



Full wwPDB X-ray Structure Validation Report ⓘ

May 23, 2020 – 01:07 am BST

PDB ID : 4V5J
Title : Structure of the 70S ribosome bound to Release factor 2 and a substrate analog provides insights into catalysis of peptide release
Authors : Jin, H.; Kelley, A.C.; Loakes, D.; Ramakrishnan, V.
Deposited on : 2010-03-24
Resolution : 3.10 Å(reported)

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

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

A user guide is available at

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

with specific help available everywhere you see the ⓘ symbol.

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

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

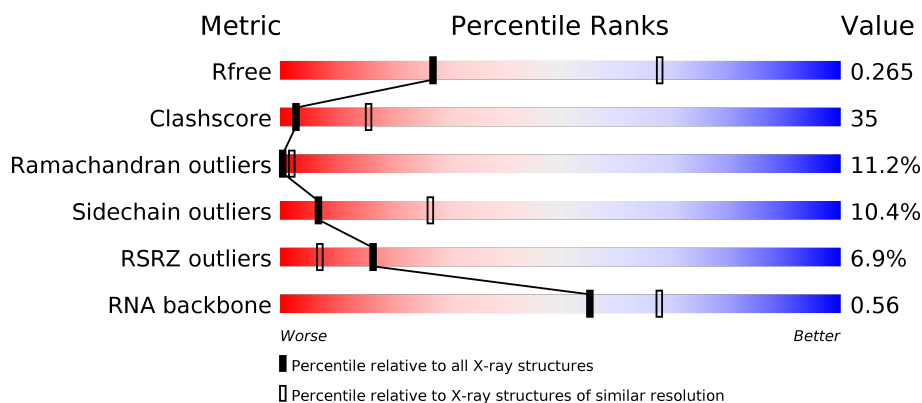
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 3.10 Å.

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



Metric	Whole archive (#Entries)	Similar resolution (#Entries, resolution range(Å))
R_{free}	130704	1094 (3.10-3.10)
Clashscore	141614	1184 (3.10-3.10)
Ramachandran outliers	138981	1141 (3.10-3.10)
Sidechain outliers	138945	1141 (3.10-3.10)
RSRZ outliers	127900	1067 (3.10-3.10)
RNA backbone	3102	1116 (3.40-2.80)

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

Mol	Chain	Length	Quality of chain
1	AA	1522	<div> <div>3%</div> <div>29%</div> <div>59%</div> <div>10%</div> </div>
1	CA	1522	<div> <div>2%</div> <div>29%</div> <div>59%</div> <div>10%</div> </div>
2	AB	256	<div> <div>9%</div> <div>19%</div> <div>57%</div> <div>14%</div> <div>8%</div> </div>
2	CB	256	<div> <div>7%</div> <div>19%</div> <div>57%</div> <div>14%</div> <div>8%</div> </div>

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Mol	Chain	Length	Quality of chain
3	AC	239	
3	CC	239	
4	AD	209	
4	CD	209	
5	AE	162	
5	CE	162	
6	AF	101	
6	CF	101	
7	AG	156	
7	CG	156	
8	AH	138	
8	CH	138	
9	AI	128	
9	CI	128	
10	AJ	105	
10	CJ	105	
11	AK	129	
11	CK	129	
12	AL	132	
12	CL	132	
13	AM	126	
13	CM	126	
14	AN	61	
14	CN	61	
15	AO	89	

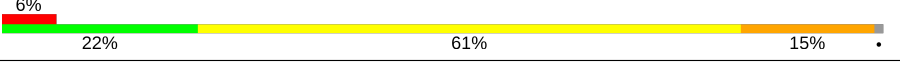
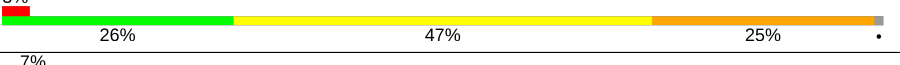

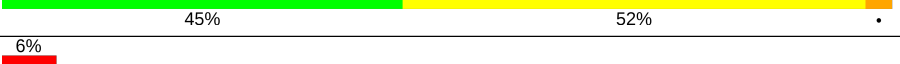

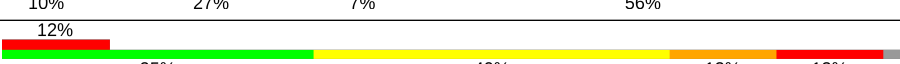
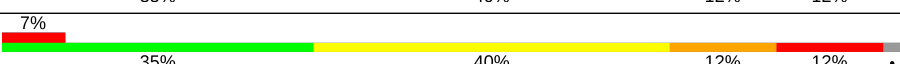
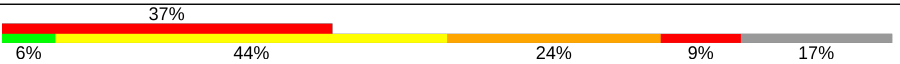



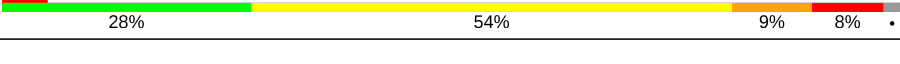


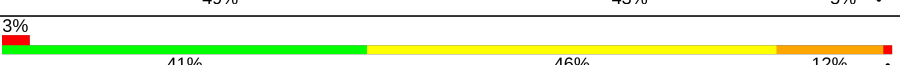
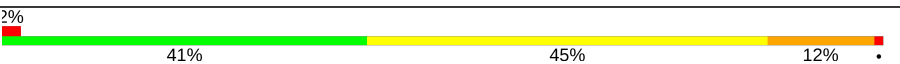


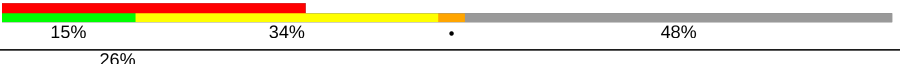
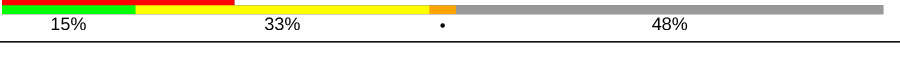

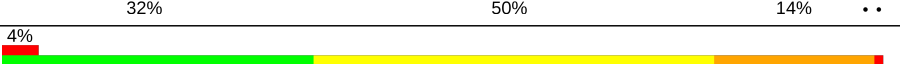



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Mol	Chain	Length	Quality of chain
15	CO	89	
16	AP	88	
16	CP	88	
17	AQ	105	
17	CQ	105	
18	AR	88	
18	CR	88	
19	AS	93	
19	CS	93	
20	AT	106	
20	CT	106	
21	AU	27	
21	CU	27	
22	AV	77	
22	AW	77	
22	CV	77	
22	CW	77	
23	AX	8	
23	CX	8	
24	AY	351	
24	CY	351	
25	B0	85	
25	D0	85	
26	B1	98	
26	D1	98	

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Mol	Chain	Length	Quality of chain
27	B2	72	
27	D2	72	
28	B3	60	
28	D3	60	
29	B4	71	
29	D4	71	
30	B5	60	
30	D5	60	
31	B6	54	
31	D6	54	
32	B7	49	
32	D7	49	
33	B8	65	
33	D8	65	
34	B9	37	
34	D9	37	
35	BA	2915	
35	DA	2915	
36	BB	122	
36	DB	122	
37	BC	229	
37	DC	229	
38	BD	276	
38	DD	276	
39	BE	206	

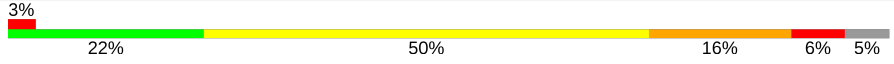
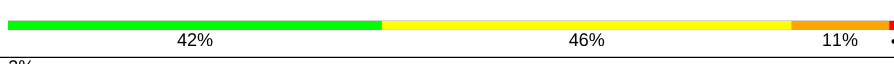
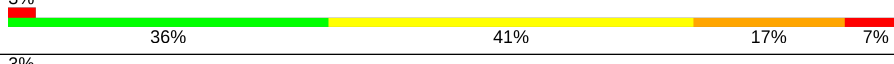

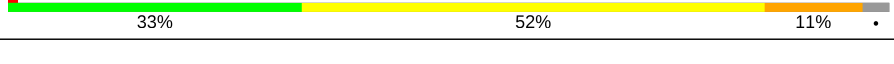
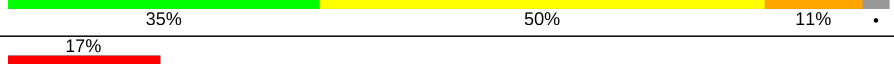

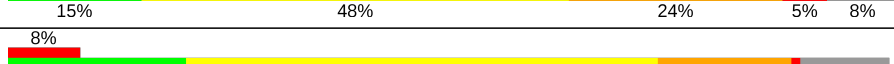
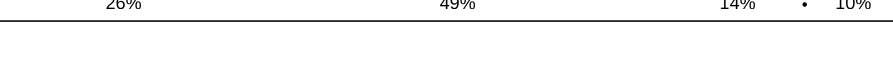
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Mol	Chain	Length	Quality of chain
39	DE	206	
40	BF	210	
40	DF	210	
41	BG	182	
41	DG	182	
42	BH	180	
42	DH	180	
43	BI	148	
43	DI	148	
44	BJ	130	
44	DJ	130	
45	BK	147	
45	DK	147	
46	BN	140	
46	DN	140	
47	BO	122	
47	DO	122	
48	BP	150	
48	DP	150	
49	BQ	141	
49	DQ	141	
50	BR	118	
50	DR	118	
51	BS	112	
51	DS	112	

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Mol	Chain	Length	Quality of chain
52	BT	146	
52	DT	146	
53	BU	118	
53	DU	118	
54	BV	101	
54	DV	101	
55	BW	113	
55	DW	113	
56	BX	96	
56	DX	96	
57	BY	110	
57	DY	110	
58	BZ	206	
58	DZ	206	

The following table lists non-polymeric compounds, carbohydrate monomers and non-standard residues in protein, DNA, RNA chains that are outliers for geometric or electron-density-fit criteria:

Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
22	8AN	AV	76	-	-	X	-
22	PHA	AW	77	-	-	X	X
22	PHA	CW	77	-	-	X	-
59	MG	AA	1611	-	-	-	X
59	MG	AA	1630	-	-	-	X
59	MG	AA	1721	-	-	-	X
59	MG	AA	1727	-	-	-	X
59	MG	AA	1732	-	-	-	X
59	MG	AA	1748	-	-	-	X
59	MG	AA	1752	-	-	-	X
59	MG	AV	105	-	-	-	X
59	MG	AX	101	-	-	-	X
59	MG	B5	102	-	-	-	X

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Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
59	MG	BA	3010	-	-	-	X
59	MG	BA	3029	-	-	-	X
59	MG	BA	3039	-	-	-	X
59	MG	BA	3111	-	-	-	X
59	MG	BA	3127	-	-	-	X
59	MG	BA	3131	-	-	-	X
59	MG	BA	3149	-	-	-	X
59	MG	BA	3208	-	-	-	X
59	MG	BA	3209	-	-	-	X
59	MG	BA	3212	-	-	-	X
59	MG	BA	3217	-	-	-	X
59	MG	BA	3218	-	-	-	X
59	MG	BA	3273	-	-	-	X
59	MG	BA	3276	-	-	-	X
59	MG	BA	3277	-	-	-	X
59	MG	BA	3290	-	-	-	X
59	MG	BA	3313	-	-	-	X
59	MG	BA	3319	-	-	-	X
59	MG	BA	3344	-	-	-	X
59	MG	BA	3354	-	-	-	X
59	MG	BA	3357	-	-	-	X
59	MG	BG	201	-	-	-	X
59	MG	CA	1603	-	-	-	X
59	MG	CA	1632	-	-	-	X
59	MG	CA	1637	-	-	-	X
59	MG	CA	1638	-	-	-	X
59	MG	CA	1648	-	-	-	X
59	MG	CA	1675	-	-	-	X
59	MG	CA	1680	-	-	-	X
59	MG	CA	1699	-	-	-	X
59	MG	CA	1712	-	-	-	X
59	MG	CA	1714	-	-	-	X
59	MG	CA	1715	-	-	-	X
59	MG	CA	1748	-	-	-	X
59	MG	CL	202	-	-	-	X
59	MG	DA	3044	-	-	-	X
59	MG	DA	3095	-	-	-	X
59	MG	DA	3153	-	-	-	X
59	MG	DA	3197	-	-	-	X
59	MG	DA	3210	-	-	-	X
59	MG	DA	3215	-	-	-	X
59	MG	DA	3226	-	-	-	X

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Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
59	MG	DA	3244	-	-	-	X
59	MG	DA	3253	-	-	-	X
59	MG	DA	3258	-	-	-	X
59	MG	DA	3339	-	-	-	X
59	MG	DA	3356	-	-	-	X
59	MG	DB	201	-	-	-	X
59	MG	DP	201	-	-	-	X

2 Entry composition

There are 61 unique types of molecules in this entry. The entry contains 305067 atoms, of which 0 are hydrogens and 0 are deuteriums.

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

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	AA	1504	Total	C	N	O	P	0	0	0
			32329	14390	5992	10444	1503			
1	CA	1504	Total	C	N	O	P	0	0	0
			32329	14390	5992	10444	1503			

- Molecule 2 is a protein called 30S RIBOSOMAL PROTEIN S2.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
2	AB	235	Total	C	N	O	S	0	0	1
			1901	1213	342	341	5			
2	CB	235	Total	C	N	O	S	0	0	1
			1901	1213	342	341	5			

- Molecule 3 is a protein called 30S RIBOSOMAL PROTEIN S3.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
3	AC	207	Total	C	N	O	S	0	0	1
			1613	1016	315	281	1			
3	CC	207	Total	C	N	O	S	0	0	1
			1613	1016	315	281	1			

- Molecule 4 is a protein called 30S RIBOSOMAL PROTEIN S4.

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

- Molecule 5 is a protein called 30S RIBOSOMAL PROTEIN S5.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
5	AE	151	Total	C	N	O	S	0	0	1
			1147	724	218	201	4			
5	CE	151	Total	C	N	O	S	0	0	1
			1147	724	218	201	4			

- Molecule 6 is a protein called 30S RIBOSOMAL PROTEIN S6.

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

- Molecule 7 is a protein called 30S RIBOSOMAL PROTEIN S7.

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

- Molecule 8 is a protein called 30S RIBOSOMAL PROTEIN S8.

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

- Molecule 9 is a protein called 30S RIBOSOMAL PROTEIN S9.

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

- Molecule 10 is a protein called 30S RIBOSOMAL PROTEIN S10.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
10	AJ	99	Total	C	N	O	S	0	0	1
			795	499	157	138	1			

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
10	CJ	99	Total	C	N	O	S	0	0	1
			795	499	157	138	1			

- Molecule 11 is a protein called 30S RIBOSOMAL PROTEIN S11.

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

- Molecule 12 is a protein called 30S RIBOSOMAL PROTEIN S12.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
12	AL	125	Total	C	N	O	S	0	0	1
			971	611	196	163	1			
12	CL	125	Total	C	N	O	S	0	0	1
			971	611	196	163	1			

- Molecule 13 is a protein called 30S RIBOSOMAL PROTEIN S13.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
13	AM	125	Total	C	N	O	S	0	0	1
			988	611	206	169	2			
13	CM	125	Total	C	N	O	S	0	0	1
			988	611	206	169	2			

- Molecule 14 is a protein called 30S RIBOSOMAL PROTEIN S14 TYPE Z.

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

- Molecule 15 is a protein called 30S RIBOSOMAL PROTEIN S15.

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

- Molecule 16 is a protein called 30S RIBOSOMAL PROTEIN S16.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
16	AP	84	Total	C	N	O	S	0	0	1
			701	443	140	117	1			
16	CP	84	Total	C	N	O	S	0	0	1
			701	443	140	117	1			

- Molecule 17 is a protein called 30S RIBOSOMAL PROTEIN S17.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
17	AQ	100	Total	C	N	O	S	0	0	1
			824	528	152	142	2			
17	CQ	100	Total	C	N	O	S	0	0	1
			824	528	152	142	2			

- Molecule 18 is a protein called 30S RIBOSOMAL PROTEIN S18.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
18	AR	70	Total	C	N	O	0	0	0
			574	367	112	95			
18	CR	70	Total	C	N	O	0	0	0
			574	367	112	95			

- Molecule 19 is a protein called 30S RIBOSOMAL PROTEIN S19.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
19	AS	79	Total	C	N	O	S	0	0	1
			630	403	115	110	2			
19	CS	79	Total	C	N	O	S	0	0	1
			630	403	115	110	2			

- Molecule 20 is a protein called 30S RIBOSOMAL PROTEIN S20.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
20	AT	99	Total	C	N	O	S	0	0	0
			763	470	162	129	2			
20	CT	99	Total	C	N	O	S	0	0	0
			763	470	162	129	2			

- Molecule 21 is a protein called 30S RIBOSOMAL PROTEIN THX.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
21	AU	25	Total	C	N	O	0	0	1
			209	128	51	30			
21	CU	25	Total	C	N	O	0	0	1
			209	128	51	30			

- Molecule 22 is a RNA chain called E-SITE TRNA PHE OR P-SITE TRNA PHE (UNMODIFIED BASES).

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
22	AV	77	Total	C	N	O	P	0	0	0
			1630	732	292	531	75			
22	AW	77	Total	C	N	O	P	0	0	0
			1630	732	292	531	75			
22	CV	77	Total	C	N	O	P	0	0	0
			1630	732	292	531	75			
22	CW	77	Total	C	N	O	P	0	0	0
			1630	732	292	531	75			

- Molecule 23 is a RNA chain called MRNA.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
23	AX	8	Total	C	N	O	P	0	0	0
			165	76	29	53	7			
23	CX	8	Total	C	N	O	P	0	0	0
			165	76	29	53	7			

- Molecule 24 is a protein called PEPTIDE CHAIN RELEASE FACTOR 2.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
24	AY	351	Total	C	N	O	S	0	0	0
			2801	1752	506	535	8			
24	CY	351	Total	C	N	O	S	0	0	0
			2801	1752	506	535	8			

- Molecule 25 is a protein called 50S RIBOSOMAL PROTEIN L27.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
25	B0	83	Total	C	N	O	S	0	0	0
			657	407	139	110	1			
25	D0	83	Total	C	N	O	S	0	0	0
			657	407	139	110	1			

- Molecule 26 is a protein called 50S RIBOSOMAL PROTEIN L28.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
26	B1	94	Total	C	N	O	S	0	0	1
			732	460	146	125	1			
26	D1	94	Total	C	N	O	S	0	0	1
			732	460	146	125	1			

- Molecule 27 is a protein called 50S RIBOSOMAL PROTEIN L29.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
27	B2	71	Total	C	N	O	S	0	0	0
			598	370	121	106	1			
27	D2	71	Total	C	N	O	S	0	0	0
			598	370	121	106	1			

- Molecule 28 is a protein called 50S RIBOSOMAL PROTEIN L30.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
28	B3	60	Total	C	N	O	S	0	0	1
			468	298	91	78	1			
28	D3	60	Total	C	N	O	S	0	0	1
			468	298	91	78	1			

- Molecule 29 is a protein called 50S RIBOSOMAL PROTEIN L31.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
29	B4	31	Total	C	N	O	S	0	0	1
			226	142	37	43	4			
29	D4	31	Total	C	N	O	S	0	0	1
			226	142	37	43	4			

- Molecule 30 is a protein called 50S RIBOSOMAL PROTEIN L32.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
30	B5	59	Total	C	N	O	S	0	0	0
			459	288	90	76	5			
30	D5	59	Total	C	N	O	S	0	0	0
			459	288	90	76	5			

- Molecule 31 is a protein called 50S RIBOSOMAL PROTEIN L33.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
31	B6	45	Total	C	N	O	S	0	0	1
			381	235	78	64	4			

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
31	D6	45	Total	C	N	O	S	0	0	1
			381	235	78	64	4			

- Molecule 32 is a protein called 50S RIBOSOMAL PROTEIN L34.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
32	B7	49	Total	C	N	O	S	0	0	1
			419	257	105	55	2			
32	D7	49	Total	C	N	O	S	0	0	1
			419	257	105	55	2			

- Molecule 33 is a protein called 50S RIBOSOMAL PROTEIN L35.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
33	B8	64	Total	C	N	O	S	0	0	1
			508	326	102	78	2			
33	D8	64	Total	C	N	O	S	0	0	1
			508	326	102	78	2			

- Molecule 34 is a protein called 50S RIBOSOMAL PROTEIN L36.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
34	B9	36	Total	C	N	O	S	0	0	0
			299	183	67	46	3			
34	D9	36	Total	C	N	O	S	0	0	0
			299	183	67	46	3			

- Molecule 35 is a RNA chain called 23S RIBOSOMAL RNA.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
35	BA	2901	Total	C	N	O	P	0	0	0
			62474	27806	11681	20087	2900			
35	DA	2901	Total	C	N	O	P	0	0	0
			62474	27806	11681	20087	2900			

- Molecule 36 is a RNA chain called 5S RIBOSOMAL RNA.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
36	BB	119	Total	C	N	O	P	0	0	0
			2551	1136	471	826	118			
36	DB	119	Total	C	N	O	P	0	0	0
			2551	1136	471	826	118			

- Molecule 37 is a protein called 50S RIBOSOMAL PROTEIN L1.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
37	BC	120	Total	C	N	O	S	0	0	0
			937	590	174	172	1			
37	DC	120	Total	C	N	O	S	0	0	0
			937	590	174	172	1			

- Molecule 38 is a protein called 50S RIBOSOMAL PROTEIN L2.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
38	BD	272	Total	C	N	O	S	0	0	1
			2105	1329	417	356	3			
38	DD	272	Total	C	N	O	S	0	0	1
			2105	1329	417	356	3			

- Molecule 39 is a protein called 50S RIBOSOMAL PROTEIN L3.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
39	BE	205	Total	C	N	O	S	0	0	1
			1564	988	300	270	6			
39	DE	205	Total	C	N	O	S	0	0	1
			1564	988	300	270	6			

- Molecule 40 is a protein called 50S RIBOSOMAL PROTEIN L4.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
40	BF	208	Total	C	N	O	S	0	0	1
			1624	1035	304	282	3			
40	DF	208	Total	C	N	O	S	0	0	1
			1624	1035	304	282	3			

