN
42	BV	77	HIS
43	BW	12	GLN
43	BW	25	ASN
43	BW	28	ASN
43	BW	29	ASN
43	BW	45	GLN
43	BW	99	HIS
43	BW	105	GLN
43	BW	109	GLN
43	BW	142	ASN
44	BX	12	ASN
44	BX	17	ASN
44	BX	40	GLN
44	BX	49	GLN
45	BY	10	GLN
45	BY	41	HIS
45	BY	45	GLN
45	BY	52	GLN
45	BY	54	ASN
45	BY	66	GLN
46	BZ	54	GLN
47	B1	32	HIS
48	B2	29	ASN
48	B2	37	HIS
48	B2	43	HIS
48	B2	44	HIS
50	B4	8	ASN
50	B4	40	HIS
51	B5	33	ASN

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Mol	Chain	Res	Type
52	B6	29	ASN
53	B7	91	GLN
53	B7	94	GLN
53	B7	106	GLN
53	B7	164	GLN
53	B7	188	ASN
2	CB	25	ASN
2	CB	40	HIS
2	CB	146	GLN
3	CC	3	ASN
3	CC	102	ASN
3	CC	123	GLN
3	CC	176	HIS
3	CC	181	ASN
4	CD	42	GLN
4	CD	45	GLN
4	CD	62	GLN
4	CD	77	ASN
4	CD	160	GLN
4	CD	161	ASN
4	CD	199	ASN
4	CD	201	GLN
5	CE	20	GLN
5	CE	56	GLN
5	CE	65	ASN
5	CE	72	GLN
5	CE	73	ASN
5	CE	130	ASN
5	CE	141	GLN
6	CF	16	GLN
6	CF	18	GLN
6	CF	27	GLN
6	CF	32	ASN
6	CF	64	GLN
6	CF	94	GLN
7	CG	28	ASN
7	CG	37	ASN
7	CG	64	GLN
7	CG	68	ASN
7	CG	106	GLN
7	CG	109	ASN
7	CG	148	ASN

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Mol	Chain	Res	Type
8	CH	15	ASN
8	CH	78	GLN
9	CI	34	ASN
9	CI	89	ASN
9	CI	124	GLN
10	CJ	56	HIS
10	CJ	62	HIS
10	CJ	76	ASN
10	CJ	78	ASN
11	CK	13	GLN
11	CK	62	GLN
11	CK	104	GLN
11	CK	117	ASN
12	CL	8	ASN
13	CM	12	ASN
13	CM	62	ASN
13	CM	92	HIS
15	CO	9	GLN
15	CO	13	GLN
15	CO	37	ASN
15	CO	62	GLN
15	CO	71	GLN
16	CP	65	GLN
17	CQ	26	GLN
17	CQ	45	HIS
17	CQ	94	ASN
18	CR	36	ASN
19	CS	53	ASN
19	CS	56	GLN
20	CT	26	ASN
20	CT	42	GLN
24	DD	15	GLN
24	DD	45	ASN
24	DD	58	HIS
24	DD	76	ASN
24	DD	118	ASN
24	DD	154	GLN
24	DD	203	ASN
24	DD	227	ASN
25	DE	13	GLN
25	DE	35	GLN
25	DE	48	GLN

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Mol	Chain	Res	Type
25	DE	143	GLN
25	DE	159	HIS
25	DE	192	ASN
26	DF	9	GLN
26	DF	10	ASN
26	DF	28	HIS
26	DF	34	GLN
26	DF	50	GLN
26	DF	66	ASN
26	DF	101	GLN
26	DF	163	ASN
26	DF	176	ASN
27	DG	18	GLN
27	DG	19	GLN
27	DG	63	GLN
27	DG	76	ASN
27	DG	81	GLN
27	DG	127	ASN
27	DG	129	ASN
27	DG	171	GLN
28	DH	18	ASN
28	DH	38	ASN
28	DH	45	GLN
28	DH	49	GLN
28	DH	74	ASN
28	DH	86	ASN
28	DH	139	GLN
28	DH	168	GLN
30	DJ	11	GLN
30	DJ	29	GLN
30	DJ	42	ASN
30	DJ	92	ASN
30	DJ	125	ASN
31	DK	36	ASN
31	DK	39	GLN
31	DK	40	ASN
31	DK	164	GLN
32	DL	13	ASN
32	DL	94	ASN
33	DM	37	GLN
33	DM	66	ASN
33	DM	81	GLN

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Mol	Chain	Res	Type
34	DN	13	GLN
34	DN	58	HIS
34	DN	114	GLN
35	DO	13	ASN
35	DO	35	GLN
35	DO	68	GLN
35	DO	71	HIS
36	DP	37	HIS
36	DP	49	GLN
36	DP	63	ASN
37	DQ	2	GLN
37	DQ	23	GLN
37	DQ	43	ASN
37	DQ	58	ASN
37	DQ	90	GLN
38	DR	34	ASN
38	DR	81	ASN
39	DS	57	GLN
39	DS	88	GLN
39	DS	99	GLN
40	DT	13	GLN
40	DT	73	ASN
40	DT	82	ASN
41	DU	8	GLN
41	DU	57	ASN
41	DU	71	GLN
41	DU	73	ASN
41	DU	86	GLN
41	DU	94	GLN
42	DV	32	GLN
42	DV	44	GLN
42	DV	52	ASN
42	DV	57	ASN
42	DV	64	ASN
42	DV	69	GLN
42	DV	71	GLN
42	DV	77	HIS
43	DW	12	GLN
43	DW	25	ASN
43	DW	28	ASN
43	DW	29	ASN
43	DW	45	GLN

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Mol	Chain	Res	Type
43	DW	99	HIS
43	DW	105	GLN
43	DW	109	GLN
43	DW	132	GLN
43	DW	142	ASN
44	DX	3	HIS
44	DX	12	ASN
44	DX	40	GLN
44	DX	49	GLN
45	DY	10	GLN
45	DY	54	ASN
45	DY	66	GLN
46	DZ	54	GLN
47	D1	32	HIS
48	D2	37	HIS
48	D2	43	HIS
50	D4	8	ASN
50	D4	40	HIS
51	D5	7	HIS
51	D5	33	ASN
52	D6	29	ASN
53	D7	91	GLN
53	D7	94	GLN
53	D7	106	GLN
53	D7	164	GLN
53	D7	166	GLN
53	D7	188	ASN
2	EB	25	ASN
2	EB	40	HIS
2	EB	146	GLN
3	EC	3	ASN
3	EC	6	HIS
3	EC	102	ASN
3	EC	123	GLN
3	EC	176	HIS
3	EC	181	ASN
4	ED	42	GLN
4	ED	43	HIS
4	ED	45	GLN
4	ED	62	GLN
4	ED	77	ASN
4	ED	123	HIS

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Mol	Chain	Res	Type
4	ED	160	GLN
4	ED	161	ASN
4	ED	199	ASN
5	EE	56	GLN
5	EE	65	ASN
5	EE	72	GLN
5	EE	73	ASN
5	EE	130	ASN
6	EF	16	GLN
6	EF	18	GLN
6	EF	27	GLN
6	EF	32	ASN
6	EF	64	GLN
6	EF	94	GLN
7	EG	37	ASN
7	EG	64	GLN
7	EG	68	ASN
7	EG	106	GLN
7	EG	109	ASN
7	EG	148	ASN
8	EH	78	GLN
9	EI	34	ASN
10	EJ	76	ASN
10	EJ	78	ASN
11	EK	13	GLN
11	EK	38	ASN
11	EK	62	GLN
11	EK	104	GLN
11	EK	117	ASN
12	EL	49	ASN
13	EM	12	ASN
13	EM	62	ASN
14	EN	49	HIS
15	EO	9	GLN
15	EO	13	GLN
15	EO	37	ASN
15	EO	42	HIS
15	EO	62	GLN
15	EO	71	GLN
16	EP	65	GLN
17	EQ	16	GLN
17	EQ	26	GLN

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Mol	Chain	Res	Type
17	EQ	45	HIS
17	EQ	96	GLN
18	ER	36	ASN
19	ES	53	ASN
19	ES	56	GLN
19	ES	57	HIS
20	ET	26	ASN
20	ET	42	GLN
20	ET	73	HIS
24	FD	15	GLN
24	FD	45	ASN
24	FD	58	HIS
24	FD	76	ASN
24	FD	118	ASN
24	FD	154	GLN
24	FD	201	HIS
24	FD	203	ASN
24	FD	221	GLN
24	FD	227	ASN
25	FE	13	GLN
25	FE	35	GLN
25	FE	48	GLN
25	FE	143	GLN
25	FE	159	HIS
25	FE	169	ASN
25	FE	192	ASN
26	FF	9	GLN
26	FF	10	ASN
26	FF	34	GLN
26	FF	66	ASN
26	FF	163	ASN
26	FF	176	ASN
27	FG	18	GLN
27	FG	19	GLN
27	FG	63	GLN
27	FG	76	ASN
27	FG	81	GLN
27	FG	127	ASN
27	FG	129	ASN
27	FG	171	GLN
28	FH	18	ASN
28	FH	38	ASN

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Mol	Chain	Res	Type
28	FH	45	GLN
28	FH	49	GLN
28	FH	74	ASN
28	FH	86	ASN
28	FH	139	GLN
28	FH	143	GLN
28	FH	168	GLN
30	FJ	11	GLN
30	FJ	29	GLN
30	FJ	42	ASN
30	FJ	92	ASN
30	FJ	125	ASN
30	FJ	143	ASN
31	FK	39	GLN
31	FK	40	ASN
31	FK	66	HIS
31	FK	107	GLN
31	FK	164	GLN
32	FL	5	GLN
32	FL	13	ASN
32	FL	26	ASN
32	FL	46	HIS
32	FL	94	ASN
33	FM	37	GLN
33	FM	81	GLN
34	FN	13	GLN
34	FN	114	GLN
35	FO	3	HIS
35	FO	13	ASN
35	FO	35	GLN
35	FO	68	GLN
35	FO	71	HIS
37	FQ	2	GLN
37	FQ	4	HIS
37	FQ	23	GLN
37	FQ	58	ASN
37	FQ	90	GLN
38	FR	34	ASN
38	FR	91	ASN
39	FS	57	GLN
39	FS	86	HIS
39	FS	88	GLN

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Mol	Chain	Res	Type
39	FS	99	GLN
40	FT	13	GLN
40	FT	73	ASN
40	FT	82	ASN
41	FU	8	GLN
41	FU	57	ASN
41	FU	86	GLN
41	FU	94	GLN
42	FV	9	HIS
42	FV	32	GLN
42	FV	44	GLN
42	FV	52	ASN
42	FV	57	ASN
42	FV	64	ASN
42	FV	69	GLN
42	FV	71	GLN
43	FW	12	GLN
43	FW	25	ASN
43	FW	28	ASN
43	FW	29	ASN
43	FW	45	GLN
43	FW	99	HIS
43	FW	105	GLN
43	FW	109	GLN
43	FW	132	GLN
43	FW	142	ASN
44	FX	12	ASN
44	FX	17	ASN
44	FX	40	GLN
44	FX	49	GLN
45	FY	10	GLN
45	FY	36	GLN
45	FY	54	ASN
45	FY	66	GLN
46	FZ	21	GLN
46	FZ	49	HIS
46	FZ	54	GLN
48	F2	29	ASN
48	F2	37	HIS
49	F3	27	ASN
50	F4	8	ASN
51	F5	7	HIS

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Mol	Chain	Res	Type
51	F5	33	ASN
52	F6	29	ASN
53	F7	91	GLN
53	F7	94	GLN
53	F7	106	GLN
53	F7	162	GLN
53	F7	164	GLN
53	F7	188	ASN
2	GB	25	ASN
2	GB	40	HIS
2	GB	104	ASN
2	GB	146	GLN
3	GC	3	ASN
3	GC	102	ASN
3	GC	123	GLN
3	GC	181	ASN
4	GD	42	GLN
4	GD	62	GLN
4	GD	74	GLN
4	GD	77	ASN
4	GD	119	GLN
4	GD	123	HIS
4	GD	160	GLN
4	GD	161	ASN
4	GD	199	ASN
4	GD	201	GLN
5	GE	56	GLN
5	GE	65	ASN
5	GE	72	GLN
5	GE	73	ASN
5	GE	130	ASN
6	GF	16	GLN
6	GF	18	GLN
6	GF	27	GLN
6	GF	32	ASN
6	GF	64	GLN
6	GF	94	GLN
7	GG	37	ASN
7	GG	64	GLN
7	GG	68	ASN
7	GG	106	GLN
7	GG	109	ASN

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Mol	Chain	Res	Type
7	GG	148	ASN
8	GH	78	GLN
9	GI	34	ASN
9	GI	89	ASN
10	GJ	76	ASN
10	GJ	78	ASN
11	GK	13	GLN
11	GK	62	GLN
11	GK	104	GLN
11	GK	116	HIS
12	GL	8	ASN
12	GL	49	ASN
13	GM	12	ASN
13	GM	62	ASN
15	GO	9	GLN
15	GO	13	GLN
15	GO	28	GLN
15	GO	37	ASN
15	GO	51	HIS
15	GO	62	GLN
15	GO	71	GLN
16	GP	65	GLN
17	GQ	26	GLN
17	GQ	45	HIS
17	GQ	94	ASN
18	GR	36	ASN
19	GS	53	ASN
19	GS	56	GLN
20	GT	26	ASN
20	GT	42	GLN
20	GT	75	ASN
24	HD	15	GLN
24	HD	58	HIS
24	HD	76	ASN
24	HD	118	ASN
24	HD	154	GLN
24	HD	201	HIS
24	HD	203	ASN
24	HD	227	ASN
25	HE	13	GLN
25	HE	35	GLN
25	HE	48	GLN

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Mol	Chain	Res	Type
25	HE	121	ASN
25	HE	135	HIS
25	HE	169	ASN
25	HE	192	ASN
26	HF	9	GLN
26	HF	10	ASN
26	HF	28	HIS
26	HF	34	GLN
26	HF	66	ASN
26	HF	163	ASN
26	HF	176	ASN
27	HG	18	GLN
27	HG	19	GLN
27	HG	63	GLN
27	HG	76	ASN
27	HG	81	GLN
27	HG	127	ASN
27	HG	129	ASN
27	HG	171	GLN
28	HH	18	ASN
28	HH	38	ASN
28	HH	45	GLN
28	HH	49	GLN
28	HH	74	ASN
28	HH	86	ASN
28	HH	139	GLN
28	HH	143	GLN
30	HJ	29	GLN
30	HJ	42	ASN
30	HJ	92	ASN
30	HJ	125	ASN
30	HJ	143	ASN
31	HK	36	ASN
31	HK	39	GLN
31	HK	40	ASN
31	HK	66	HIS
31	HK	161	GLN
31	HK	164	GLN
32	HL	5	GLN
32	HL	13	ASN
32	HL	94	ASN
33	HM	37	GLN

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Mol	Chain	Res	Type
33	HM	66	ASN
33	HM	67	ASN
33	HM	81	GLN
34	HN	13	GLN
34	HN	58	HIS
34	HN	114	GLN
35	HO	11	ASN
35	HO	13	ASN
35	HO	35	GLN
35	HO	68	GLN
36	HP	37	HIS
37	HQ	23	GLN
37	HQ	58	ASN
37	HQ	90	GLN
38	HR	34	ASN
38	HR	63	GLN
39	HS	11	GLN
39	HS	57	GLN
39	HS	79	GLN
39	HS	88	GLN
39	HS	99	GLN
40	HT	10	ASN
40	HT	13	GLN
40	HT	16	GLN
40	HT	73	ASN
40	HT	78	ASN
41	HU	8	GLN
41	HU	57	ASN
41	HU	71	GLN
41	HU	73	ASN
41	HU	86	GLN
41	HU	94	GLN
42	HV	32	GLN
42	HV	44	GLN
42	HV	52	ASN
42	HV	57	ASN
42	HV	64	ASN
42	HV	69	GLN
42	HV	71	GLN
43	HW	12	GLN
43	HW	25	ASN
43	HW	28	ASN

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Mol	Chain	Res	Type
43	HW	29	ASN
43	HW	45	GLN
43	HW	99	HIS
43	HW	105	GLN
43	HW	109	GLN
43	HW	118	HIS
43	HW	119	ASN
43	HW	132	GLN
43	HW	142	ASN
44	HX	12	ASN
44	HX	40	GLN
44	HX	49	GLN
45	HY	10	GLN
45	HY	45	GLN
45	HY	52	GLN
45	HY	66	GLN
46	HZ	54	GLN
47	H1	40	HIS
48	H2	29	ASN
48	H2	37	HIS
50	H4	8	ASN
51	H5	33	ASN
52	H6	29	ASN
53	H7	25	ASN
53	H7	91	GLN
53	H7	94	GLN
53	H7	106	GLN
53	H7	188	ASN
53	H7	192	ASN
53	H7	199	ASN
2	IB	25	ASN
2	IB	40	HIS
2	IB	140	HIS
2	IB	146	GLN
3	IC	3	ASN
3	IC	102	ASN
3	IC	123	GLN
3	IC	181	ASN
4	ID	42	GLN
4	ID	45	GLN
4	ID	62	GLN
4	ID	77	ASN

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Mol	Chain	Res	Type
4	ID	123	HIS
4	ID	160	GLN
4	ID	161	ASN
4	ID	199	ASN
4	ID	201	GLN
5	IE	56	GLN
5	IE	65	ASN
5	IE	72	GLN
5	IE	73	ASN
5	IE	130	ASN
6	IF	16	GLN
6	IF	18	GLN
6	IF	27	GLN
6	IF	32	ASN
6	IF	64	GLN
6	IF	94	GLN
7	IG	37	ASN
7	IG	64	GLN
7	IG	68	ASN
7	IG	106	GLN
7	IG	109	ASN
7	IG	148	ASN
8	IH	15	ASN
8	IH	78	GLN
9	II	34	ASN
9	II	89	ASN
10	IJ	78	ASN
11	IK	13	GLN
11	IK	38	ASN
11	IK	62	GLN
11	IK	93	GLN
11	IK	104	GLN
11	IK	116	HIS
12	IL	49	ASN
13	IM	12	ASN
13	IM	62	ASN
15	IO	9	GLN
15	IO	13	GLN
15	IO	37	ASN
15	IO	50	HIS
15	IO	62	GLN
15	IO	71	GLN

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Mol	Chain	Res	Type
16	IP	13	HIS
16	IP	65	GLN
17	IQ	16	GLN
17	IQ	26	GLN
17	IQ	45	HIS
17	IQ	94	ASN
17	IQ	96	GLN
18	IR	36	ASN
19	IS	53	ASN
19	IS	56	GLN
20	IT	26	ASN
20	IT	42	GLN
24	JD	15	GLN
24	JD	45	ASN
24	JD	58	HIS
24	JD	76	ASN
24	JD	118	ASN
24	JD	154	GLN
24	JD	201	HIS
24	JD	203	ASN
24	JD	227	ASN
25	JE	13	GLN
25	JE	35	GLN
25	JE	48	GLN
25	JE	60	ASN
25	JE	169	ASN
25	JE	192	ASN
26	JF	9	GLN
26	JF	10	ASN
26	JF	34	GLN
26	JF	66	ASN
26	JF	163	ASN
26	JF	176	ASN
27	JG	18	GLN
27	JG	19	GLN
27	JG	63	GLN
27	JG	76	ASN
27	JG	81	GLN
27	JG	127	ASN
27	JG	171	GLN
28	JH	18	ASN
28	JH	38	ASN

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Mol	Chain	Res	Type
28	JH	45	GLN
28	JH	49	GLN
28	JH	74	ASN
28	JH	86	ASN
28	JH	139	GLN
28	JH	147	ASN
29	JI	27	ASN
30	JJ	29	GLN
30	JJ	42	ASN
30	JJ	92	ASN
30	JJ	125	ASN
31	JK	39	GLN
31	JK	40	ASN
31	JK	66	HIS
31	JK	161	GLN
31	JK	164	GLN
32	JL	13	ASN
32	JL	26	ASN
32	JL	46	HIS
32	JL	94	ASN
33	JM	37	GLN
33	JM	67	ASN
33	JM	81	GLN
33	JM	103	ASN
34	JN	114	GLN
35	JO	3	HIS
35	JO	13	ASN
35	JO	35	GLN
35	JO	68	GLN
36	JP	37	HIS
36	JP	49	GLN
37	JQ	23	GLN
37	JQ	43	ASN
37	JQ	58	ASN
37	JQ	90	GLN
38	JR	34	ASN
38	JR	66	ASN
38	JR	87	ASN
39	JS	57	GLN
39	JS	79	GLN
39	JS	99	GLN
40	JT	13	GLN

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Mol	Chain	Res	Type
40	JT	73	ASN
40	JT	78	ASN
40	JT	82	ASN
41	JU	8	GLN
41	JU	57	ASN
41	JU	71	GLN
41	JU	86	GLN
41	JU	94	GLN
42	JV	9	HIS
42	JV	32	GLN
42	JV	44	GLN
42	JV	52	ASN
42	JV	57	ASN
42	JV	64	ASN
42	JV	69	GLN
42	JV	71	GLN
43	JW	12	GLN
43	JW	25	ASN
43	JW	28	ASN
43	JW	29	ASN
43	JW	45	GLN
43	JW	99	HIS
43	JW	105	GLN
43	JW	109	GLN
43	JW	132	GLN
43	JW	142	ASN
44	JX	12	ASN
44	JX	17	ASN
44	JX	40	GLN
44	JX	49	GLN
45	JY	10	GLN
45	JY	66	GLN
46	JZ	21	GLN
46	JZ	54	GLN
47	J1	17	GLN
48	J2	29	ASN
48	J2	37	HIS
50	J4	8	ASN
50	J4	41	GLN
51	J5	7	HIS
51	J5	33	ASN
52	J6	29	ASN

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Mol	Chain	Res	Type
53	J7	91	GLN
53	J7	94	GLN
53	J7	106	GLN
53	J7	188	ASN
53	J7	199	ASN

5.3.3 RNA ⓘ

Mol	Chain	Analysed	Backbone Outliers	Pucker Outliers
1	AA	1521/1526 (99%)	348 (22%)	56 (3%)
1	CA	1521/1526 (99%)	348 (22%)	57 (3%)
1	EA	1522/1526 (99%)	349 (22%)	57 (3%)
1	GA	1522/1526 (99%)	349 (22%)	56 (3%)
1	IA	1522/1526 (99%)	348 (22%)	57 (3%)
22	BB	2801/2825 (99%)	768 (27%)	35 (1%)
22	DB	2804/2825 (99%)	771 (27%)	36 (1%)
22	FB	2801/2825 (99%)	768 (27%)	38 (1%)
22	HB	2803/2825 (99%)	768 (27%)	36 (1%)
22	JB	2804/2825 (99%)	765 (27%)	37 (1%)
23	BA	117/119 (98%)	30 (25%)	1 (0%)
23	DA	117/119 (98%)	30 (25%)	1 (0%)
23	FA	117/119 (98%)	31 (26%)	1 (0%)
23	HA	117/119 (98%)	30 (25%)	1 (0%)
23	JA	117/119 (98%)	30 (25%)	1 (0%)
All	All	22206/22350 (99%)	5733 (25%)	470 (2%)

All (5733) RNA backbone outliers are listed below:

Mol	Chain	Res	Type
1	AA	7	G
1	AA	8	A
1	AA	9	G
1	AA	31	G
1	AA	32	A
1	AA	39	G
1	AA	48	C
1	AA	49	U
1	AA	50	A
1	AA	51	A
1	AA	52	G
1	AA	61	G

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Mol	Chain	Res	Type
1	AA	78	G
1	AA	79	G
1	AA	80	C
1	AA	84	U
1	AA	85	U
1	AA	86	G
1	AA	87	G
1	AA	91	C
1	AA	98	U
1	AA	99	C
1	AA	101	A
1	AA	112	G
1	AA	116	A
1	AA	120	A
1	AA	121	C
1	AA	127	G
1	AA	129(A)	G
1	AA	130	A
1	AA	131	C
1	AA	140	A
1	AA	145	G
1	AA	146	G
1	AA	174	C
1	AA	182	U
1	AA	183	G
1	AA	195	A
1	AA	196	A
1	AA	198	G
1	AA	205	G
1	AA	209	U
1	AA	210	C
1	AA	211	G
1	AA	226	G
1	AA	243	A
1	AA	244	U
1	AA	247	G
1	AA	251	G
1	AA	252	U
1	AA	258	G
1	AA	266	G
1	AA	280	C
1	AA	281	G