- Molecule 41 is a protein called 50S RIBOSOMAL PROTEIN L5.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
41	BG	181	Total	C	N	O	S	0	0	0
			1474	942	268	260	4			
41	DG	181	Total	C	N	O	S	0	0	0
			1474	942	268	260	4			

- Molecule 42 is a protein called 50S RIBOSOMAL PROTEIN L6.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
42	BH	160	Total	C	N	O	S	0	0	1
			1223	773	229	220	1			
42	DH	160	Total	C	N	O	S	0	0	1
			1223	773	229	220	1			

- Molecule 43 is a protein called 50S RIBOSOMAL PROTEIN L9.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
43	BI	146	Total	C	N	O	S	0	0	1
			1132	723	201	207	1			
43	DI	146	Total	C	N	O	S	0	0	1
			1132	723	201	207	1			

- Molecule 44 is a protein called 50S RIBOSOMAL PROTEIN L10.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
44	BJ	130	Total	C	N	O		0	0	0
			651	390	130	131				
44	DJ	130	Total	C	N	O		0	0	0
			651	390	130	131				

- Molecule 45 is a protein called 50S RIBOSOMAL PROTEIN L11.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
45	BK	141	Total	C	N	O	S	0	0	1
			1038	661	184	187	6			
45	DK	141	Total	C	N	O	S	0	0	1
			1038	661	184	187	6			

- Molecule 46 is a protein called 50S RIBOSOMAL PROTEIN L13.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
46	BN	139	Total	C	N	O	S	0	0	1
			1105	712	207	182	4			
46	DN	139	Total	C	N	O	S	0	0	1
			1105	712	207	182	4			

- Molecule 47 is a protein called 50S RIBOSOMAL PROTEIN L14.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
47	BO	122	Total	C	N	O	S	0	0	0
			933	588	171	170	4			

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
47	DO	122	Total	C	N	O	S	0	0	0
			933	588	171	170	4			

- Molecule 48 is a protein called 50S RIBOSOMAL PROTEIN L15.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
48	BP	146	Total	C	N	O	S	0	0	0
			1114	692	227	193	2			
48	DP	146	Total	C	N	O	S	0	0	0
			1114	692	227	193	2			

- Molecule 49 is a protein called 50S RIBOSOMAL PROTEIN L16.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
49	BQ	141	Total	C	N	O	S	0	0	0
			1122	715	212	188	7			
49	DQ	141	Total	C	N	O	S	0	0	0
			1122	715	212	188	7			

- Molecule 50 is a protein called 50S RIBOSOMAL PROTEIN L17.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
50	BR	117	Total	C	N	O		0	0	0
			960	599	202	159				
50	DR	117	Total	C	N	O		0	0	0
			960	599	202	159				

- Molecule 51 is a protein called 50S RIBOSOMAL PROTEIN L18.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
51	BS	99	Total	C	N	O		0	0	1
			771	486	155	130				
51	DS	99	Total	C	N	O		0	0	1
			771	486	155	130				

- Molecule 52 is a protein called 50S RIBOSOMAL PROTEIN L19.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
52	BT	138	Total	C	N	O	S	0	0	1
			1142	710	235	196	1			
52	DT	138	Total	C	N	O	S	0	0	1
			1142	710	235	196	1			

- Molecule 53 is a protein called 50S RIBOSOMAL PROTEIN L20.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
53	BU	117	Total	C	N	O	S	0	0	0
			958	604	202	151	1			
53	DU	117	Total	C	N	O	S	0	0	0
			958	604	202	151	1			

- Molecule 54 is a protein called 50S RIBOSOMAL PROTEIN L21.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
54	BV	101	Total	C	N	O	S	0	0	0
			779	501	142	135	1			
54	DV	101	Total	C	N	O	S	0	0	0
			779	501	142	135	1			

- Molecule 55 is a protein called 50S RIBOSOMAL PROTEIN L22.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
55	BW	113	Total	C	N	O	S	0	0	0
			896	563	176	155	2			
55	DW	113	Total	C	N	O	S	0	0	0
			896	563	176	155	2			

- Molecule 56 is a protein called 50S RIBOSOMAL PROTEIN L23.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
56	BX	93	Total	C	N	O	0	0	1
			726	471	132	123			
56	DX	93	Total	C	N	O	0	0	1
			726	471	132	123			

- Molecule 57 is a protein called 50S RIBOSOMAL PROTEIN L24.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
57	BY	101	Total	C	N	O	S	0	0	1
			776	500	149	123	4			
57	DY	101	Total	C	N	O	S	0	0	1
			776	500	149	123	4			

- Molecule 58 is a protein called 50S RIBOSOMAL PROTEIN L25.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
58	BZ	185	Total	C	N	O	S	0	0	1
			1468	936	262	268	2			
58	DZ	185	Total	C	N	O	S	0	0	1
			1468	936	262	268	2			

- Molecule 59 is MAGNESIUM ION (three-letter code: MG) (formula: Mg).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
59	BA	357	Total	Mg	0	0
			357	357		
59	CA	155	Total	Mg	0	0
			155	155		
59	DF	1	Total	Mg	0	0
			1	1		
59	CV	7	Total	Mg	0	0
			7	7		
59	AW	4	Total	Mg	0	0
			4	4		
59	B1	1	Total	Mg	0	0
			1	1		
59	CD	1	Total	Mg	0	0
			1	1		
59	AX	1	Total	Mg	0	0
			1	1		
59	AS	1	Total	Mg	0	0
			1	1		
59	B5	2	Total	Mg	0	0
			2	2		
59	BB	4	Total	Mg	0	0
			4	4		
59	BT	1	Total	Mg	0	0
			1	1		
59	DG	1	Total	Mg	0	0
			1	1		
59	BF	2	Total	Mg	0	0
			2	2		
59	AV	7	Total	Mg	0	0
			7	7		
59	BX	1	Total	Mg	0	0
			1	1		
59	AA	161	Total	Mg	0	0
			161	161		
59	CX	1	Total	Mg	0	0
			1	1		

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Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
59	CN	1	Total 1	Mg 1	0	0
59	DD	1	Total 1	Mg 1	0	0
59	DH	1	Total 1	Mg 1	0	0
59	DS	1	Total 1	Mg 1	0	0
59	BG	1	Total 1	Mg 1	0	0
59	BY	1	Total 1	Mg 1	0	0
59	DX	1	Total 1	Mg 1	0	0
59	DA	359	Total 359	Mg 359	0	0
59	AL	1	Total 1	Mg 1	0	0
59	DE	1	Total 1	Mg 1	0	0
59	AY	1	Total 1	Mg 1	0	0
59	D1	1	Total 1	Mg 1	0	0
59	DP	1	Total 1	Mg 1	0	0
59	CW	4	Total 4	Mg 4	0	0
59	D5	2	Total 2	Mg 2	0	0
59	BD	2	Total 2	Mg 2	0	0
59	CS	1	Total 1	Mg 1	0	0
59	CL	2	Total 2	Mg 2	0	0
59	DB	4	Total 4	Mg 4	0	0

- Molecule 60 is ZINC ION (three-letter code: ZN) (formula: Zn).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
60	CN	1	Total 1	Zn 1	0	0
60	AN	1	Total 1	Zn 1	0	0
60	B9	1	Total 1	Zn 1	0	0
60	D9	1	Total 1	Zn 1	0	0
60	CD	1	Total 1	Zn 1	0	0
60	AD	1	Total 1	Zn 1	0	0

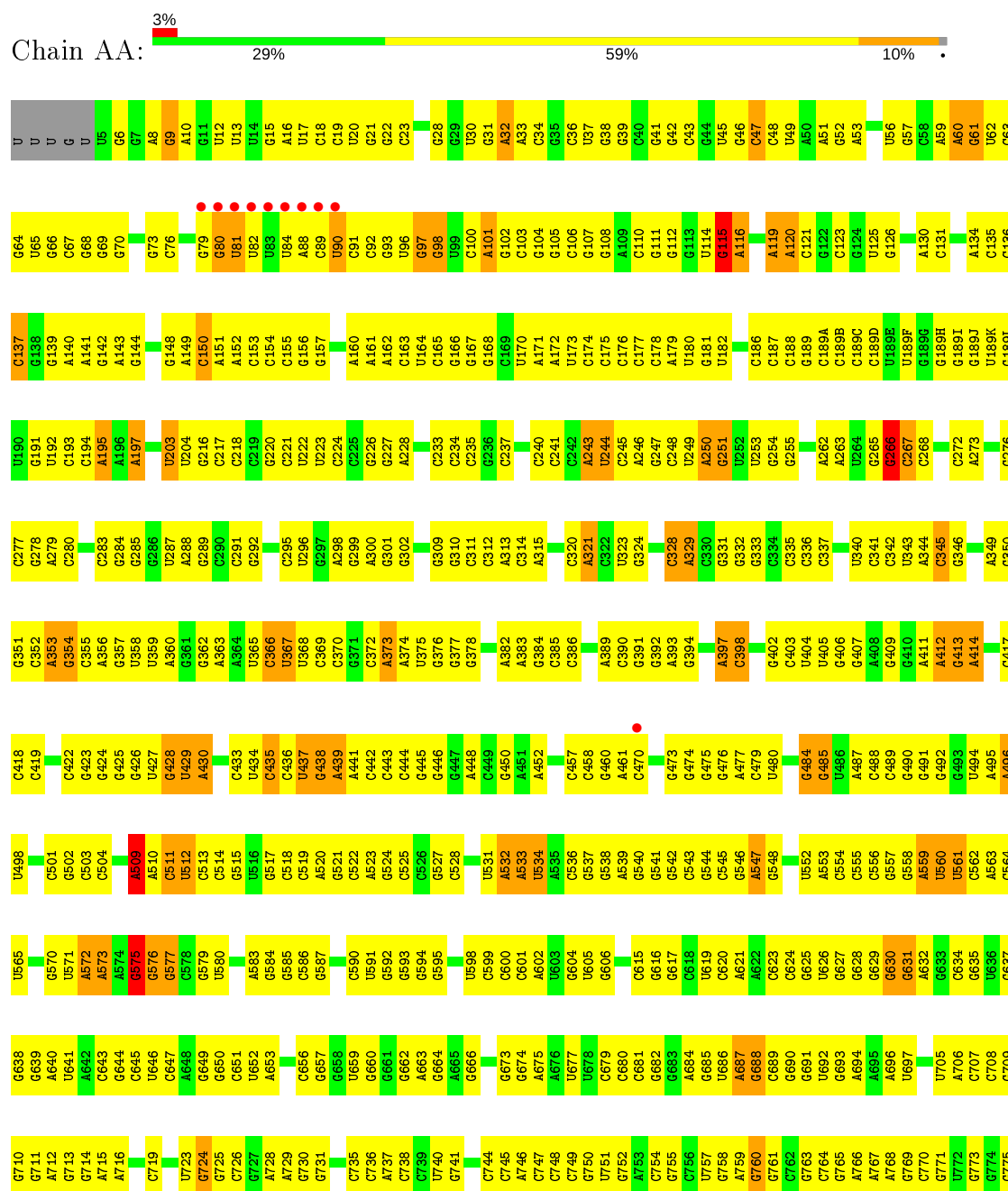
- Molecule 61 is water.

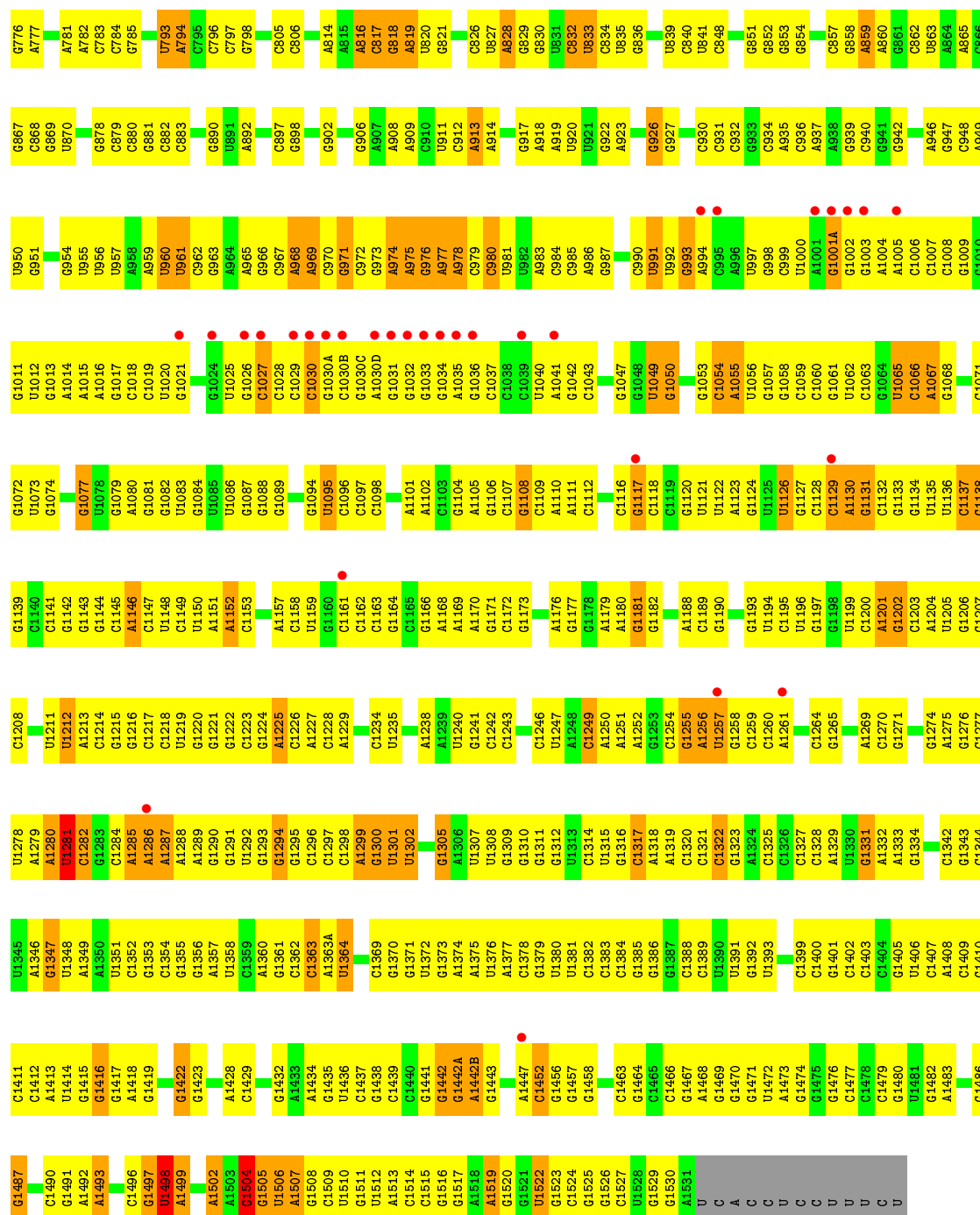
Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
61	AV	1	Total 1	O 1	0	0
61	AY	1	Total 1	O 1	0	0
61	BA	1	Total 1	O 1	0	0

3 Residue-property plots

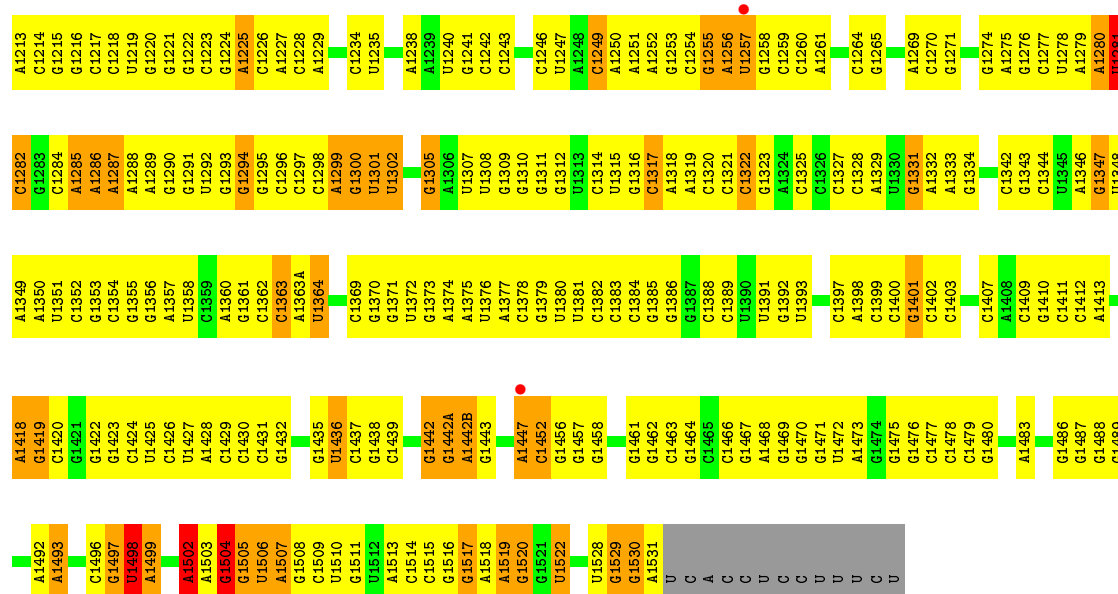
These plots are drawn for all protein, RNA and DNA chains in the entry. The first graphic for a chain summarises the proportions of the various outlier classes displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry and electron density. Residues are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