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Mol	Chain	Res	Type
1	AA	283	C
1	AA	289	G
1	AA	297	G
1	AA	312	C
1	AA	328	C
1	AA	329	A
1	AA	330	C
1	AA	332	G
1	AA	344	A
1	AA	345	C
1	AA	346	G
1	AA	347	G
1	AA	348	G
1	AA	350	G
1	AA	352	C
1	AA	353	A
1	AA	366	C
1	AA	367	U
1	AA	372	C
1	AA	373	A
1	AA	374	A
1	AA	384	G
1	AA	388	G
1	AA	391	G
1	AA	394	G
1	AA	395	C
1	AA	397	A
1	AA	398	C
1	AA	411	A
1	AA	412	A
1	AA	413	G
1	AA	414	A
1	AA	421	U
1	AA	423	G
1	AA	429	U
1	AA	430	A
1	AA	439	A
1	AA	446	G
1	AA	452	A
1	AA	458	G
1	AA	464	U
1	AA	467	U

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Mol	Chain	Res	Type
1	AA	479	C
1	AA	482	A
1	AA	485	G
1	AA	486	U
1	AA	494	G
1	AA	496	A
1	AA	498	U
1	AA	508	C
1	AA	509	A
1	AA	510	A
1	AA	511	C
1	AA	518	C
1	AA	519	C
1	AA	526	C
1	AA	527	G
1	AA	531	U
1	AA	532	A
1	AA	533	A
1	AA	534	U
1	AA	536	C
1	AA	547	A
1	AA	549	C
1	AA	552	U
1	AA	556	C
1	AA	560	U
1	AA	561	U
1	AA	562	C
1	AA	564	C
1	AA	572	A
1	AA	575	G
1	AA	576	G
1	AA	577	G
1	AA	584	G
1	AA	588	G
1	AA	607	A
1	AA	610	G
1	AA	611	A
1	AA	625	G
1	AA	629	G
1	AA	630	G
1	AA	632	A
1	AA	638	G

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Mol	Chain	Res	Type
1	AA	653	A
1	AA	672	U
1	AA	679	C
1	AA	685	G
1	AA	686	U
1	AA	687	A
1	AA	688	G
1	AA	695	A
1	AA	700	G
1	AA	702	A
1	AA	703	G
1	AA	705	U
1	AA	718	G
1	AA	721	G
1	AA	723	U
1	AA	724	G
1	AA	734	G
1	AA	738	C
1	AA	748	C
1	AA	749	C
1	AA	755	G
1	AA	781	A
1	AA	782	A
1	AA	793	U
1	AA	794	A
1	AA	795	C
1	AA	804	U
1	AA	813	U
1	AA	815	A
1	AA	817	C
1	AA	819	A
1	AA	821	G
1	AA	828	A
1	AA	841	C
1	AA	843	C
1	AA	844	A
1	AA	845	A
1	AA	864	A
1	AA	867	G
1	AA	873	A
1	AA	874	G
1	AA	890	G

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Mol	Chain	Res	Type
1	AA	891	U
1	AA	900	A
1	AA	902	G
1	AA	913	A
1	AA	914	A
1	AA	927	G
1	AA	934	C
1	AA	935	A
1	AA	945	G
1	AA	948	C
1	AA	958	A
1	AA	959	A
1	AA	960	U
1	AA	961	U
1	AA	966	G
1	AA	968	A
1	AA	969	A
1	AA	974	A
1	AA	975	A
1	AA	976	G
1	AA	977	A
1	AA	979	C
1	AA	983	A
1	AA	985	C
1	AA	992	U
1	AA	993	G
1	AA	994	A
1	AA	995	C
1	AA	1002	G
1	AA	1003	G
1	AA	1004	A
1	AA	1023	G
1	AA	1024	G
1	AA	1025	U
1	AA	1026	G
1	AA	1027	C
1	AA	1029	U
1	AA	1030	U
1	AA	1031	C
1	AA	1032	G
1	AA	1033	G
1	AA	1035	A

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Mol	Chain	Res	Type
1	AA	1036	G
1	AA	1045	C
1	AA	1049	U
1	AA	1050	G
1	AA	1054	C
1	AA	1055	A
1	AA	1063	C
1	AA	1064	G
1	AA	1065	U
1	AA	1066	C
1	AA	1068	G
1	AA	1085	U
1	AA	1086	U
1	AA	1094	G
1	AA	1095	U
1	AA	1101	A
1	AA	1102	A
1	AA	1111	A
1	AA	1117	G
1	AA	1125	U
1	AA	1126	U
1	AA	1129	C
1	AA	1130	A
1	AA	1131	G
1	AA	1134	G
1	AA	1136	U
1	AA	1137	C
1	AA	1138	G
1	AA	1139	G
1	AA	1145	C
1	AA	1152	A
1	AA	1159	U
1	AA	1160	G
1	AA	1167	A
1	AA	1171	G
1	AA	1177	G
1	AA	1181	G
1	AA	1183	A
1	AA	1184	G
1	AA	1187	G
1	AA	1190	G
1	AA	1196	U

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Mol	Chain	Res	Type
1	AA	1197	G
1	AA	1198	G
1	AA	1201	A
1	AA	1202	G
1	AA	1212	U
1	AA	1213	A
1	AA	1214	C
1	AA	1215	G
1	AA	1224	G
1	AA	1225	A
1	AA	1226	C
1	AA	1227	A
1	AA	1229	A
1	AA	1240	U
1	AA	1249	C
1	AA	1253	G
1	AA	1254	C
1	AA	1256	A
1	AA	1257	U
1	AA	1258	G
1	AA	1268	A
1	AA	1271	G
1	AA	1279	A
1	AA	1280	A
1	AA	1281	U
1	AA	1282	C
1	AA	1285	A
1	AA	1287	A
1	AA	1292	U
1	AA	1300	G
1	AA	1305	G
1	AA	1311	G
1	AA	1314	C
1	AA	1317	C
1	AA	1318	A
1	AA	1320	C
1	AA	1322	C
1	AA	1323	G
1	AA	1326	C
1	AA	1328	C
1	AA	1339	A
1	AA	1340	A

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Mol	Chain	Res	Type
1	AA	1345	U
1	AA	1347	G
1	AA	1348	U
1	AA	1362	C
1	AA	1363	A
1	AA	1365	G
1	AA	1378	C
1	AA	1379	G
1	AA	1381	U
1	AA	1391	U
1	AA	1397	C
1	AA	1398	A
1	AA	1435	G
1	AA	1441	G
1	AA	1447	A
1	AA	1448	C
1	AA	1449	C
1	AA	1450	U
1	AA	1451	A
1	AA	1452	C
1	AA	1453	G
1	AA	1454	G
1	AA	1455	G
1	AA	1456	A
1	AA	1461	G
1	AA	1463	C
1	AA	1464	G
1	AA	1465	C
1	AA	1473	A
1	AA	1483	A
1	AA	1491	G
1	AA	1493	A
1	AA	1499	A
1	AA	1504	G
1	AA	1505	G
1	AA	1506	U
1	AA	1517	G
1	AA	1520	G
1	AA	1523	G
1	AA	1529	G
1	AA	1530	G
1	AA	1531	A

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Mol	Chain	Res	Type
22	BB	15	G
22	BB	35	G
22	BB	45	C
22	BB	48	A
22	BB	49	U
22	BB	59	G
22	BB	64	C
22	BB	68	C
22	BB	71	A
22	BB	72	A
22	BB	76	C
22	BB	87	G
22	BB	89	A
22	BB	91	A
22	BB	99	U
22	BB	100	G
22	BB	111	G
22	BB	116	A
22	BB	117	A
22	BB	118	U
22	BB	119	G
22	BB	122	G
22	BB	123	A
22	BB	125	A
22	BB	131	C
22	BB	135	U
22	BB	137	A
22	BB	140	G
22	BB	143	A
22	BB	148	C
22	BB	149	A
22	BB	151	G
22	BB	152	G
22	BB	155	G
22	BB	158	A
22	BB	165	G
22	BB	173	A
22	BB	174	A
22	BB	176	A
22	BB	181	A
22	BB	182	G
22	BB	193	A

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Mol	Chain	Res	Type
22	BB	198	A
22	BB	199	A
22	BB	200	A
22	BB	206	U
22	BB	207	U
22	BB	209	G
22	BB	211	U
22	BB	218	A
22	BB	219	G
22	BB	225	G
22	BB	226	C
22	BB	227	G
22	BB	232	A
22	BB	235	C
22	BB	241	C
22	BB	243	G
22	BB	246	C
22	BB	247	A
22	BB	248	A
22	BB	295	C
22	BB	301	C
22	BB	302	U
22	BB	304	A
22	BB	305	A
22	BB	312	G
22	BB	319	G
22	BB	320	A
22	BB	321	A
22	BB	327	C
22	BB	334	G
22	BB	335	A
22	BB	340	G
22	BB	342	G
22	BB	343	A
22	BB	346	C
22	BB	353	G
22	BB	360	A
22	BB	362	C
22	BB	364	G
22	BB	368	A
22	BB	370	U
22	BB	371	G

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Mol	Chain	Res	Type
22	BB	373	A
22	BB	399	G
22	BB	400	U
22	BB	401	G
22	BB	405	C
22	BB	407	A
22	BB	409	G
22	BB	414	A
22	BB	418	C
22	BB	421	G
22	BB	424	G
22	BB	425	A
22	BB	435	A
22	BB	436	A
22	BB	437	G
22	BB	438	G
22	BB	441	A
22	BB	442	A
22	BB	448	C
22	BB	455	A
22	BB	456	C
22	BB	460	U
22	BB	461	A
22	BB	463	C
22	BB	464	G
22	BB	467	U
22	BB	469	G
22	BB	472	C
22	BB	478	G
22	BB	491	A
22	BB	492	G
22	BB	493	A
22	BB	496	C
22	BB	503	G
22	BB	512	A
22	BB	515	A
22	BB	516	G
22	BB	518	A
22	BB	519	C
22	BB	537	C
22	BB	539	A
22	BB	540	G

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Mol	Chain	Res	Type
22	BB	542	A
22	BB	547	U
22	BB	553	C
22	BB	554	U
22	BB	555	U
22	BB	556	A
22	BB	557	U
22	BB	559	C
22	BB	560	G
22	BB	562	G
22	BB	569	C
22	BB	572	G
22	BB	576	A
22	BB	582	G
22	BB	583	C
22	BB	584	A
22	BB	595	A
22	BB	596	C
22	BB	601	A
22	BB	602	C
22	BB	603	C
22	BB	611	C
22	BB	613	A
22	BB	619	A
22	BB	624	A
22	BB	626	A
22	BB	628	A
22	BB	632	A
22	BB	637	G
22	BB	638	A
22	BB	649	G
22	BB	653	G
22	BB	654	A
22	BB	656	U
22	BB	657	A
22	BB	663	G
22	BB	665	A
22	BB	667	U
22	BB	675	C
22	BB	681	A
22	BB	684	C
22	BB	687	G

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Mol	Chain	Res	Type
22	BB	690	A
22	BB	697	G
22	BB	699	G
22	BB	700	C
22	BB	712	A
22	BB	717	G
22	BB	726	G
22	BB	728	G
22	BB	731	A
22	BB	738	G
22	BB	742	G
22	BB	743	A
22	BB	753	U
22	BB	760	U
22	BB	762	A
22	BB	765	C
22	BB	776	G
22	BB	777	A
22	BB	778	G
22	BB	785	U
22	BB	786	U
22	BB	787	A
22	BB	789	G
22	BB	794	A
22	BB	795	A
22	BB	796	A
22	BB	797	A
22	BB	798	G
22	BB	802	A
22	BB	804	C
22	BB	805	G
22	BB	806	A
22	BB	807	A
22	BB	813	A
22	BB	815	A
22	BB	818	G
22	BB	825	C
22	BB	832	A
22	BB	840	U
22	BB	841	G
22	BB	843	G
22	BB	844	G

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Mol	Chain	Res	Type
22	BB	872	G
22	BB	873	U
22	BB	874	A
22	BB	875	G
22	BB	879	A
22	BB	883	A
22	BB	893	G
22	BB	895	G
22	BB	902	U
22	BB	904	U
22	BB	918	A
22	BB	919	U
22	BB	922	A
22	BB	924	C
22	BB	926	C
22	BB	930	A
22	BB	931	G
22	BB	938	G
22	BB	939	C
22	BB	940	G
22	BB	941	U
22	BB	942	U
22	BB	943	U
22	BB	944	A
22	BB	950	G
22	BB	951	G
22	BB	952	A
22	BB	956	A
22	BB	957	G
22	BB	968	C
22	BB	969	U
22	BB	970	A
22	BB	972	C
22	BB	973	U
22	BB	984	A
22	BB	995	A
22	BB	996	C
22	BB	1005	U
22	BB	1006	C
22	BB	1019	U
22	BB	1022	A
22	BB	1023	U

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Mol	Chain	Res	Type
22	BB	1024	G
22	BB	1028	G
22	BB	1030	U
22	BB	1032	A
22	BB	1033	G
22	BB	1036	G
22	BB	1037	U
22	BB	1044	U
22	BB	1045	G
22	BB	1049	C
22	BB	1054	C
22	BB	1055	A
22	BB	1056	U
22	BB	1057	A
22	BB	1058	G
22	BB	1059	A
22	BB	1071	U
22	BB	1072	U
22	BB	1073	G
22	BB	1077	U
22	BB	1079	G
22	BB	1082	G
22	BB	1090	C
22	BB	1092	U
22	BB	1094	C
22	BB	1100	G
22	BB	1120	C
22	BB	1121	G
22	BB	1122	A
22	BB	1130	U
22	BB	1137	A
22	BB	1138	A
22	BB	1139	A
22	BB	1141	U
22	BB	1142	G
22	BB	1143	A
22	BB	1144	U
22	BB	1145	C
22	BB	1146	G
22	BB	1152	C
22	BB	1153	A
22	BB	1159	U

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Mol	Chain	Res	Type
22	BB	1166	A
22	BB	1167	A
22	BB	1181	C
22	BB	1186	G
22	BB	1189	G
22	BB	1195	U
22	BB	1199	U
22	BB	1200	G
22	BB	1209	G
22	BB	1218	C
22	BB	1224	A
22	BB	1225	G
22	BB	1226	A
22	BB	1228	G
22	BB	1234	C
22	BB	1245	G
22	BB	1250	A
22	BB	1251	G
22	BB	1253	C
22	BB	1262	U
22	BB	1264	C
22	BB	1265	G
22	BB	1268	U
22	BB	1269	G
22	BB	1278	A
22	BB	1279	G
22	BB	1281	A
22	BB	1284	G
22	BB	1285	A
22	BB	1287	A
22	BB	1288	A
22	BB	1289	A
22	BB	1302	C
22	BB	1304	U
22	BB	1310	C
22	BB	1313	U
22	BB	1314	A
22	BB	1315	A
22	BB	1324	G
22	BB	1325	U
22	BB	1327	C
22	BB	1330	G

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Mol	Chain	Res	Type
22	BB	1332	G
22	BB	1333	G
22	BB	1334	A
22	BB	1338	G
22	BB	1339	U
22	BB	1342	U
22	BB	1345	G
22	BB	1354	A
22	BB	1355	A
22	BB	1356	G
22	BB	1359	G
22	BB	1363	C
22	BB	1375	C
22	BB	1386	A
22	BB	1389	C
22	BB	1390	G
22	BB	1391	A
22	BB	1392	U
22	BB	1393	G
22	BB	1396	C
22	BB	1397	A
22	BB	1398	G
22	BB	1402	G
22	BB	1405	A
22	BB	1408	A
22	BB	1411	C
22	BB	1417	C
22	BB	1421	U
22	BB	1424	U
22	BB	1427	G
22	BB	1429	A
22	BB	1430	G
22	BB	1434	U
22	BB	1435	G
22	BB	1437	A
22	BB	1441	A
22	BB	1442	C
22	BB	1443	G
22	BB	1449	C
22	BB	1454	U
22	BB	1458	A
22	BB	1459	U

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Mol	Chain	Res	Type
22	BB	1460	G
22	BB	1465	G
22	BB	1468	A
22	BB	1469	U
22	BB	1470	G
22	BB	1475	U
22	BB	1482	U
22	BB	1483	G
22	BB	1484	G
22	BB	1489	C
22	BB	1490	U
22	BB	1491	C
22	BB	1493	A
22	BB	1495	G
22	BB	1496	G
22	BB	1497	C
22	BB	1504	G
22	BB	1505	U
22	BB	1510	A
22	BB	1511	A
22	BB	1514	C
22	BB	1522	C
22	BB	1524	C
22	BB	1525	A
22	BB	1526	U
22	BB	1527	G
22	BB	1529	C
22	BB	1535	C
22	BB	1536	G
22	BB	1539	U
22	BB	1540	C
22	BB	1543	G
22	BB	1545	G
22	BB	1547	U
22	BB	1550	C
22	BB	1551	U
22	BB	1552	C
22	BB	1554	G
22	BB	1562	G
22	BB	1571	G
22	BB	1573	G
22	BB	1574	A

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Mol	Chain	Res	Type
22	BB	1575	C
22	BB	1576	G
22	BB	1581	C
22	BB	1582	A
22	BB	1583	A
22	BB	1584	G
22	BB	1585	A
22	BB	1590	C
22	BB	1591	U
22	BB	1601	U
22	BB	1614	C
22	BB	1616	C
22	BB	1619	A
22	BB	1622	G
22	BB	1623	C
22	BB	1624	A
22	BB	1625	A
22	BB	1626	A
22	BB	1627	C
22	BB	1632	A
22	BB	1633	C
22	BB	1634	A
22	BB	1637	U
22	BB	1643	A
22	BB	1648	C
22	BB	1651	U
22	BB	1652	G
22	BB	1657	A
22	BB	1664	G
22	BB	1665	C
22	BB	1670	G
22	BB	1671	A
22	BB	1681	A
22	BB	1684	G
22	BB	1686	A
22	BB	1687	C
22	BB	1690	U
22	BB	1691	G
22	BB	1706	A
22	BB	1710	U
22	BB	1711	C
22	BB	1712	G

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Mol	Chain	Res	Type
22	BB	1715	A
22	BB	1716	G
22	BB	1717	A
22	BB	1731	C
22	BB	1732	U
22	BB	1733	U
22	BB	1734	C
22	BB	1738	U
22	BB	1747	G
22	BB	1748	U
22	BB	1749	G
22	BB	1750	A
22	BB	1754	G
22	BB	1755	G
22	BB	1764	A
22	BB	1768	U
22	BB	1771	A
22	BB	1772	C
22	BB	1773	C
22	BB	1775	A
22	BB	1778	U
22	BB	1787	U
22	BB	1791	C
22	BB	1792	C
22	BB	1793	A
22	BB	1800	A
22	BB	1801	C
22	BB	1802	A
22	BB	1808	C
22	BB	1821	A
22	BB	1828	C
22	BB	1829	C
22	BB	1831	G
22	BB	1840	A
22	BB	1845	A
22	BB	3867	G
22	BB	3870	C
22	BB	3873	G
22	BB	3874	C
22	BB	3876	A
22	BB	3877	A
22	BB	1867	A

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Mol	Chain	Res	Type
22	BB	1874	G
22	BB	1879	G
22	BB	1882	G
22	BB	1884	A
22	BB	1890	G
22	BB	1898	U
22	BB	1900	U
22	BB	1903	C
22	BB	1909	U
22	BB	1910	A
22	BB	1919	A
22	BB	1920	A
22	BB	1921	A
22	BB	1922	U
22	BB	1923	U
22	BB	1926	U
22	BB	1928	G
22	BB	1938	U
22	BB	1939	U
22	BB	1940	C
22	BB	1946	U
22	BB	1947	G
22	BB	1949	A
22	BB	1950	C
22	BB	1953	A
22	BB	1954	A
22	BB	1955	G
22	BB	1956	G
22	BB	1964	A
22	BB	1976	U
22	BB	1979	C
22	BB	1980	A
22	BB	1985	G
22	BB	1988	A
22	BB	2004	U
22	BB	2006	G
22	BB	2015	G
22	BB	2016	A
22	BB	2018	G
22	BB	2019	C
22	BB	2034	A
22	BB	2035	G

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Mol	Chain	Res	Type
22	BB	2038	C
22	BB	2039	G
22	BB	2044	G
22	BB	2045	A
22	BB	2051	U
22	BB	2052	G
22	BB	2060	A
22	BB	2061	C
22	BB	2063	A
22	BB	2075	U
22	BB	3097	G
22	BB	3107	G
22	BB	3109	U
22	BB	3111	C
22	BB	3116	G
22	BB	3117	A
22	BB	3119	A
22	BB	3120	G
22	BB	3126	A
22	BB	3136	C
22	BB	3146	A
22	BB	3147	C
22	BB	3148	G
22	BB	3158	A
22	BB	3166	G
22	BB	3170	A
22	BB	3172	U
22	BB	3173	A
22	BB	3185	U
22	BB	3191	A
22	BB	2181	A
22	BB	2182	A
22	BB	2184	C
22	BB	2185	U
22	BB	2186	G
22	BB	2187	A
22	BB	2191	A
22	BB	2195	C
22	BB	2196	U
22	BB	2198	U
22	BB	2199	C
22	BB	2204	A

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Mol	Chain	Res	Type
22	BB	2205	C
22	BB	2206	C
22	BB	2218	G
22	BB	2227	C
22	BB	2228	U
22	BB	2229	G
22	BB	2241	U
22	BB	2242	C
22	BB	2245	A
22	BB	2246	A
22	BB	2247	A
22	BB	2250	G
22	BB	2255	G
22	BB	2257	A
22	BB	2261	G
22	BB	2262	C
22	BB	2268	G
22	BB	2276	C
22	BB	2278	A
22	BB	2281	C
22	BB	2284	U
22	BB	2285	U
22	BB	2286	G
22	BB	2287	G
22	BB	2288	A
22	BB	2291	U
22	BB	2295	C
22	BB	2298	U
22	BB	2300	G
22	BB	2301	A
22	BB	2313	G
22	BB	2314	A
22	BB	2315	A
22	BB	2316	G
22	BB	2325	A
22	BB	2326	C
22	BB	2329	C
22	BB	2337	A
22	BB	2340	C
22	BB	2350	G
22	BB	2361	G
22	BB	2362	G

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Mol	Chain	Res	Type
22	BB	2364	C
22	BB	2367	A
22	BB	2368	G
22	BB	2369	U
22	BB	2371	A
22	BB	2378	G
22	BB	2382	C
22	BB	2385	U
22	BB	2386	G
22	BB	2390	A
22	BB	2392	G
22	BB	2396	C
22	BB	2402	U
22	BB	2403	C
22	BB	2404	A
22	BB	2405	A
22	BB	2406	C
22	BB	2408	G
22	BB	2409	A
22	BB	2410	U
22	BB	2419	C
22	BB	2420	C
22	BB	2424	G
22	BB	2427	A
22	BB	2428	U
22	BB	2431	C
22	BB	2445	C
22	BB	2455	A
22	BB	2458	U
22	BB	2470	U
22	BB	2472	U
22	BB	2476	A
22	BB	2477	C
22	BB	2478	C
22	BB	2480	C
22	BB	2481	G
22	BB	2482	A
22	BB	2483	U
22	BB	2484	G
22	BB	2485	U
22	BB	2492	G
22	BB	2493	U

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Mol	Chain	Res	Type
22	BB	2498	U
22	BB	2499	C
22	BB	2508	G
22	BB	2509	A
22	BB	2511	G
22	BB	2522	G
22	BB	2532	G
22	BB	2546	G
22	BB	2549	G
22	BB	2557	G
22	BB	2561	G
22	BB	2562	G
22	BB	2565	C
22	BB	2567	G
22	BB	2572	U
22	BB	2574	G
22	BB	2578	G
22	BB	2581	A
22	BB	2582	G
22	BB	2588	U
22	BB	2590	U
22	BB	2591	C
22	BB	2592	U
22	BB	2593	A
22	BB	2594	U
22	BB	2604	G
22	BB	2609	G
22	BB	2618	A
22	BB	2620	G
22	BB	2623	A
22	BB	2625	U
22	BB	2633	A
22	BB	2634	G
22	BB	2639	A
22	BB	2644	A
22	BB	2649	A
22	BB	2660	C
22	BB	2661	G
22	BB	2663	U
22	BB	2667	C
22	BB	2668	U
22	BB	2670	C