• Molecule 1: 16S Ribosomal RNA

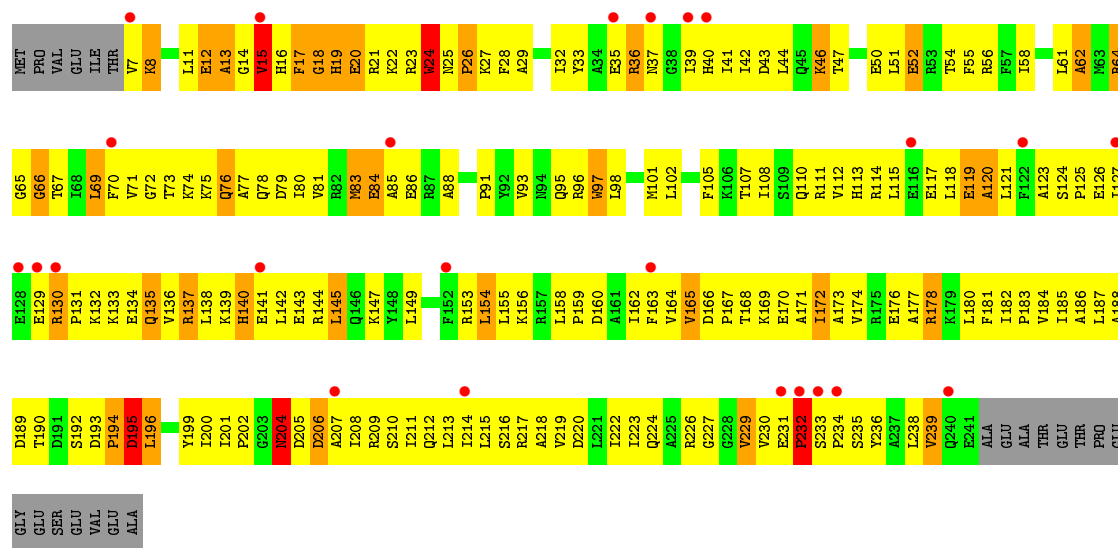




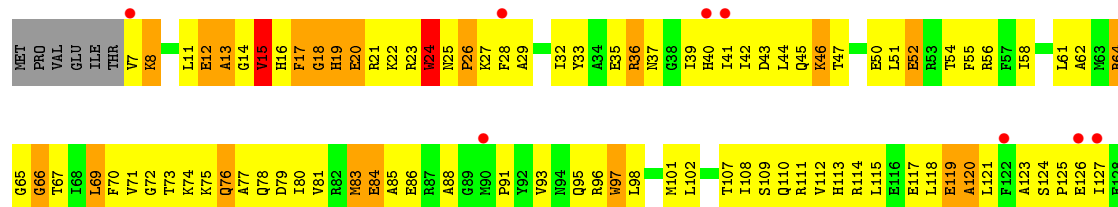
G1143	G1076	A1015	U952	G785	A715	C643	G570	C501	U420	G354	C277	G191	G138
G1144	G1077	A1016	G953	A790	A716	G644	U571	G502	U421	C355	G278	U192	G139
G1145	G1078	G878	G954	G879	C719	G645	A572	G503	G422	A356	G502	C193	A140
A1146	G1079	G879	U955	G880	C719	U646	A573	C504	G423	A357	C280	C194	A141
C1147	A1080	C880	U956	G881	U723	A647	G574	C504	G424	U358	C283	A195	G142
U1148	G1081	C880	U957	G882	U724	G648	G575	A508	G425	U359	C284	A196	A143
C1149	G1082	G881	A958	G883	G725	G649	G576	A509	G426	A360	G285	A197	G144
U1150	U1083	G882	A959	G884	G726	G650	G577	A510	U427	G361	G286		
A1151	U1084	G883	U960	G885	G727	G651	C578	C511	G428	G362		U202	G148
C1152	U1085	G884	U961	G886	G728	G652	A583	C512	U429	A363	C290	U203	A149
A1153	U1086	G885	U962	G887	G729	U653	C584	C513	A430	A364	C291	U204	A150
A1154	U1087	G886	U963	G888	A728	G654	A585	C514	C433	U365	C292	G216	A151
C1155	U1088	G887	U964	G889	G730	G655	G586	C515	U434	U366	G293	C217	A152
A1156	G1089	G888	A965	G890	G731	G656	G587	U516	C435	U367	C294	C218	C153
C1157	G1090	G889	U966	G891	C735	G657	G588	C517	C436	U368	C295	C219	
C1158	G1091	G890	U967	G892	C736	U658	C587	C518	C437	U369	G296	U220	G148
U1159	U1092	G891	U968	G893	C737	G659	C588	C519	A438	C370	U297	C221	A149
C1160	U1093	G892	U969	G894	C738	G660	C589	C520	U439	C371	A298	U222	A150
C1161	U1094	G893	U970	G895	C739	G661	U591	C521	A440	C372	G299	U223	A151
C1162	U1095	G894	U971	G896	C740	G662	G592	C522	A441	C373	A300	C224	A152
C1163	U1096	G895	U972	G897	C741	G663	G593	A523	C442	A374	G301	C225	A160
C1164	U1097	G896	U973	G898	C742	G664	G594	C524	C443	U375	G302	C226	A161
C1165	U1098	G897	U974	G899	C743	G665	G595	C525	C444	G376	G303	C227	A162
A1166	G1103	G898	U975	G900	C744	G666	C596	C526	G445	G377	G304	C228	U164
A1167	G1104	G899	U976	G901	C745	G667	C597	C527	G446	G378	G305	C229	C165
A1168	G1105	G900	U977	G902	C746	G668	C600	C528	G447	C311	G306	C230	G166
A1169	G1106	G901	U978	G903	C747	G669	C601	C529	G448	C312	G307	C231	G167
A1170	G1107	G902	U979	G904	C748	G670	C602	C530	A449	C313	G308	C232	G168
G1171	G1108	G903	U980	G905	C749	G671	U592	C531	G450	A383	G309	C233	C169
G1172	G1109	G904	U981	G906	C750	G672	G603	C532	A451	A384	G310	C234	U170
G1173	G1110	G905	U982	G907	C751	G673	U593	C533	A452	C385	G311	C235	A171
A1174	G1111	G906	U983	G908	C752	G674	C604	C534	C457	U387	G312	C236	A172
A1175	G1112	G907	U984	G909	C753	G675	C605	C535	G458	G388	G313	C237	U173
A1176	G1113	G908	U985	G910	C754	G676	G606	C536	G459	G389	A314	C238	C175
A1177	G1114	G909	U986	G911	C755	G677	C607	C537	G460	A390	G315	C239	C176
A1178	G1115	G910	U987	G912	C756	G678	C608	C538	G461	C391	A316	C240	C177
A1179	G1116	G911	U988	G913	C757	G679	C609	C539	G462	G392	G320	C241	C178
A1180	G1117	G912	U989	G914	C758	G680	C610	C540	G463	A393	G321	C242	U179
G1181	G1118	G913	U990	G915	C759	G681	C611	C541	G464	G394	C330	C243	U180
G1182	G1119	G914	U991	G916	C760	G682	C612	C542	G465	G395	G331	C244	G181
A1183	G1120	G915	U992	G917	C761	G683	C613	C543	G466	G396	G332	C245	U182
A1184	G1121	G916	U993	G918	C762	G684	C614	C544	G467	G397	G333	C246	C177
A1185	G1122	G917	U994	G919	C763	G685	C615	C545	G468	A397	G334	C247	C178
A1186	G1123	G918	U995	G920	C764	G686	C616	C546	G469	G397	G335	C248	U179
A1187	G1124	G919	U996	G921	C765	G687	C617	C547	G470	G397	G336	C249	U180
A1188	G1125	G920	U997	G922	C766	G688	C618	C548	G471	G397	G337	C250	G181
A1189	G1126	G921	U998	G923	C767	G689	C619	C549	G472	G397	G338	C251	U182
A1190	G1127	G922	U999	G924	C768	G690	C620	C550	G473	G402	G339	C252	C186
A1191	G1128	G923	U1000	G925	C769	G691	C621	C551	G474	C403	G340	C253	C187
A1192	G1129	G924	U1001	G926	C770	G692	C622	C552	G475	C404	G341	C254	C188
A1193	G1130	G925	U1002	G927	C771	G693	C623	C553	G476	U405	G342	C255	G189
A1194	G1131	G926	U1003	G928	C772	G694	C624	C554	G477	G406	G343	C256	C189A
A1195	G1132	G927	U1004	G929	C773	G695	C625	C555	G478	G407	G344	C257	C189B
A1196	G1133	G928	U1005	G930	C774	G696	C626	C556	G479	G408	G345	C258	C189C
A1197	G1134	G929	U1006	G931	C775	G697	C627	C557	G480	G409	G346	C259	C189D
A1198	G1135	G930	U1007	G932	C776	G698	C628	C558	G481	G410	G347	C260	U189E
A1199	G1136	G931	U1008	G933	C777	G699	C629	C559	G482	G411	G348	C261	G189F
A1200	G1137	G932	U1009	G934	C778	G700	C630	C560	G483	G412	G349	C262	C189G
A1201	G1138	G933	U1010	G935	C779	G701	C631	C561	G484	G413	G350	C263	G189H
A1202	G1139	G934	U1011	G936	C780	G702	C632	C562	G485	G414	G351	C264	G189I
A1203	G1140	G935	U1012	G937	C781	G703	C633	C563	G486	G415	G352	C265	G189J
A1204	G1141	G936	U1013	G938	C782	G704	C634	C564	G487	G416	G353	C266	G189K
A1205	G1142	G937	U1014	G939	C783	G705	C635	C565	G488	G417	G354	C267	U189L
A1206	G1143	G938	U1015	G940	C784	G706	C636	C566	G489	G418	G355	C268	U190
A1207	G1144	G939	U1016	G941	C785	G707	C637	C567	G490	G419	G356	C269	
A1208	G1145	G940	U1017	G942	C786	G708	C638	C568	G491	G420	G357	C270	
A1209	G1146	G941	U1018	G943	C787	G709	C639	C569	G492	G421	G358	C271	
A1210	G1147	G942	U1019	G944	C788	G710	C640	C570	G493	G422	G359	C272	
A1211	G1148	G943	U1020	G945	C789	G711	C641	C571	G494	G423	G360	C273	
A1212	G1149	G944	U1021	G946	C790	G712	C642	C572	G495	G424	G361	C274	
A1213	G1150	G945	U1022	G947	C791	G713	C643	C573	G496	G425	G362	C275	
A1214	G1151	G946	U1023	G948	C792	G714	C644	C574	G497	G426	G363	C276	
A1215	G1152	G947	U1024	G949	C793	G715	C645	C575	G498	G427	G364	C277	
A1216	G1153	G948	U1025	G950	C794	G716	C646	C576	G499	G428	G365	C278	
A1217	G1154	G949	U1026	G951	C795	G717	C647	C577	G500	G429	G366	C279	
A1218	G1155	G950	U1027	G952	C796	G718	C648	C578	G501	G430	G367	C280	
A1219	G1156	G951	U1028	G953	C797	G719	C649	C579	G502	G431	G368	C281	
A1220	G1157	G952	U1029	G954	C798	G720	C650	C580	G503	G432	G369	C282	
A1221	G1158	G953	U1030	G955	C799	G721	C651	C581	G504	G433	G370	C283	
A1222	G1159	G954	U1031	G956	C800	G722	C652	C582	G505	G434	G371	C284	
A1223	G1160	G955	U1032	G957	C801	G723	C653	C583	G506	G435	G372	C285	
A1224	G1161	G956	U1033	G958	C802	G724	C654	C584	G507	G436	G373	C286	
A1225	G1162	G957	U1034	G959	C803	G725	C655	C585	G508	G437	G374	C287	
A1226	G1163	G958	U1035	G960	C804	G726	C656	C586	G509	G438	G375	C288	
A1227	G1164	G959	U1036	G961	C805	G727	C657	C587	G510	G439	G376	C289	
A1228	G1165	G960	U1037	G962	C806	G728	C658	C588	G511	G440	G377	C290	
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A1230	G1167	G962	U1039	G964	C808	G730	C660	C590	G513	G442	G379	C292	
A1231	G1168	G963	U1040	G965	C809	G731	C661	C591	G514	G443	G380	C293	
A1232	G1169	G964	U1041	G966	C810	G732	C662	C592	G515	G444	G381	C294	
A1233	G1170	G965	U1042	G967	C811	G733	C663	C593	G516	G445	G382	C295	
A1234	G1171	G966	U1043	G968	C812	G734	C664	C594	G517	G446	G383	C296	
A1235	G1172	G967	U1044	G969	C813	G735	C665	C595	G518	G447	G384	C297	
A1236	G1173	G968	U1045	G970	C814	G736	C666	C596	G519	G448	G385	C298	
A1237	G1174	G969	U1046	G971	C815	G737	C667	C597	G520	G449	G386	C299	
A1238	G1175	G970	U1047	G972	C816	G738	C668	C598	G521	G450	G387	C300	
A1239	G1176	G971	U1048	G973	C817	G739	C669	C599	G522	G451	G388	C301	
A1240	G1177	G972	U1049	G974	C818	G740	C670	C600	G523	G452	G389	C302	
A1241	G1178	G973	U1050	G975	C819	G741	C671	C601	G524	G453	G390	C303	
A1242	G1179	G974	U1051	G976	C820	G742	C672	C602	G525	G454	G391	C304	
A1243	G1180	G975	U1052	G977	C821	G743	C673	C603	G526	G455	G392	C305	
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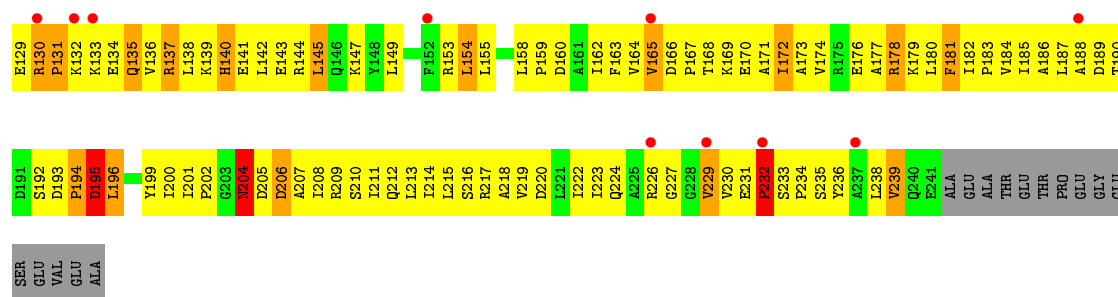


• Molecule 2: 30S RIBOSOMAL PROTEIN S2

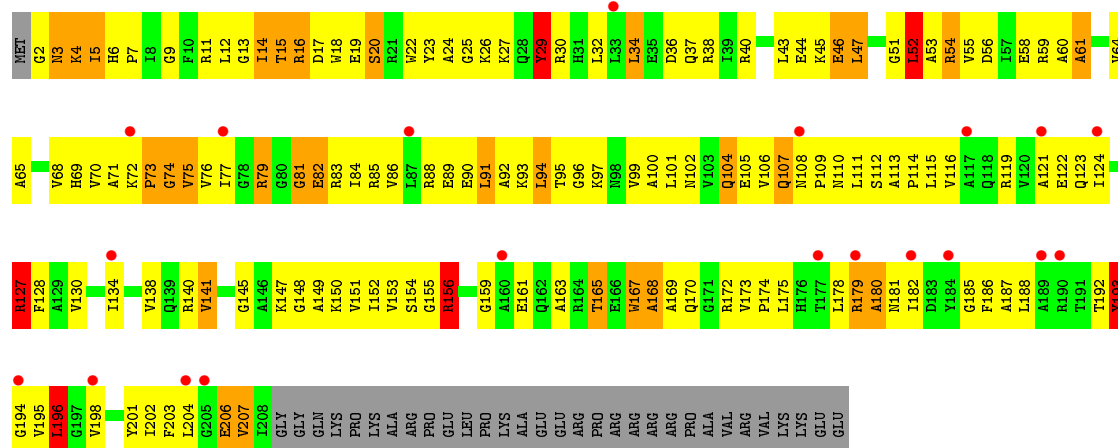


• Molecule 2: 30S RIBOSOMAL PROTEIN S2

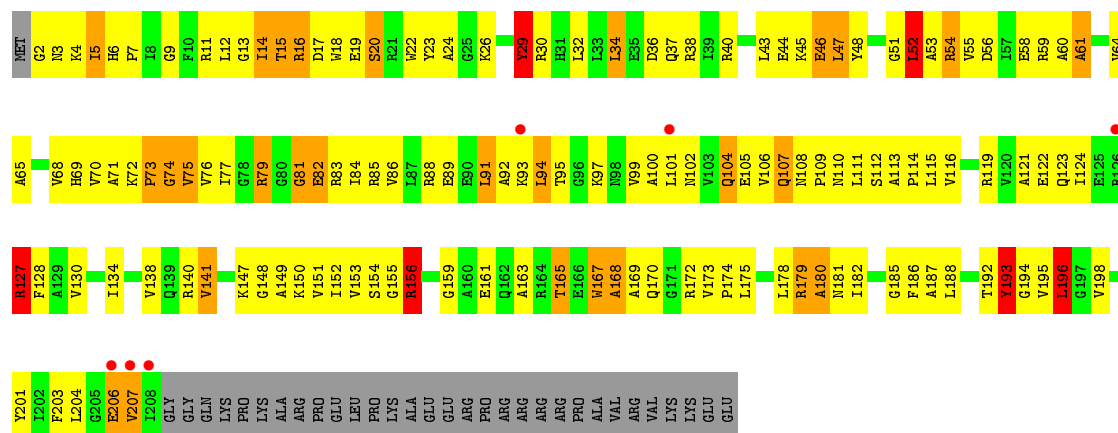




• Molecule 3: 30S RIBOSOMAL PROTEIN S3

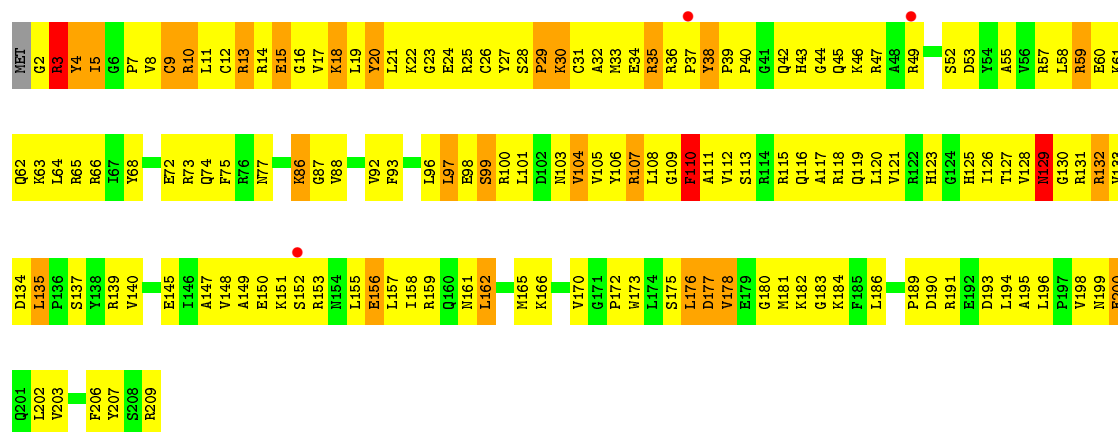


• Molecule 3: 30S RIBOSOMAL PROTEIN S3

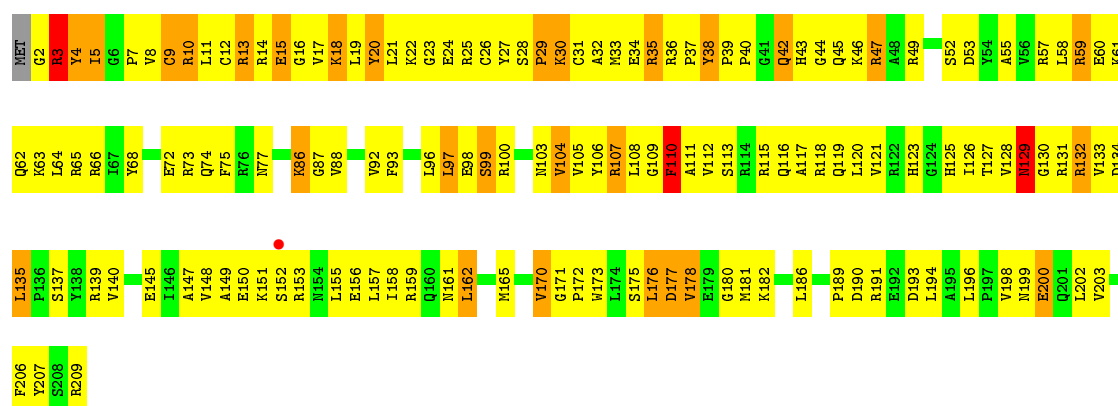
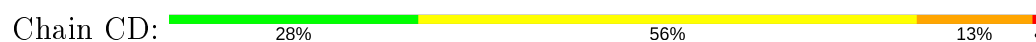


• Molecule 4: 30S RIBOSOMAL PROTEIN S4

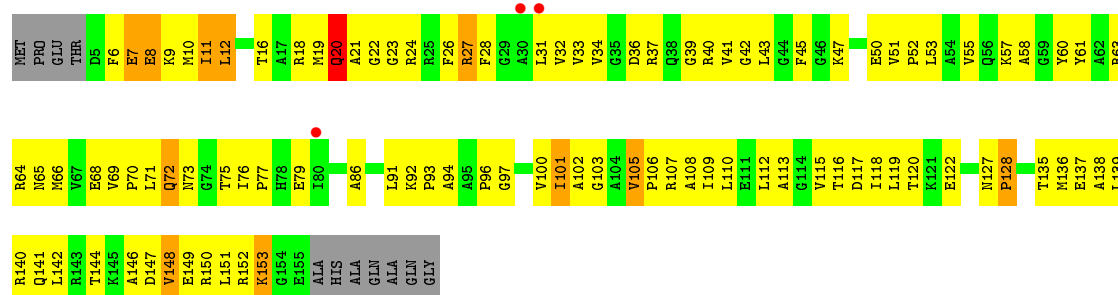




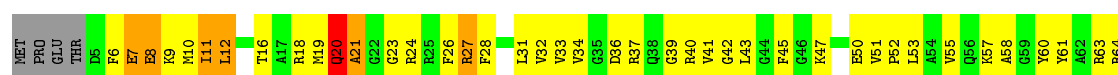
• Molecule 4: 30S RIBOSOMAL PROTEIN S4

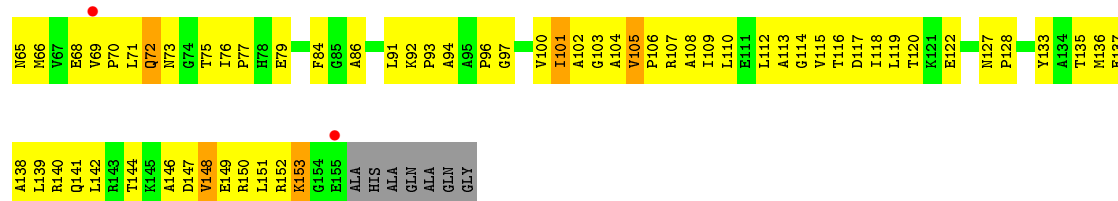


• Molecule 5: 30S RIBOSOMAL PROTEIN S5

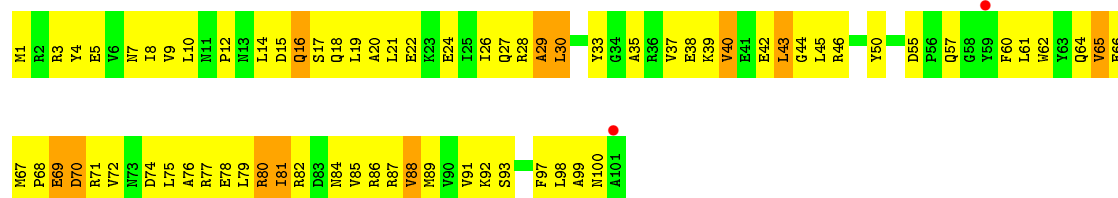


• Molecule 5: 30S RIBOSOMAL PROTEIN S5

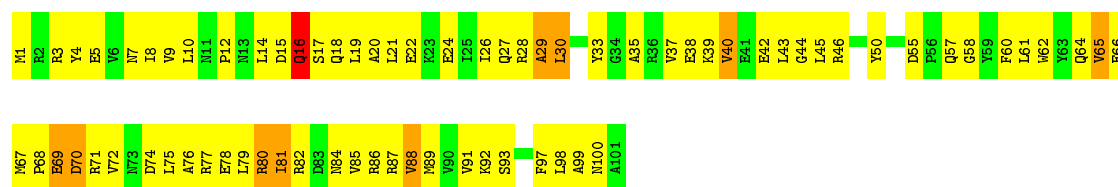




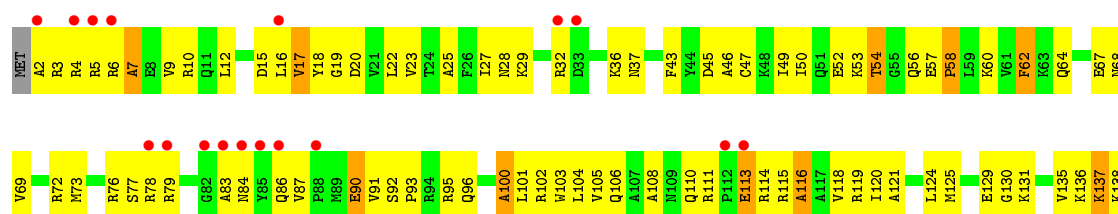
● Molecule 6: 30S RIBOSOMAL PROTEIN S6



● Molecule 6: 30S RIBOSOMAL PROTEIN S6

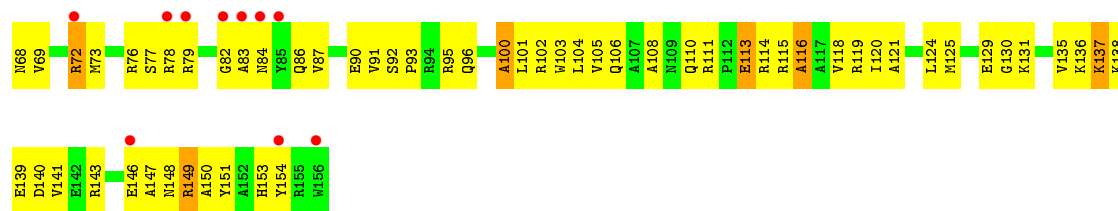


● Molecule 7: 30S RIBOSOMAL PROTEIN S7

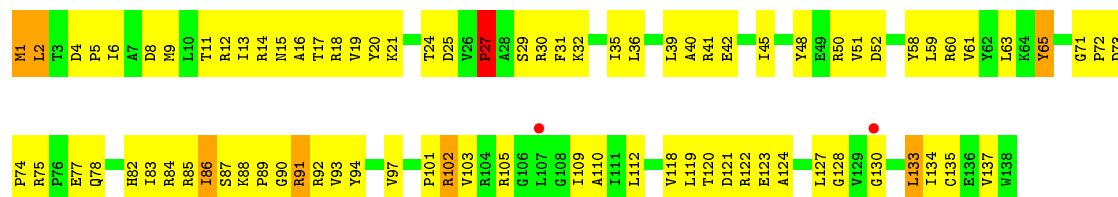


● Molecule 7: 30S RIBOSOMAL PROTEIN S7

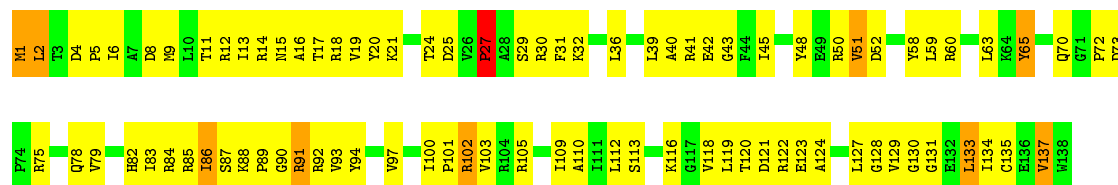




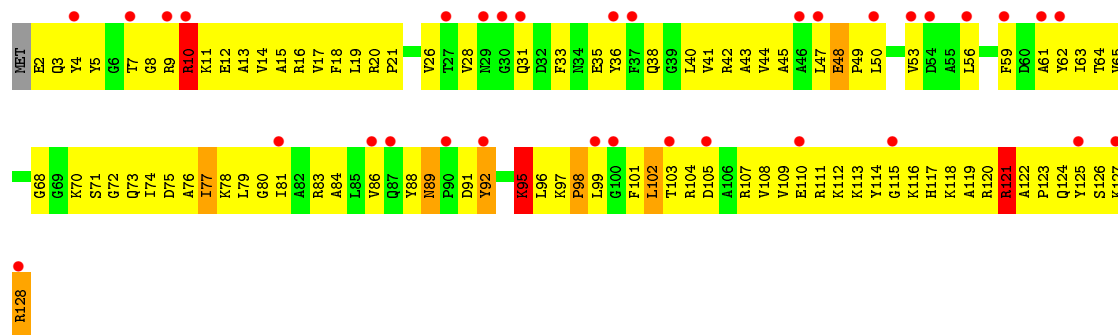
● Molecule 8: 30S RIBOSOMAL PROTEIN S8



● Molecule 8: 30S RIBOSOMAL PROTEIN S8

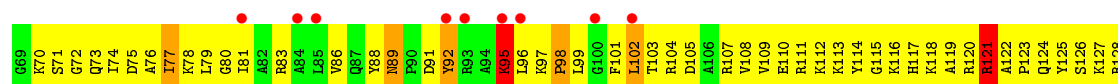


● Molecule 9: 30S RIBOSOMAL PROTEIN S9

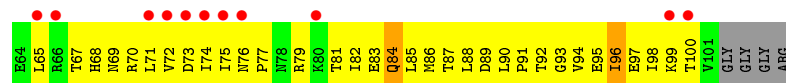
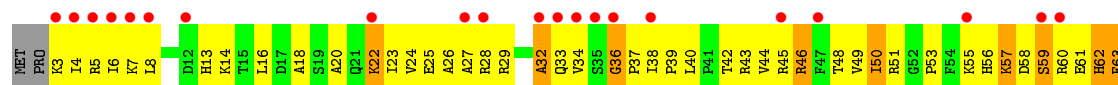


● Molecule 9: 30S RIBOSOMAL PROTEIN S9

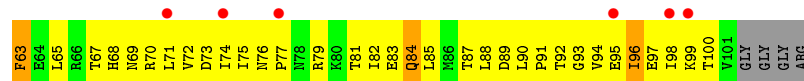




• Molecule 10: 30S RIBOSOMAL PROTEIN S10



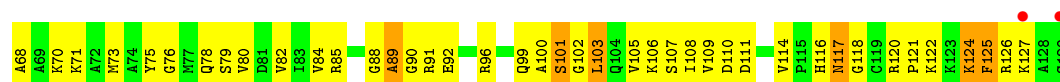
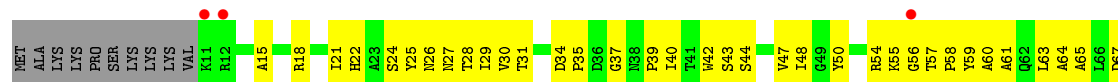
• Molecule 10: 30S RIBOSOMAL PROTEIN S10



• Molecule 11: 30S RIBOSOMAL PROTEIN S11

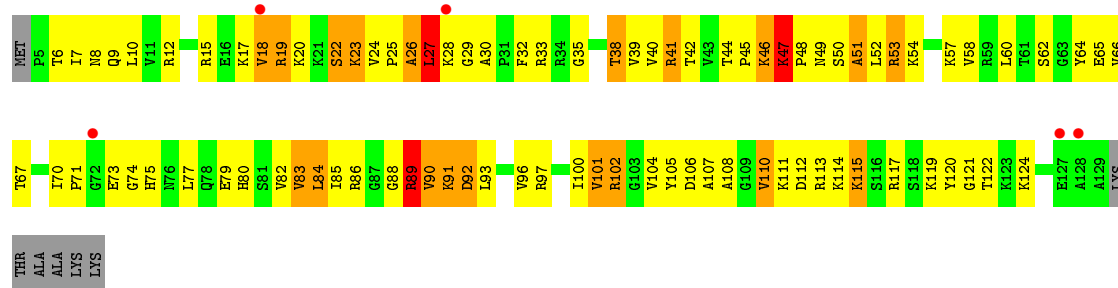


• Molecule 11: 30S RIBOSOMAL PROTEIN S11

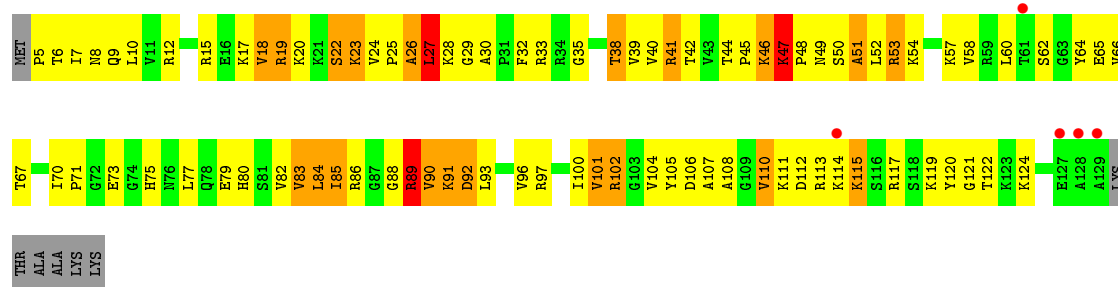


• Molecule 12: 30S RIBOSOMAL PROTEIN S12

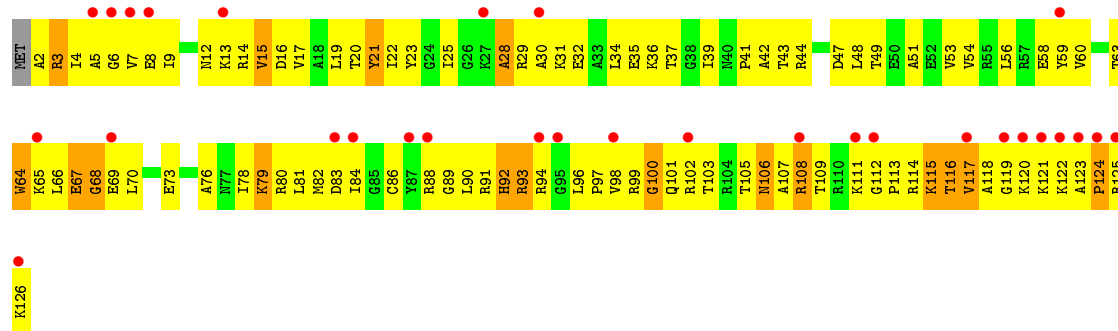




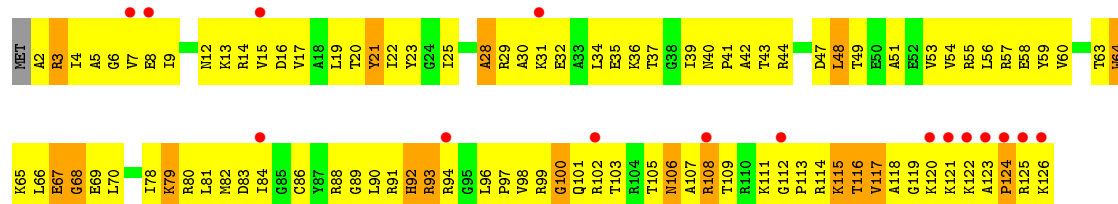
• Molecule 12: 30S RIBOSOMAL PROTEIN S12



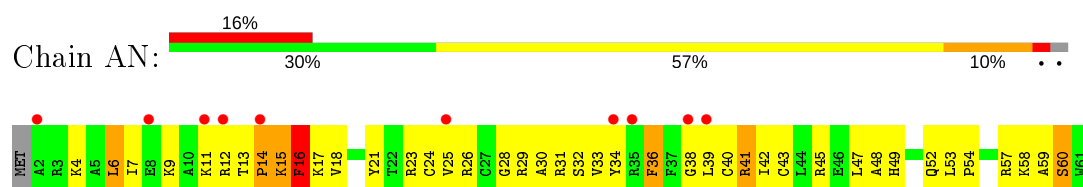
• Molecule 13: 30S RIBOSOMAL PROTEIN S13



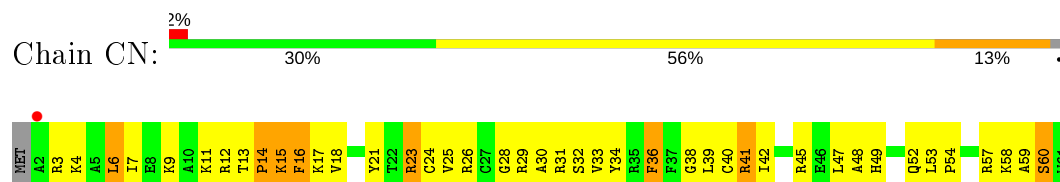
• Molecule 13: 30S RIBOSOMAL PROTEIN S13



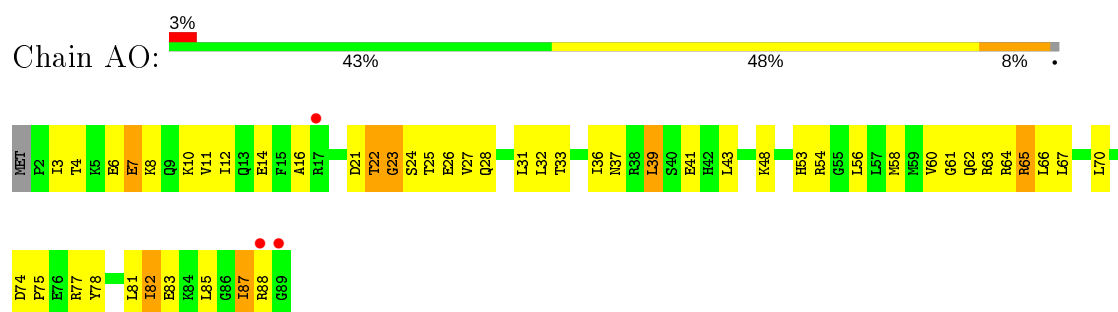
• Molecule 14: 30S RIBOSOMAL PROTEIN S14 TYPE Z



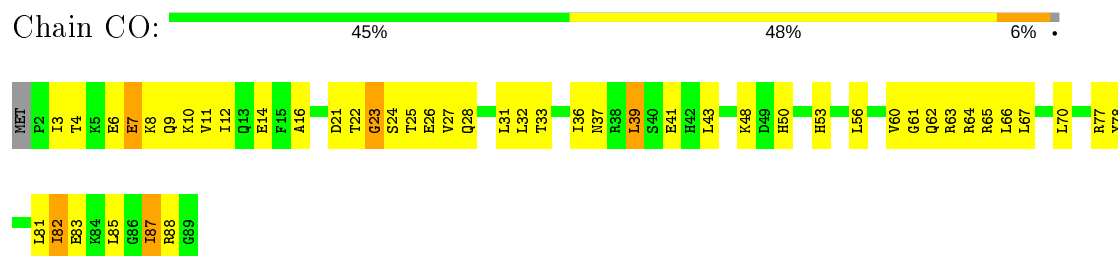
• Molecule 14: 30S RIBOSOMAL PROTEIN S14 TYPE Z



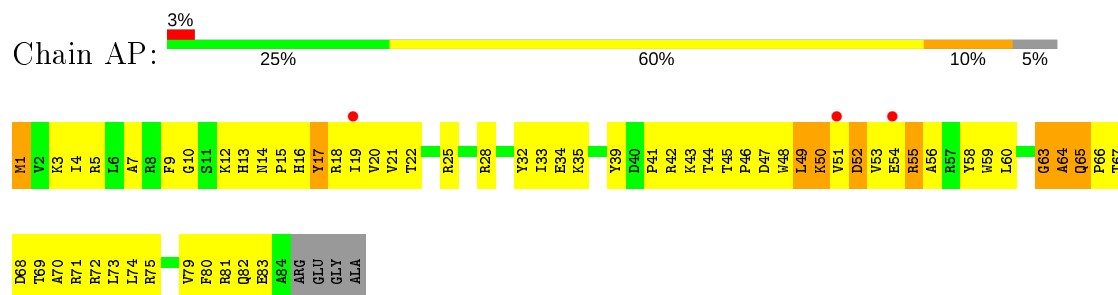
• Molecule 15: 30S RIBOSOMAL PROTEIN S15



• Molecule 15: 30S RIBOSOMAL PROTEIN S15

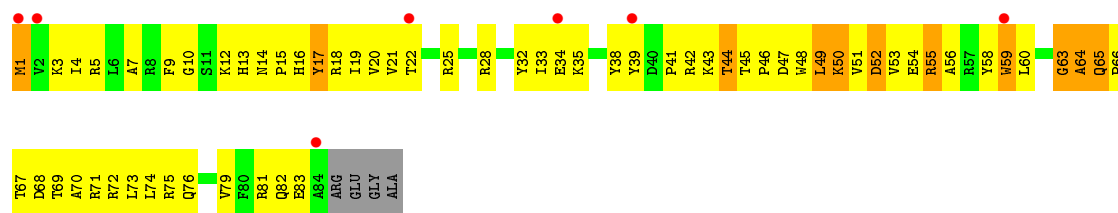


• Molecule 16: 30S RIBOSOMAL PROTEIN S16

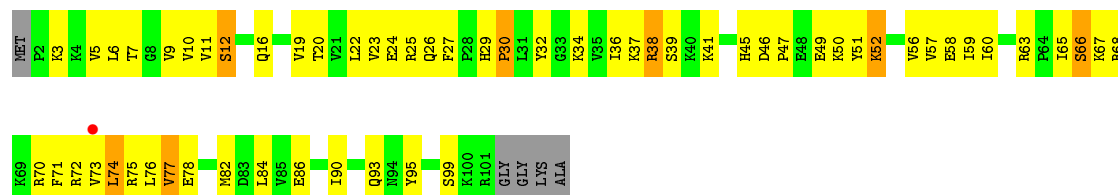


• Molecule 16: 30S RIBOSOMAL PROTEIN S16

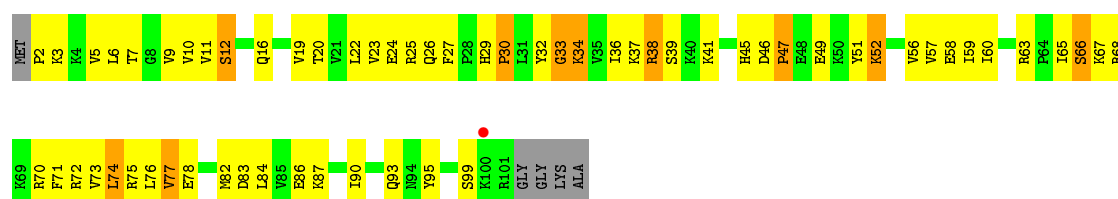




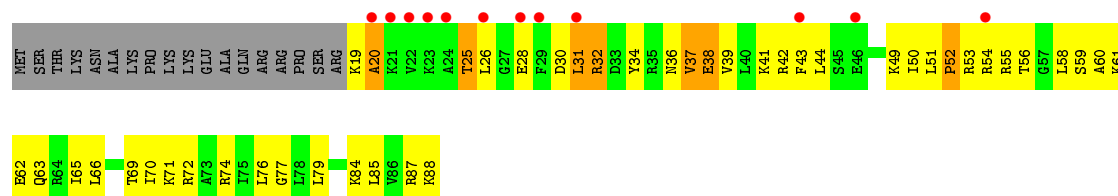
● Molecule 17: 30S RIBOSOMAL PROTEIN S17



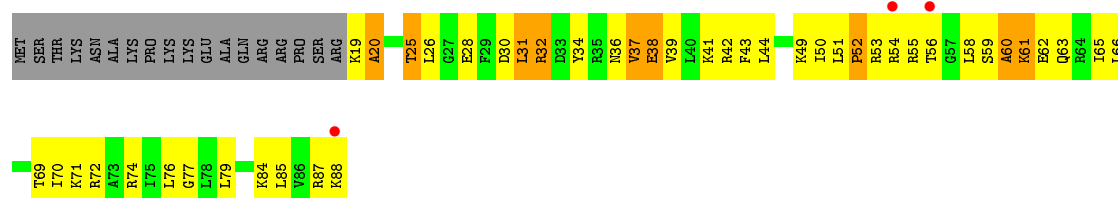
• Molecule 17: 30S RIBOSOMAL PROTEIN S17



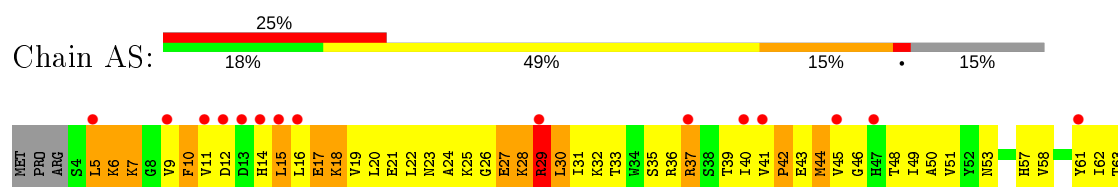
● Molecule 18: 30S RIBOSOMAL PROTEIN S18



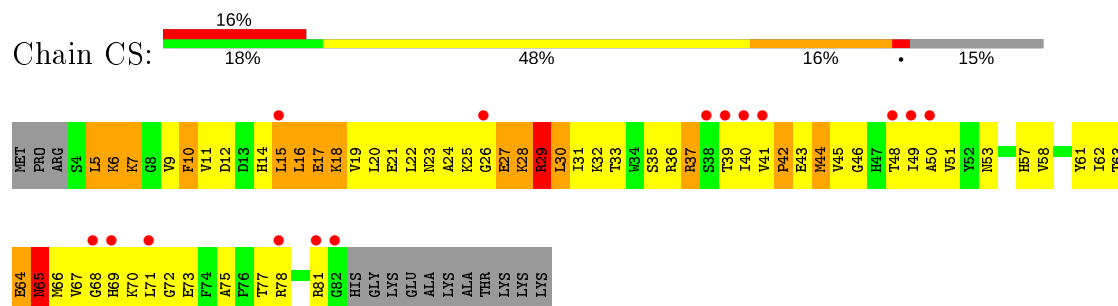
- Molecule 18: 30S RIBOSOMAL PROTEIN S18



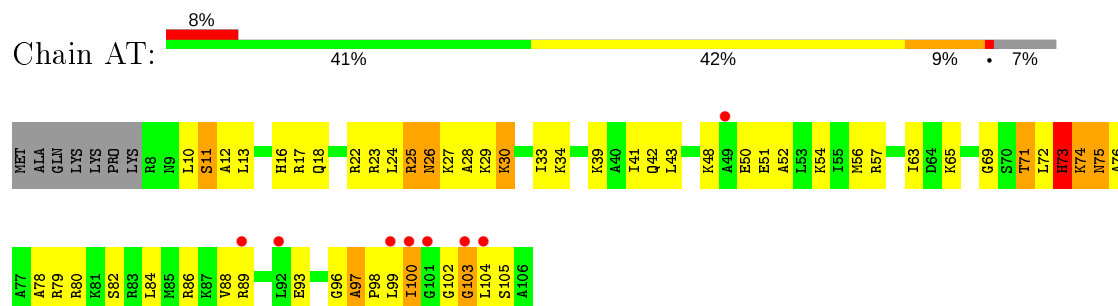
- Molecule 19: 30S RIBOSOMAL PROTEIN S19



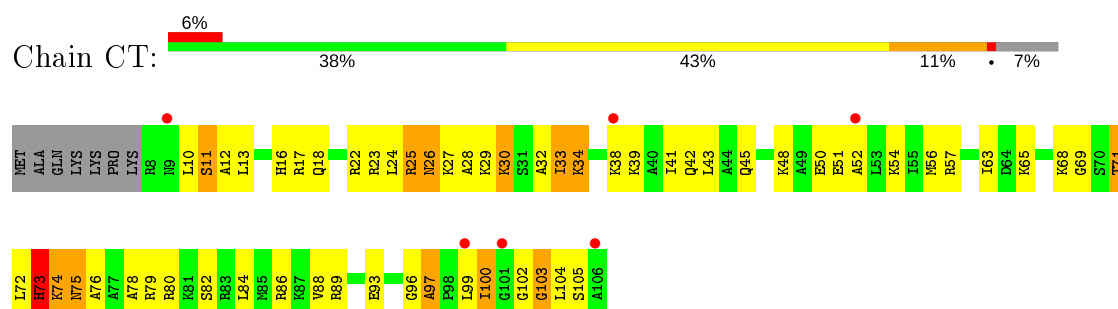
- Molecule 19: 30S RIBOSOMAL PROTEIN S19