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Mol	Chain	Res	Type
22	BB	2680	U
22	BB	2681	A
22	BB	2684	A
22	BB	2685	A
22	BB	2691	C
22	BB	2692	A
22	BB	2699	G
22	BB	2706	U
22	BB	2712	G
22	BB	2713	A
22	BB	2714	A
22	BB	2722	C
22	BB	2728	A
22	BB	2730	A
22	BB	2731	G
22	BB	2732	C
22	BB	2736	U
22	BB	2737	A
22	BB	2738	A
22	BB	2745	A
22	BB	2756	A
22	BB	2758	A
22	BB	2760	G
22	BB	2770	A
22	BB	2772	U
22	BB	2774	U
22	BB	2780	A
22	BB	2781	G
22	BB	2783	U
22	BB	2784	A
22	BB	2787	A
22	BB	2790	C
22	BB	2793	G
22	BB	2794	G
22	BB	2795	A
22	BB	2798	A
22	BB	2800	C
22	BB	2805	G
22	BB	2808	U
22	BB	2809	A
22	BB	2810	A
22	BB	2811	G

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Mol	Chain	Res	Type
22	BB	2823	G
22	BB	2824	C
22	BB	2841	U
22	BB	2842	C
22	BB	2843	A
22	BB	2847	G
22	BB	2849	C
22	BB	2855	C
22	BB	2856	U
22	BB	2859	U
22	BB	2865	G
22	BB	2867	G
23	BA	5	C
23	BA	13	C
23	BA	14	C
23	BA	15	A
23	BA	16	U
23	BA	17	A
23	BA	25	G
23	BA	26	G
23	BA	27	A
23	BA	37	C
23	BA	42	U
23	BA	46	G
23	BA	47	A
23	BA	48	A
23	BA	51	G
23	BA	54	U
23	BA	59	A
23	BA	62	C
23	BA	72	C
23	BA	76	U
23	BA	78	A
23	BA	89	G
23	BA	90	C
23	BA	91	A
23	BA	93	G
23	BA	99	G
23	BA	102	A
23	BA	111	C
23	BA	112	A
23	BA	119	G

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Mol	Chain	Res	Type
1	CA	7	G
1	CA	8	A
1	CA	9	G
1	CA	31	G
1	CA	32	A
1	CA	39	G
1	CA	48	C
1	CA	49	U
1	CA	50	A
1	CA	51	A
1	CA	52	G
1	CA	61	G
1	CA	66	G
1	CA	78	G
1	CA	79	G
1	CA	80	C
1	CA	84	U
1	CA	85	U
1	CA	86	G
1	CA	87	G
1	CA	91	C
1	CA	98	U
1	CA	99	C
1	CA	101	A
1	CA	112	G
1	CA	116	A
1	CA	120	A
1	CA	121	C
1	CA	127	G
1	CA	129(A)	G
1	CA	130	A
1	CA	131	C
1	CA	140	A
1	CA	145	G
1	CA	146	G
1	CA	174	C
1	CA	182	U
1	CA	183	G
1	CA	195	A
1	CA	196	A
1	CA	198	G
1	CA	205	G

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Mol	Chain	Res	Type
1	CA	209	U
1	CA	210	C
1	CA	211	G
1	CA	226	G
1	CA	243	A
1	CA	244	U
1	CA	247	G
1	CA	251	G
1	CA	252	U
1	CA	258	G
1	CA	266	G
1	CA	280	C
1	CA	281	G
1	CA	283	C
1	CA	289	G
1	CA	297	G
1	CA	312	C
1	CA	328	C
1	CA	329	A
1	CA	330	C
1	CA	332	G
1	CA	344	A
1	CA	345	C
1	CA	346	G
1	CA	347	G
1	CA	348	G
1	CA	350	G
1	CA	352	C
1	CA	353	A
1	CA	366	C
1	CA	367	U
1	CA	372	C
1	CA	373	A
1	CA	374	A
1	CA	384	G
1	CA	388	G
1	CA	391	G
1	CA	394	G
1	CA	395	C
1	CA	397	A
1	CA	398	C
1	CA	411	A

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Mol	Chain	Res	Type
1	CA	412	A
1	CA	413	G
1	CA	414	A
1	CA	421	U
1	CA	423	G
1	CA	429	U
1	CA	430	A
1	CA	439	A
1	CA	446	G
1	CA	452	A
1	CA	458	G
1	CA	464	U
1	CA	467	U
1	CA	479	C
1	CA	482	A
1	CA	485	G
1	CA	486	U
1	CA	494	G
1	CA	496	A
1	CA	498	U
1	CA	508	C
1	CA	509	A
1	CA	510	A
1	CA	511	C
1	CA	518	C
1	CA	519	C
1	CA	526	C
1	CA	527	G
1	CA	531	U
1	CA	532	A
1	CA	533	A
1	CA	534	U
1	CA	536	C
1	CA	547	A
1	CA	549	C
1	CA	552	U
1	CA	556	C
1	CA	560	U
1	CA	561	U
1	CA	562	C
1	CA	564	C
1	CA	572	A

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Mol	Chain	Res	Type
1	CA	575	G
1	CA	576	G
1	CA	577	G
1	CA	584	G
1	CA	588	G
1	CA	607	A
1	CA	610	G
1	CA	611	A
1	CA	625	G
1	CA	629	G
1	CA	630	G
1	CA	632	A
1	CA	638	G
1	CA	653	A
1	CA	672	U
1	CA	679	C
1	CA	685	G
1	CA	686	U
1	CA	687	A
1	CA	688	G
1	CA	695	A
1	CA	700	G
1	CA	702	A
1	CA	703	G
1	CA	705	U
1	CA	718	G
1	CA	721	G
1	CA	723	U
1	CA	724	G
1	CA	734	G
1	CA	738	C
1	CA	748	C
1	CA	749	C
1	CA	755	G
1	CA	781	A
1	CA	782	A
1	CA	793	U
1	CA	794	A
1	CA	795	C
1	CA	804	U
1	CA	813	U
1	CA	815	A

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Mol	Chain	Res	Type
1	CA	817	C
1	CA	819	A
1	CA	821	G
1	CA	828	A
1	CA	841	C
1	CA	843	C
1	CA	844	A
1	CA	845	A
1	CA	864	A
1	CA	867	G
1	CA	873	A
1	CA	874	G
1	CA	890	G
1	CA	891	U
1	CA	900	A
1	CA	902	G
1	CA	913	A
1	CA	914	A
1	CA	927	G
1	CA	934	C
1	CA	935	A
1	CA	945	G
1	CA	948	C
1	CA	958	A
1	CA	959	A
1	CA	960	U
1	CA	961	U
1	CA	966	G
1	CA	968	A
1	CA	969	A
1	CA	974	A
1	CA	975	A
1	CA	976	G
1	CA	977	A
1	CA	979	C
1	CA	983	A
1	CA	985	C
1	CA	992	U
1	CA	993	G
1	CA	994	A
1	CA	995	C
1	CA	1002	G

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Mol	Chain	Res	Type
1	CA	1003	G
1	CA	1004	A
1	CA	1023	G
1	CA	1024	G
1	CA	1025	U
1	CA	1026	G
1	CA	1027	C
1	CA	1029	U
1	CA	1030	U
1	CA	1031	C
1	CA	1032	G
1	CA	1033	G
1	CA	1035	A
1	CA	1036	G
1	CA	1045	C
1	CA	1049	U
1	CA	1050	G
1	CA	1054	C
1	CA	1055	A
1	CA	1063	C
1	CA	1064	G
1	CA	1065	U
1	CA	1066	C
1	CA	1068	G
1	CA	1085	U
1	CA	1086	U
1	CA	1094	G
1	CA	1095	U
1	CA	1101	A
1	CA	1102	A
1	CA	1111	A
1	CA	1117	G
1	CA	1125	U
1	CA	1126	U
1	CA	1129	C
1	CA	1130	A
1	CA	1131	G
1	CA	1134	G
1	CA	1136	U
1	CA	1137	C
1	CA	1138	G
1	CA	1139	G

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Mol	Chain	Res	Type
1	CA	1145	C
1	CA	1152	A
1	CA	1159	U
1	CA	1160	G
1	CA	1167	A
1	CA	1171	G
1	CA	1177	G
1	CA	1181	G
1	CA	1183	A
1	CA	1184	G
1	CA	1187	G
1	CA	1190	G
1	CA	1196	U
1	CA	1197	G
1	CA	1198	G
1	CA	1201	A
1	CA	1202	G
1	CA	1212	U
1	CA	1213	A
1	CA	1214	C
1	CA	1215	G
1	CA	1224	G
1	CA	1225	A
1	CA	1226	C
1	CA	1227	A
1	CA	1229	A
1	CA	1240	U
1	CA	1249	C
1	CA	1253	G
1	CA	1254	C
1	CA	1256	A
1	CA	1257	U
1	CA	1258	G
1	CA	1268	A
1	CA	1271	G
1	CA	1279	A
1	CA	1280	A
1	CA	1281	U
1	CA	1282	C
1	CA	1285	A
1	CA	1287	A
1	CA	1292	U

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Mol	Chain	Res	Type
1	CA	1300	G
1	CA	1305	G
1	CA	1311	G
1	CA	1314	C
1	CA	1317	C
1	CA	1318	A
1	CA	1320	C
1	CA	1322	C
1	CA	1323	G
1	CA	1326	C
1	CA	1328	C
1	CA	1339	A
1	CA	1340	A
1	CA	1347	G
1	CA	1348	U
1	CA	1362	C
1	CA	1363	A
1	CA	1365	G
1	CA	1378	C
1	CA	1379	G
1	CA	1381	U
1	CA	1391	U
1	CA	1397	C
1	CA	1398	A
1	CA	1435	G
1	CA	1441	G
1	CA	1447	A
1	CA	1448	C
1	CA	1449	C
1	CA	1450	U
1	CA	1451	A
1	CA	1452	C
1	CA	1453	G
1	CA	1454	G
1	CA	1455	G
1	CA	1456	A
1	CA	1461	G
1	CA	1463	C
1	CA	1464	G
1	CA	1465	C
1	CA	1473	A
1	CA	1483	A

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Mol	Chain	Res	Type
1	CA	1491	G
1	CA	1493	A
1	CA	1499	A
1	CA	1504	G
1	CA	1505	G
1	CA	1506	U
1	CA	1517	G
1	CA	1520	G
1	CA	1523	G
1	CA	1529	G
1	CA	1530	G
1	CA	1531	A
22	DB	15	G
22	DB	35	G
22	DB	45	C
22	DB	48	A
22	DB	49	U
22	DB	59	G
22	DB	64	C
22	DB	68	C
22	DB	71	A
22	DB	72	A
22	DB	76	C
22	DB	87	G
22	DB	89	A
22	DB	91	A
22	DB	99	U
22	DB	100	G
22	DB	111	G
22	DB	116	A
22	DB	117	A
22	DB	118	U
22	DB	119	G
22	DB	122	G
22	DB	123	A
22	DB	125	A
22	DB	131	C
22	DB	135	U
22	DB	137	A
22	DB	140	G
22	DB	143	A
22	DB	148	C

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Mol	Chain	Res	Type
22	DB	149	A
22	DB	151	G
22	DB	152	G
22	DB	155	G
22	DB	158	A
22	DB	165	G
22	DB	173	A
22	DB	174	A
22	DB	176	A
22	DB	181	A
22	DB	182	G
22	DB	193	A
22	DB	198	A
22	DB	199	A
22	DB	200	A
22	DB	206	U
22	DB	207	U
22	DB	209	G
22	DB	211	U
22	DB	218	A
22	DB	219	G
22	DB	225	G
22	DB	226	C
22	DB	227	G
22	DB	232	A
22	DB	235	C
22	DB	241	C
22	DB	243	G
22	DB	246	C
22	DB	247	A
22	DB	248	A
22	DB	295	C
22	DB	301	C
22	DB	302	U
22	DB	304	A
22	DB	305	A
22	DB	312	G
22	DB	319	G
22	DB	320	A
22	DB	321	A
22	DB	327	C
22	DB	334	G

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Mol	Chain	Res	Type
22	DB	335	A
22	DB	340	G
22	DB	342	G
22	DB	343	A
22	DB	346	C
22	DB	353	G
22	DB	360	A
22	DB	362	C
22	DB	364	G
22	DB	368	A
22	DB	370	U
22	DB	371	G
22	DB	373	A
22	DB	399	G
22	DB	400	U
22	DB	401	G
22	DB	405	C
22	DB	407	A
22	DB	409	G
22	DB	414	A
22	DB	418	C
22	DB	421	G
22	DB	424	G
22	DB	425	A
22	DB	435	A
22	DB	436	A
22	DB	437	G
22	DB	438	G
22	DB	441	A
22	DB	442	A
22	DB	448	C
22	DB	455	A
22	DB	456	C
22	DB	460	U
22	DB	461	A
22	DB	463	C
22	DB	464	G
22	DB	467	U
22	DB	469	G
22	DB	472	C
22	DB	478	G
22	DB	491	A

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Mol	Chain	Res	Type
22	DB	492	G
22	DB	493	A
22	DB	496	C
22	DB	503	G
22	DB	512	A
22	DB	515	A
22	DB	516	G
22	DB	518	A
22	DB	519	C
22	DB	537	C
22	DB	539	A
22	DB	540	G
22	DB	542	A
22	DB	547	U
22	DB	553	C
22	DB	554	U
22	DB	555	U
22	DB	556	A
22	DB	557	U
22	DB	559	C
22	DB	560	G
22	DB	562	G
22	DB	569	C
22	DB	572	G
22	DB	576	A
22	DB	582	G
22	DB	583	C
22	DB	584	A
22	DB	595	A
22	DB	596	C
22	DB	601	A
22	DB	602	C
22	DB	603	C
22	DB	611	C
22	DB	613	A
22	DB	619	A
22	DB	624	A
22	DB	626	A
22	DB	628	A
22	DB	632	A
22	DB	637	G
22	DB	638	A

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Mol	Chain	Res	Type
22	DB	649	G
22	DB	653	G
22	DB	654	A
22	DB	656	U
22	DB	657	A
22	DB	663	G
22	DB	665	A
22	DB	667	U
22	DB	675	C
22	DB	681	A
22	DB	684	C
22	DB	687	G
22	DB	690	A
22	DB	697	G
22	DB	699	G
22	DB	700	C
22	DB	712	A
22	DB	717	G
22	DB	726	G
22	DB	728	G
22	DB	731	A
22	DB	738	G
22	DB	742	G
22	DB	743	A
22	DB	753	U
22	DB	760	U
22	DB	762	A
22	DB	765	C
22	DB	776	G
22	DB	777	A
22	DB	778	G
22	DB	785	U
22	DB	786	U
22	DB	787	A
22	DB	789	G
22	DB	794	A
22	DB	795	A
22	DB	796	A
22	DB	797	A
22	DB	798	G
22	DB	802	A
22	DB	804	C

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Mol	Chain	Res	Type
22	DB	805	G
22	DB	806	A
22	DB	807	A
22	DB	813	A
22	DB	815	A
22	DB	818	G
22	DB	825	C
22	DB	832	A
22	DB	840	U
22	DB	841	G
22	DB	843	G
22	DB	844	G
22	DB	872	G
22	DB	873	U
22	DB	874	A
22	DB	875	G
22	DB	879	A
22	DB	883	A
22	DB	893	G
22	DB	895	G
22	DB	902	U
22	DB	904	U
22	DB	918	A
22	DB	919	U
22	DB	922	A
22	DB	924	C
22	DB	926	C
22	DB	930	A
22	DB	931	G
22	DB	938	G
22	DB	939	C
22	DB	940	G
22	DB	941	U
22	DB	942	U
22	DB	943	U
22	DB	944	A
22	DB	950	G
22	DB	951	G
22	DB	952	A
22	DB	956	A
22	DB	957	G
22	DB	968	C

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Mol	Chain	Res	Type
22	DB	969	U
22	DB	970	A
22	DB	972	C
22	DB	973	U
22	DB	984	A
22	DB	995	A
22	DB	996	C
22	DB	1005	U
22	DB	1006	C
22	DB	1019	U
22	DB	1022	A
22	DB	1023	U
22	DB	1024	G
22	DB	1028	G
22	DB	1030	U
22	DB	1032	A
22	DB	1033	G
22	DB	1036	G
22	DB	1037	U
22	DB	1044	U
22	DB	1045	G
22	DB	1049	C
22	DB	1050	G
22	DB	1054	C
22	DB	1055	A
22	DB	1056	U
22	DB	1057	A
22	DB	1058	G
22	DB	1059	A
22	DB	1071	U
22	DB	1072	U
22	DB	1073	G
22	DB	1077	U
22	DB	1079	G
22	DB	1082	G
22	DB	1090	C
22	DB	1092	U
22	DB	1094	C
22	DB	1100	G
22	DB	1121	G
22	DB	1122	A
22	DB	1130	U

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Mol	Chain	Res	Type
22	DB	1137	A
22	DB	1138	A
22	DB	1139	A
22	DB	1141	U
22	DB	1142	G
22	DB	1143	A
22	DB	1144	U
22	DB	1145	C
22	DB	1146	G
22	DB	1152	C
22	DB	1153	A
22	DB	1159	U
22	DB	1166	A
22	DB	1167	A
22	DB	1181	C
22	DB	1186	G
22	DB	1189	G
22	DB	1195	U
22	DB	1199	U
22	DB	1200	G
22	DB	1209	G
22	DB	1218	C
22	DB	1224	A
22	DB	1225	G
22	DB	1226	A
22	DB	1228	G
22	DB	1234	C
22	DB	1245	G
22	DB	1250	A
22	DB	1251	G
22	DB	1253	C
22	DB	1262	U
22	DB	1264	C
22	DB	1265	G
22	DB	1268	U
22	DB	1269	G
22	DB	1278	A
22	DB	1279	G
22	DB	1281	A
22	DB	1284	G
22	DB	1285	A
22	DB	1287	A

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Mol	Chain	Res	Type
22	DB	1288	A
22	DB	1289	A
22	DB	1302	C
22	DB	1304	U
22	DB	1313	U
22	DB	1314	A
22	DB	1315	A
22	DB	1324	G
22	DB	1325	U
22	DB	1327	C
22	DB	1330	G
22	DB	1332	G
22	DB	1333	G
22	DB	1334	A
22	DB	1338	G
22	DB	1339	U
22	DB	1342	U
22	DB	1345	G
22	DB	1354	A
22	DB	1355	A
22	DB	1356	G
22	DB	1359	G
22	DB	1363	C
22	DB	1375	C
22	DB	1386	A
22	DB	1389	C
22	DB	1390	G
22	DB	1391	A
22	DB	1392	U
22	DB	1393	G
22	DB	1396	C
22	DB	1397	A
22	DB	1398	G
22	DB	1402	G
22	DB	1405	A
22	DB	1408	A
22	DB	1411	C
22	DB	1417	C
22	DB	1421	U
22	DB	1424	U
22	DB	1427	G
22	DB	1429	A

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Mol	Chain	Res	Type
22	DB	1430	G
22	DB	1434	U
22	DB	1435	G
22	DB	1437	A
22	DB	1438	G
22	DB	1441	A
22	DB	1442	C
22	DB	1443	G
22	DB	1449	C
22	DB	1458	A
22	DB	1459	U
22	DB	1460	G
22	DB	1465	G
22	DB	1468	A
22	DB	1469	U
22	DB	1470	G
22	DB	1475	U
22	DB	1482	U
22	DB	1483	G
22	DB	1484	G
22	DB	1489	C
22	DB	1490	U
22	DB	1491	C
22	DB	1493	A
22	DB	1495	G
22	DB	1496	G
22	DB	1497	C
22	DB	1504	G
22	DB	1505	U
22	DB	1510	A
22	DB	1511	A
22	DB	1514	C
22	DB	1522	C
22	DB	1524	C
22	DB	1525	A
22	DB	1526	U
22	DB	1527	G
22	DB	1529	C
22	DB	1535	C
22	DB	1536	G
22	DB	1539	U
22	DB	1540	C

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Mol	Chain	Res	Type
22	DB	1543	G
22	DB	1545	G
22	DB	1547	U
22	DB	1550	C
22	DB	1551	U
22	DB	1552	C
22	DB	1554	G
22	DB	1562	G
22	DB	1571	G
22	DB	1573	G
22	DB	1574	A
22	DB	1575	C
22	DB	1576	G
22	DB	1581	C
22	DB	1582	A
22	DB	1583	A
22	DB	1584	G
22	DB	1585	A
22	DB	1587	A
22	DB	1590	C
22	DB	1591	U
22	DB	1601	U
22	DB	1614	C
22	DB	1616	C
22	DB	1619	A
22	DB	1622	G
22	DB	1623	C
22	DB	1624	A
22	DB	1625	A
22	DB	1626	A
22	DB	1627	C
22	DB	1632	A
22	DB	1633	C
22	DB	1634	A
22	DB	1637	U
22	DB	1643	A
22	DB	1648	C
22	DB	1651	U
22	DB	1652	G
22	DB	1657	A
22	DB	1664	G
22	DB	1665	C

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Mol	Chain	Res	Type
22	DB	1670	G
22	DB	1671	A
22	DB	1681	A
22	DB	1684	G
22	DB	1686	A
22	DB	1687	C
22	DB	1690	U
22	DB	1691	G
22	DB	1706	A
22	DB	1710	U
22	DB	1711	C
22	DB	1712	G
22	DB	1715	A
22	DB	1716	G
22	DB	1717	A
22	DB	1731	C
22	DB	1732	U
22	DB	1733	U
22	DB	1734	C
22	DB	1738	U
22	DB	1747	G
22	DB	1748	U
22	DB	1749	G
22	DB	1750	A
22	DB	1754	G
22	DB	1755	G
22	DB	1764	A
22	DB	1768	U
22	DB	1771	A
22	DB	1772	C
22	DB	1773	C
22	DB	1775	A
22	DB	1778	U
22	DB	1787	U
22	DB	1791	C
22	DB	1792	C
22	DB	1793	A
22	DB	1800	A
22	DB	1801	C
22	DB	1802	A
22	DB	1808	C
22	DB	1821	A

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Mol	Chain	Res	Type
22	DB	1829	C
22	DB	1831	G
22	DB	1840	A
22	DB	1845	A
22	DB	3865	A
22	DB	3867	G
22	DB	3870	C
22	DB	3873	G
22	DB	3874	C
22	DB	3876	A
22	DB	3877	A
22	DB	1861	G
22	DB	1867	A
22	DB	1874	G
22	DB	1879	G
22	DB	1882	G
22	DB	1884	A
22	DB	1889	G
22	DB	1890	G
22	DB	1898	U
22	DB	1900	U
22	DB	1903	C
22	DB	1909	U
22	DB	1910	A
22	DB	1919	A
22	DB	1920	A
22	DB	1921	A
22	DB	1922	U
22	DB	1923	U
22	DB	1926	U
22	DB	1928	G
22	DB	1938	U
22	DB	1939	U
22	DB	1940	C
22	DB	1946	U
22	DB	1947	G
22	DB	1949	A
22	DB	1950	C
22	DB	1953	A
22	DB	1954	A
22	DB	1955	G
22	DB	1956	G

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Mol	Chain	Res	Type
22	DB	1964	A
22	DB	1976	U
22	DB	1979	C
22	DB	1980	A
22	DB	1985	G
22	DB	1988	A
22	DB	2004	U
22	DB	2006	G
22	DB	2015	G
22	DB	2016	A
22	DB	2018	G
22	DB	2019	C
22	DB	2034	A
22	DB	2035	G
22	DB	2038	C
22	DB	2039	G
22	DB	2044	G
22	DB	2045	A
22	DB	2051	U
22	DB	2052	G
22	DB	2060	A
22	DB	2061	C
22	DB	2063	A
22	DB	2075	U
22	DB	3097	G
22	DB	3107	G
22	DB	3109	U
22	DB	3111	C
22	DB	3116	G
22	DB	3117	A
22	DB	3119	A
22	DB	3120	G
22	DB	3126	A
22	DB	3136	C
22	DB	3146	A
22	DB	3147	C
22	DB	3148	G
22	DB	3158	A
22	DB	3166	G
22	DB	3170	A
22	DB	3172	U
22	DB	3173	A

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Mol	Chain	Res	Type
22	DB	3185	U
22	DB	3191	A
22	DB	2182	A
22	DB	2184	C
22	DB	2185	U
22	DB	2186	G
22	DB	2187	A
22	DB	2191	A
22	DB	2195	C
22	DB	2196	U
22	DB	2198	U
22	DB	2199	C
22	DB	2204	A
22	DB	2205	C
22	DB	2206	C
22	DB	2218	G
22	DB	2227	C
22	DB	2228	U
22	DB	2229	G
22	DB	2241	U
22	DB	2242	C
22	DB	2245	A
22	DB	2246	A
22	DB	2247	A
22	DB	2250	G
22	DB	2255	G
22	DB	2257	A
22	DB	2262	C
22	DB	2268	G
22	DB	2276	C
22	DB	2278	A
22	DB	2281	C
22	DB	2284	U
22	DB	2285	U
22	DB	2286	G
22	DB	2287	G
22	DB	2288	A
22	DB	2291	U
22	DB	2295	C
22	DB	2298	U
22	DB	2300	G
22	DB	2301	A

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Mol	Chain	Res	Type
22	DB	2313	G
22	DB	2314	A
22	DB	2315	A
22	DB	2316	G
22	DB	2325	A
22	DB	2326	C
22	DB	2329	C
22	DB	2337	A
22	DB	2340	C
22	DB	2350	G
22	DB	2361	G
22	DB	2362	G
22	DB	2364	C
22	DB	2367	A
22	DB	2368	G
22	DB	2369	U
22	DB	2378	G
22	DB	2382	C
22	DB	2385	U
22	DB	2386	G
22	DB	2390	A
22	DB	2392	G
22	DB	2396	C
22	DB	2402	U
22	DB	2403	C
22	DB	2404	A
22	DB	2405	A
22	DB	2406	C
22	DB	2408	G
22	DB	2409	A
22	DB	2410	U
22	DB	2419	C
22	DB	2420	C
22	DB	2424	G
22	DB	2427	A
22	DB	2428	U
22	DB	2431	C
22	DB	2445	C
22	DB	2455	A
22	DB	2458	U
22	DB	2470	U
22	DB	2472	U

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Mol	Chain	Res	Type
22	DB	2476	A
22	DB	2477	C
22	DB	2478	C
22	DB	2480	C
22	DB	2481	G
22	DB	2482	A
22	DB	2483	U
22	DB	2484	G
22	DB	2485	U
22	DB	2492	G
22	DB	2493	U
22	DB	2498	U
22	DB	2499	C
22	DB	2508	G
22	DB	2509	A
22	DB	2511	G
22	DB	2522	G
22	DB	2525	U
22	DB	2532	G
22	DB	2546	G
22	DB	2549	G
22	DB	2553	G
22	DB	2557	G
22	DB	2561	G
22	DB	2562	G
22	DB	2565	C
22	DB	2567	G
22	DB	2572	U
22	DB	2574	G
22	DB	2578	G
22	DB	2581	A
22	DB	2582	G
22	DB	2588	U
22	DB	2590	U
22	DB	2591	C
22	DB	2592	U
22	DB	2593	A
22	DB	2594	U
22	DB	2604	G
22	DB	2609	G
22	DB	2618	A
22	DB	2620	G

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Mol	Chain	Res	Type
22	DB	2623	A
22	DB	2625	U
22	DB	2633	A
22	DB	2634	G
22	DB	2639	A
22	DB	2644	A
22	DB	2649	A
22	DB	2656	G
22	DB	2660	C
22	DB	2661	G
22	DB	2663	U
22	DB	2667	C
22	DB	2668	U
22	DB	2670	C
22	DB	2680	U
22	DB	2681	A
22	DB	2684	A
22	DB	2685	A
22	DB	2691	C
22	DB	2692	A
22	DB	2699	G
22	DB	2706	U
22	DB	2712	G
22	DB	2713	A
22	DB	2722	C
22	DB	2728	A
22	DB	2730	A
22	DB	2731	G
22	DB	2732	C
22	DB	2736	U
22	DB	2737	A
22	DB	2738	A
22	DB	2745	A
22	DB	2746	G
22	DB	2756	A
22	DB	2758	A
22	DB	2760	G
22	DB	2770	A
22	DB	2772	U
22	DB	2774	U
22	DB	2780	A
22	DB	2781	G

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Mol	Chain	Res	Type
22	DB	2783	U
22	DB	2784	A
22	DB	2787	A
22	DB	2790	C
22	DB	2793	G
22	DB	2794	G
22	DB	2795	A
22	DB	2798	A
22	DB	2800	C
22	DB	2801	A
22	DB	2805	G
22	DB	2808	U
22	DB	2809	A
22	DB	2810	A
22	DB	2811	G
22	DB	2823	G
22	DB	2824	C
22	DB	2841	U
22	DB	2842	C
22	DB	2843	A
22	DB	2847	G
22	DB	2849	C
22	DB	2855	C
22	DB	2856	U
22	DB	2859	U
22	DB	2865	G
22	DB	2867	G
23	DA	5	C
23	DA	13	C
23	DA	14	C
23	DA	15	A
23	DA	16	U
23	DA	17	A
23	DA	25	G
23	DA	26	G
23	DA	27	A
23	DA	37	C
23	DA	42	U
23	DA	46	G
23	DA	47	A
23	DA	48	A
23	DA	51	G

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Mol	Chain	Res	Type
23	DA	54	U
23	DA	59	A
23	DA	62	C
23	DA	72	C
23	DA	76	U
23	DA	78	A
23	DA	89	G
23	DA	90	C
23	DA	91	A
23	DA	93	G
23	DA	99	G
23	DA	102	A
23	DA	111	C
23	DA	112	A
23	DA	119	G
1	EA	7	G
1	EA	8	A
1	EA	9	G
1	EA	31	G
1	EA	32	A
1	EA	39	G
1	EA	48	C
1	EA	49	U
1	EA	50	A
1	EA	51	A
1	EA	52	G
1	EA	61	G
1	EA	78	G
1	EA	79	G
1	EA	80	C
1	EA	84	U
1	EA	85	U
1	EA	86	G
1	EA	87	G
1	EA	91	C
1	EA	98	U
1	EA	99	C
1	EA	101	A
1	EA	112	G
1	EA	116	A
1	EA	120	A
1	EA	121	C

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Mol	Chain	Res	Type
1	EA	127	G
1	EA	129(A)	G
1	EA	130	A
1	EA	131	C
1	EA	140	A
1	EA	145	G
1	EA	146	G
1	EA	174	C
1	EA	182	U
1	EA	183	G
1	EA	195	A
1	EA	196	A
1	EA	198	G
1	EA	205	G
1	EA	209	U
1	EA	210	C
1	EA	211	G
1	EA	226	G
1	EA	243	A
1	EA	244	U
1	EA	247	G
1	EA	251	G
1	EA	252	U
1	EA	258	G
1	EA	266	G
1	EA	280	C
1	EA	281	G
1	EA	283	C
1	EA	289	G
1	EA	297	G
1	EA	312	C
1	EA	328	C
1	EA	329	A
1	EA	330	C
1	EA	332	G
1	EA	344	A
1	EA	345	C
1	EA	346	G
1	EA	347	G
1	EA	348	G
1	EA	350	G
1	EA	352	C

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Mol	Chain	Res	Type
1	EA	353	A
1	EA	366	C
1	EA	367	U
1	EA	372	C
1	EA	373	A
1	EA	374	A
1	EA	384	G
1	EA	388	G
1	EA	391	G
1	EA	394	G
1	EA	395	C
1	EA	397	A
1	EA	398	C
1	EA	411	A
1	EA	412	A
1	EA	413	G
1	EA	414	A
1	EA	421	U
1	EA	423	G
1	EA	429	U
1	EA	430	A
1	EA	439	A
1	EA	446	G
1	EA	452	A
1	EA	458	G
1	EA	464	U
1	EA	467	U
1	EA	479	C
1	EA	482	A
1	EA	485	G
1	EA	486	U
1	EA	494	G
1	EA	496	A
1	EA	498	U
1	EA	508	C
1	EA	509	A
1	EA	510	A
1	EA	511	C
1	EA	518	C
1	EA	519	C
1	EA	526	C
1	EA	527	G

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Mol	Chain	Res	Type
1	EA	531	U
1	EA	532	A
1	EA	533	A
1	EA	534	U
1	EA	536	C
1	EA	547	A
1	EA	549	C
1	EA	552	U
1	EA	556	C
1	EA	560	U
1	EA	561	U
1	EA	564	C
1	EA	572	A
1	EA	575	G
1	EA	576	G
1	EA	577	G
1	EA	584	G
1	EA	588	G
1	EA	607	A
1	EA	610	G
1	EA	611	A
1	EA	625	G
1	EA	629	G
1	EA	630	G
1	EA	632	A
1	EA	638	G
1	EA	653	A
1	EA	672	U
1	EA	679	C
1	EA	685	G
1	EA	686	U
1	EA	687	A
1	EA	688	G
1	EA	695	A
1	EA	700	G
1	EA	702	A
1	EA	703	G
1	EA	705	U
1	EA	718	G
1	EA	721	G
1	EA	723	U
1	EA	724	G

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Mol	Chain	Res	Type
1	EA	734	G
1	EA	738	C
1	EA	748	C
1	EA	749	C
1	EA	755	G
1	EA	781	A
1	EA	782	A
1	EA	793	U
1	EA	794	A
1	EA	795	C
1	EA	804	U
1	EA	813	U
1	EA	815	A
1	EA	817	C
1	EA	819	A
1	EA	821	G
1	EA	828	A
1	EA	841	C
1	EA	843	C
1	EA	844	A
1	EA	845	A
1	EA	864	A
1	EA	867	G
1	EA	873	A
1	EA	874	G
1	EA	890	G
1	EA	891	U
1	EA	900	A
1	EA	902	G
1	EA	913	A
1	EA	914	A
1	EA	920	U
1	EA	927	G
1	EA	934	C
1	EA	935	A
1	EA	945	G
1	EA	948	C
1	EA	958	A
1	EA	959	A
1	EA	960	U
1	EA	961	U
1	EA	966	G

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Mol	Chain	Res	Type
1	EA	968	A
1	EA	969	A
1	EA	974	A
1	EA	975	A
1	EA	976	G
1	EA	977	A
1	EA	979	C
1	EA	983	A
1	EA	985	C
1	EA	992	U
1	EA	993	G
1	EA	994	A
1	EA	995	C
1	EA	1002	G
1	EA	1003	G
1	EA	1004	A
1	EA	1023	G
1	EA	1024	G
1	EA	1025	U
1	EA	1026	G
1	EA	1027	C
1	EA	1029	U
1	EA	1030	U
1	EA	1031	C
1	EA	1032	G
1	EA	1033	G
1	EA	1035	A
1	EA	1036	G
1	EA	1045	C
1	EA	1049	U
1	EA	1050	G
1	EA	1054	C
1	EA	1055	A
1	EA	1063	C
1	EA	1064	G
1	EA	1065	U
1	EA	1066	C
1	EA	1068	G
1	EA	1085	U
1	EA	1086	U
1	EA	1094	G
1	EA	1095	U

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Mol	Chain	Res	Type
1	EA	1101	A
1	EA	1102	A
1	EA	1111	A
1	EA	1117	G
1	EA	1125	U
1	EA	1126	U
1	EA	1129	C
1	EA	1130	A
1	EA	1131	G
1	EA	1134	G
1	EA	1136	U
1	EA	1137	C
1	EA	1138	G
1	EA	1139	G
1	EA	1145	C
1	EA	1152	A
1	EA	1159	U
1	EA	1160	G
1	EA	1167	A
1	EA	1171	G
1	EA	1177	G
1	EA	1181	G
1	EA	1183	A
1	EA	1184	G
1	EA	1187	G
1	EA	1190	G
1	EA	1196	U
1	EA	1197	G
1	EA	1198	G
1	EA	1201	A
1	EA	1202	G
1	EA	1212	U
1	EA	1213	A
1	EA	1214	C
1	EA	1215	G
1	EA	1224	G
1	EA	1225	A
1	EA	1226	C
1	EA	1227	A
1	EA	1229	A
1	EA	1240	U
1	EA	1249	C

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Mol	Chain	Res	Type
1	EA	1253	G
1	EA	1254	C
1	EA	1256	A
1	EA	1257	U
1	EA	1258	G
1	EA	1268	A
1	EA	1271	G
1	EA	1279	A
1	EA	1280	A
1	EA	1281	U
1	EA	1282	C
1	EA	1285	A
1	EA	1287	A
1	EA	1292	U
1	EA	1300	G
1	EA	1305	G
1	EA	1311	G
1	EA	1314	C
1	EA	1317	C
1	EA	1318	A
1	EA	1320	C
1	EA	1322	C
1	EA	1323	G
1	EA	1326	C
1	EA	1328	C
1	EA	1339	A
1	EA	1340	A
1	EA	1345	U
1	EA	1347	G
1	EA	1348	U
1	EA	1362	C
1	EA	1363	A
1	EA	1365	G
1	EA	1378	C
1	EA	1379	G
1	EA	1381	U
1	EA	1391	U
1	EA	1394	A
1	EA	1397	C
1	EA	1398	A
1	EA	1435	G
1	EA	1441	G

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Mol	Chain	Res	Type
1	EA	1447	A
1	EA	1448	C
1	EA	1449	C
1	EA	1450	U
1	EA	1451	A
1	EA	1452	C
1	EA	1453	G
1	EA	1454	G
1	EA	1455	G
1	EA	1456	A
1	EA	1461	G
1	EA	1463	C
1	EA	1464	G
1	EA	1465	C
1	EA	1473	A
1	EA	1483	A
1	EA	1491	G
1	EA	1493	A
1	EA	1499	A
1	EA	1504	G
1	EA	1505	G
1	EA	1506	U
1	EA	1517	G
1	EA	1520	G
1	EA	1523	G
1	EA	1529	G
1	EA	1530	G
1	EA	1531	A
22	FB	15	G
22	FB	35	G
22	FB	45	C
22	FB	48	A
22	FB	49	U
22	FB	59	G
22	FB	64	C
22	FB	68	C
22	FB	71	A
22	FB	72	A
22	FB	76	C
22	FB	87	G
22	FB	89	A
22	FB	91	A

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Mol	Chain	Res	Type
22	FB	99	U
22	FB	100	G
22	FB	111	G
22	FB	117	A
22	FB	118	U
22	FB	119	G
22	FB	122	G
22	FB	123	A
22	FB	125	A
22	FB	131	C
22	FB	135	U
22	FB	137	A
22	FB	140	G
22	FB	143	A
22	FB	148	C
22	FB	149	A
22	FB	151	G
22	FB	152	G
22	FB	155	G
22	FB	158	A
22	FB	165	G
22	FB	173	A
22	FB	174	A
22	FB	176	A
22	FB	181	A
22	FB	182	G
22	FB	193	A
22	FB	198	A
22	FB	199	A
22	FB	200	A
22	FB	206	U
22	FB	207	U
22	FB	209	G
22	FB	211	U
22	FB	218	A
22	FB	219	G
22	FB	225	G
22	FB	226	C
22	FB	227	G
22	FB	232	A
22	FB	235	C
22	FB	241	C

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Mol	Chain	Res	Type
22	FB	243	G
22	FB	246	C
22	FB	247	A
22	FB	248	A
22	FB	295	C
22	FB	301	C
22	FB	302	U
22	FB	304	A
22	FB	305	A
22	FB	312	G
22	FB	319	G
22	FB	320	A
22	FB	321	A
22	FB	327	C
22	FB	334	G
22	FB	335	A
22	FB	340	G
22	FB	342	G
22	FB	343	A
22	FB	346	C
22	FB	353	G
22	FB	360	A
22	FB	362	C
22	FB	364	G
22	FB	368	A
22	FB	370	U
22	FB	371	G
22	FB	373	A
22	FB	399	G
22	FB	400	U
22	FB	401	G
22	FB	405	C
22	FB	407	A
22	FB	409	G
22	FB	414	A
22	FB	418	C
22	FB	421	G
22	FB	424	G
22	FB	425	A
22	FB	435	A
22	FB	436	A
22	FB	437	G

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Mol	Chain	Res	Type
22	FB	438	G
22	FB	441	A
22	FB	442	A
22	FB	448	C
22	FB	455	A
22	FB	456	C
22	FB	460	U
22	FB	461	A
22	FB	463	C
22	FB	464	G
22	FB	467	U
22	FB	469	G
22	FB	472	C
22	FB	478	G
22	FB	491	A
22	FB	492	G
22	FB	493	A
22	FB	496	C
22	FB	503	G
22	FB	512	A
22	FB	515	A
22	FB	516	G
22	FB	518	A
22	FB	519	C
22	FB	537	C
22	FB	539	A
22	FB	540	G
22	FB	542	A
22	FB	547	U
22	FB	553	C
22	FB	554	U
22	FB	555	U
22	FB	556	A
22	FB	557	U
22	FB	559	C
22	FB	560	G
22	FB	562	G
22	FB	569	C
22	FB	572	G
22	FB	576	A
22	FB	582	G
22	FB	583	C

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Mol	Chain	Res	Type
22	FB	584	A
22	FB	595	A
22	FB	596	C
22	FB	601	A
22	FB	602	C
22	FB	603	C
22	FB	611	C
22	FB	613	A
22	FB	619	A
22	FB	624	A
22	FB	626	A
22	FB	628	A
22	FB	632	A
22	FB	637	G
22	FB	638	A
22	FB	649	G
22	FB	653	G
22	FB	654	A
22	FB	656	U
22	FB	657	A
22	FB	663	G
22	FB	665	A
22	FB	667	U
22	FB	675	C
22	FB	681	A
22	FB	684	C
22	FB	687	G
22	FB	690	A
22	FB	697	G
22	FB	699	G
22	FB	700	C
22	FB	712	A
22	FB	726	G
22	FB	728	G
22	FB	731	A
22	FB	738	G
22	FB	742	G
22	FB	743	A
22	FB	753	U
22	FB	760	U
22	FB	762	A
22	FB	765	C

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Mol	Chain	Res	Type
22	FB	776	G
22	FB	777	A
22	FB	778	G
22	FB	785	U
22	FB	786	U
22	FB	787	A
22	FB	789	G
22	FB	794	A
22	FB	795	A
22	FB	796	A
22	FB	797	A
22	FB	798	G
22	FB	802	A
22	FB	804	C
22	FB	805	G
22	FB	806	A
22	FB	807	A
22	FB	813	A
22	FB	815	A
22	FB	818	G
22	FB	825	C
22	FB	832	A
22	FB	840	U
22	FB	841	G
22	FB	843	G
22	FB	844	G
22	FB	872	G
22	FB	873	U
22	FB	874	A
22	FB	875	G
22	FB	879	A
22	FB	883	A
22	FB	893	G
22	FB	895	G
22	FB	902	U
22	FB	904	U
22	FB	918	A
22	FB	919	U
22	FB	922	A
22	FB	924	C
22	FB	926	C
22	FB	930	A

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Mol	Chain	Res	Type
22	FB	931	G
22	FB	938	G
22	FB	939	C
22	FB	940	G
22	FB	941	U
22	FB	942	U
22	FB	943	U
22	FB	944	A
22	FB	950	G
22	FB	951	G
22	FB	952	A
22	FB	956	A
22	FB	957	G
22	FB	968	C
22	FB	969	U
22	FB	970	A
22	FB	972	C
22	FB	973	U
22	FB	984	A
22	FB	995	A
22	FB	996	C
22	FB	1005	U
22	FB	1006	C
22	FB	1019	U
22	FB	1022	A
22	FB	1023	U
22	FB	1024	G
22	FB	1028	G
22	FB	1030	U
22	FB	1032	A
22	FB	1033	G
22	FB	1036	G
22	FB	1037	U
22	FB	1044	U
22	FB	1045	G
22	FB	1049	C
22	FB	1054	C
22	FB	1055	A
22	FB	1056	U
22	FB	1057	A
22	FB	1058	G
22	FB	1059	A

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Mol	Chain	Res	Type
22	FB	1071	U
22	FB	1072	U
22	FB	1073	G
22	FB	1077	U
22	FB	1079	G
22	FB	1082	G
22	FB	1090	C
22	FB	1092	U
22	FB	1094	C
22	FB	1100	G
22	FB	1121	G
22	FB	1122	A
22	FB	1128	G
22	FB	1130	U
22	FB	1137	A
22	FB	1138	A
22	FB	1139	A
22	FB	1141	U
22	FB	1142	G
22	FB	1143	A
22	FB	1144	U
22	FB	1145	C
22	FB	1146	G
22	FB	1152	C
22	FB	1153	A
22	FB	1159	U
22	FB	1166	A
22	FB	1167	A
22	FB	1168	G
22	FB	1181	C
22	FB	1186	G
22	FB	1189	G
22	FB	1195	U
22	FB	1199	U
22	FB	1200	G
22	FB	1209	G
22	FB	1218	C
22	FB	1224	A
22	FB	1225	G
22	FB	1226	A
22	FB	1228	G
22	FB	1234	C

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Mol	Chain	Res	Type
22	FB	1245	G
22	FB	1250	A
22	FB	1251	G
22	FB	1253	C
22	FB	1262	U
22	FB	1264	C
22	FB	1265	G
22	FB	1268	U
22	FB	1269	G
22	FB	1278	A
22	FB	1279	G
22	FB	1281	A
22	FB	1284	G
22	FB	1285	A
22	FB	1287	A
22	FB	1288	A
22	FB	1289	A
22	FB	1302	C
22	FB	1304	U
22	FB	1313	U
22	FB	1314	A
22	FB	1315	A
22	FB	1324	G
22	FB	1325	U
22	FB	1327	C
22	FB	1330	G
22	FB	1332	G
22	FB	1333	G
22	FB	1334	A
22	FB	1338	G
22	FB	1339	U
22	FB	1342	U
22	FB	1345	G
22	FB	1354	A
22	FB	1355	A
22	FB	1356	G
22	FB	1359	G
22	FB	1363	C
22	FB	1375	C
22	FB	1386	A
22	FB	1389	C
22	FB	1390	G

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Mol	Chain	Res	Type
22	FB	1391	A
22	FB	1392	U
22	FB	1393	G
22	FB	1396	C
22	FB	1397	A
22	FB	1398	G
22	FB	1402	G
22	FB	1405	A
22	FB	1408	A
22	FB	1411	C
22	FB	1412	C
22	FB	1417	C
22	FB	1421	U
22	FB	1424	U
22	FB	1427	G
22	FB	1429	A
22	FB	1430	G
22	FB	1434	U
22	FB	1435	G
22	FB	1437	A
22	FB	1438	G
22	FB	1441	A
22	FB	1442	C
22	FB	1443	G
22	FB	1449	C
22	FB	1458	A
22	FB	1459	U
22	FB	1460	G
22	FB	1465	G
22	FB	1468	A
22	FB	1469	U
22	FB	1470	G
22	FB	1475	U
22	FB	1482	U
22	FB	1483	G
22	FB	1489	C
22	FB	1490	U
22	FB	1491	C
22	FB	1493	A
22	FB	1495	G
22	FB	1496	G
22	FB	1497	C

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Mol	Chain	Res	Type
22	FB	1504	G
22	FB	1505	U
22	FB	1510	A
22	FB	1511	A
22	FB	1514	C
22	FB	1522	C
22	FB	1524	C
22	FB	1525	A
22	FB	1526	U
22	FB	1527	G
22	FB	1529	C
22	FB	1535	C
22	FB	1536	G
22	FB	1539	U
22	FB	1540	C
22	FB	1543	G
22	FB	1545	G
22	FB	1547	U
22	FB	1550	C
22	FB	1551	U
22	FB	1552	C
22	FB	1554	G
22	FB	1562	G
22	FB	1571	G
22	FB	1573	G
22	FB	1574	A
22	FB	1575	C
22	FB	1576	G
22	FB	1581	C
22	FB	1582	A
22	FB	1583	A
22	FB	1584	G
22	FB	1585	A
22	FB	1587	A
22	FB	1590	C
22	FB	1591	U
22	FB	1601	U
22	FB	1616	C
22	FB	1619	A
22	FB	1622	G
22	FB	1623	C
22	FB	1624	A