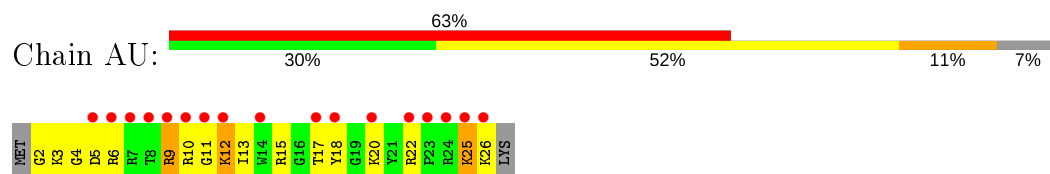
- Molecule 20: 30S RIBOSOMAL PROTEIN S20



- Molecule 20: 30S RIBOSOMAL PROTEIN S20



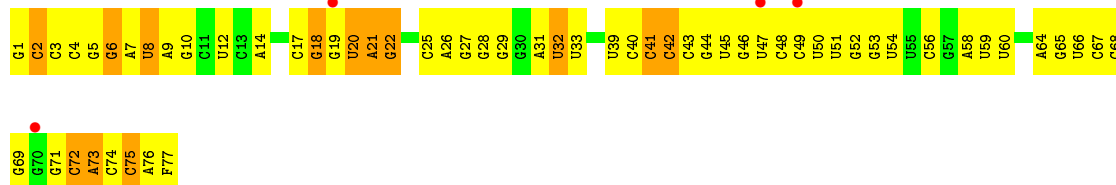
- Molecule 21: 30S RIBOSOMAL PROTEIN THX



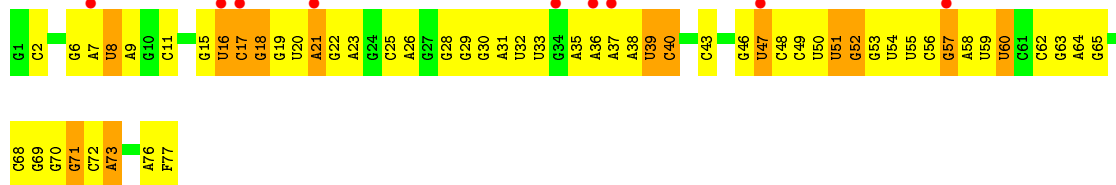
- Molecule 21: 30S RIBOSOMAL PROTEIN THX



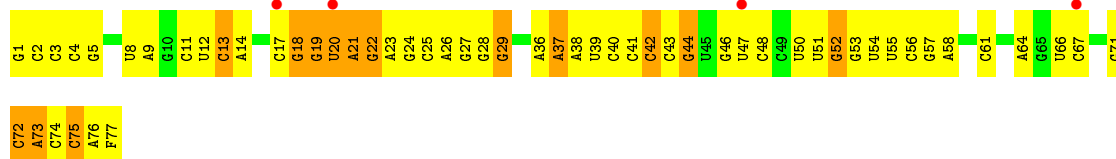
- Molecule 22: E-SITE TRNA PHE OR P-SITE TRNA PHE (UNMODIFIED BASES)



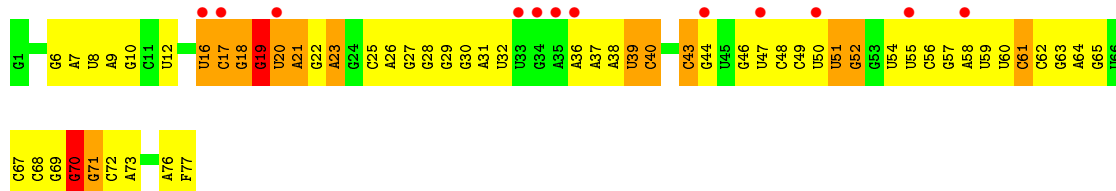
- Molecule 22: E-SITE TRNA PHE OR P-SITE TRNA PHE (UNMODIFIED BASES)



- Molecule 22: E-SITE TRNA PHE OR P-SITE TRNA PHE (UNMODIFIED BASES)



- Molecule 22: E-SITE TRNA PHE OR P-SITE TRNA PHE (UNMODIFIED BASES)



- Molecule 23: MRNA

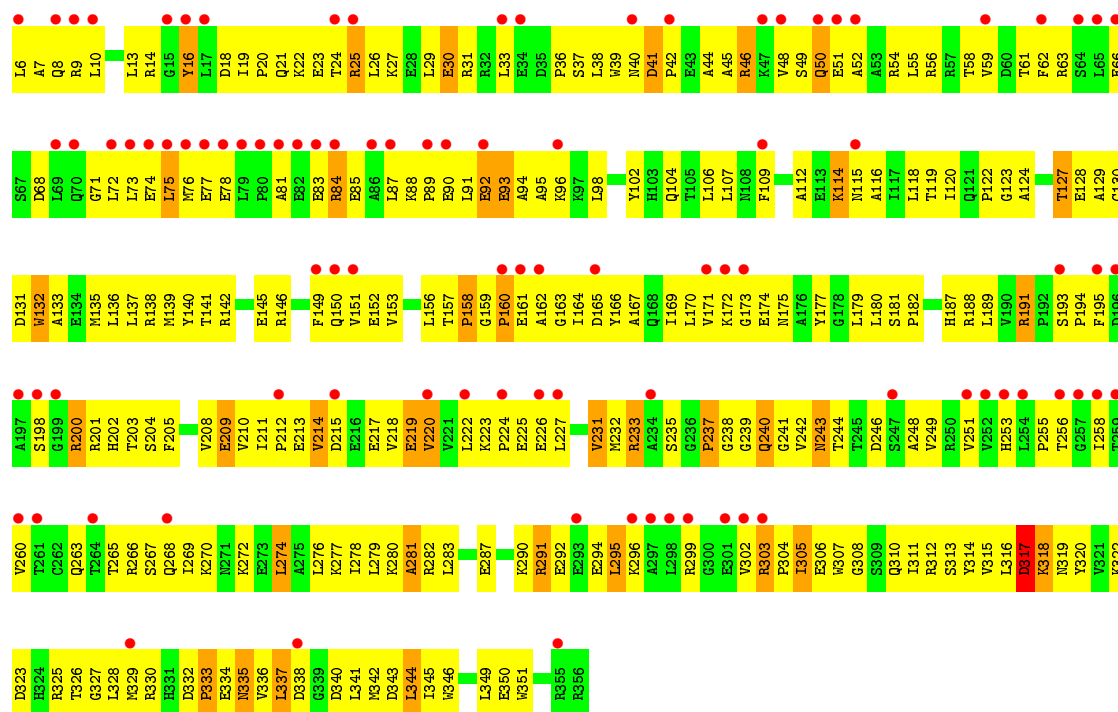




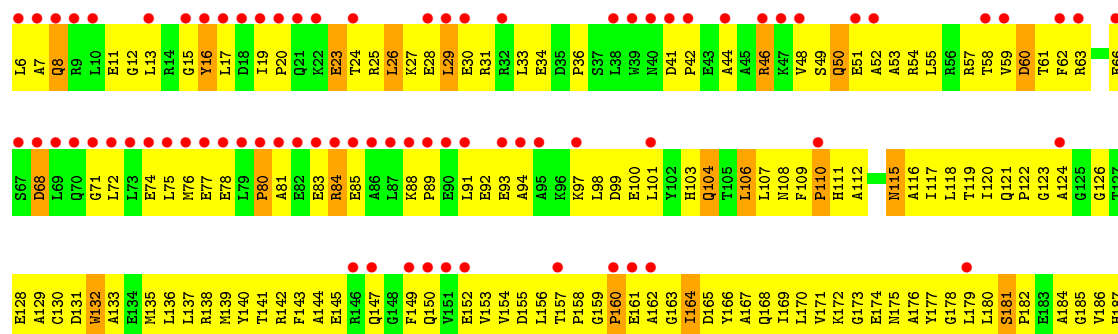
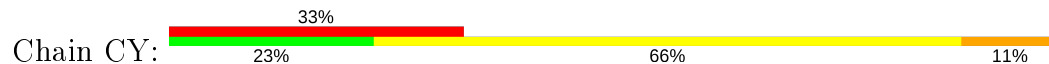
• Molecule 23: MRNA

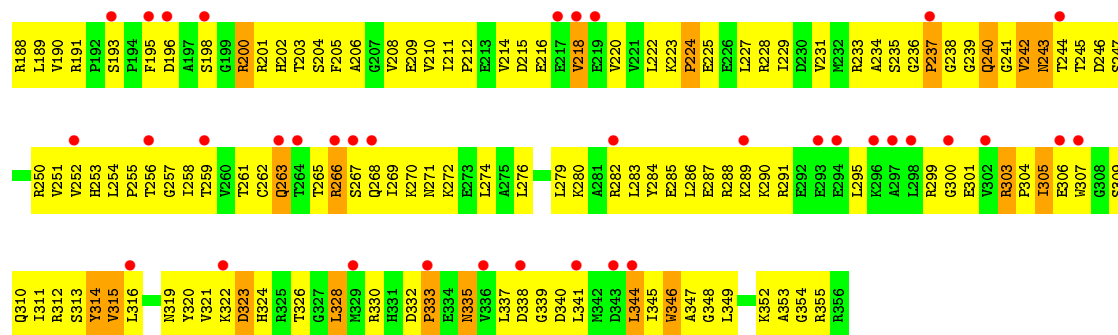


• Molecule 24: PEPTIDE CHAIN RELEASE FACTOR 2

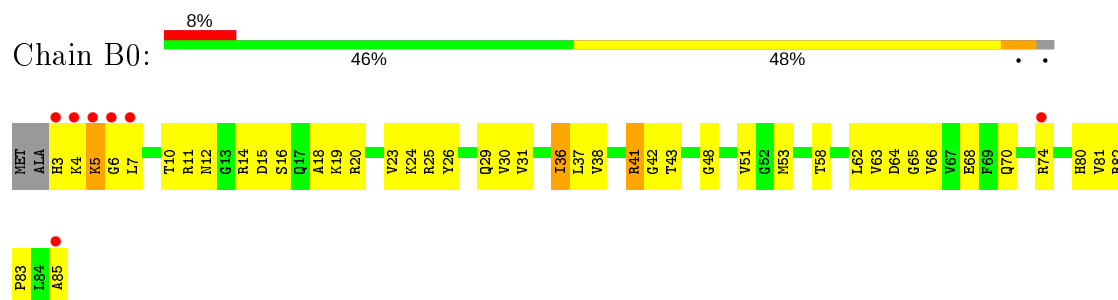


• Molecule 24: PEPTIDE CHAIN RELEASE FACTOR 2

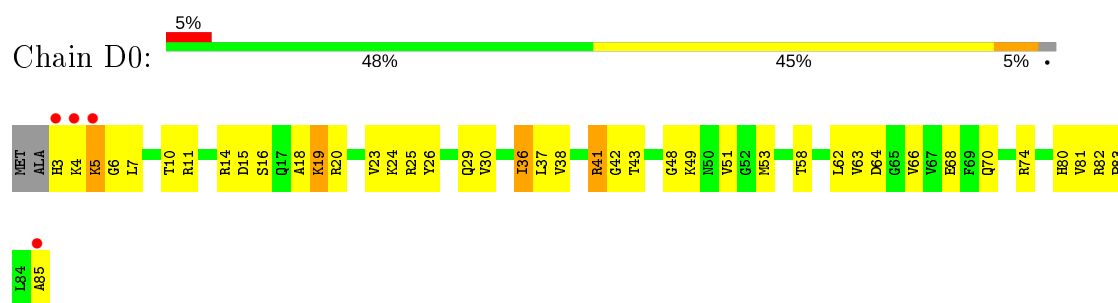




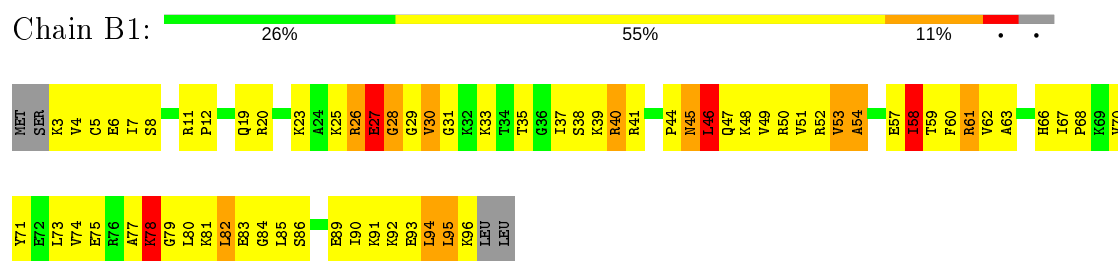
• Molecule 25: 50S RIBOSOMAL PROTEIN L27



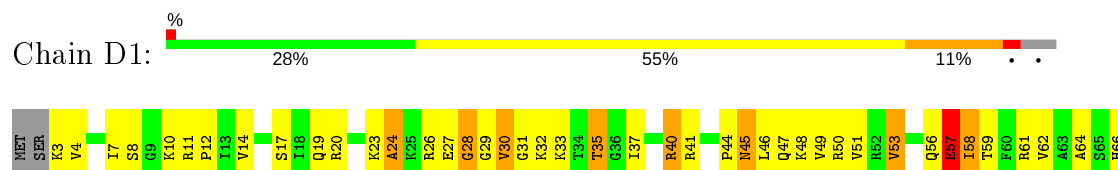
• Molecule 25: 50S RIBOSOMAL PROTEIN L27



• Molecule 26: 50S RIBOSOMAL PROTEIN L28

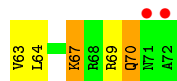
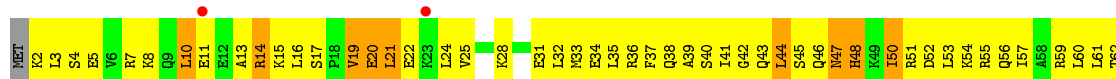


• Molecule 26: 50S RIBOSOMAL PROTEIN L28

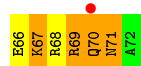
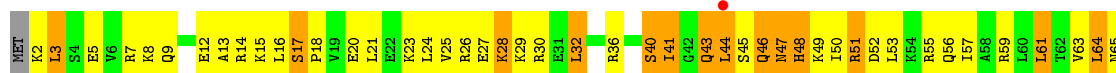




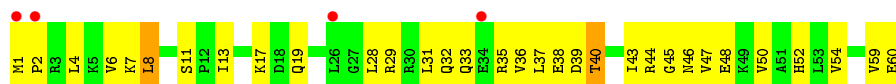
• Molecule 27: 50S RIBOSOMAL PROTEIN L29



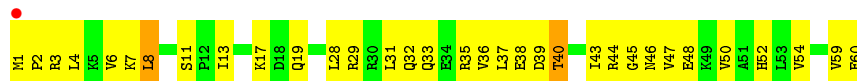
• Molecule 27: 50S RIBOSOMAL PROTEIN L29



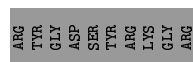
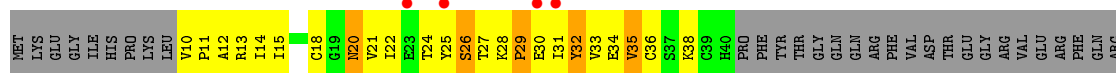
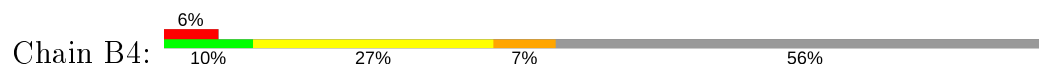
• Molecule 28: 50S RIBOSOMAL PROTEIN L30



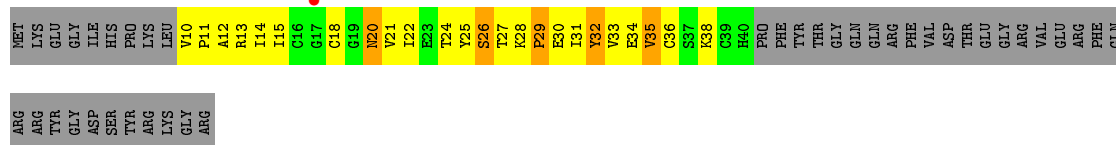
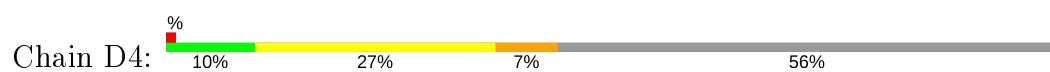
• Molecule 28: 50S RIBOSOMAL PROTEIN L30



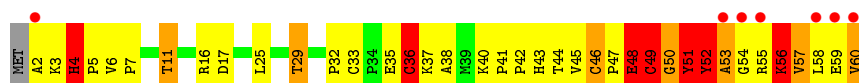
• Molecule 29: 50S RIBOSOMAL PROTEIN L31



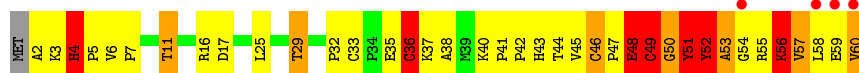
• Molecule 29: 50S RIBOSOMAL PROTEIN L31



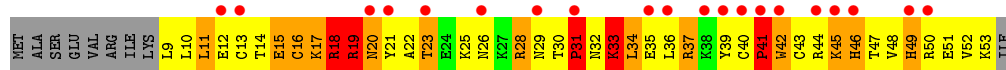
• Molecule 30: 50S RIBOSOMAL PROTEIN L32



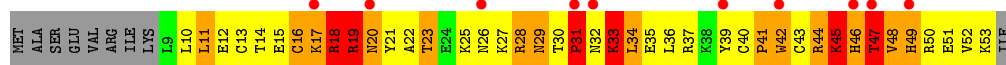
• Molecule 30: 50S RIBOSOMAL PROTEIN L32



• Molecule 31: 50S RIBOSOMAL PROTEIN L33



• Molecule 31: 50S RIBOSOMAL PROTEIN L33



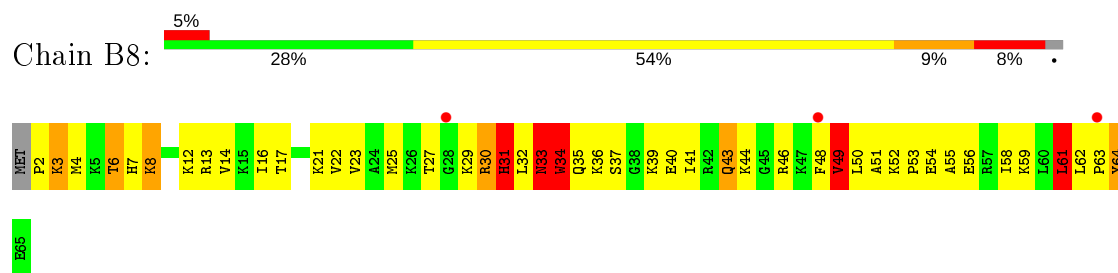
• Molecule 32: 50S RIBOSOMAL PROTEIN L34



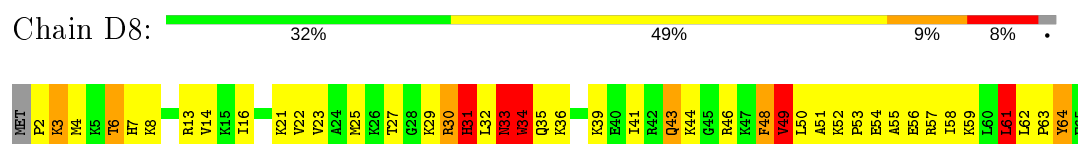
• Molecule 32: 50S RIBOSOMAL PROTEIN L34



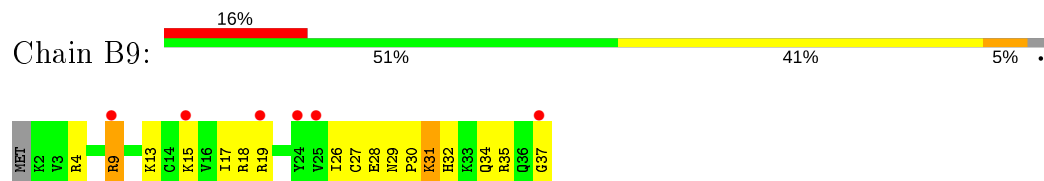
- Molecule 33: 50S RIBOSOMAL PROTEIN L35



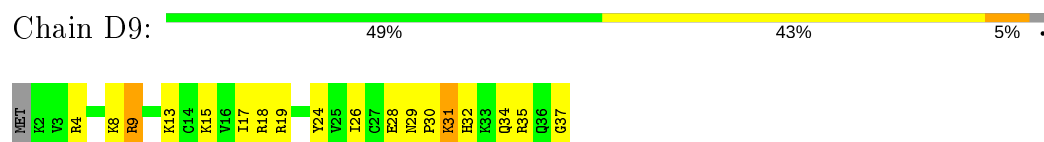
- Molecule 33: 50S RIBOSOMAL PROTEIN L35



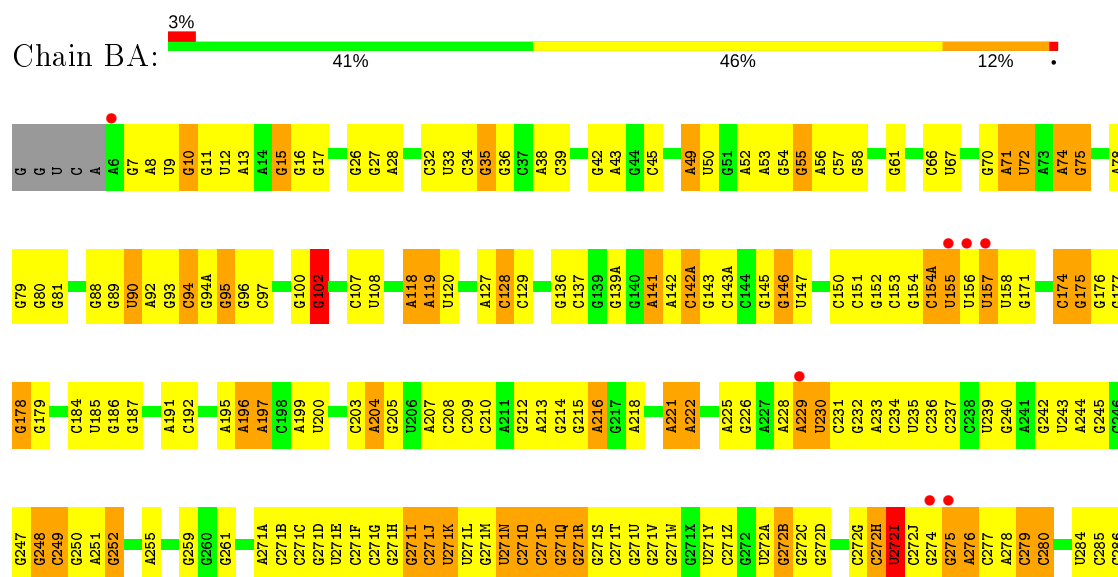
- Molecule 34: 50S RIBOSOMAL PROTEIN L36