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Mol	Chain	Res	Type
22	FB	1625	A
22	FB	1626	A
22	FB	1627	C
22	FB	1632	A
22	FB	1633	C
22	FB	1634	A
22	FB	1637	U
22	FB	1643	A
22	FB	1648	C
22	FB	1651	U
22	FB	1652	G
22	FB	1657	A
22	FB	1664	G
22	FB	1665	C
22	FB	1670	G
22	FB	1671	A
22	FB	1681	A
22	FB	1684	G
22	FB	1686	A
22	FB	1687	C
22	FB	1690	U
22	FB	1691	G
22	FB	1699	A
22	FB	1706	A
22	FB	1710	U
22	FB	1711	C
22	FB	1712	G
22	FB	1715	A
22	FB	1716	G
22	FB	1717	A
22	FB	1731	C
22	FB	1732	U
22	FB	1733	U
22	FB	1734	C
22	FB	1738	U
22	FB	1747	G
22	FB	1748	U
22	FB	1749	G
22	FB	1750	A
22	FB	1754	G
22	FB	1755	G
22	FB	1764	A

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Mol	Chain	Res	Type
22	FB	1768	U
22	FB	1771	A
22	FB	1772	C
22	FB	1773	C
22	FB	1775	A
22	FB	1778	U
22	FB	1787	U
22	FB	1791	C
22	FB	1792	C
22	FB	1793	A
22	FB	1800	A
22	FB	1801	C
22	FB	1802	A
22	FB	1808	C
22	FB	1821	A
22	FB	1828	C
22	FB	1829	C
22	FB	1831	G
22	FB	1840	A
22	FB	1845	A
22	FB	3865	A
22	FB	3867	G
22	FB	3870	C
22	FB	3873	G
22	FB	3874	C
22	FB	3876	A
22	FB	3877	A
22	FB	1861	G
22	FB	1867	A
22	FB	1874	G
22	FB	1879	G
22	FB	1882	G
22	FB	1884	A
22	FB	1889	G
22	FB	1890	G
22	FB	1898	U
22	FB	1900	U
22	FB	1903	C
22	FB	1909	U
22	FB	1910	A
22	FB	1919	A
22	FB	1920	A

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Mol	Chain	Res	Type
22	FB	1921	A
22	FB	1922	U
22	FB	1923	U
22	FB	1926	U
22	FB	1928	G
22	FB	1938	U
22	FB	1939	U
22	FB	1940	C
22	FB	1946	U
22	FB	1947	G
22	FB	1949	A
22	FB	1950	C
22	FB	1953	A
22	FB	1954	A
22	FB	1955	G
22	FB	1956	G
22	FB	1964	A
22	FB	1976	U
22	FB	1979	C
22	FB	1980	A
22	FB	1985	G
22	FB	1988	A
22	FB	2004	U
22	FB	2006	G
22	FB	2015	G
22	FB	2016	A
22	FB	2018	G
22	FB	2019	C
22	FB	2034	A
22	FB	2035	G
22	FB	2038	C
22	FB	2039	G
22	FB	2044	G
22	FB	2045	A
22	FB	2051	U
22	FB	2052	G
22	FB	2060	A
22	FB	2061	C
22	FB	2063	A
22	FB	2075	U
22	FB	3097	G
22	FB	3107	G

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Mol	Chain	Res	Type
22	FB	3109	U
22	FB	3111	C
22	FB	3116	G
22	FB	3117	A
22	FB	3119	A
22	FB	3120	G
22	FB	3126	A
22	FB	3136	C
22	FB	3146	A
22	FB	3147	C
22	FB	3148	G
22	FB	3158	A
22	FB	3166	G
22	FB	3170	A
22	FB	3172	U
22	FB	3173	A
22	FB	3185	U
22	FB	3191	A
22	FB	2181	A
22	FB	2182	A
22	FB	2184	C
22	FB	2185	U
22	FB	2186	G
22	FB	2187	A
22	FB	2191	A
22	FB	2195	C
22	FB	2196	U
22	FB	2198	U
22	FB	2199	C
22	FB	2204	A
22	FB	2205	C
22	FB	2206	C
22	FB	2218	G
22	FB	2227	C
22	FB	2228	U
22	FB	2229	G
22	FB	2241	U
22	FB	2242	C
22	FB	2245	A
22	FB	2246	A
22	FB	2247	A
22	FB	2250	G

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Mol	Chain	Res	Type
22	FB	2255	G
22	FB	2257	A
22	FB	2262	C
22	FB	2268	G
22	FB	2276	C
22	FB	2278	A
22	FB	2281	C
22	FB	2284	U
22	FB	2285	U
22	FB	2286	G
22	FB	2287	G
22	FB	2288	A
22	FB	2291	U
22	FB	2295	C
22	FB	2298	U
22	FB	2300	G
22	FB	2301	A
22	FB	2313	G
22	FB	2314	A
22	FB	2315	A
22	FB	2316	G
22	FB	2325	A
22	FB	2326	C
22	FB	2329	C
22	FB	2337	A
22	FB	2340	C
22	FB	2350	G
22	FB	2361	G
22	FB	2362	G
22	FB	2364	C
22	FB	2367	A
22	FB	2368	G
22	FB	2369	U
22	FB	2378	G
22	FB	2382	C
22	FB	2385	U
22	FB	2386	G
22	FB	2390	A
22	FB	2392	G
22	FB	2396	C
22	FB	2402	U
22	FB	2403	C

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Mol	Chain	Res	Type
22	FB	2404	A
22	FB	2405	A
22	FB	2406	C
22	FB	2408	G
22	FB	2409	A
22	FB	2410	U
22	FB	2420	C
22	FB	2424	G
22	FB	2427	A
22	FB	2428	U
22	FB	2431	C
22	FB	2445	C
22	FB	2455	A
22	FB	2458	U
22	FB	2470	U
22	FB	2472	U
22	FB	2476	A
22	FB	2477	C
22	FB	2478	C
22	FB	2480	C
22	FB	2481	G
22	FB	2482	A
22	FB	2483	U
22	FB	2484	G
22	FB	2485	U
22	FB	2492	G
22	FB	2498	U
22	FB	2499	C
22	FB	2508	G
22	FB	2509	A
22	FB	2511	G
22	FB	2522	G
22	FB	2532	G
22	FB	2546	G
22	FB	2549	G
22	FB	2553	G
22	FB	2557	G
22	FB	2561	G
22	FB	2562	G
22	FB	2565	C
22	FB	2567	G
22	FB	2572	U

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Mol	Chain	Res	Type
22	FB	2574	G
22	FB	2578	G
22	FB	2581	A
22	FB	2582	G
22	FB	2588	U
22	FB	2590	U
22	FB	2591	C
22	FB	2592	U
22	FB	2593	A
22	FB	2594	U
22	FB	2604	G
22	FB	2618	A
22	FB	2620	G
22	FB	2623	A
22	FB	2625	U
22	FB	2633	A
22	FB	2634	G
22	FB	2639	A
22	FB	2644	A
22	FB	2649	A
22	FB	2656	G
22	FB	2660	C
22	FB	2661	G
22	FB	2663	U
22	FB	2667	C
22	FB	2668	U
22	FB	2670	C
22	FB	2680	U
22	FB	2681	A
22	FB	2684	A
22	FB	2685	A
22	FB	2691	C
22	FB	2692	A
22	FB	2699	G
22	FB	2706	U
22	FB	2712	G
22	FB	2713	A
22	FB	2722	C
22	FB	2728	A
22	FB	2730	A
22	FB	2731	G
22	FB	2732	C

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Mol	Chain	Res	Type
22	FB	2736	U
22	FB	2737	A
22	FB	2738	A
22	FB	2745	A
22	FB	2746	G
22	FB	2756	A
22	FB	2758	A
22	FB	2760	G
22	FB	2770	A
22	FB	2772	U
22	FB	2774	U
22	FB	2780	A
22	FB	2781	G
22	FB	2783	U
22	FB	2784	A
22	FB	2787	A
22	FB	2790	C
22	FB	2793	G
22	FB	2794	G
22	FB	2795	A
22	FB	2798	A
22	FB	2800	C
22	FB	2801	A
22	FB	2805	G
22	FB	2808	U
22	FB	2809	A
22	FB	2810	A
22	FB	2811	G
22	FB	2823	G
22	FB	2824	C
22	FB	2841	U
22	FB	2842	C
22	FB	2843	A
22	FB	2847	G
22	FB	2849	C
22	FB	2855	C
22	FB	2856	U
22	FB	2859	U
22	FB	2865	G
22	FB	2867	G
23	FA	5	C
23	FA	13	C

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Mol	Chain	Res	Type
23	FA	14	C
23	FA	15	A
23	FA	16	U
23	FA	17	A
23	FA	25	G
23	FA	26	G
23	FA	27	A
23	FA	37	C
23	FA	42	U
23	FA	46	G
23	FA	47	A
23	FA	48	A
23	FA	51	G
23	FA	54	U
23	FA	55	C
23	FA	59	A
23	FA	62	C
23	FA	72	C
23	FA	76	U
23	FA	78	A
23	FA	89	G
23	FA	90	C
23	FA	91	A
23	FA	93	G
23	FA	99	G
23	FA	102	A
23	FA	111	C
23	FA	112	A
23	FA	119	G
1	GA	7	G
1	GA	8	A
1	GA	9	G
1	GA	31	G
1	GA	32	A
1	GA	39	G
1	GA	48	C
1	GA	49	U
1	GA	50	A
1	GA	51	A
1	GA	52	G
1	GA	61	G
1	GA	66	G

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Mol	Chain	Res	Type
1	GA	78	G
1	GA	79	G
1	GA	80	C
1	GA	84	U
1	GA	85	U
1	GA	86	G
1	GA	87	G
1	GA	91	C
1	GA	98	U
1	GA	99	C
1	GA	101	A
1	GA	112	G
1	GA	116	A
1	GA	120	A
1	GA	121	C
1	GA	127	G
1	GA	129(A)	G
1	GA	130	A
1	GA	131	C
1	GA	140	A
1	GA	145	G
1	GA	146	G
1	GA	174	C
1	GA	182	U
1	GA	183	G
1	GA	195	A
1	GA	196	A
1	GA	198	G
1	GA	205	G
1	GA	209	U
1	GA	210	C
1	GA	211	G
1	GA	226	G
1	GA	243	A
1	GA	244	U
1	GA	247	G
1	GA	251	G
1	GA	252	U
1	GA	258	G
1	GA	266	G
1	GA	280	C
1	GA	281	G

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Mol	Chain	Res	Type
1	GA	283	C
1	GA	289	G
1	GA	297	G
1	GA	312	C
1	GA	328	C
1	GA	329	A
1	GA	330	C
1	GA	332	G
1	GA	344	A
1	GA	345	C
1	GA	346	G
1	GA	347	G
1	GA	348	G
1	GA	350	G
1	GA	352	C
1	GA	353	A
1	GA	366	C
1	GA	367	U
1	GA	372	C
1	GA	373	A
1	GA	374	A
1	GA	384	G
1	GA	388	G
1	GA	391	G
1	GA	394	G
1	GA	395	C
1	GA	397	A
1	GA	398	C
1	GA	411	A
1	GA	412	A
1	GA	413	G
1	GA	414	A
1	GA	421	U
1	GA	423	G
1	GA	429	U
1	GA	430	A
1	GA	439	A
1	GA	446	G
1	GA	452	A
1	GA	458	G
1	GA	464	U
1	GA	467	U

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Mol	Chain	Res	Type
1	GA	479	C
1	GA	482	A
1	GA	485	G
1	GA	486	U
1	GA	494	G
1	GA	496	A
1	GA	498	U
1	GA	508	C
1	GA	509	A
1	GA	510	A
1	GA	511	C
1	GA	518	C
1	GA	519	C
1	GA	526	C
1	GA	527	G
1	GA	531	U
1	GA	532	A
1	GA	533	A
1	GA	534	U
1	GA	536	C
1	GA	547	A
1	GA	549	C
1	GA	552	U
1	GA	556	C
1	GA	560	U
1	GA	561	U
1	GA	562	C
1	GA	564	C
1	GA	572	A
1	GA	575	G
1	GA	576	G
1	GA	577	G
1	GA	584	G
1	GA	588	G
1	GA	607	A
1	GA	610	G
1	GA	611	A
1	GA	625	G
1	GA	629	G
1	GA	630	G
1	GA	632	A
1	GA	638	G

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Mol	Chain	Res	Type
1	GA	653	A
1	GA	672	U
1	GA	679	C
1	GA	685	G
1	GA	686	U
1	GA	687	A
1	GA	688	G
1	GA	695	A
1	GA	700	G
1	GA	702	A
1	GA	703	G
1	GA	705	U
1	GA	718	G
1	GA	721	G
1	GA	723	U
1	GA	724	G
1	GA	734	G
1	GA	738	C
1	GA	748	C
1	GA	749	C
1	GA	755	G
1	GA	781	A
1	GA	782	A
1	GA	793	U
1	GA	794	A
1	GA	795	C
1	GA	804	U
1	GA	813	U
1	GA	815	A
1	GA	817	C
1	GA	819	A
1	GA	821	G
1	GA	828	A
1	GA	841	C
1	GA	843	C
1	GA	844	A
1	GA	845	A
1	GA	864	A
1	GA	867	G
1	GA	873	A
1	GA	874	G
1	GA	890	G

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Mol	Chain	Res	Type
1	GA	891	U
1	GA	900	A
1	GA	902	G
1	GA	913	A
1	GA	914	A
1	GA	927	G
1	GA	934	C
1	GA	935	A
1	GA	945	G
1	GA	948	C
1	GA	958	A
1	GA	959	A
1	GA	960	U
1	GA	961	U
1	GA	966	G
1	GA	968	A
1	GA	969	A
1	GA	974	A
1	GA	975	A
1	GA	976	G
1	GA	977	A
1	GA	979	C
1	GA	983	A
1	GA	985	C
1	GA	992	U
1	GA	993	G
1	GA	994	A
1	GA	995	C
1	GA	1002	G
1	GA	1003	G
1	GA	1004	A
1	GA	1023	G
1	GA	1024	G
1	GA	1025	U
1	GA	1026	G
1	GA	1027	C
1	GA	1029	U
1	GA	1030	U
1	GA	1031	C
1	GA	1032	G
1	GA	1033	G
1	GA	1035	A

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Mol	Chain	Res	Type
1	GA	1036	G
1	GA	1045	C
1	GA	1049	U
1	GA	1050	G
1	GA	1054	C
1	GA	1055	A
1	GA	1063	C
1	GA	1064	G
1	GA	1065	U
1	GA	1066	C
1	GA	1068	G
1	GA	1085	U
1	GA	1086	U
1	GA	1094	G
1	GA	1095	U
1	GA	1101	A
1	GA	1102	A
1	GA	1111	A
1	GA	1117	G
1	GA	1125	U
1	GA	1126	U
1	GA	1129	C
1	GA	1130	A
1	GA	1131	G
1	GA	1134	G
1	GA	1136	U
1	GA	1137	C
1	GA	1138	G
1	GA	1139	G
1	GA	1145	C
1	GA	1152	A
1	GA	1159	U
1	GA	1160	G
1	GA	1167	A
1	GA	1171	G
1	GA	1177	G
1	GA	1181	G
1	GA	1183	A
1	GA	1184	G
1	GA	1187	G
1	GA	1190	G
1	GA	1196	U

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Mol	Chain	Res	Type
1	GA	1197	G
1	GA	1198	G
1	GA	1201	A
1	GA	1202	G
1	GA	1212	U
1	GA	1213	A
1	GA	1214	C
1	GA	1215	G
1	GA	1224	G
1	GA	1225	A
1	GA	1226	C
1	GA	1227	A
1	GA	1229	A
1	GA	1240	U
1	GA	1249	C
1	GA	1253	G
1	GA	1254	C
1	GA	1256	A
1	GA	1257	U
1	GA	1258	G
1	GA	1268	A
1	GA	1271	G
1	GA	1279	A
1	GA	1280	A
1	GA	1281	U
1	GA	1282	C
1	GA	1285	A
1	GA	1287	A
1	GA	1292	U
1	GA	1300	G
1	GA	1305	G
1	GA	1311	G
1	GA	1314	C
1	GA	1317	C
1	GA	1318	A
1	GA	1320	C
1	GA	1322	C
1	GA	1323	G
1	GA	1326	C
1	GA	1328	C
1	GA	1339	A
1	GA	1340	A

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Mol	Chain	Res	Type
1	GA	1345	U
1	GA	1347	G
1	GA	1348	U
1	GA	1362	C
1	GA	1363	A
1	GA	1365	G
1	GA	1378	C
1	GA	1379	G
1	GA	1381	U
1	GA	1391	U
1	GA	1397	C
1	GA	1398	A
1	GA	1435	G
1	GA	1441	G
1	GA	1447	A
1	GA	1448	C
1	GA	1449	C
1	GA	1450	U
1	GA	1451	A
1	GA	1452	C
1	GA	1453	G
1	GA	1454	G
1	GA	1455	G
1	GA	1456	A
1	GA	1461	G
1	GA	1463	C
1	GA	1464	G
1	GA	1465	C
1	GA	1473	A
1	GA	1483	A
1	GA	1491	G
1	GA	1493	A
1	GA	1499	A
1	GA	1504	G
1	GA	1505	G
1	GA	1506	U
1	GA	1517	G
1	GA	1520	G
1	GA	1523	G
1	GA	1529	G
1	GA	1530	G
1	GA	1531	A

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Mol	Chain	Res	Type
22	HB	15	G
22	HB	35	G
22	HB	45	C
22	HB	48	A
22	HB	49	U
22	HB	59	G
22	HB	64	C
22	HB	68	C
22	HB	71	A
22	HB	72	A
22	HB	76	C
22	HB	87	G
22	HB	89	A
22	HB	91	A
22	HB	99	U
22	HB	100	G
22	HB	111	G
22	HB	117	A
22	HB	118	U
22	HB	119	G
22	HB	122	G
22	HB	123	A
22	HB	125	A
22	HB	131	C
22	HB	135	U
22	HB	137	A
22	HB	140	G
22	HB	143	A
22	HB	148	C
22	HB	149	A
22	HB	151	G
22	HB	152	G
22	HB	155	G
22	HB	158	A
22	HB	165	G
22	HB	173	A
22	HB	174	A
22	HB	176	A
22	HB	181	A
22	HB	182	G
22	HB	193	A
22	HB	198	A

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Mol	Chain	Res	Type
22	HB	199	A
22	HB	200	A
22	HB	206	U
22	HB	207	U
22	HB	209	G
22	HB	211	U
22	HB	218	A
22	HB	219	G
22	HB	225	G
22	HB	226	C
22	HB	227	G
22	HB	232	A
22	HB	235	C
22	HB	241	C
22	HB	243	G
22	HB	246	C
22	HB	247	A
22	HB	248	A
22	HB	295	C
22	HB	301	C
22	HB	302	U
22	HB	304	A
22	HB	305	A
22	HB	312	G
22	HB	319	G
22	HB	320	A
22	HB	321	A
22	HB	327	C
22	HB	334	G
22	HB	335	A
22	HB	340	G
22	HB	342	G
22	HB	343	A
22	HB	346	C
22	HB	353	G
22	HB	360	A
22	HB	362	C
22	HB	364	G
22	HB	368	A
22	HB	370	U
22	HB	371	G
22	HB	373	A

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Mol	Chain	Res	Type
22	HB	399	G
22	HB	400	U
22	HB	401	G
22	HB	405	C
22	HB	407	A
22	HB	409	G
22	HB	414	A
22	HB	418	C
22	HB	421	G
22	HB	424	G
22	HB	425	A
22	HB	435	A
22	HB	436	A
22	HB	437	G
22	HB	438	G
22	HB	441	A
22	HB	442	A
22	HB	448	C
22	HB	455	A
22	HB	456	C
22	HB	460	U
22	HB	461	A
22	HB	463	C
22	HB	464	G
22	HB	467	U
22	HB	469	G
22	HB	472	C
22	HB	478	G
22	HB	491	A
22	HB	492	G
22	HB	493	A
22	HB	496	C
22	HB	503	G
22	HB	512	A
22	HB	515	A
22	HB	516	G
22	HB	518	A
22	HB	519	C
22	HB	537	C
22	HB	539	A
22	HB	540	G
22	HB	542	A

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Mol	Chain	Res	Type
22	HB	547	U
22	HB	553	C
22	HB	554	U
22	HB	555	U
22	HB	556	A
22	HB	557	U
22	HB	559	C
22	HB	560	G
22	HB	562	G
22	HB	572	G
22	HB	576	A
22	HB	582	G
22	HB	583	C
22	HB	584	A
22	HB	595	A
22	HB	596	C
22	HB	601	A
22	HB	602	C
22	HB	603	C
22	HB	611	C
22	HB	613	A
22	HB	619	A
22	HB	624	A
22	HB	626	A
22	HB	628	A
22	HB	632	A
22	HB	637	G
22	HB	638	A
22	HB	649	G
22	HB	653	G
22	HB	654	A
22	HB	656	U
22	HB	657	A
22	HB	663	G
22	HB	665	A
22	HB	667	U
22	HB	675	C
22	HB	681	A
22	HB	684	C
22	HB	687	G
22	HB	690	A
22	HB	697	G

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Mol	Chain	Res	Type
22	HB	699	G
22	HB	700	C
22	HB	712	A
22	HB	726	G
22	HB	728	G
22	HB	731	A
22	HB	738	G
22	HB	742	G
22	HB	743	A
22	HB	753	U
22	HB	760	U
22	HB	762	A
22	HB	765	C
22	HB	776	G
22	HB	777	A
22	HB	778	G
22	HB	785	U
22	HB	786	U
22	HB	787	A
22	HB	789	G
22	HB	794	A
22	HB	795	A
22	HB	796	A
22	HB	797	A
22	HB	798	G
22	HB	802	A
22	HB	804	C
22	HB	805	G
22	HB	806	A
22	HB	807	A
22	HB	813	A
22	HB	815	A
22	HB	818	G
22	HB	825	C
22	HB	832	A
22	HB	840	U
22	HB	841	G
22	HB	843	G
22	HB	844	G
22	HB	872	G
22	HB	873	U
22	HB	874	A

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Mol	Chain	Res	Type
22	HB	875	G
22	HB	879	A
22	HB	883	A
22	HB	893	G
22	HB	895	G
22	HB	902	U
22	HB	904	U
22	HB	911	A
22	HB	918	A
22	HB	919	U
22	HB	922	A
22	HB	924	C
22	HB	926	C
22	HB	930	A
22	HB	931	G
22	HB	938	G
22	HB	939	C
22	HB	940	G
22	HB	941	U
22	HB	942	U
22	HB	943	U
22	HB	944	A
22	HB	950	G
22	HB	951	G
22	HB	952	A
22	HB	956	A
22	HB	957	G
22	HB	968	C
22	HB	969	U
22	HB	970	A
22	HB	972	C
22	HB	973	U
22	HB	984	A
22	HB	995	A
22	HB	996	C
22	HB	1005	U
22	HB	1006	C
22	HB	1019	U
22	HB	1022	A
22	HB	1023	U
22	HB	1024	G
22	HB	1028	G

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Mol	Chain	Res	Type
22	HB	1030	U
22	HB	1032	A
22	HB	1033	G
22	HB	1036	G
22	HB	1037	U
22	HB	1044	U
22	HB	1045	G
22	HB	1049	C
22	HB	1050	G
22	HB	1054	C
22	HB	1055	A
22	HB	1056	U
22	HB	1057	A
22	HB	1058	G
22	HB	1059	A
22	HB	1071	U
22	HB	1072	U
22	HB	1073	G
22	HB	1077	U
22	HB	1079	G
22	HB	1082	G
22	HB	1090	C
22	HB	1092	U
22	HB	1094	C
22	HB	1100	G
22	HB	1121	G
22	HB	1122	A
22	HB	1130	U
22	HB	1137	A
22	HB	1138	A
22	HB	1139	A
22	HB	1141	U
22	HB	1142	G
22	HB	1143	A
22	HB	1144	U
22	HB	1145	C
22	HB	1146	G
22	HB	1152	C
22	HB	1153	A
22	HB	1159	U
22	HB	1166	A
22	HB	1167	A

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Mol	Chain	Res	Type
22	HB	1168	G
22	HB	1181	C
22	HB	1186	G
22	HB	1189	G
22	HB	1195	U
22	HB	1199	U
22	HB	1200	G
22	HB	1209	G
22	HB	1218	C
22	HB	1224	A
22	HB	1225	G
22	HB	1226	A
22	HB	1228	G
22	HB	1234	C
22	HB	1245	G
22	HB	1250	A
22	HB	1251	G
22	HB	1253	C
22	HB	1262	U
22	HB	1264	C
22	HB	1265	G
22	HB	1268	U
22	HB	1269	G
22	HB	1278	A
22	HB	1279	G
22	HB	1281	A
22	HB	1284	G
22	HB	1285	A
22	HB	1287	A
22	HB	1288	A
22	HB	1289	A
22	HB	1302	C
22	HB	1304	U
22	HB	1313	U
22	HB	1314	A
22	HB	1315	A
22	HB	1324	G
22	HB	1325	U
22	HB	1327	C
22	HB	1330	G
22	HB	1332	G
22	HB	1333	G

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Mol	Chain	Res	Type
22	HB	1334	A
22	HB	1338	G
22	HB	1339	U
22	HB	1342	U
22	HB	1345	G
22	HB	1354	A
22	HB	1355	A
22	HB	1356	G
22	HB	1359	G
22	HB	1363	C
22	HB	1375	C
22	HB	1386	A
22	HB	1389	C
22	HB	1390	G
22	HB	1391	A
22	HB	1392	U
22	HB	1393	G
22	HB	1396	C
22	HB	1397	A
22	HB	1398	G
22	HB	1402	G
22	HB	1405	A
22	HB	1408	A
22	HB	1411	C
22	HB	1417	C
22	HB	1421	U
22	HB	1424	U
22	HB	1427	G
22	HB	1429	A
22	HB	1430	G
22	HB	1434	U
22	HB	1435	G
22	HB	1437	A
22	HB	1441	A
22	HB	1442	C
22	HB	1443	G
22	HB	1449	C
22	HB	1454	U
22	HB	1458	A
22	HB	1459	U
22	HB	1460	G
22	HB	1465	G

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Mol	Chain	Res	Type
22	HB	1468	A
22	HB	1469	U
22	HB	1470	G
22	HB	1475	U
22	HB	1482	U
22	HB	1483	G
22	HB	1484	G
22	HB	1489	C
22	HB	1490	U
22	HB	1491	C
22	HB	1493	A
22	HB	1495	G
22	HB	1496	G
22	HB	1497	C
22	HB	1504	G
22	HB	1505	U
22	HB	1510	A
22	HB	1511	A
22	HB	1514	C
22	HB	1522	C
22	HB	1524	C
22	HB	1525	A
22	HB	1526	U
22	HB	1527	G
22	HB	1529	C
22	HB	1535	C
22	HB	1536	G
22	HB	1539	U
22	HB	1540	C
22	HB	1543	G
22	HB	1545	G
22	HB	1547	U
22	HB	1550	C
22	HB	1551	U
22	HB	1552	C
22	HB	1554	G
22	HB	1562	G
22	HB	1567	A
22	HB	1571	G
22	HB	1573	G
22	HB	1574	A
22	HB	1575	C

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Mol	Chain	Res	Type
22	HB	1576	G
22	HB	1581	C
22	HB	1582	A
22	HB	1583	A
22	HB	1584	G
22	HB	1585	A
22	HB	1590	C
22	HB	1591	U
22	HB	1601	U
22	HB	1614	C
22	HB	1616	C
22	HB	1619	A
22	HB	1622	G
22	HB	1623	C
22	HB	1624	A
22	HB	1625	A
22	HB	1626	A
22	HB	1627	C
22	HB	1632	A
22	HB	1633	C
22	HB	1634	A
22	HB	1637	U
22	HB	1643	A
22	HB	1648	C
22	HB	1651	U
22	HB	1652	G
22	HB	1657	A
22	HB	1664	G
22	HB	1665	C
22	HB	1670	G
22	HB	1671	A
22	HB	1681	A
22	HB	1684	G
22	HB	1686	A
22	HB	1687	C
22	HB	1690	U
22	HB	1691	G
22	HB	1706	A
22	HB	1710	U
22	HB	1711	C
22	HB	1712	G
22	HB	1715	A

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Mol	Chain	Res	Type
22	HB	1716	G
22	HB	1717	A
22	HB	1731	C
22	HB	1732	U
22	HB	1733	U
22	HB	1734	C
22	HB	1738	U
22	HB	1747	G
22	HB	1748	U
22	HB	1749	G
22	HB	1750	A
22	HB	1754	G
22	HB	1755	G
22	HB	1764	A
22	HB	1768	U
22	HB	1771	A
22	HB	1772	C
22	HB	1773	C
22	HB	1775	A
22	HB	1778	U
22	HB	1787	U
22	HB	1791	C
22	HB	1792	C
22	HB	1793	A
22	HB	1800	A
22	HB	1801	C
22	HB	1802	A
22	HB	1808	C
22	HB	1821	A
22	HB	1828	C
22	HB	1829	C
22	HB	1831	G
22	HB	1840	A
22	HB	1845	A
22	HB	3865	A
22	HB	3867	G
22	HB	3870	C
22	HB	3873	G
22	HB	3874	C
22	HB	3876	A
22	HB	3877	A
22	HB	1861	G

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Mol	Chain	Res	Type
22	HB	1862	C
22	HB	1867	A
22	HB	1874	G
22	HB	1879	G
22	HB	1882	G
22	HB	1884	A
22	HB	1888	C
22	HB	1889	G
22	HB	1890	G
22	HB	1898	U
22	HB	1900	U
22	HB	1903	C
22	HB	1909	U
22	HB	1910	A
22	HB	1919	A
22	HB	1920	A
22	HB	1921	A
22	HB	1922	U
22	HB	1923	U
22	HB	1926	U
22	HB	1928	G
22	HB	1938	U
22	HB	1939	U
22	HB	1940	C
22	HB	1946	U
22	HB	1947	G
22	HB	1949	A
22	HB	1950	C
22	HB	1953	A
22	HB	1954	A
22	HB	1955	G
22	HB	1956	G
22	HB	1964	A
22	HB	1976	U
22	HB	1979	C
22	HB	1980	A
22	HB	1985	G
22	HB	1988	A
22	HB	2004	U
22	HB	2006	G
22	HB	2015	G
22	HB	2016	A

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Mol	Chain	Res	Type
22	HB	2018	G
22	HB	2019	C
22	HB	2034	A
22	HB	2035	G
22	HB	2038	C
22	HB	2039	G
22	HB	2044	G
22	HB	2045	A
22	HB	2051	U
22	HB	2052	G
22	HB	2060	A
22	HB	2061	C
22	HB	2063	A
22	HB	2075	U
22	HB	3093	C
22	HB	3097	G
22	HB	3107	G
22	HB	3109	U
22	HB	3111	C
22	HB	3116	G
22	HB	3117	A
22	HB	3119	A
22	HB	3120	G
22	HB	3126	A
22	HB	3136	C
22	HB	3146	A
22	HB	3147	C
22	HB	3148	G
22	HB	3158	A
22	HB	3166	G
22	HB	3170	A
22	HB	3172	U
22	HB	3173	A
22	HB	3185	U
22	HB	3191	A
22	HB	2181	A
22	HB	2182	A
22	HB	2184	C
22	HB	2185	U
22	HB	2186	G
22	HB	2187	A
22	HB	2191	A

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Mol	Chain	Res	Type
22	HB	2195	C
22	HB	2196	U
22	HB	2198	U
22	HB	2199	C
22	HB	2205	C
22	HB	2206	C
22	HB	2218	G
22	HB	2227	C
22	HB	2228	U
22	HB	2229	G
22	HB	2241	U
22	HB	2242	C
22	HB	2245	A
22	HB	2246	A
22	HB	2247	A
22	HB	2250	G
22	HB	2255	G
22	HB	2257	A
22	HB	2262	C
22	HB	2268	G
22	HB	2276	C
22	HB	2278	A
22	HB	2281	C
22	HB	2284	U
22	HB	2285	U
22	HB	2286	G
22	HB	2287	G
22	HB	2288	A
22	HB	2291	U
22	HB	2295	C
22	HB	2298	U
22	HB	2300	G
22	HB	2301	A
22	HB	2313	G
22	HB	2314	A
22	HB	2315	A
22	HB	2316	G
22	HB	2325	A
22	HB	2326	C
22	HB	2329	C
22	HB	2337	A
22	HB	2340	C

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Mol	Chain	Res	Type
22	HB	2350	G
22	HB	2361	G
22	HB	2362	G
22	HB	2364	C
22	HB	2367	A
22	HB	2368	G
22	HB	2369	U
22	HB	2378	G
22	HB	2382	C
22	HB	2385	U
22	HB	2386	G
22	HB	2390	A
22	HB	2392	G
22	HB	2396	C
22	HB	2402	U
22	HB	2403	C
22	HB	2404	A
22	HB	2405	A
22	HB	2406	C
22	HB	2408	G
22	HB	2409	A
22	HB	2410	U
22	HB	2420	C
22	HB	2424	G
22	HB	2427	A
22	HB	2428	U
22	HB	2431	C
22	HB	2445	C
22	HB	2455	A
22	HB	2458	U
22	HB	2470	U
22	HB	2472	U
22	HB	2476	A
22	HB	2477	C
22	HB	2478	C
22	HB	2480	C
22	HB	2481	G
22	HB	2482	A
22	HB	2483	U
22	HB	2484	G
22	HB	2485	U
22	HB	2492	G

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Mol	Chain	Res	Type
22	HB	2493	U
22	HB	2498	U
22	HB	2499	C
22	HB	2508	G
22	HB	2509	A
22	HB	2511	G
22	HB	2522	G
22	HB	2532	G
22	HB	2546	G
22	HB	2549	G
22	HB	2553	G
22	HB	2557	G
22	HB	2561	G
22	HB	2562	G
22	HB	2565	C
22	HB	2567	G
22	HB	2572	U
22	HB	2574	G
22	HB	2578	G
22	HB	2581	A
22	HB	2582	G
22	HB	2588	U
22	HB	2590	U
22	HB	2591	C
22	HB	2592	U
22	HB	2593	A
22	HB	2594	U
22	HB	2604	G
22	HB	2618	A
22	HB	2620	G
22	HB	2623	A
22	HB	2625	U
22	HB	2633	A
22	HB	2634	G
22	HB	2639	A
22	HB	2644	A
22	HB	2649	A
22	HB	2660	C
22	HB	2661	G
22	HB	2663	U
22	HB	2667	C
22	HB	2668	U

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Mol	Chain	Res	Type
22	HB	2670	C
22	HB	2680	U
22	HB	2681	A
22	HB	2684	A
22	HB	2685	A
22	HB	2691	C
22	HB	2692	A
22	HB	2699	G
22	HB	2706	U
22	HB	2712	G
22	HB	2713	A
22	HB	2722	C
22	HB	2728	A
22	HB	2730	A
22	HB	2731	G
22	HB	2732	C
22	HB	2736	U
22	HB	2737	A
22	HB	2738	A
22	HB	2745	A
22	HB	2756	A
22	HB	2758	A
22	HB	2760	G
22	HB	2770	A
22	HB	2772	U
22	HB	2774	U
22	HB	2780	A
22	HB	2781	G
22	HB	2783	U
22	HB	2784	A
22	HB	2787	A
22	HB	2790	C
22	HB	2793	G
22	HB	2794	G
22	HB	2795	A
22	HB	2798	A
22	HB	2800	C
22	HB	2805	G
22	HB	2808	U
22	HB	2809	A
22	HB	2810	A
22	HB	2811	G

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Mol	Chain	Res	Type
22	HB	2823	G
22	HB	2824	C
22	HB	2841	U
22	HB	2842	C
22	HB	2843	A
22	HB	2847	G
22	HB	2849	C
22	HB	2855	C
22	HB	2856	U
22	HB	2859	U
22	HB	2865	G
22	HB	2867	G
23	HA	5	C
23	HA	13	C
23	HA	14	C
23	HA	15	A
23	HA	16	U
23	HA	17	A
23	HA	25	G
23	HA	26	G
23	HA	27	A
23	HA	37	C
23	HA	42	U
23	HA	46	G
23	HA	47	A
23	HA	48	A
23	HA	51	G
23	HA	54	U
23	HA	59	A
23	HA	62	C
23	HA	72	C
23	HA	76	U
23	HA	78	A
23	HA	89	G
23	HA	90	C
23	HA	91	A
23	HA	93	G
23	HA	99	G
23	HA	102	A
23	HA	111	C
23	HA	112	A
23	HA	119	G

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Mol	Chain	Res	Type
1	IA	7	G
1	IA	8	A
1	IA	9	G
1	IA	31	G
1	IA	32	A
1	IA	39	G
1	IA	48	C
1	IA	49	U
1	IA	50	A
1	IA	51	A
1	IA	52	G
1	IA	61	G
1	IA	78	G
1	IA	79	G
1	IA	80	C
1	IA	84	U
1	IA	85	U
1	IA	86	G
1	IA	87	G
1	IA	91	C
1	IA	98	U
1	IA	99	C
1	IA	101	A
1	IA	112	G
1	IA	116	A
1	IA	120	A
1	IA	121	C
1	IA	127	G
1	IA	129(A)	G
1	IA	130	A
1	IA	131	C
1	IA	140	A
1	IA	145	G
1	IA	146	G
1	IA	174	C
1	IA	182	U
1	IA	183	G
1	IA	195	A
1	IA	196	A
1	IA	198	G
1	IA	205	G
1	IA	209	U

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Mol	Chain	Res	Type
1	IA	210	C
1	IA	211	G
1	IA	226	G
1	IA	243	A
1	IA	244	U
1	IA	247	G
1	IA	251	G
1	IA	252	U
1	IA	258	G
1	IA	266	G
1	IA	280	C
1	IA	281	G
1	IA	283	C
1	IA	289	G
1	IA	297	G
1	IA	312	C
1	IA	328	C
1	IA	329	A
1	IA	330	C
1	IA	332	G
1	IA	344	A
1	IA	345	C
1	IA	346	G
1	IA	347	G
1	IA	348	G
1	IA	350	G
1	IA	352	C
1	IA	353	A
1	IA	366	C
1	IA	367	U
1	IA	372	C
1	IA	373	A
1	IA	374	A
1	IA	384	G
1	IA	388	G
1	IA	391	G
1	IA	394	G
1	IA	395	C
1	IA	397	A
1	IA	398	C
1	IA	411	A
1	IA	412	A

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Mol	Chain	Res	Type
1	IA	413	G
1	IA	414	A
1	IA	421	U
1	IA	423	G
1	IA	429	U
1	IA	430	A
1	IA	439	A
1	IA	446	G
1	IA	452	A
1	IA	458	G
1	IA	464	U
1	IA	467	U
1	IA	479	C
1	IA	482	A
1	IA	485	G
1	IA	486	U
1	IA	494	G
1	IA	496	A
1	IA	498	U
1	IA	508	C
1	IA	509	A
1	IA	510	A
1	IA	511	C
1	IA	518	C
1	IA	519	C
1	IA	526	C
1	IA	527	G
1	IA	531	U
1	IA	532	A
1	IA	533	A
1	IA	534	U
1	IA	536	C
1	IA	547	A
1	IA	549	C
1	IA	552	U
1	IA	556	C
1	IA	560	U
1	IA	561	U
1	IA	564	C
1	IA	572	A
1	IA	575	G
1	IA	576	G

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Mol	Chain	Res	Type
1	IA	577	G
1	IA	584	G
1	IA	588	G
1	IA	607	A
1	IA	610	G
1	IA	611	A
1	IA	625	G
1	IA	629	G
1	IA	632	A
1	IA	638	G
1	IA	653	A
1	IA	672	U
1	IA	679	C
1	IA	685	G
1	IA	686	U
1	IA	687	A
1	IA	688	G
1	IA	695	A
1	IA	700	G
1	IA	702	A
1	IA	703	G
1	IA	705	U
1	IA	718	G
1	IA	721	G
1	IA	723	U
1	IA	724	G
1	IA	734	G
1	IA	738	C
1	IA	748	C
1	IA	749	C
1	IA	755	G
1	IA	781	A
1	IA	782	A
1	IA	793	U
1	IA	794	A
1	IA	795	C
1	IA	804	U
1	IA	813	U
1	IA	815	A
1	IA	817	C
1	IA	819	A
1	IA	821	G

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Mol	Chain	Res	Type
1	IA	828	A
1	IA	841	C
1	IA	843	C
1	IA	844	A
1	IA	845	A
1	IA	864	A
1	IA	867	G
1	IA	873	A
1	IA	874	G
1	IA	890	G
1	IA	891	U
1	IA	900	A
1	IA	902	G
1	IA	913	A
1	IA	914	A
1	IA	920	U
1	IA	927	G
1	IA	934	C
1	IA	935	A
1	IA	945	G
1	IA	948	C
1	IA	958	A
1	IA	959	A
1	IA	960	U
1	IA	961	U
1	IA	966	G
1	IA	968	A
1	IA	969	A
1	IA	974	A
1	IA	975	A
1	IA	976	G
1	IA	977	A
1	IA	979	C
1	IA	983	A
1	IA	985	C
1	IA	992	U
1	IA	993	G
1	IA	994	A
1	IA	995	C
1	IA	1002	G
1	IA	1003	G
1	IA	1004	A

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Mol	Chain	Res	Type
1	IA	1023	G
1	IA	1024	G
1	IA	1025	U
1	IA	1026	G
1	IA	1027	C
1	IA	1029	U
1	IA	1030	U
1	IA	1031	C
1	IA	1032	G
1	IA	1033	G
1	IA	1035	A
1	IA	1036	G
1	IA	1045	C
1	IA	1049	U
1	IA	1050	G
1	IA	1054	C
1	IA	1055	A
1	IA	1063	C
1	IA	1064	G
1	IA	1065	U
1	IA	1066	C
1	IA	1068	G
1	IA	1085	U
1	IA	1086	U
1	IA	1094	G
1	IA	1095	U
1	IA	1101	A
1	IA	1102	A
1	IA	1111	A
1	IA	1117	G
1	IA	1125	U
1	IA	1126	U
1	IA	1129	C
1	IA	1130	A
1	IA	1131	G
1	IA	1134	G
1	IA	1136	U
1	IA	1137	C
1	IA	1138	G
1	IA	1139	G
1	IA	1145	C
1	IA	1152	A

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Mol	Chain	Res	Type
1	IA	1159	U
1	IA	1160	G
1	IA	1167	A
1	IA	1171	G
1	IA	1177	G
1	IA	1181	G
1	IA	1183	A
1	IA	1184	G
1	IA	1187	G
1	IA	1190	G
1	IA	1196	U
1	IA	1197	G
1	IA	1198	G
1	IA	1201	A
1	IA	1202	G
1	IA	1212	U
1	IA	1213	A
1	IA	1214	C
1	IA	1215	G
1	IA	1224	G
1	IA	1225	A
1	IA	1226	C
1	IA	1227	A
1	IA	1229	A
1	IA	1240	U
1	IA	1249	C
1	IA	1253	G
1	IA	1254	C
1	IA	1256	A
1	IA	1257	U
1	IA	1258	G
1	IA	1268	A
1	IA	1271	G
1	IA	1279	A
1	IA	1280	A
1	IA	1281	U
1	IA	1282	C
1	IA	1285	A
1	IA	1287	A
1	IA	1292	U
1	IA	1300	G
1	IA	1305	G

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Mol	Chain	Res	Type
1	IA	1311	G
1	IA	1314	C
1	IA	1317	C
1	IA	1318	A
1	IA	1320	C
1	IA	1322	C
1	IA	1323	G
1	IA	1326	C
1	IA	1328	C
1	IA	1339	A
1	IA	1340	A
1	IA	1345	U
1	IA	1347	G
1	IA	1348	U
1	IA	1362	C
1	IA	1363	A
1	IA	1365	G
1	IA	1378	C
1	IA	1379	G
1	IA	1381	U
1	IA	1391	U
1	IA	1394	A
1	IA	1397	C
1	IA	1398	A
1	IA	1435	G
1	IA	1441	G
1	IA	1447	A
1	IA	1448	C
1	IA	1449	C
1	IA	1450	U
1	IA	1451	A
1	IA	1452	C
1	IA	1453	G
1	IA	1454	G
1	IA	1455	G
1	IA	1456	A
1	IA	1461	G
1	IA	1463	C
1	IA	1464	G
1	IA	1465	C
1	IA	1473	A
1	IA	1483	A

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Mol	Chain	Res	Type
1	IA	1491	G
1	IA	1493	A
1	IA	1499	A
1	IA	1504	G
1	IA	1505	G
1	IA	1506	U
1	IA	1517	G
1	IA	1520	G
1	IA	1523	G
1	IA	1529	G
1	IA	1530	G
1	IA	1531	A
22	JB	15	G
22	JB	35	G
22	JB	45	C
22	JB	48	A
22	JB	49	U
22	JB	59	G
22	JB	64	C
22	JB	68	C
22	JB	71	A
22	JB	72	A
22	JB	76	C
22	JB	87	G
22	JB	89	A
22	JB	91	A
22	JB	99	U
22	JB	100	G
22	JB	111	G
22	JB	117	A
22	JB	118	U
22	JB	119	G
22	JB	122	G
22	JB	123	A
22	JB	125	A
22	JB	131	C
22	JB	135	U
22	JB	137	A
22	JB	140	G
22	JB	143	A
22	JB	148	C
22	JB	149	A

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Mol	Chain	Res	Type
22	JB	151	G
22	JB	152	G
22	JB	155	G
22	JB	158	A
22	JB	165	G
22	JB	173	A
22	JB	174	A
22	JB	176	A
22	JB	181	A
22	JB	182	G
22	JB	193	A
22	JB	198	A
22	JB	199	A
22	JB	200	A
22	JB	206	U
22	JB	207	U
22	JB	209	G
22	JB	211	U
22	JB	218	A
22	JB	219	G
22	JB	225	G
22	JB	226	C
22	JB	227	G
22	JB	232	A
22	JB	235	C
22	JB	241	C
22	JB	243	G
22	JB	246	C
22	JB	247	A
22	JB	248	A
22	JB	295	C
22	JB	301	C
22	JB	302	U
22	JB	304	A
22	JB	305	A
22	JB	312	G
22	JB	319	G
22	JB	320	A
22	JB	321	A
22	JB	327	C
22	JB	334	G
22	JB	335	A

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Mol	Chain	Res	Type
22	JB	340	G
22	JB	342	G
22	JB	343	A
22	JB	346	C
22	JB	353	G
22	JB	360	A
22	JB	362	C
22	JB	364	G
22	JB	368	A
22	JB	370	U
22	JB	371	G
22	JB	373	A
22	JB	399	G
22	JB	400	U
22	JB	401	G
22	JB	405	C
22	JB	407	A
22	JB	409	G
22	JB	414	A
22	JB	418	C
22	JB	421	G
22	JB	424	G
22	JB	425	A
22	JB	435	A
22	JB	436	A
22	JB	437	G
22	JB	438	G
22	JB	441	A
22	JB	442	A
22	JB	448	C
22	JB	455	A
22	JB	456	C
22	JB	460	U
22	JB	461	A
22	JB	463	C
22	JB	464	G
22	JB	467	U
22	JB	469	G
22	JB	472	C
22	JB	478	G
22	JB	491	A
22	JB	492	G