- Molecule 34: 50S RIBOSOMAL PROTEIN L36

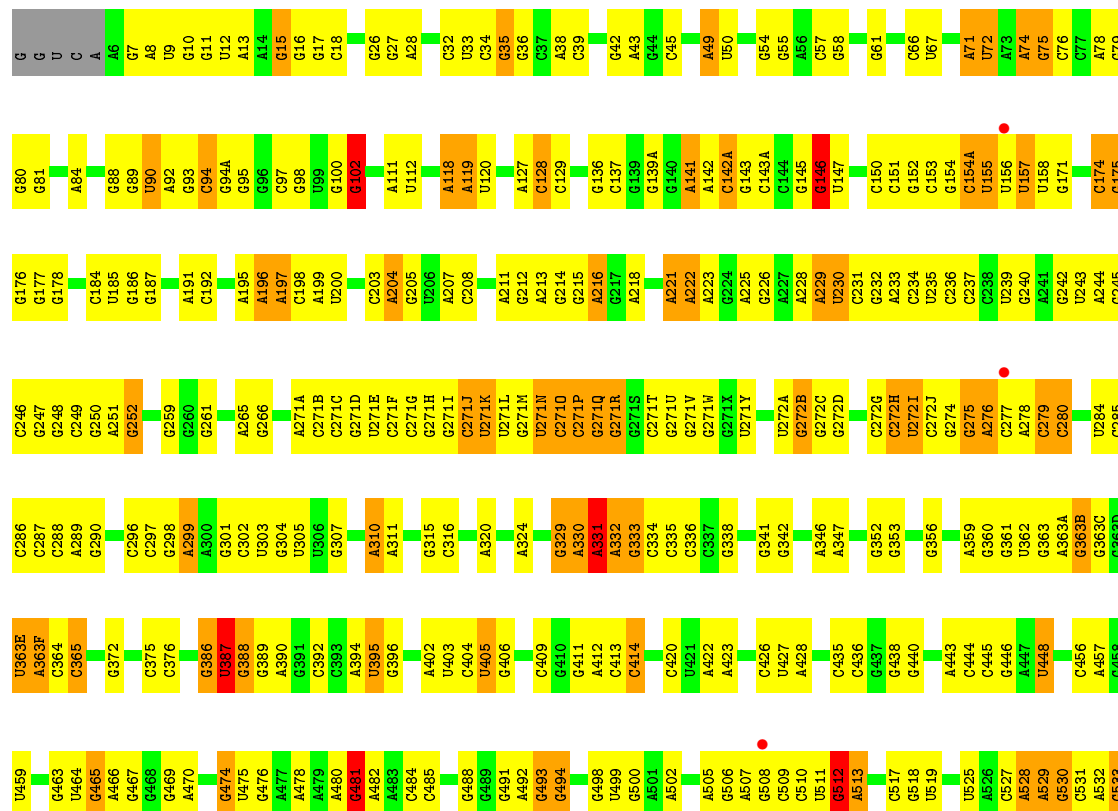


- Molecule 35: 23S RIBOSOMAL RNA



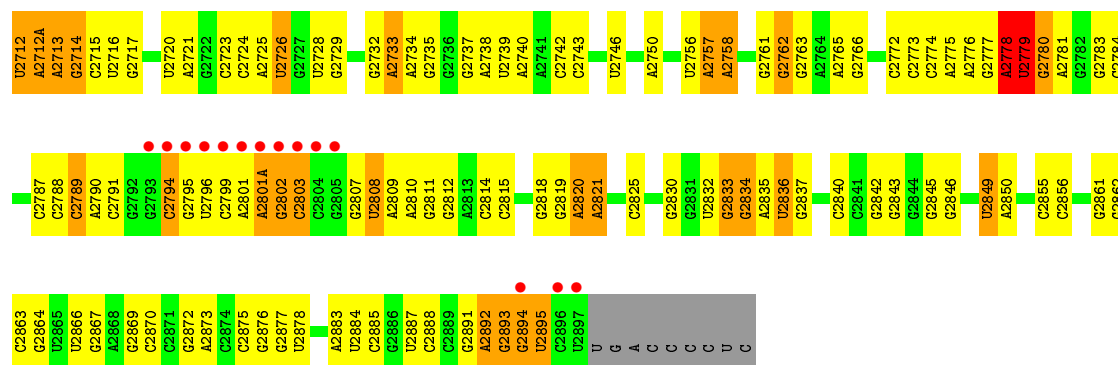
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A1272	A1181	C1109	A1048	C970	A896	C817	G660	G621	G53	U475	G388	A289
A1273	A1182	G1110	C1049	C971	C897	G818	C661	G622	G553	G476	G389	G290
A1274	A1111	G1111	A1050	C898	A819	A819	G662	G623	U594	A477	G389	
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G1276	G1187	U1113	C1052	C975	U828	U828	C664	G625	G559	A479	C393	C297
G1277	U1188	G1114	C1053	G979	A829	A829	C665	U626	G599	A479	C394	G298
A1278	A1189	G1115	A1054	A980	G830	G830	A670	G627	G562	A480	A394	A299
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A1321	G1233	C1152	A1084	A941	A789	A789	G710	G654D	G593	C437		A347
A1322	G1234	C1153	A1085	G942	C790	C790	G711	G654E	G594	G438		
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G1328	G1239	G1158	G1089	G945	G794	G794	G715	C654I	A526	C444		G356
U1329	U1240	U1159	U1090	A946	C795	C795	A716	A654J	C527	C445		
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A1331	G1242	C1161	C951	G952	U877	U877	A718	C654L	A529	A447		G360
G1332	G1243	G1093	G952	G953	A878	A878	C719	C654M	G530	U448		G361
		U1094	A953	G954	G879	G879	C720	G654N	C605			U362
A1336	G1251	C1166	G954	G955	G880	G880	C721	G654O	U606	C531		G363
	G1252		G956	G956	G881	G881	A722	C654P	U607	A532		A363A
C1345	A1253	G1169	G957	A957	G882	G882	G723	C654Q	A609	G533		G363B
G1348	G1256	G1170	C1038	U958	G883	G883	G724	C654R	G610	C535		G363C
A1349	G1257	G1171	G1039	U959	G884	G884	A727	G654S	C611	A536		G363D
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	G1177	U1105	G1044	U963	A890	A890	C732	G656	G614B	A466		
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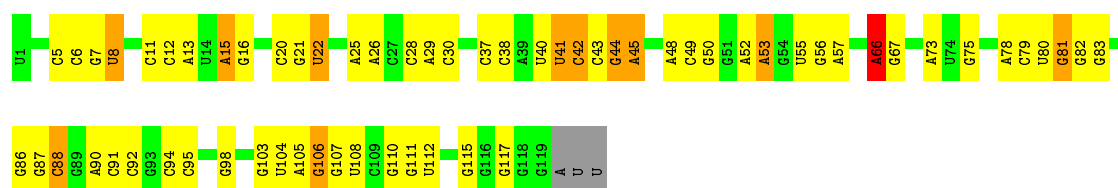


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G2673	G2594	U2614	G2289	G2355	G2289	G2193	G2128	G2058	A1970	G1884	C1797	U1709	A1609
G2674	G2595	G2615	G2290	A2360	G2290	G2194	C2129	A2059	A1971	G1885	U1798	C1710	A1610
G2675	C2596	U2616	G2291	G2361	G2291	G2195	U2130	A2060	G1972	G1886	G1799	C1711	G1611
G2676	G2597	G2617	U2292	G2362	G2292	C2196	U2132	G2061	A1972	C1887	C1800	C1712	C1612
G2677		U2618	G2293	G2363	G2293	U2197	U2133	G2062	G1980	G1888	G1801		G1613
A2678	A2600	U2619	G2294	G2364	G2294	A2198	G2133	G2063	A1981	G1889	A1802	G1717	
G2679	C2601	U2439	G2295	G2365	G2295	C2199	A2134	C2064	A1982	G1890	A1803	G1718	A1616
C2680	G2602	G2440	A2298	G2366	G2298	G2200	A2135	C2065	G1989	G1899	C1804	G1719	C1617
G2681	G2603	G2441	G2299	G2367	G2299	C2201	A2136	C2066	A1986	G1900	U1805	U1720	A1618
U2682	U2604	C2442	G2300	G2370	G2300	G2202	C2137	G2067	G1987	A1901	C1806	G1721	
G2683	G2605	G2443	G2301	G2371	G2301	G2203	C2138	U2068	G1988	C1902	G1807	A1722	C1625
U2684	C2606	G2444	G2302	G2372	G2302	G2204		G2069	G1989	G1903	U1808	U1739	G1626
G2685		G2445	G2303	G2373	G2303	G2206	C2143		G1990		A1809	G1740	
G2686	U2609		G2304	G2374	G2304	G2207	U2144	U2074	U1991	G1906	A1810	G1741	U1639
U2687	C2610	A2448	A2305	G2375	A2305	U2218	C2145	U2075	U1992	G1907	A1811	G1742	C1640
U2688	U2611	G2449	G2306	G2376	G2306	G2219	G2146	U2086	U1993	G1908	A1812	C1743	A1641
U2689	C2612	A2450	G2307	A2376	G2307	G2220	G2147	G2087	C1994	G1909	A1813	C1744	G1642
C2690	U2615		G2308	G2377	G2308	G2221	G2148	U2088	U1995	G1910		C1745	
C2691	G2616	U2459	G2309	G2378	G2309	G2222	G2149	G2089	C1996	U1911	G1816	G1746	G1647
C2692	C2617	U2460	A2310	G2379	A2310	G2223	U2150	G2091	G1997	A1912	G1817	G1747	C1648
A2693	G2618	U2461	G2311	G2380	G2311	G2224	G2151	G2092	G1998	A1913	U1818	G1748	
G2694	U2462	U2462	G2312	G2381	G2312	A2225	G2152	G2093	G1999	G1914	A1819	G1749	G1653
	C2463	C2463	U2313	U2382	U2313	G2226	G2153	U2094	G2000	U1915	U1820	G1749	A1654
	G2623	G2464	G2314	G2383	G2314		G2154	G2095	A2001	A1916	A1821	A1749	
U2698		C2465	G2315	A2386	G2315	U2233	G2155	U2096	G2002	U1917	G1822	G1750	C1657
C2699	U2628	G2466	G2316	G2387	G2316	G2234	G2156	G2097		A1918	G1826	C1751	C1658
	G2629	C2467	G2317	U2389	G2317	G2235	G2157	G2098	A2014	G1919	G1827	C1752	A1665
C2702	G2630	U2468	C2318	U2390	C2318	G2236	U2158	U2099	A2015	A1920	G1828	C1753	G1666
C2703	G2631	G2469	G2319	G2391	G2319	G2237	G2159	G2100	U2016	G1921	G1829	C1754	G1667
C2704	A2632	U2470	G2320	G2392	G2320	G2238	G2160	G2101	U2017	C1924	G1830	A1755	
A2705		G2471	G2321	G2393	G2321	G2239	G2161	G2102	G2018	C1925	G1831	G1756	A1669
	U2637	U2473	A2322	C2394	A2322	G2240	G2162	G2103	A2019	U1926	G1832		
G2709	G2638	C2474	G2323	G2395	G2323	G2241	C2163	G2104	G2020		G1833	A1762	
C2710	A2711	G2475	G2324	G2396	G2324	U2243			G2002	G1929			



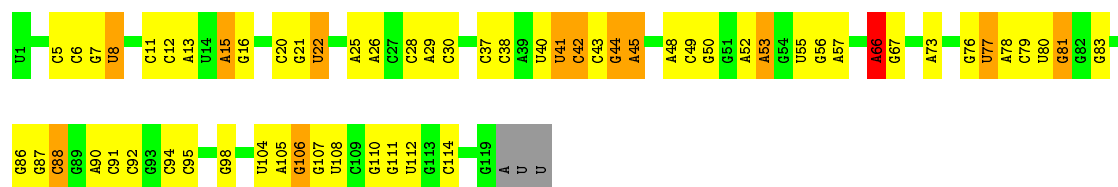
• Molecule 36: 5S RIBOSOMAL RNA

Chain BB: 46% 42% 9% ..



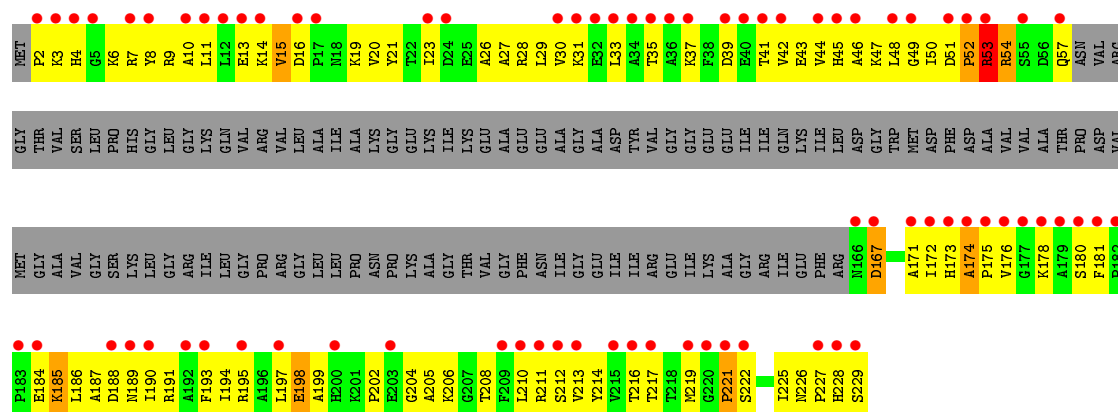
• Molecule 36: 5S RIBOSOMAL RNA

Chain DB: 48% 39% 10% ..