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Mol	Chain	Res	Type
22	JB	493	A
22	JB	496	C
22	JB	503	G
22	JB	512	A
22	JB	515	A
22	JB	516	G
22	JB	518	A
22	JB	519	C
22	JB	537	C
22	JB	539	A
22	JB	540	G
22	JB	542	A
22	JB	547	U
22	JB	553	C
22	JB	554	U
22	JB	555	U
22	JB	556	A
22	JB	557	U
22	JB	559	C
22	JB	560	G
22	JB	562	G
22	JB	569	C
22	JB	572	G
22	JB	576	A
22	JB	582	G
22	JB	583	C
22	JB	584	A
22	JB	595	A
22	JB	596	C
22	JB	601	A
22	JB	602	C
22	JB	603	C
22	JB	611	C
22	JB	613	A
22	JB	619	A
22	JB	624	A
22	JB	626	A
22	JB	628	A
22	JB	632	A
22	JB	637	G
22	JB	638	A
22	JB	649	G

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Mol	Chain	Res	Type
22	JB	653	G
22	JB	654	A
22	JB	656	U
22	JB	657	A
22	JB	663	G
22	JB	665	A
22	JB	667	U
22	JB	675	C
22	JB	681	A
22	JB	684	C
22	JB	687	G
22	JB	690	A
22	JB	697	G
22	JB	699	G
22	JB	700	C
22	JB	712	A
22	JB	726	G
22	JB	728	G
22	JB	731	A
22	JB	738	G
22	JB	742	G
22	JB	743	A
22	JB	753	U
22	JB	760	U
22	JB	762	A
22	JB	765	C
22	JB	776	G
22	JB	777	A
22	JB	778	G
22	JB	785	U
22	JB	786	U
22	JB	787	A
22	JB	789	G
22	JB	794	A
22	JB	795	A
22	JB	796	A
22	JB	797	A
22	JB	798	G
22	JB	802	A
22	JB	804	C
22	JB	805	G
22	JB	806	A

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Mol	Chain	Res	Type
22	JB	807	A
22	JB	813	A
22	JB	815	A
22	JB	818	G
22	JB	825	C
22	JB	832	A
22	JB	840	U
22	JB	841	G
22	JB	843	G
22	JB	844	G
22	JB	858	G
22	JB	872	G
22	JB	873	U
22	JB	874	A
22	JB	875	G
22	JB	879	A
22	JB	883	A
22	JB	893	G
22	JB	895	G
22	JB	902	U
22	JB	904	U
22	JB	918	A
22	JB	919	U
22	JB	922	A
22	JB	924	C
22	JB	926	C
22	JB	930	A
22	JB	931	G
22	JB	938	G
22	JB	939	C
22	JB	940	G
22	JB	941	U
22	JB	942	U
22	JB	943	U
22	JB	944	A
22	JB	950	G
22	JB	951	G
22	JB	952	A
22	JB	956	A
22	JB	957	G
22	JB	968	C
22	JB	969	U

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Mol	Chain	Res	Type
22	JB	970	A
22	JB	972	C
22	JB	973	U
22	JB	984	A
22	JB	995	A
22	JB	996	C
22	JB	1005	U
22	JB	1006	C
22	JB	1019	U
22	JB	1022	A
22	JB	1023	U
22	JB	1024	G
22	JB	1028	G
22	JB	1030	U
22	JB	1032	A
22	JB	1033	G
22	JB	1036	G
22	JB	1037	U
22	JB	1044	U
22	JB	1045	G
22	JB	1049	C
22	JB	1054	C
22	JB	1055	A
22	JB	1056	U
22	JB	1057	A
22	JB	1058	G
22	JB	1059	A
22	JB	1071	U
22	JB	1072	U
22	JB	1073	G
22	JB	1077	U
22	JB	1079	G
22	JB	1082	G
22	JB	1090	C
22	JB	1092	U
22	JB	1094	C
22	JB	1100	G
22	JB	1121	G
22	JB	1122	A
22	JB	1130	U
22	JB	1137	A
22	JB	1138	A

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Mol	Chain	Res	Type
22	JB	1139	A
22	JB	1141	U
22	JB	1142	G
22	JB	1143	A
22	JB	1144	U
22	JB	1145	C
22	JB	1146	G
22	JB	1152	C
22	JB	1153	A
22	JB	1159	U
22	JB	1166	A
22	JB	1167	A
22	JB	1168	G
22	JB	1181	C
22	JB	1186	G
22	JB	1189	G
22	JB	1195	U
22	JB	1199	U
22	JB	1200	G
22	JB	1209	G
22	JB	1218	C
22	JB	1224	A
22	JB	1225	G
22	JB	1226	A
22	JB	1228	G
22	JB	1234	C
22	JB	1245	G
22	JB	1250	A
22	JB	1251	G
22	JB	1253	C
22	JB	1262	U
22	JB	1264	C
22	JB	1265	G
22	JB	1268	U
22	JB	1269	G
22	JB	1278	A
22	JB	1279	G
22	JB	1281	A
22	JB	1284	G
22	JB	1285	A
22	JB	1287	A
22	JB	1288	A

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Mol	Chain	Res	Type
22	JB	1289	A
22	JB	1302	C
22	JB	1304	U
22	JB	1313	U
22	JB	1314	A
22	JB	1315	A
22	JB	1324	G
22	JB	1325	U
22	JB	1327	C
22	JB	1330	G
22	JB	1332	G
22	JB	1333	G
22	JB	1334	A
22	JB	1338	G
22	JB	1339	U
22	JB	1342	U
22	JB	1345	G
22	JB	1354	A
22	JB	1355	A
22	JB	1356	G
22	JB	1359	G
22	JB	1363	C
22	JB	1375	C
22	JB	1386	A
22	JB	1389	C
22	JB	1390	G
22	JB	1391	A
22	JB	1392	U
22	JB	1393	G
22	JB	1396	C
22	JB	1397	A
22	JB	1398	G
22	JB	1402	G
22	JB	1405	A
22	JB	1408	A
22	JB	1411	C
22	JB	1412	C
22	JB	1417	C
22	JB	1421	U
22	JB	1424	U
22	JB	1427	G
22	JB	1429	A

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Mol	Chain	Res	Type
22	JB	1430	G
22	JB	1434	U
22	JB	1435	G
22	JB	1437	A
22	JB	1441	A
22	JB	1442	C
22	JB	1443	G
22	JB	1449	C
22	JB	1454	U
22	JB	1458	A
22	JB	1459	U
22	JB	1460	G
22	JB	1465	G
22	JB	1468	A
22	JB	1469	U
22	JB	1470	G
22	JB	1475	U
22	JB	1482	U
22	JB	1483	G
22	JB	1489	C
22	JB	1490	U
22	JB	1491	C
22	JB	1493	A
22	JB	1495	G
22	JB	1496	G
22	JB	1497	C
22	JB	1504	G
22	JB	1505	U
22	JB	1510	A
22	JB	1511	A
22	JB	1514	C
22	JB	1522	C
22	JB	1524	C
22	JB	1525	A
22	JB	1526	U
22	JB	1527	G
22	JB	1529	C
22	JB	1535	C
22	JB	1536	G
22	JB	1539	U
22	JB	1540	C
22	JB	1543	G

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Mol	Chain	Res	Type
22	JB	1545	G
22	JB	1547	U
22	JB	1550	C
22	JB	1551	U
22	JB	1552	C
22	JB	1554	G
22	JB	1562	G
22	JB	1571	G
22	JB	1573	G
22	JB	1574	A
22	JB	1575	C
22	JB	1576	G
22	JB	1581	C
22	JB	1582	A
22	JB	1583	A
22	JB	1584	G
22	JB	1585	A
22	JB	1590	C
22	JB	1591	U
22	JB	1601	U
22	JB	1616	C
22	JB	1619	A
22	JB	1622	G
22	JB	1623	C
22	JB	1624	A
22	JB	1625	A
22	JB	1626	A
22	JB	1627	C
22	JB	1632	A
22	JB	1633	C
22	JB	1634	A
22	JB	1637	U
22	JB	1643	A
22	JB	1648	C
22	JB	1651	U
22	JB	1652	G
22	JB	1657	A
22	JB	1664	G
22	JB	1665	C
22	JB	1670	G
22	JB	1671	A
22	JB	1681	A

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Mol	Chain	Res	Type
22	JB	1684	G
22	JB	1686	A
22	JB	1687	C
22	JB	1690	U
22	JB	1691	G
22	JB	1706	A
22	JB	1710	U
22	JB	1711	C
22	JB	1712	G
22	JB	1715	A
22	JB	1716	G
22	JB	1717	A
22	JB	1731	C
22	JB	1732	U
22	JB	1733	U
22	JB	1734	C
22	JB	1738	U
22	JB	1747	G
22	JB	1748	U
22	JB	1749	G
22	JB	1750	A
22	JB	1754	G
22	JB	1755	G
22	JB	1764	A
22	JB	1768	U
22	JB	1771	A
22	JB	1772	C
22	JB	1773	C
22	JB	1775	A
22	JB	1778	U
22	JB	1787	U
22	JB	1791	C
22	JB	1792	C
22	JB	1793	A
22	JB	1800	A
22	JB	1801	C
22	JB	1802	A
22	JB	1808	C
22	JB	1821	A
22	JB	1828	C
22	JB	1829	C
22	JB	1831	G

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Mol	Chain	Res	Type
22	JB	1840	A
22	JB	1845	A
22	JB	3865	A
22	JB	3867	G
22	JB	3870	C
22	JB	3873	G
22	JB	3874	C
22	JB	3876	A
22	JB	3877	A
22	JB	1867	A
22	JB	1874	G
22	JB	1879	G
22	JB	1882	G
22	JB	1884	A
22	JB	1890	G
22	JB	1898	U
22	JB	1900	U
22	JB	1903	C
22	JB	1909	U
22	JB	1910	A
22	JB	1919	A
22	JB	1920	A
22	JB	1921	A
22	JB	1922	U
22	JB	1923	U
22	JB	1926	U
22	JB	1928	G
22	JB	1938	U
22	JB	1939	U
22	JB	1940	C
22	JB	1946	U
22	JB	1947	G
22	JB	1949	A
22	JB	1950	C
22	JB	1953	A
22	JB	1954	A
22	JB	1955	G
22	JB	1956	G
22	JB	1964	A
22	JB	1976	U
22	JB	1979	C
22	JB	1980	A

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Mol	Chain	Res	Type
22	JB	1985	G
22	JB	1988	A
22	JB	2004	U
22	JB	2006	G
22	JB	2015	G
22	JB	2016	A
22	JB	2018	G
22	JB	2019	C
22	JB	2034	A
22	JB	2035	G
22	JB	2038	C
22	JB	2039	G
22	JB	2044	G
22	JB	2045	A
22	JB	2051	U
22	JB	2052	G
22	JB	2060	A
22	JB	2061	C
22	JB	2063	A
22	JB	2075	U
22	JB	3097	G
22	JB	3107	G
22	JB	3109	U
22	JB	3111	C
22	JB	3116	G
22	JB	3117	A
22	JB	3119	A
22	JB	3120	G
22	JB	3126	A
22	JB	3136	C
22	JB	3146	A
22	JB	3147	C
22	JB	3148	G
22	JB	3158	A
22	JB	3166	G
22	JB	3170	A
22	JB	3172	U
22	JB	3173	A
22	JB	3185	U
22	JB	3191	A
22	JB	2181	A
22	JB	2182	A

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Mol	Chain	Res	Type
22	JB	2184	C
22	JB	2185	U
22	JB	2186	G
22	JB	2187	A
22	JB	2191	A
22	JB	2195	C
22	JB	2196	U
22	JB	2198	U
22	JB	2199	C
22	JB	2204	A
22	JB	2205	C
22	JB	2206	C
22	JB	2218	G
22	JB	2227	C
22	JB	2228	U
22	JB	2229	G
22	JB	2241	U
22	JB	2242	C
22	JB	2245	A
22	JB	2246	A
22	JB	2247	A
22	JB	2250	G
22	JB	2255	G
22	JB	2257	A
22	JB	2262	C
22	JB	2268	G
22	JB	2276	C
22	JB	2278	A
22	JB	2281	C
22	JB	2284	U
22	JB	2285	U
22	JB	2286	G
22	JB	2287	G
22	JB	2288	A
22	JB	2291	U
22	JB	2295	C
22	JB	2298	U
22	JB	2300	G
22	JB	2301	A
22	JB	2313	G
22	JB	2314	A
22	JB	2315	A

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Mol	Chain	Res	Type
22	JB	2316	G
22	JB	2325	A
22	JB	2326	C
22	JB	2329	C
22	JB	2337	A
22	JB	2340	C
22	JB	2350	G
22	JB	2361	G
22	JB	2362	G
22	JB	2364	C
22	JB	2367	A
22	JB	2368	G
22	JB	2369	U
22	JB	2378	G
22	JB	2382	C
22	JB	2385	U
22	JB	2386	G
22	JB	2390	A
22	JB	2392	G
22	JB	2396	C
22	JB	2402	U
22	JB	2403	C
22	JB	2404	A
22	JB	2405	A
22	JB	2406	C
22	JB	2408	G
22	JB	2409	A
22	JB	2410	U
22	JB	2419	C
22	JB	2420	C
22	JB	2424	G
22	JB	2427	A
22	JB	2428	U
22	JB	2431	C
22	JB	2445	C
22	JB	2455	A
22	JB	2458	U
22	JB	2470	U
22	JB	2476	A
22	JB	2477	C
22	JB	2478	C
22	JB	2480	C

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Mol	Chain	Res	Type
22	JB	2481	G
22	JB	2482	A
22	JB	2483	U
22	JB	2484	G
22	JB	2485	U
22	JB	2492	G
22	JB	2498	U
22	JB	2499	C
22	JB	2508	G
22	JB	2509	A
22	JB	2511	G
22	JB	2522	G
22	JB	2532	G
22	JB	2534	U
22	JB	2546	G
22	JB	2549	G
22	JB	2553	G
22	JB	2557	G
22	JB	2561	G
22	JB	2562	G
22	JB	2565	C
22	JB	2567	G
22	JB	2572	U
22	JB	2574	G
22	JB	2578	G
22	JB	2581	A
22	JB	2582	G
22	JB	2588	U
22	JB	2590	U
22	JB	2591	C
22	JB	2592	U
22	JB	2593	A
22	JB	2594	U
22	JB	2604	G
22	JB	2609	G
22	JB	2618	A
22	JB	2620	G
22	JB	2623	A
22	JB	2625	U
22	JB	2633	A
22	JB	2634	G
22	JB	2639	A

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Mol	Chain	Res	Type
22	JB	2644	A
22	JB	2649	A
22	JB	2656	G
22	JB	2660	C
22	JB	2661	G
22	JB	2663	U
22	JB	2667	C
22	JB	2668	U
22	JB	2670	C
22	JB	2680	U
22	JB	2681	A
22	JB	2684	A
22	JB	2685	A
22	JB	2691	C
22	JB	2692	A
22	JB	2699	G
22	JB	2706	U
22	JB	2712	G
22	JB	2713	A
22	JB	2714	A
22	JB	2722	C
22	JB	2728	A
22	JB	2730	A
22	JB	2731	G
22	JB	2732	C
22	JB	2736	U
22	JB	2737	A
22	JB	2738	A
22	JB	2745	A
22	JB	2756	A
22	JB	2758	A
22	JB	2760	G
22	JB	2770	A
22	JB	2772	U
22	JB	2774	U
22	JB	2780	A
22	JB	2781	G
22	JB	2783	U
22	JB	2784	A
22	JB	2787	A
22	JB	2790	C
22	JB	2793	G

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Mol	Chain	Res	Type
22	JB	2794	G
22	JB	2795	A
22	JB	2798	A
22	JB	2800	C
22	JB	2805	G
22	JB	2808	U
22	JB	2809	A
22	JB	2810	A
22	JB	2811	G
22	JB	2823	G
22	JB	2824	C
22	JB	2841	U
22	JB	2842	C
22	JB	2843	A
22	JB	2847	G
22	JB	2849	C
22	JB	2855	C
22	JB	2856	U
22	JB	2859	U
22	JB	2865	G
22	JB	2867	G
23	JA	5	C
23	JA	13	C
23	JA	14	C
23	JA	15	A
23	JA	16	U
23	JA	17	A
23	JA	25	G
23	JA	26	G
23	JA	27	A
23	JA	37	C
23	JA	42	U
23	JA	46	G
23	JA	47	A
23	JA	48	A
23	JA	51	G
23	JA	54	U
23	JA	59	A
23	JA	62	C
23	JA	72	C
23	JA	76	U
23	JA	78	A

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Mol	Chain	Res	Type
23	JA	89	G
23	JA	90	C
23	JA	91	A
23	JA	93	G
23	JA	99	G
23	JA	102	A
23	JA	111	C
23	JA	112	A
23	JA	119	G

All (470) RNA pucker outliers are listed below:

Mol	Chain	Res	Type
1	AA	7	G
1	AA	48	C
1	AA	51	A
1	AA	60	A
1	AA	115	G
1	AA	119	A
1	AA	129(A)	G
1	AA	181	G
1	AA	197	A
1	AA	243	A
1	AA	250	A
1	AA	251	G
1	AA	279	A
1	AA	328	C
1	AA	329	A
1	AA	344	A
1	AA	366	C
1	AA	428	G
1	AA	429	U
1	AA	484	G
1	AA	497	A
1	AA	509	A
1	AA	518	C
1	AA	533	A
1	AA	560	U
1	AA	575	G
1	AA	687	A
1	AA	701	C
1	AA	792	A

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Mol	Chain	Res	Type
1	AA	812	C
1	AA	913	A
1	AA	960	U
1	AA	975	A
1	AA	992	U
1	AA	1049	U
1	AA	1065	U
1	AA	1067	A
1	AA	1085	U
1	AA	1101	A
1	AA	1129	C
1	AA	1182	G
1	AA	1196	U
1	AA	1201	A
1	AA	1214	C
1	AA	1224	G
1	AA	1226	C
1	AA	1257	U
1	AA	1281	U
1	AA	1346	A
1	AA	1347	G
1	AA	1364	U
1	AA	1397	C
1	AA	1451	A
1	AA	1503	A
1	AA	1504	G
1	AA	1528	U
22	BB	71	A
22	BB	111	G
22	BB	173	A
22	BB	181	A
22	BB	192	G
22	BB	198	A
22	BB	583	C
22	BB	1141	U
22	BB	1194	U
22	BB	1223	G
22	BB	1263	G
22	BB	1278	A
22	BB	1287	A
22	BB	1313	U
22	BB	1354	A

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Mol	Chain	Res	Type
22	BB	1495	G
22	BB	1664	G
22	BB	1710	U
22	BB	1820	G
22	BB	1856	U
22	BB	1888	C
22	BB	1938	U
22	BB	2015	G
22	BB	2018	G
22	BB	3171	A
22	BB	3172	U
22	BB	2204	A
22	BB	2245	A
22	BB	2261	G
22	BB	2377	U
22	BB	2404	A
22	BB	2426	G
22	BB	2592	U
22	BB	2655	C
22	BB	2759	U
23	BA	58	G
1	CA	7	G
1	CA	48	C
1	CA	51	A
1	CA	60	A
1	CA	115	G
1	CA	119	A
1	CA	129(A)	G
1	CA	181	G
1	CA	197	A
1	CA	243	A
1	CA	250	A
1	CA	251	G
1	CA	279	A
1	CA	328	C
1	CA	329	A
1	CA	344	A
1	CA	366	C
1	CA	428	G
1	CA	429	U
1	CA	484	G
1	CA	497	A

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Mol	Chain	Res	Type
1	CA	509	A
1	CA	518	C
1	CA	533	A
1	CA	560	U
1	CA	575	G
1	CA	687	A
1	CA	701	C
1	CA	792	A
1	CA	812	C
1	CA	913	A
1	CA	960	U
1	CA	975	A
1	CA	992	U
1	CA	1049	U
1	CA	1065	U
1	CA	1067	A
1	CA	1085	U
1	CA	1101	A
1	CA	1129	C
1	CA	1182	G
1	CA	1196	U
1	CA	1201	A
1	CA	1214	C
1	CA	1224	G
1	CA	1226	C
1	CA	1257	U
1	CA	1281	U
1	CA	1346	A
1	CA	1347	G
1	CA	1364	U
1	CA	1393	U
1	CA	1397	C
1	CA	1451	A
1	CA	1503	A
1	CA	1504	G
1	CA	1528	U
22	DB	71	A
22	DB	173	A
22	DB	181	A
22	DB	192	G
22	DB	198	A
22	DB	583	C

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Mol	Chain	Res	Type
22	DB	677	G
22	DB	1141	U
22	DB	1194	U
22	DB	1223	G
22	DB	1263	G
22	DB	1278	A
22	DB	1313	U
22	DB	1354	A
22	DB	1411	C
22	DB	1495	G
22	DB	1664	G
22	DB	1710	U
22	DB	1820	G
22	DB	1827	G
22	DB	1887	G
22	DB	1888	C
22	DB	1938	U
22	DB	2015	G
22	DB	2018	G
22	DB	3171	A
22	DB	3172	U
22	DB	2204	A
22	DB	2245	A
22	DB	2261	G
22	DB	2377	U
22	DB	2404	A
22	DB	2426	G
22	DB	2592	U
22	DB	2745	A
22	DB	2759	U
23	DA	58	G
1	EA	7	G
1	EA	48	C
1	EA	51	A
1	EA	60	A
1	EA	115	G
1	EA	119	A
1	EA	129(A)	G
1	EA	181	G
1	EA	197	A
1	EA	243	A
1	EA	250	A

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Mol	Chain	Res	Type
1	EA	251	G
1	EA	279	A
1	EA	328	C
1	EA	329	A
1	EA	344	A
1	EA	366	C
1	EA	428	G
1	EA	429	U
1	EA	484	G
1	EA	497	A
1	EA	509	A
1	EA	518	C
1	EA	533	A
1	EA	560	U
1	EA	575	G
1	EA	687	A
1	EA	701	C
1	EA	792	A
1	EA	812	C
1	EA	913	A
1	EA	960	U
1	EA	975	A
1	EA	992	U
1	EA	1049	U
1	EA	1065	U
1	EA	1067	A
1	EA	1085	U
1	EA	1101	A
1	EA	1129	C
1	EA	1182	G
1	EA	1196	U
1	EA	1201	A
1	EA	1214	C
1	EA	1224	G
1	EA	1226	C
1	EA	1257	U
1	EA	1281	U
1	EA	1346	A
1	EA	1347	G
1	EA	1364	U
1	EA	1393	U
1	EA	1397	C

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Mol	Chain	Res	Type
1	EA	1451	A
1	EA	1503	A
1	EA	1504	G
1	EA	1528	U
22	FB	69	G
22	FB	71	A
22	FB	173	A
22	FB	181	A
22	FB	192	G
22	FB	198	A
22	FB	583	C
22	FB	677	G
22	FB	1141	U
22	FB	1145	C
22	FB	1194	U
22	FB	1223	G
22	FB	1263	G
22	FB	1278	A
22	FB	1313	U
22	FB	1354	A
22	FB	1411	C
22	FB	1437	A
22	FB	1495	G
22	FB	1664	G
22	FB	1710	U
22	FB	1752	U
22	FB	1820	G
22	FB	1856	U
22	FB	1938	U
22	FB	2015	G
22	FB	2018	G
22	FB	3171	A
22	FB	3172	U
22	FB	2204	A
22	FB	2245	A
22	FB	2261	G
22	FB	2377	U
22	FB	2404	A
22	FB	2426	G
22	FB	2552	C
22	FB	2592	U
22	FB	2759	U

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Mol	Chain	Res	Type
23	FA	58	G
1	GA	7	G
1	GA	48	C
1	GA	51	A
1	GA	60	A
1	GA	115	G
1	GA	119	A
1	GA	129(A)	G
1	GA	181	G
1	GA	197	A
1	GA	243	A
1	GA	250	A
1	GA	251	G
1	GA	279	A
1	GA	328	C
1	GA	329	A
1	GA	344	A
1	GA	366	C
1	GA	428	G
1	GA	429	U
1	GA	484	G
1	GA	497	A
1	GA	509	A
1	GA	518	C
1	GA	533	A
1	GA	560	U
1	GA	575	G
1	GA	687	A
1	GA	701	C
1	GA	792	A
1	GA	812	C
1	GA	913	A
1	GA	960	U
1	GA	975	A
1	GA	992	U
1	GA	1049	U
1	GA	1065	U
1	GA	1067	A
1	GA	1085	U
1	GA	1101	A
1	GA	1129	C
1	GA	1182	G