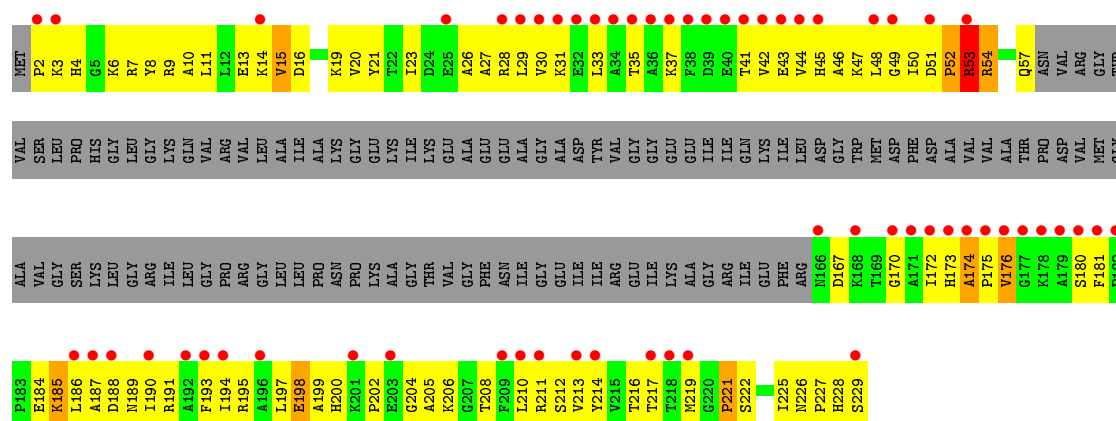


• Molecule 37: 50S RIBOSOMAL PROTEIN L1

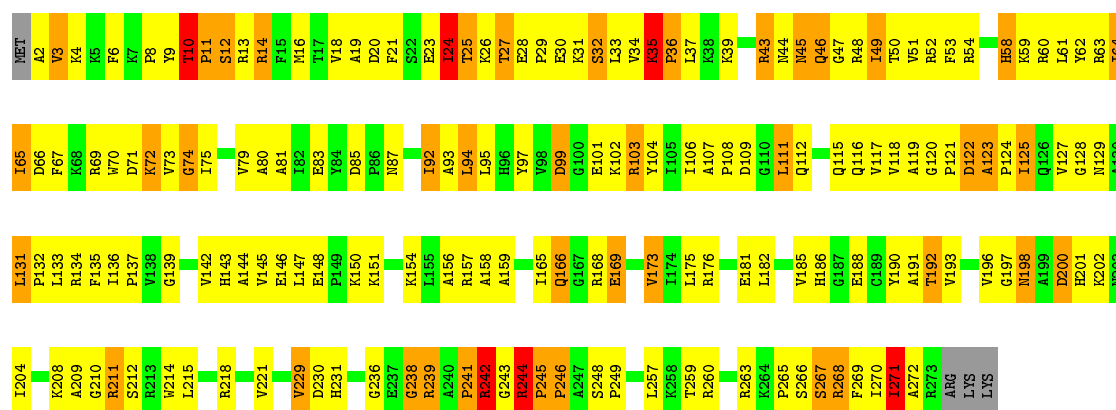
Chain BC: 15% 34% 48%

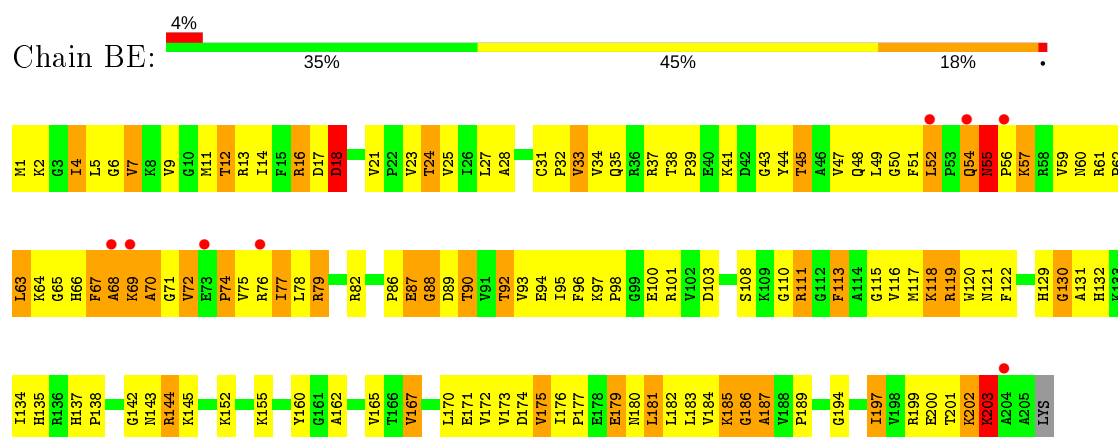


• Molecule 37: 50S RIBOSOMAL PROTEIN L1

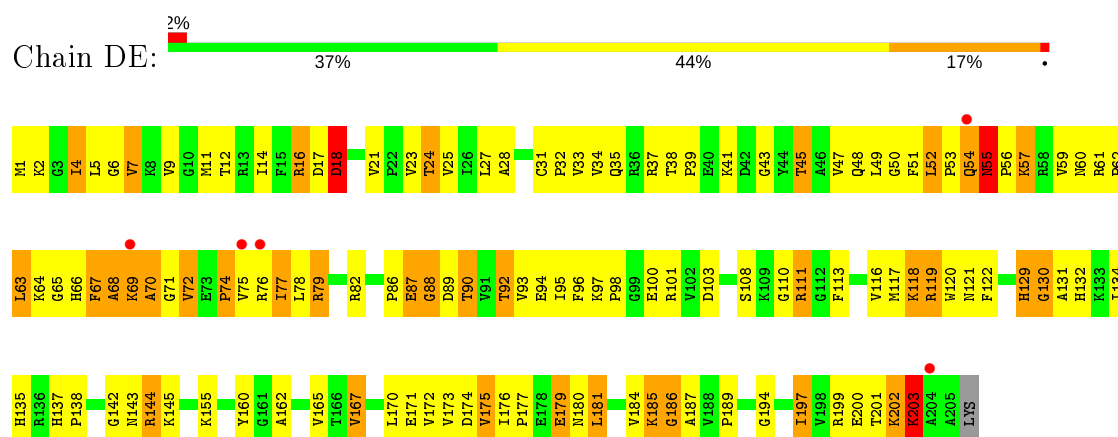


• Molecule 38: 50S RIBOSOMAL PROTEIN L2

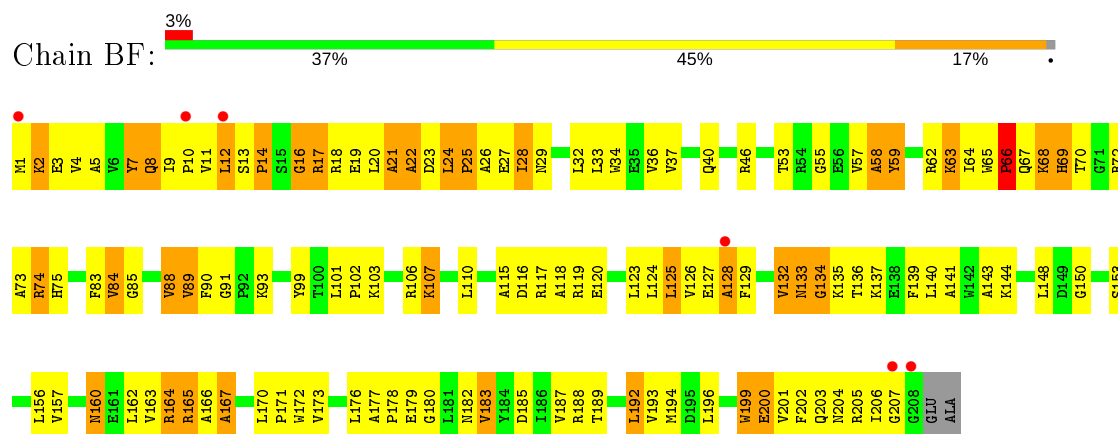




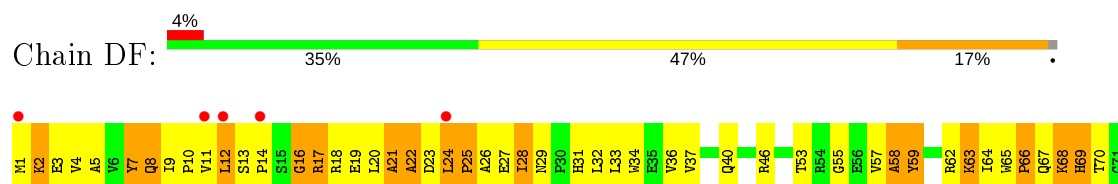
• Molecule 39: 50S RIBOSOMAL PROTEIN L3

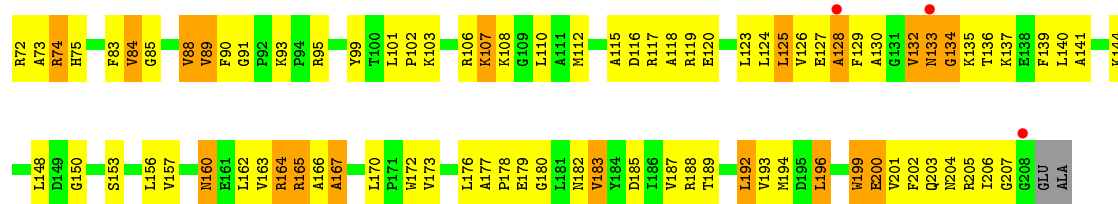


• Molecule 40: 50S RIBOSOMAL PROTEIN L4

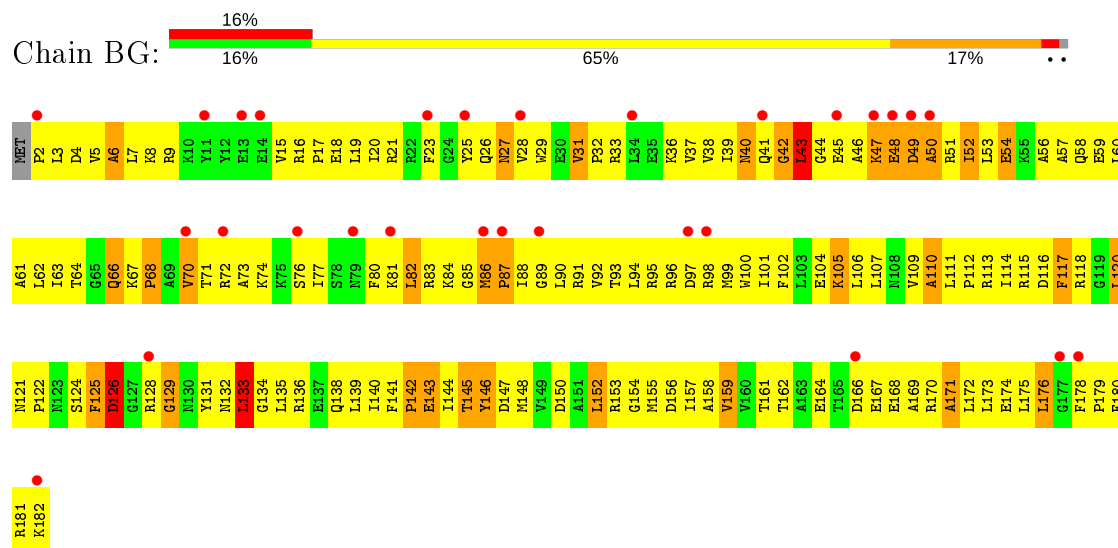


• Molecule 40: 50S RIBOSOMAL PROTEIN L4

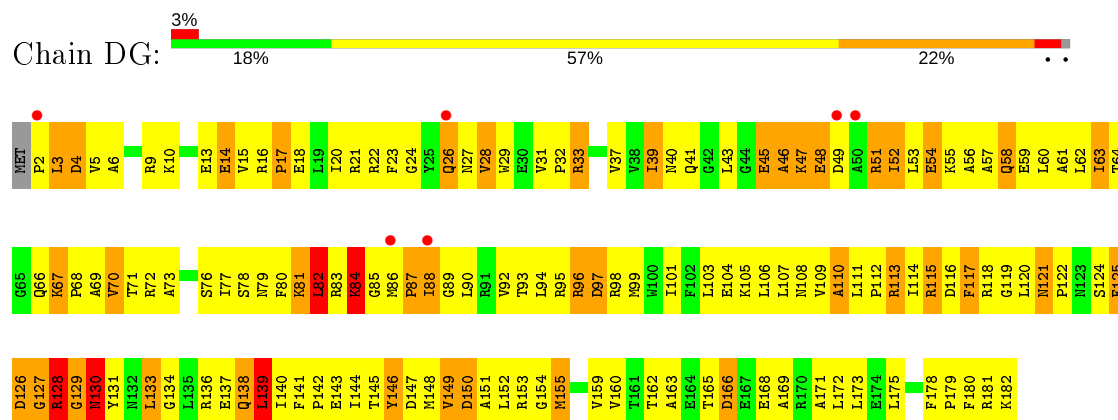




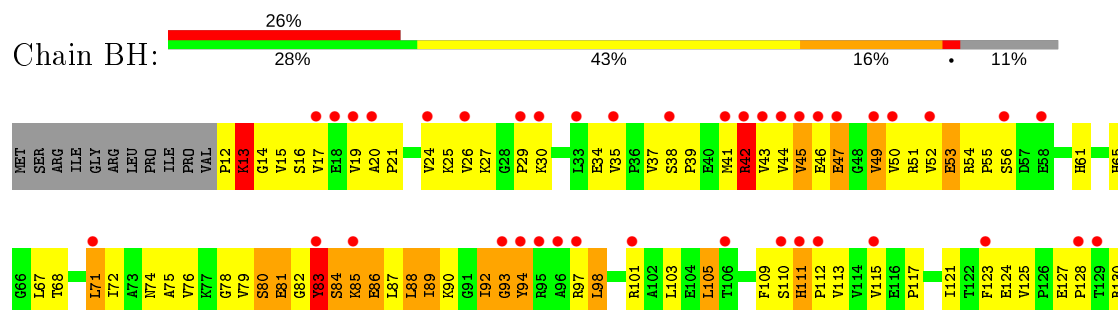
• Molecule 41: 50S RIBOSOMAL PROTEIN L5



• Molecule 41: 50S RIBOSOMAL PROTEIN L5



• Molecule 42: 50S RIBOSOMAL PROTEIN L6



K140	K141	G142	Q143	V144	A145	N147	R148	R149	A150	I151	R152	K153	P154	S155	A156	Y157	H158	E159	K160	G161	I162	Y163	Y164	A165	P168	V169	R170	L171	LYS	PRO	GLY	LYS	ALA	GLY	ALA	LYS	LYS	LYS																	
L71	I72	A73	N74	A75	V76	K77	G78	V79	S80	E81	G82	Y83	S84	K85	E86	L87	L88	I89	K90	G91	I92	G93	Y94	R97	L98	L103	E104	L105	F109	S110	H111	P112	V113	V114	V115	I121	I122	F123	I124	V125	P126	E127	P128	I129	K130	V131	R132	V133	S134	G135	I136	D137	K138	Q139	
MET	SER	ARG	ILE	GLY	ARG	LEU	ILE	PRO	VAL	P12	K13	G14	V15	S16	V17	E18	V19	V24	K25	V26	K27	G28	P29	K30	G31	E32	L33	E34	V35	P36	V37	S38	P39	E40	M41	R42	V43	V44	V45	E46	E47	G48	V49	V50	R51	V52	E53	R54	P55	S56	H61	H65	G66	L67	T68

Category	Item	Value	Color
Category 1	E125	465	Red
	Y126	E66	Blue
	Y127	R67	Red
	L128	L68	Blue
	T129	K69	Blue
	Y130	E70	Green
	K131	L71	Blue
	H133	L72	Blue
	P134	E73	Blue
	E135	N74	Blue
Category 2	E136	L75	Blue
	V136	T76	Blue
	P137	L77	Blue
	I138	T78	Blue
	Q139	T79	Blue
	L140	P80	Blue
	K141	V81	Blue
	V142	R82	Blue
	S143	A83	Blue
	V144	G84	Blue
Category 3	V145	E85	Blue
	A146	T86	Blue
	GLN	K87	Blue
	GLU	L88	Blue
		T89	Blue
		G90	Blue
		S91	Blue
		V92	Blue
		T93	Blue
		A94	Blue
Category 4		K95	Blue
		D96	Blue
		I97	Blue
		A98	Blue
		V99	Blue
		L100	Blue
		L101	Blue
		S102	Blue
		R103	Blue
		Q104	Blue
Category 5		H105	Blue
		G106	Blue
		V107	Blue
		T108	Blue
		I109	Blue
		D110	Blue
		P111	Blue
		K112	Blue
		L113	Blue
		L114	Blue
Category 6		A115	Blue
		L116	Blue
		E117	Blue
		K118	Blue
		P119	Blue
		T120	Blue
		K121	Blue
		E122	Blue
		I123	Blue
		G124	Blue
Category 7		M1	Blue
		K2	Blue
		V3	Blue
		I4	Blue
		L5	Blue
		L6	Blue
		E7	Blue
		P8	Blue
		L9	Blue
		E10	Blue
Category 8		N11	Blue
		L12	Blue
		G13	Blue
		D14	Blue
		V15	Blue
		G16	Blue
		V19	Blue
		D20	Blue
		P23	Blue
		G24	Blue
Category 9		Y25	Blue
		A26	Blue
		E27	Blue
		N28	Blue
		Y29	Blue
		L30	Blue
		L31	Blue
		P32	Blue
		R33	Blue
		A36	Blue
Category 10		V37	Blue
		L38	Blue
		A39	Blue
		T40	Blue
		E41	Blue
		S42	Blue
		N43	Blue
		L44	Blue
		K45	Blue
		A46	Blue
Category 11		L47	Blue
		E48	Blue
		A49	Blue
		R50	Blue
		T51	Blue
		L52	Blue
		A53	Blue
		O54	Blue
		L58	Blue
		A59	Blue
Category 12		B60	Blue
		R61	Blue
		X62	Blue
		B63	Blue
		R64	Blue
		L65	Blue
		L66	Blue
		L67	Blue
		L68	Blue
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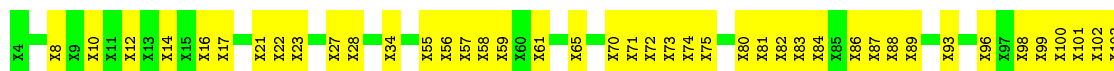
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V126	E66	V3
V127	E67	V2
L128	L68	I4
T129	K69	L5
Y130	E70	L6
K131	I71	E7
P132	L72	P8
H133	E73	L9
P134	N74	E10
E135	L75	N11
V136	T76	L12
P137	L77	G13
I138	T78	D14
Q139	I79	V15
L140	E80	G16
K141	N81	O17
V142	E82	V18
S143	A83	V19
V144	G84	D20
V145	E85	V21
A146	T86	
GLN	K87	Y25
GLU	L88	A26
	Y89	R27
	G90	M28
	S91	Y29
	V92	L30
	T93	I31
	A94	P32
	K95	G33
	D96	G34
	I97	L35
	A98	A36
	E99	V37
	L100	L38
	L101	A39
	S102	T40
	R103	E41
	Q104	S42
	H105	M43
	G106	L44
	V107	K45
	T108	A46
	I109	L47
	D110	E48
	P111	A49
	K112	R50
	R113	L51
	L114	E52
	A115	A53
	L116	
	E117	E57
	K118	L58
	P119	A59
	T120	E60
	K121	R61
	E122	K62
	L123	A63
	G124	E64

X4	X8	X9	X10	X11	X12	X13	X14	X15	X16	X17	X21	X22	X23	X27	X28	X34	X35	X36	X37	X40	X41	X42	X43	X44	X45	X46	X47	X48	X49	X50	X51	X52	X53	X54	X55	X56	X57	X58	X59	X60	X61	X65	X70	X71	X72	X73	X74	X75	X80	X81	X82	X83	X84	X85	X86	X87	X88	X89	X93	X96	X97	X98	X99	X100	X101	X102
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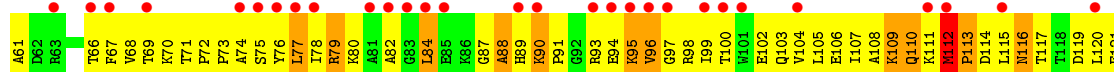
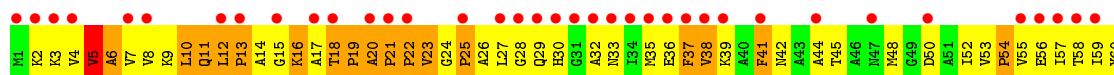
• Molecule 44: 50S RIBOSOMAL PROTEIN L10

Chain DJ: 62% 38%



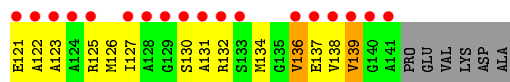
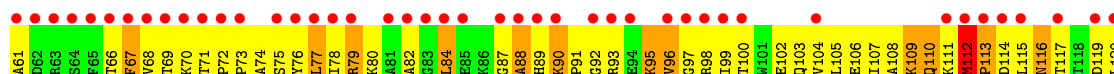
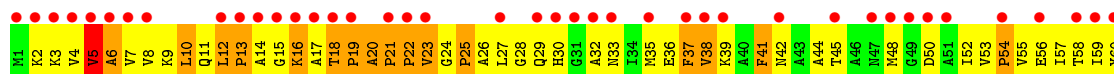
• Molecule 45: 50S RIBOSOMAL PROTEIN L11

Chain BK: 18% 54% 56% 20%



• Molecule 45: 50S RIBOSOMAL PROTEIN L11

Chain DK: 18% 70% 56% 20%



• Molecule 46: 50S RIBOSOMAL PROTEIN L13

Chain BN: 2% 40% 48% 11%





• Molecule 46: 50S RIBOSOMAL PROTEIN L13



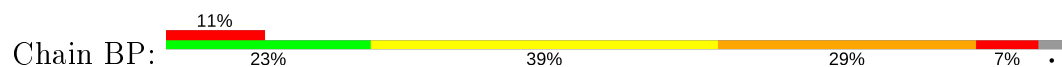
• Molecule 47: 50S RIBOSOMAL PROTEIN L14



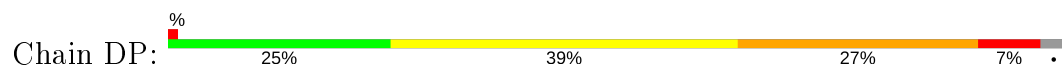
• Molecule 47: 50S RIBOSOMAL PROTEIN L14

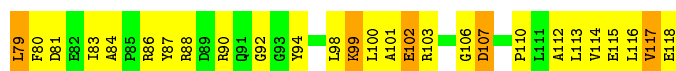


• Molecule 48: 50S RIBOSOMAL PROTEIN L15

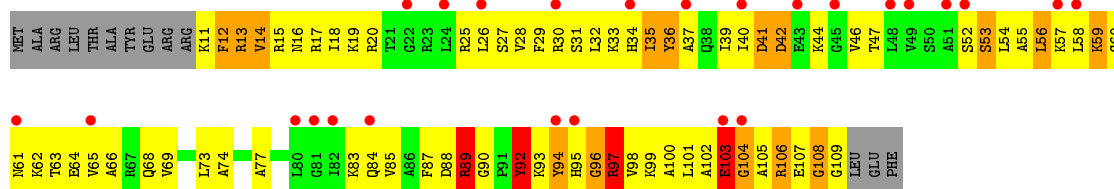


• Molecule 48: 50S RIBOSOMAL PROTEIN L15

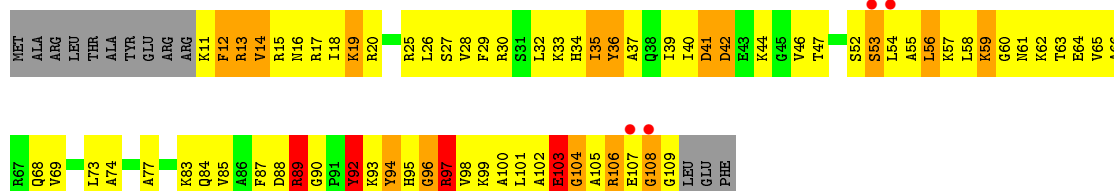




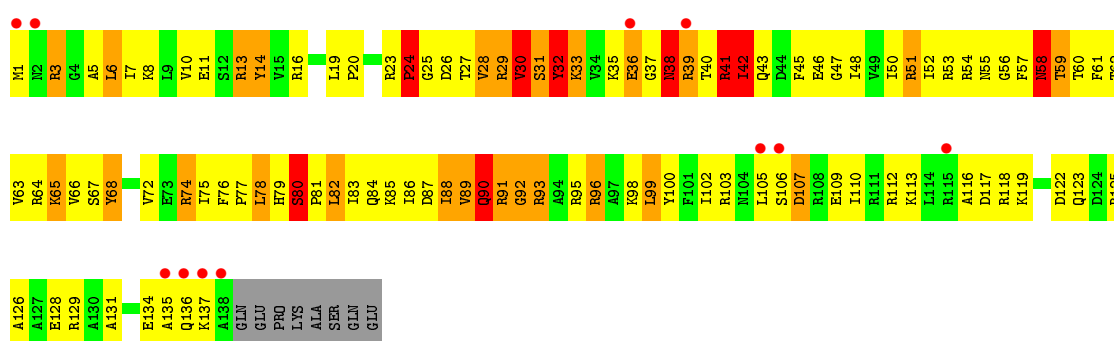
• Molecule 51: 50S RIBOSOMAL PROTEIN L18



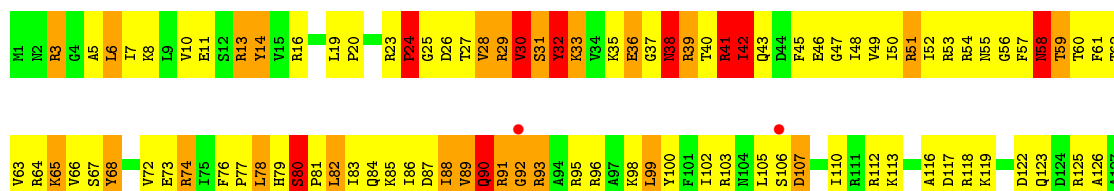
• Molecule 51: 50S RIBOSOMAL PROTEIN L18

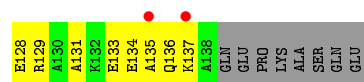


• Molecule 52: 50S RIBOSOMAL PROTEIN L19



• Molecule 52: 50S RIBOSOMAL PROTEIN L19

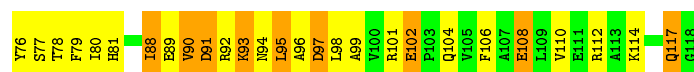
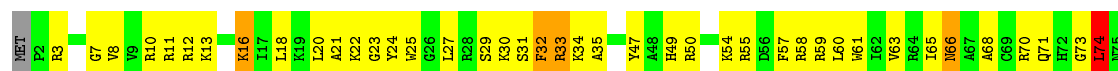




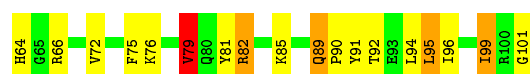
• Molecule 53: 50S RIBOSOMAL PROTEIN L20



• Molecule 53: 50S RIBOSOMAL PROTEIN L20



• Molecule 54: 50S RIBOSOMAL PROTEIN L21

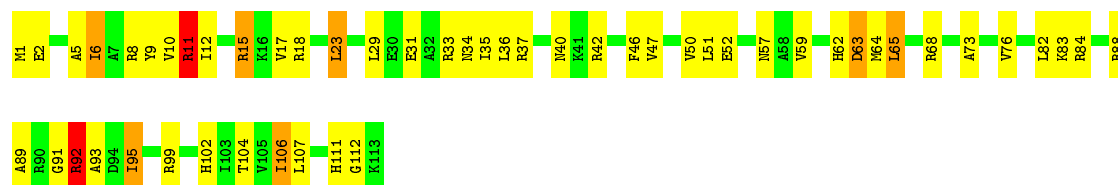


• Molecule 54: 50S RIBOSOMAL PROTEIN L21

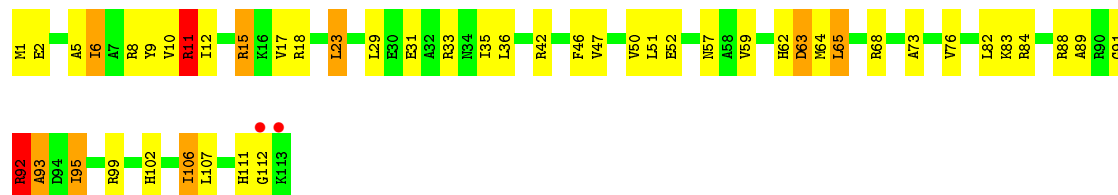


• Molecule 55: 50S RIBOSOMAL PROTEIN L22

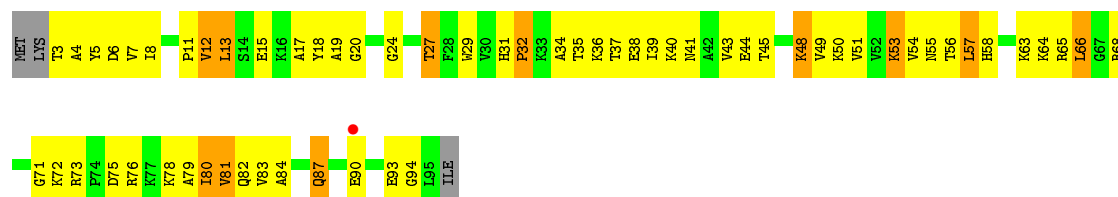




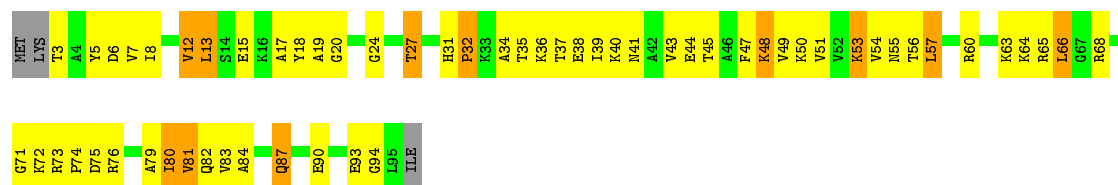
• Molecule 55: 50S RIBOSOMAL PROTEIN L22