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Mol	Chain	Res	Type
1	GA	1196	U
1	GA	1201	A
1	GA	1214	C
1	GA	1224	G
1	GA	1226	C
1	GA	1257	U
1	GA	1281	U
1	GA	1346	A
1	GA	1347	G
1	GA	1364	U
1	GA	1397	C
1	GA	1451	A
1	GA	1503	A
1	GA	1504	G
1	GA	1528	U
22	HB	71	A
22	HB	115	G
22	HB	173	A
22	HB	181	A
22	HB	192	G
22	HB	198	A
22	HB	583	C
22	HB	910	U
22	HB	1141	U
22	HB	1194	U
22	HB	1223	G
22	HB	1263	G
22	HB	1278	A
22	HB	1313	U
22	HB	1354	A
22	HB	1453	A
22	HB	1495	G
22	HB	1664	G
22	HB	1710	U
22	HB	1820	G
22	HB	1888	C
22	HB	1938	U
22	HB	2015	G
22	HB	2018	G
22	HB	3171	A
22	HB	3172	U
22	HB	3197	U

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Mol	Chain	Res	Type
22	HB	2204	A
22	HB	2245	A
22	HB	2261	G
22	HB	2377	U
22	HB	2404	A
22	HB	2426	G
22	HB	2592	U
22	HB	2655	C
22	HB	2759	U
23	HA	58	G
1	IA	7	G
1	IA	48	C
1	IA	51	A
1	IA	60	A
1	IA	115	G
1	IA	119	A
1	IA	129(A)	G
1	IA	181	G
1	IA	197	A
1	IA	243	A
1	IA	250	A
1	IA	251	G
1	IA	279	A
1	IA	328	C
1	IA	329	A
1	IA	344	A
1	IA	366	C
1	IA	428	G
1	IA	429	U
1	IA	484	G
1	IA	497	A
1	IA	509	A
1	IA	518	C
1	IA	533	A
1	IA	560	U
1	IA	575	G
1	IA	687	A
1	IA	701	C
1	IA	792	A
1	IA	812	C
1	IA	913	A
1	IA	919	A

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Mol	Chain	Res	Type
1	IA	960	U
1	IA	975	A
1	IA	992	U
1	IA	1049	U
1	IA	1065	U
1	IA	1067	A
1	IA	1085	U
1	IA	1101	A
1	IA	1129	C
1	IA	1182	G
1	IA	1196	U
1	IA	1201	A
1	IA	1214	C
1	IA	1224	G
1	IA	1226	C
1	IA	1257	U
1	IA	1281	U
1	IA	1346	A
1	IA	1347	G
1	IA	1364	U
1	IA	1397	C
1	IA	1451	A
1	IA	1503	A
1	IA	1504	G
1	IA	1528	U
22	JB	71	A
22	JB	173	A
22	JB	181	A
22	JB	192	G
22	JB	198	A
22	JB	539	A
22	JB	583	C
22	JB	857	U
22	JB	1141	U
22	JB	1194	U
22	JB	1223	G
22	JB	1263	G
22	JB	1278	A
22	JB	1313	U
22	JB	1354	A
22	JB	1495	G
22	JB	1664	G

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Mol	Chain	Res	Type
22	JB	1710	U
22	JB	1820	G
22	JB	1856	U
22	JB	3877	A
22	JB	1938	U
22	JB	2015	G
22	JB	2018	G
22	JB	3171	A
22	JB	3172	U
22	JB	3197	U
22	JB	2204	A
22	JB	2245	A
22	JB	2261	G
22	JB	2377	U
22	JB	2404	A
22	JB	2426	G
22	JB	2533	U
22	JB	2592	U
22	JB	2745	A
22	JB	2759	U
23	JA	58	G

5.4 Non-standard residues in protein, DNA, RNA chains [i](#)

There are no non-standard protein/DNA/RNA residues in this entry.

5.5 Carbohydrates [i](#)

There are no carbohydrates in this entry.

5.6 Ligand geometry [i](#)

There are no ligands in this entry.

5.7 Other polymers [i](#)

There are no such residues in this entry.

5.8 Polymer linkage issues ⓘ

The following chains have linkage breaks:

Mol	Chain	Number of breaks
22	FB	56
22	HB	55
22	JB	52
22	BB	51
22	DB	51
1	EA	5
1	CA	4
1	GA	4
1	AA	4
1	IA	4
12	GL	3
12	AL	3
12	IL	3
12	CL	3
43	HW	2
13	EM	2
13	GM	2
43	FW	2
12	EL	2
13	IM	2
43	DW	2
13	CM	2
43	JW	2
43	BW	2
13	AM	1

All chain breaks are listed below:

Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	JB	373:A	O3'	387:A	P	28.29
1	HB	373:A	O3'	387:A	P	28.03
1	FB	373:A	O3'	387:A	P	28.01
1	DB	373:A	O3'	387:A	P	27.91
1	FB	248:A	O3'	292:A	P	27.80
1	DB	248:A	O3'	292:A	P	27.70
1	JB	248:A	O3'	292:A	P	27.63
1	BB	373:A	O3'	387:A	P	27.59
1	HB	248:A	O3'	292:A	P	27.38
1	BB	248:A	O3'	292:A	P	27.25
1	HB	2774:U	O3'	2778:U	P	20.37

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Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	JB	2774:U	O3'	2778:U	P	20.28
1	BB	2774:U	O3'	2778:U	P	20.13
1	DB	2774:U	O3'	2778:U	P	19.33
1	FB	2774:U	O3'	2778:U	P	18.81
1	DW	89:GLY	C	90:GLU	N	9.81
1	JW	89:GLY	C	90:GLU	N	9.06
1	FW	89:GLY	C	90:GLU	N	7.78
1	BW	89:GLY	C	90:GLU	N	6.78
1	EA	1458:G	O3'	1460:A	P	6.65
1	AA	1458:G	O3'	1460:A	P	6.64
1	CA	1458:G	O3'	1460:A	P	6.64
1	GA	1458:G	O3'	1460:A	P	6.64
1	IA	1458:G	O3'	1460:A	P	6.64
1	FB	1119:U	O3'	1120:C	P	6.36
1	DB	891:A	O3'	892:A	P	6.35
1	IM	83:ASP	C	84:ILE	N	6.17
1	BB	891:A	O3'	892:A	P	5.97
1	EM	83:ASP	C	84:ILE	N	5.68
1	AL	22:SER	C	23:LYS	N	5.58
1	GL	16:GLU	C	17:LYS	N	5.49
1	CL	16:GLU	C	17:LYS	N	5.45
1	FB	891:A	O3'	892:A	P	5.31
1	AA	1443:G	O3'	1445:U	P	5.27
1	CA	1443:G	O3'	1445:U	P	5.27
1	EA	1443:G	O3'	1445:U	P	5.27
1	GA	1443:G	O3'	1445:U	P	5.27
1	IA	1443:G	O3'	1445:U	P	5.27
1	GL	22:SER	C	23:LYS	N	5.10
1	CM	89:GLY	C	90:LEU	N	4.97
1	FB	1062:G	O3'	1063:C	P	4.86
1	JW	88:TYR	C	89:GLY	N	4.69
1	HW	89:GLY	C	90:GLU	N	4.64
1	AM	89:GLY	C	90:LEU	N	4.55
1	HW	88:TYR	C	89:GLY	N	4.52
1	CL	22:SER	C	23:LYS	N	4.39
1	FB	2075:U	O3'	3093:C	P	4.30
1	JB	891:A	O3'	892:A	P	4.13
1	EL	16:GLU	C	17:LYS	N	4.00
1	DB	2075:U	O3'	3093:C	P	3.93
1	IM	89:GLY	C	90:LEU	N	3.92
1	BB	946:U	O3'	947:C	P	3.85
1	BB	857:U	O3'	858:G	P	3.84

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Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	DB	910:U	O3'	911:A	P	3.81
1	GL	19:ARG	C	20:LYS	N	3.80
1	JB	1119:U	O3'	1120:C	P	3.75
1	HB	1062:G	O3'	1063:C	P	3.73
1	GM	83:ASP	C	84:ILE	N	3.72
1	JB	910:U	O3'	911:A	P	3.67
1	BB	1062:G	O3'	1063:C	P	3.64
1	HB	891:A	O3'	892:A	P	3.62
1	DB	1119:U	O3'	1120:C	P	3.52
1	FB	910:U	O3'	911:A	P	3.47
1	DB	1912:G	O3'	1913:G	P	3.33
1	HB	2623:A	O3'	2624:G	P	3.31
1	BB	1698:C	O3'	1699:A	P	3.30
1	FB	1532:A	O3'	1533:G	P	3.29
1	EM	89:GLY	C	90:LEU	N	3.28
1	DB	1062:G	O3'	1063:C	P	3.26
1	CM	83:ASP	C	84:ILE	N	3.23
1	IL	19:ARG	C	20:LYS	N	3.22
1	AA	1393:U	O3'	1394:A	P	3.21
1	AA	919:A	O3'	920:U	P	3.20
1	HB	1119:U	O3'	1120:C	P	3.19
1	FW	88:TYR	C	89:GLY	N	3.08
1	HB	1912:G	O3'	1913:G	P	3.04
1	FB	1483:G	O3'	1484:G	P	3.03
1	IA	561:U	O3'	562:C	P	3.01
1	JB	1062:G	O3'	1063:C	P	3.00
1	BB	910:U	O3'	911:A	P	2.99
1	BB	1167:A	O3'	1168:G	P	2.98
1	BB	1752:U	O3'	1753:A	P	2.96
1	BB	2623:A	O3'	2624:G	P	2.96
1	BB	1912:G	O3'	1913:G	P	2.91
1	JB	1887:G	O3'	1888:C	P	2.82
1	DB	857:U	O3'	858:G	P	2.80
1	HB	946:U	O3'	947:C	P	2.74
1	JB	1888:C	O3'	1889:G	P	2.74
1	DB	946:U	O3'	947:C	P	2.72
1	FB	111:G	O3'	112:U	P	2.72
1	JB	2075:U	O3'	3093:C	P	2.68
1	HB	857:U	O3'	858:G	P	2.66
1	HB	2713:A	O3'	2714:A	P	2.66
1	BB	1586:A	O3'	1587:A	P	2.64
1	DB	1861:G	O3'	1862:C	P	2.63

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Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	JB	1861:G	O3'	1862:C	P	2.62
1	BB	2075:U	O3'	3093:C	P	2.60
1	EA	561:U	O3'	562:C	P	2.58
1	JB	1483:G	O3'	1484:G	P	2.57
1	BB	1532:A	O3'	1533:G	P	2.52
1	BB	2745:A	O3'	2746:G	P	2.52
1	BB	1861:G	O3'	1862:C	P	2.51
1	JB	115:G	O3'	116:A	P	2.51
1	BB	156:G	O3'	157:G	P	2.49
1	CA	919:A	O3'	920:U	P	2.47
1	FB	1613:G	O3'	1614:C	P	2.47
1	FB	2713:A	O3'	2714:A	P	2.46
1	JB	1912:G	O3'	1913:G	P	2.46
1	HB	156:G	O3'	157:G	P	2.45
1	HB	1532:A	O3'	1533:G	P	2.44
1	CL	19:ARG	C	20:LYS	N	2.43
1	FB	1453:A	O3'	1454:U	P	2.41
1	BB	1566:G	O3'	1567:A	P	2.40
1	FB	857:U	O3'	858:G	P	2.40
1	HB	10:A	O3'	11:G	P	2.40
1	DB	1167:A	O3'	1168:G	P	2.39
1	FB	1861:G	O3'	1862:C	P	2.39
1	HB	2608:A	O3'	2609:G	P	2.38
1	HB	2745:A	O3'	2746:G	P	2.38
1	DB	1453:A	O3'	1454:U	P	2.37
1	HB	1698:C	O3'	1699:A	P	2.35
1	JB	2370:G	O3'	2371:A	P	2.35
1	JB	2431:C	O3'	2432:A	P	2.35
1	EL	19:ARG	C	20:LYS	N	2.34
1	IL	16:GLU	C	17:LYS	N	2.34
1	JB	156:G	O3'	157:G	P	2.34
1	DB	1698:C	O3'	1699:A	P	2.32
1	GA	1393:U	O3'	1394:A	P	2.31
1	HB	2431:C	O3'	2432:A	P	2.31
1	BB	2552:C	O3'	2553:G	P	2.30
1	CA	1393:U	O3'	1394:A	P	2.30
1	JB	2704:U	O3'	2705:A	P	2.30
1	HB	2203:G	O3'	2204:A	P	2.29
1	DB	3197:U	O3'	2181:A	P	2.28
1	DW	88:TYR	C	89:GLY	N	2.28
1	DB	487:G	O3'	488:A	P	2.27
1	FB	2608:A	O3'	2609:G	P	2.27

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Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	JB	2471:U	O3'	2472:U	P	2.27
1	FB	69:G	O3'	70:A	P	2.26
1	DB	1197:U	O3'	1198:C	P	2.25
1	HB	1586:A	O3'	1587:A	P	2.25
1	DB	2713:A	O3'	2714:A	P	2.23
1	FB	10:A	O3'	11:G	P	2.23
1	FB	716:U	O3'	717:G	P	2.23
1	HB	716:U	O3'	717:G	P	2.23
1	BB	1197:U	O3'	1198:C	P	2.22
1	FB	115:G	O3'	116:A	P	2.22
1	FB	603:C	O3'	604:U	P	2.22
1	JB	2260:C	O3'	2261:G	P	2.22
1	JB	2524:G	O3'	2525:U	P	2.22
1	FB	1912:G	O3'	1913:G	P	2.21
1	HB	568:G	O3'	569:C	P	2.21
1	BB	69:G	O3'	70:A	P	2.20
1	DB	2370:G	O3'	2371:A	P	2.20
1	FB	1004:A	O3'	1005:U	P	2.20
1	BB	3877:A	O3'	1861:G	P	2.19
1	BB	2713:A	O3'	2714:A	P	2.18
1	DB	1483:G	O3'	1484:G	P	2.18
1	DB	1856:U	O3'	3865:A	P	2.18
1	GA	919:A	O3'	920:U	P	2.18
1	HB	1861:G	O3'	1862:C	P	2.18
1	AL	16:GLU	C	17:LYS	N	2.17
1	JB	2608:A	O3'	2609:G	P	2.17
1	JB	2655:C	O3'	2656:G	P	2.17
1	BB	539:A	O3'	540:G	P	2.16
1	BB	2471:U	O3'	2472:U	P	2.16
1	DB	69:G	O3'	70:A	P	2.16
1	FB	2471:U	O3'	2472:U	P	2.16
1	JB	2407:G	O3'	2408:G	P	2.16
1	FB	946:U	O3'	947:C	P	2.15
1	HB	2471:U	O3'	2472:U	P	2.15
1	BB	1119:U	O3'	1120:C	P	2.14
1	DB	539:A	O3'	540:G	P	2.14
1	EA	919:A	O3'	920:U	P	2.14
1	BB	677:G	O3'	678:G	P	2.13
1	DB	1566:G	O3'	1567:A	P	2.13
1	HB	737:C	O3'	738:G	P	2.13
1	HB	1887:G	O3'	1888:C	P	2.13
1	DB	2552:C	O3'	2553:G	P	2.12

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Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	HB	511:A	O3'	512:A	P	2.12
1	HB	2075:U	O3'	3093:C	P	2.12
1	JB	10:A	O3'	11:G	P	2.12
1	JB	716:U	O3'	717:G	P	2.12
1	JB	1453:A	O3'	1454:U	P	2.12
1	BB	2370:G	O3'	2371:A	P	2.11
1	JB	2492:G	O3'	2493:U	P	2.11
1	HB	3877:A	O3'	1861:G	P	2.10
1	JB	603:C	O3'	604:U	P	2.10
1	JB	69:G	O3'	70:A	P	2.09
1	BB	1047:G	O3'	1048:U	P	2.08
1	FB	2370:G	O3'	2371:A	P	2.08
1	HB	539:A	O3'	540:G	P	2.08
1	BB	487:G	O3'	488:A	P	2.07
1	FB	2623:A	O3'	2624:G	P	2.07
1	IA	1393:U	O3'	1394:A	P	2.07
1	FB	737:C	O3'	738:G	P	2.06
1	FB	2533:U	O3'	2534:U	P	2.05
1	HB	1752:U	O3'	1753:A	P	2.05
1	JB	511:A	O3'	512:A	P	2.05
1	JB	1698:C	O3'	1699:A	P	2.05
1	DB	2704:U	O3'	2705:A	P	2.04
1	BB	1127:C	O3'	1128:G	P	2.03
1	DB	568:G	O3'	569:C	P	2.03
1	HB	69:G	O3'	70:A	P	2.03
1	BB	2203:G	O3'	2204:A	P	2.02
1	JB	1827:G	O3'	1828:C	P	2.01
1	FB	1437:A	O3'	1438:G	P	2.00
1	HB	487:G	O3'	488:A	P	2.00
1	DB	677:G	O3'	678:G	P	1.99
1	JB	1437:A	O3'	1438:G	P	1.99
1	FB	3197:U	O3'	2181:A	P	1.98
1	HB	1036:G	O3'	1037:U	P	1.98
1	FB	677:G	O3'	678:G	P	1.97
1	BB	511:A	O3'	512:A	P	1.96
1	BB	2655:C	O3'	2656:G	P	1.96
1	JB	737:C	O3'	738:G	P	1.94
1	FB	2552:C	O3'	2553:G	P	1.93
1	HB	1145:C	O3'	1146:G	P	1.93
1	HB	2655:C	O3'	2656:G	P	1.93
1	IL	22:SER	C	23:LYS	N	1.93
1	FB	1566:G	O3'	1567:A	P	1.92

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Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	JB	2203:G	O3'	2204:A	P	1.91
1	BB	2431:C	O3'	2432:A	P	1.90
1	DB	511:A	O3'	512:A	P	1.90
1	DB	2203:G	O3'	2204:A	P	1.90
1	HB	1167:A	O3'	1168:G	P	1.89
1	JB	2623:A	O3'	2624:G	P	1.89
1	BB	10:A	O3'	11:G	P	1.88
1	FB	2260:C	O3'	2261:G	P	1.88
1	FB	2407:G	O3'	2408:G	P	1.88
1	BB	716:U	O3'	717:G	P	1.85
1	DB	1752:U	O3'	1753:A	P	1.85
1	HB	1952:A	O3'	1953:A	P	1.85
1	HB	2552:C	O3'	2553:G	P	1.85
1	DB	2655:C	O3'	2656:G	P	1.84
1	EA	1393:U	O3'	1394:A	P	1.84
1	JB	1127:C	O3'	1128:G	P	1.84
1	BB	2608:A	O3'	2609:G	P	1.83
1	DB	111:G	O3'	112:U	P	1.83
1	DB	1004:A	O3'	1005:U	P	1.82
1	HB	1888:C	O3'	1889:G	P	1.82
1	DB	1586:A	O3'	1587:A	P	1.81
1	FB	568:G	O3'	569:C	P	1.81
1	FB	2492:G	O3'	2493:U	P	1.81
1	BB	1004:A	O3'	1005:U	P	1.80
1	HB	2370:G	O3'	2371:A	P	1.80
1	FB	487:G	O3'	488:A	P	1.78
1	FB	1856:U	O3'	3865:A	P	1.78
1	DB	603:C	O3'	604:U	P	1.77
1	JB	111:G	O3'	112:U	P	1.77
1	JB	1566:G	O3'	1567:A	P	1.77
1	JB	2713:A	O3'	2714:A	P	1.77
1	JB	1532:A	O3'	1533:G	P	1.76
1	DB	1532:A	O3'	1533:G	P	1.75
1	FB	1698:C	O3'	1699:A	P	1.75
1	JB	1004:A	O3'	1005:U	P	1.75
1	AL	19:ARG	C	20:LYS	N	1.64
1	HB	2492:G	O3'	2493:U	P	1.40
1	DB	1127:C	O3'	1128:G	P	1.38
1	HB	1856:U	O3'	3865:A	P	1.37
1	DB	1036:G	O3'	1037:U	P	1.36
1	DB	2524:G	O3'	2525:U	P	1.36
1	FB	1036:G	O3'	1037:U	P	1.36

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Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	HB	1309:G	O3'	1310:C	P	1.36
1	HB	1566:G	O3'	1567:A	P	1.36
1	JB	1856:U	O3'	3865:A	P	1.36
1	HB	677:G	O3'	678:G	P	1.35
1	HB	1827:G	O3'	1828:C	P	1.34
1	HB	2524:G	O3'	2525:U	P	1.34
1	BB	568:G	O3'	569:C	P	1.33
1	BB	1952:A	O3'	1953:A	P	1.33
1	HB	1437:A	O3'	1438:G	P	1.33
1	JB	1197:U	O3'	1198:C	P	1.33
1	JB	1309:G	O3'	1310:C	P	1.32
1	DB	1047:G	O3'	1048:U	P	1.31
1	FB	2745:A	O3'	2746:G	P	1.31
1	HB	2533:U	O3'	2534:U	P	1.31
1	BB	1887:G	O3'	1888:C	P	1.30
1	DB	115:G	O3'	116:A	P	1.30
1	FB	1127:C	O3'	1128:G	P	1.30
1	FB	1145:C	O3'	1146:G	P	1.30
1	JB	1047:G	O3'	1048:U	P	1.29
1	FB	1411:C	O3'	1412:C	P	1.26
1	FB	1167:A	O3'	1168:G	P	1.25
1	HB	910:U	O3'	911:A	P	1.25
1	FB	1952:A	O3'	1953:A	P	1.23
1	JB	2552:C	O3'	2553:G	P	1.21
1	DB	1613:G	O3'	1614:C	P	1.20
1	FB	1827:G	O3'	1828:C	P	1.20
1	HB	115:G	O3'	116:A	P	1.20
1	JB	2533:U	O3'	2534:U	P	1.20
1	JB	3877:A	O3'	1861:G	P	1.19
1	BB	1856:U	O3'	3865:A	P	1.16
1	FB	3877:A	O3'	1861:G	P	1.16
1	DB	1887:G	O3'	1888:C	P	1.15
1	HB	111:G	O3'	112:U	P	1.15
1	DB	2623:A	O3'	2624:G	P	1.14
1	HB	1453:A	O3'	1454:U	P	1.14
1	BW	88:TYR	C	89:GLY	N	1.13
1	FB	1887:G	O3'	1888:C	P	1.12
1	HB	1613:G	O3'	1614:C	P	1.11
1	BB	111:G	O3'	112:U	P	1.09
1	FB	156:G	O3'	157:G	P	1.09
1	DB	1827:G	O3'	1828:C	P	1.08
1	BB	1437:A	O3'	1438:G	P	1.07

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Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	JB	539:A	O3'	540:G	P	1.07
1	BB	115:G	O3'	116:A	P	1.06
1	JB	857:U	O3'	858:G	P	1.06
1	BB	1483:G	O3'	1484:G	P	1.04
1	BB	1453:A	O3'	1454:U	P	1.02
1	GM	89:GLY	C	90:LEU	N	1.01
1	DB	1888:C	O3'	1889:G	P	0.98
1	FB	1752:U	O3'	1753:A	P	0.97
1	DB	2745:A	O3'	2746:G	P	0.95
1	FB	1586:A	O3'	1587:A	P	0.94
1	DB	1437:A	O3'	1438:G	P	0.90
1	DB	1411:C	O3'	1412:C	P	0.86
1	FB	1047:G	O3'	1048:U	P	0.86
1	BB	1888:C	O3'	1889:G	P	0.56

6 Fit of model and data [i](#)

6.1 Protein, DNA and RNA chains [i](#)

Unable to reproduce the depositors R factor - this section is therefore empty.

6.2 Non-standard residues in protein, DNA, RNA chains [i](#)

Unable to reproduce the depositors R factor - this section is therefore empty.

6.3 Carbohydrates [i](#)

Unable to reproduce the depositors R factor - this section is therefore empty.

6.4 Ligands [i](#)

Unable to reproduce the depositors R factor - this section is therefore empty.

6.5 Other polymers [i](#)

Unable to reproduce the depositors R factor - this section is therefore empty.