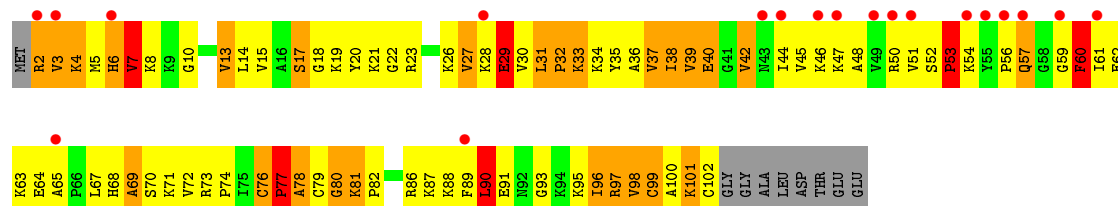
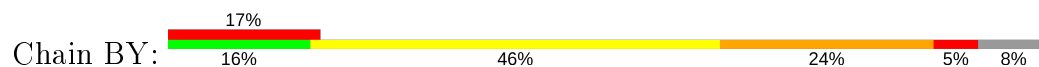
• Molecule 56: 50S RIBOSOMAL PROTEIN L23



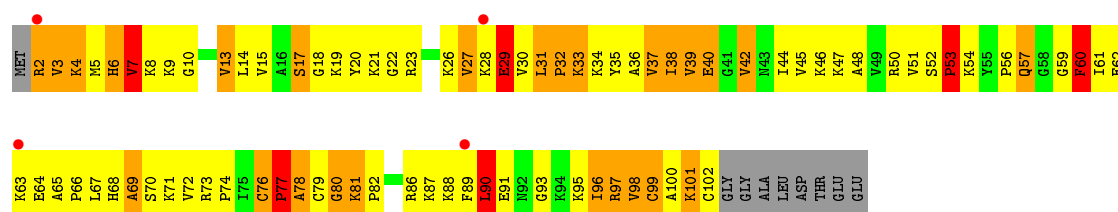
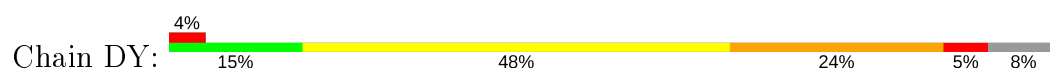
• Molecule 56: 50S RIBOSOMAL PROTEIN L23



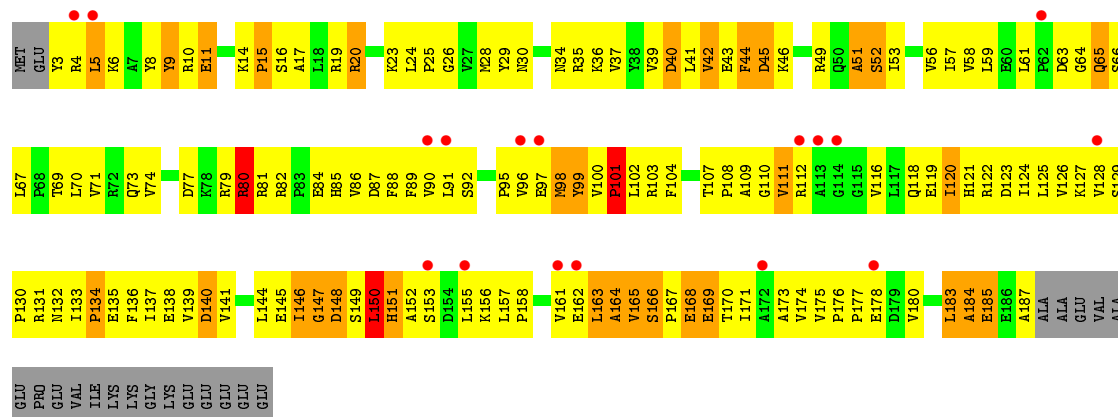
• Molecule 57: 50S RIBOSOMAL PROTEIN L24



• Molecule 57: 50S RIBOSOMAL PROTEIN L24



• Molecule 58: 50S RIBOSOMAL PROTEIN L25



4 Data and refinement statistics

Property	Value	Source
Space group	P 21 21 21	Depositor
Cell constants a, b, c, α , β , γ	211.42Å 452.50Å 625.44Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	47.86 – 3.10 49.71 – 3.00	Depositor EDS
% Data completeness (in resolution range)	100.0 (47.86-3.10) 99.6 (49.71-3.00)	Depositor EDS
R_{merge}	0.16	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.59 (at 3.01Å)	Xtriage
Refinement program	CNS 1.2	Depositor
R, R_{free}	0.223 , 0.264 0.223 , 0.265	Depositor DCC
R_{free} test set	52374 reflections (4.44%)	wwPDB-VP
Wilson B-factor (Å ²)	55.0	Xtriage
Anisotropy	0.035	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.27 , 79.4	EDS
L-test for twinning ²	$\langle L \rangle = 0.40$, $\langle L^2 \rangle = 0.22$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o, F_c correlation	0.90	EDS
Total number of atoms	305067	wwPDB-VP
Average B, all atoms (Å ²)	89.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 1.49% of the height of the origin peak. No significant pseudotranslation is detected.*

¹Intensities estimated from amplitudes.

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

5 Model quality ⓘ

5.1 Standard geometry ⓘ

Bond lengths and bond angles in the following residue types are not validated in this section: MG, ZN, 8AN, PHA

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

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# $ Z > 5$	RMSZ	# $ Z > 5$
1	AA	0.37	0/36190	0.69	14/56486 (0.0%)
1	CA	0.39	0/36190	0.69	11/56486 (0.0%)
2	AB	0.31	0/1936	0.58	0/2611
2	CB	0.33	0/1936	0.58	0/2611
3	AC	0.32	0/1637	0.54	0/2207
3	CC	0.32	0/1637	0.54	0/2207
4	AD	0.33	0/1733	0.63	0/2318
4	CD	0.33	0/1733	0.62	0/2318
5	AE	0.34	0/1163	0.61	0/1566
5	CE	0.35	0/1163	0.62	0/1566
6	AF	0.32	0/856	0.63	0/1154
6	CF	0.34	0/856	0.64	0/1154
7	AG	0.30	0/1276	0.56	0/1709
7	CG	0.31	0/1276	0.56	0/1709
8	AH	0.32	0/1136	0.61	0/1527
8	CH	0.32	0/1136	0.62	0/1527
9	AI	0.31	0/1027	0.58	0/1372
9	CI	0.32	0/1027	0.58	0/1372
10	AJ	0.32	0/808	0.56	0/1087
10	CJ	0.33	0/808	0.56	0/1087
11	AK	0.32	0/900	0.58	0/1213
11	CK	0.36	0/900	0.59	0/1213
12	AL	0.36	0/987	0.67	0/1322
12	CL	0.36	0/987	0.67	0/1322
13	AM	0.30	0/994	0.56	0/1322
13	CM	0.32	0/994	0.56	0/1322
14	AN	0.31	0/501	0.53	0/664
14	CN	0.33	0/501	0.55	0/664
15	AO	0.32	0/745	0.57	0/992
15	CO	0.33	0/745	0.58	0/992
16	AP	0.36	0/717	0.58	0/965
16	CP	0.34	0/717	0.58	0/965

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
17	AQ	0.33	0/837	0.61	0/1119
17	CQ	0.35	0/837	0.61	0/1119
18	AR	0.33	0/579	0.60	0/768
18	CR	0.34	0/579	0.60	0/768
19	AS	0.34	0/643	0.56	0/867
19	CS	0.34	0/643	0.57	0/867
20	AT	0.29	0/765	0.58	0/1007
20	CT	0.29	0/765	0.58	0/1007
21	AU	0.41	0/213	0.49	0/279
21	CU	0.42	0/213	0.50	0/279
22	AV	0.38	0/1784	0.70	0/2780
22	AW	0.35	0/1784	0.71	0/2780
22	CV	0.44	0/1784	0.69	0/2780
22	CW	0.36	0/1784	0.70	0/2780
23	AX	0.39	0/184	0.74	0/284
23	CX	0.45	0/184	0.76	0/284
24	AY	0.31	0/2849	0.60	0/3848
24	CY	0.33	0/2849	0.66	0/3848
25	B0	0.36	0/666	0.63	0/885
25	D0	0.42	0/666	0.67	0/885
26	B1	0.41	0/739	0.73	1/983 (0.1%)
26	D1	0.50	0/739	0.79	0/983
27	B2	0.36	0/600	0.60	0/793
27	D2	0.46	0/600	0.79	0/793
28	B3	0.34	0/473	0.61	0/636
28	D3	0.43	0/473	0.65	0/636
29	B4	0.38	0/229	0.61	0/311
29	D4	0.40	0/229	0.62	0/311
30	B5	0.49	0/473	0.94	2/639 (0.3%)
30	D5	0.71	2/473 (0.4%)	1.01	2/639 (0.3%)
31	B6	0.48	0/387	0.79	0/517
31	D6	0.54	0/388	0.77	0/520
32	B7	0.46	0/427	0.67	0/563
32	D7	0.53	0/427	0.70	0/563
33	B8	0.50	0/516	0.78	0/681
33	D8	0.59	0/516	0.81	0/681
34	B9	0.33	0/302	0.63	0/397
34	D9	0.44	0/302	0.68	0/397
35	BA	0.46	1/69972 (0.0%)	0.74	51/109237 (0.0%)
35	DA	0.60	1/69972 (0.0%)	0.76	63/109237 (0.1%)
36	BB	0.37	0/2853	0.73	0/4451
36	DB	0.50	0/2853	0.74	0/4451
37	BC	0.27	0/956	0.51	0/1288

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
37	DC	0.27	0/956	0.51	0/1288
38	BD	0.42	0/2155	0.77	1/2907 (0.0%)
38	DD	0.49	0/2155	0.80	2/2907 (0.1%)
39	BE	0.42	0/1597	0.77	0/2155
39	DE	0.52	0/1597	0.80	0/2155
40	BF	0.41	0/1659	0.72	1/2246 (0.0%)
40	DF	0.49	0/1659	0.76	1/2246 (0.0%)
41	BG	0.32	0/1498	0.62	0/2013
41	DG	0.39	0/1499	0.75	2/2016 (0.1%)
42	BH	0.35	0/1246	0.70	0/1684
42	DH	0.43	0/1246	0.73	0/1684
43	BI	0.36	0/1147	0.68	0/1553
43	DI	0.35	0/1147	0.74	0/1553
45	BK	0.33	0/1057	0.58	0/1432
45	DK	0.34	0/1057	0.58	0/1432
46	BN	0.37	0/1132	0.76	1/1527 (0.1%)
46	DN	0.47	0/1132	0.80	1/1527 (0.1%)
47	BO	0.42	0/943	0.69	0/1269
47	DO	0.47	0/943	0.71	0/1269
48	BP	0.44	0/1131	0.99	7/1504 (0.5%)
48	DP	0.55	0/1131	1.04	7/1504 (0.5%)
49	BQ	0.37	0/1143	0.66	0/1527
49	DQ	0.46	0/1143	0.69	0/1527
50	BR	0.39	0/974	0.73	2/1302 (0.2%)
50	DR	0.48	0/974	0.77	2/1302 (0.2%)
51	BS	0.39	0/779	0.70	0/1038
51	DS	0.48	0/779	0.73	0/1038
52	BT	0.43	0/1156	0.81	3/1544 (0.2%)
52	DT	0.48	0/1156	0.83	3/1544 (0.2%)
53	BU	0.41	0/975	0.68	1/1297 (0.1%)
53	DU	0.54	0/975	0.75	2/1297 (0.2%)
54	BV	0.38	0/790	0.73	0/1057
54	DV	0.48	0/790	0.79	0/1057
55	BW	0.39	0/907	0.70	0/1216
55	DW	0.48	0/907	0.74	0/1216
56	BX	0.41	0/740	0.70	0/995
56	DX	0.49	0/740	0.73	0/995
57	BY	0.44	0/789	0.75	0/1053
57	DY	0.52	0/789	0.77	1/1053 (0.1%)
58	BZ	0.36	0/1500	0.65	0/2037
58	DZ	0.42	0/1500	0.71	0/2037
All	All	0.46	4/328312 (0.0%)	0.72	181/489974 (0.0%)

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

Mol	Chain	#Chirality outliers	#Planarity outliers
1	AA	1	15
1	CA	1	17
22	AW	0	1
22	CV	0	1
22	CW	0	3
30	B5	0	2
30	D5	0	2
35	BA	5	59
35	DA	6	77
36	BB	0	2
36	DB	0	3
All	All	13	182

All (4) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
30	D5	49	CYS	CB-SG	5.59	1.91	1.82
35	DA	2685	G	C6-O6	5.54	1.29	1.24
35	BA	1899	G	C2-N2	-5.53	1.29	1.34
30	D5	51	TYR	CD1-CE1	5.27	1.47	1.39

All (181) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
35	BA	1992	G	C2'-C3'-O3'	10.98	133.66	109.50
35	DA	1992	G	C2'-C3'-O3'	10.73	133.11	109.50
35	DA	331	A	C2'-C3'-O3'	9.84	131.14	109.50
35	BA	331	A	C2'-C3'-O3'	9.40	130.19	109.50
35	DA	1653	G	C2'-C3'-O3'	9.16	129.65	109.50
35	DA	1022	G	C2'-C3'-O3'	9.15	129.62	109.50
35	BA	1799	G	C2'-C3'-O3'	9.03	129.37	109.50
35	DA	1799	G	C2'-C3'-O3'	8.99	129.28	109.50
35	BA	1653	G	C2'-C3'-O3'	8.81	128.88	109.50
1	CA	1498	U	C2'-C3'-O3'	8.75	128.75	109.50
48	DP	53	GLY	N-CA-C	-8.71	91.33	113.10
35	DA	1786	A	N9-C1'-C2'	8.61	125.19	114.00
35	BA	1022	G	C2'-C3'-O3'	8.49	128.17	109.50
35	DA	1820	U	C2'-C3'-O3'	8.40	127.98	109.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
35	BA	1819	A	C2'-C3'-O3'	8.40	127.97	109.50
35	DA	1819	A	C2'-C3'-O3'	8.36	127.90	109.50
35	BA	474	G	C2'-C3'-O3'	8.35	127.86	109.50
1	CA	1504	G	C2'-C3'-O3'	8.30	127.77	109.50
35	DA	2360	A	N9-C1'-C2'	-8.29	102.88	112.00
48	BP	53	GLY	N-CA-C	-8.27	92.43	113.10
1	AA	1504	G	C2'-C3'-O3'	8.26	127.67	109.50
35	BA	1820	U	C2'-C3'-O3'	8.11	127.33	109.50
35	DA	474	G	C2'-C3'-O3'	8.11	127.33	109.50
35	DA	2464	C	N1-C1'-C2'	-8.07	103.12	112.00
35	BA	2464	C	N1-C1'-C2'	-7.98	103.22	112.00
38	BD	244	ARG	C-N-CD	-7.94	103.14	120.60
30	B5	52	TYR	N-CA-C	-7.91	89.63	111.00
30	D5	52	TYR	N-CA-C	-7.91	89.63	111.00
35	BA	1300	U	C2'-C3'-O3'	7.82	126.71	109.50
35	BA	2360	A	N9-C1'-C2'	-7.82	103.40	112.00
35	BA	1786	A	N9-C1'-C2'	7.81	124.16	114.00
48	DP	52	GLU	N-CA-C	7.73	131.87	111.00
48	BP	52	GLU	N-CA-C	7.72	131.85	111.00
38	DD	244	ARG	C-N-CD	-7.66	103.75	120.60
35	DA	1300	U	C2'-C3'-O3'	7.63	126.28	109.50
1	CA	115	G	C2'-C3'-O3'	7.59	126.20	109.50
35	DA	1365	A	C5'-C4'-C3'	7.51	128.01	116.00
1	AA	115	G	C2'-C3'-O3'	7.41	125.81	109.50
41	DG	129	GLY	N-CA-C	-7.29	94.87	113.10
35	BA	587	C	C2'-C3'-O3'	7.25	125.45	109.50
1	CA	575	G	C2'-C3'-O3'	7.24	125.42	109.50
1	CA	366	C	C2'-C3'-O3'	7.14	125.22	109.50
35	DA	2778	A	C5'-C4'-C3'	-7.14	104.58	116.00
35	DA	587	C	C2'-C3'-O3'	7.12	125.15	109.50
1	CA	913	A	C2'-C3'-O3'	7.09	125.10	109.50
35	DA	2655	G	N9-C1'-C2'	7.01	123.12	114.00
35	BA	1365	A	C5'-C4'-C3'	7.01	127.21	116.00
1	AA	575	G	C2'-C3'-O3'	6.99	124.89	113.70
48	DP	54	GLY	N-CA-C	-6.94	95.76	113.10
1	AA	366	C	C2'-C3'-O3'	6.93	124.78	113.70
35	DA	387	U	C2'-C3'-O3'	6.89	124.73	113.70
35	DA	587	C	C4'-C3'-O3'	6.82	126.64	113.00
52	DT	80	SER	N-CA-C	6.76	129.26	111.00
1	AA	913	A	C2'-C3'-O3'	6.76	124.52	113.70
35	DA	1155	A	C5'-C4'-O4'	-6.75	101.00	109.10
52	BT	80	SER	N-CA-C	6.71	129.12	111.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
35	BA	2655	G	N9-C1'-C2'	6.59	122.57	114.00
48	BP	54	GLY	N-CA-C	-6.56	96.69	113.10
35	BA	587	C	C4'-C3'-O3'	6.55	126.11	113.00
35	DA	1427	A	C2'-C3'-O3'	6.52	124.14	113.70
1	CA	266	G	C2'-C3'-O3'	6.47	124.06	113.70
35	BA	49	A	C2'-C3'-O3'	6.43	124.00	113.70
35	BA	2778	A	C5'-C4'-C3'	-6.43	105.71	116.00
35	BA	387	U	C2'-C3'-O3'	6.33	123.82	113.70
35	DA	1493	C	N1-C1'-C2'	6.32	122.21	114.00
1	CA	1067	A	C2'-C3'-O3'	6.30	123.78	113.70
1	AA	266	G	C2'-C3'-O3'	6.26	123.72	113.70
35	DA	783	A	N9-C1'-C2'	-6.22	105.15	112.00
35	DA	1694	C	N1-C1'-C2'	6.20	122.06	114.00
35	DA	49	A	C2'-C3'-O3'	6.18	123.59	113.70
1	AA	1067	A	C2'-C3'-O3'	6.15	123.53	113.70
35	BA	1427	A	C2'-C3'-O3'	6.12	123.50	113.70
35	BA	1493	C	N1-C1'-C2'	6.02	121.83	114.00
35	DA	1300	U	C4'-C3'-O3'	5.94	124.87	113.00
35	DA	481	G	N9-C1'-C2'	5.93	121.71	114.00
35	DA	2200	C	C5'-C4'-C3'	-5.92	106.52	116.00
35	DA	102	G	N9-C1'-C2'	5.91	121.69	114.00
35	DA	964	C	C5'-C4'-C3'	-5.88	106.58	116.00
35	DA	629	G	C5'-C4'-C3'	-5.87	106.62	116.00
35	DA	2031	A	N9-C1'-C2'	5.86	121.62	114.00
35	DA	1986	A	C5'-C4'-C3'	-5.82	106.68	116.00
1	CA	1504	G	C4'-C3'-O3'	5.82	124.63	113.00
35	BA	1694	C	N1-C1'-C2'	5.80	121.54	114.00
48	BP	59	LEU	N-CA-C	-5.80	95.34	111.00
35	BA	102	G	N9-C1'-C2'	5.79	121.53	114.00
35	DA	945	A	N9-C1'-C2'	5.77	121.50	114.00
48	DP	59	LEU	N-CA-C	-5.74	95.51	111.00
35	DA	1970	A	C5'-C4'-O4'	5.72	115.97	109.10
35	BA	1970	A	C5'-C4'-O4'	5.71	115.95	109.10
35	DA	1819	A	C4'-C3'-O3'	5.71	124.42	113.00
35	BA	2031	A	N9-C1'-C2'	5.71	121.42	114.00
53	DU	97	ASP	N-CA-C	-5.71	95.59	111.00
48	DP	41	ARG	N-CA-C	-5.70	95.60	111.00
35	BA	1300	U	C4'-C3'-O3'	5.69	124.38	113.00
35	BA	783	A	N9-C1'-C2'	-5.65	105.78	112.00
53	BU	97	ASP	N-CA-C	-5.64	95.78	111.00
41	DG	54	GLU	N-CA-C	-5.62	95.84	111.00
48	BP	41	ARG	N-CA-C	-5.60	95.88	111.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
26	B1	46	LEU	CA-CB-CG	5.57	128.11	115.30
1	CA	920	U	C5'-C4'-C3'	-5.56	107.10	116.00
35	BA	587	C	C4'-C3'-C2'	5.54	108.14	102.60
35	BA	1155	A	C5'-C4'-O4'	-5.53	102.46	109.10
50	BR	4	LEU	CA-CB-CG	5.53	128.02	115.30
35	DA	1223	G	C5'-C4'-C3'	-5.52	107.16	116.00
46	BN	67	LEU	N-CA-C	-5.51	96.12	111.00
35	BA	945	A	N9-C1'-C2'	5.51	121.16	114.00
35	DA	414	C	C5'-C4'-C3'	-5.49	107.21	116.00
35	DA	2779	U	O4'-C1'-N1	5.47	112.58	108.20
35	BA	629	G	C5'-C4'-C3'	-5.47	107.25	116.00
35	DA	2278	A	C5'-C4'-C3'	5.47	124.75	116.00
1	AA	1498	U	C2'-C3'-O3'	5.46	122.44	113.70
35	BA	2200	C	C5'-C4'-C3'	-5.46	107.26	116.00
35	BA	1986	A	C5'-C4'-C3'	-5.45	107.28	116.00
35	DA	310	A	C5'-C4'-C3'	-5.45	107.28	116.00
35	BA	1495	A	N9-C1'-C2'	5.44	121.07	114.00
52	BT	30	VAL	N-CA-C	5.44	125.68	111.00
40	DF	63	LYS	N-CA-C	-5.43	96.34	111.00
35	DA	587	C	C4'-C3'-C2'	5.42	108.02	102.60
35	BA	310	A	C5'-C4'-C3'	-5.41	107.35	116.00
35	BA	481	G	N9-C1'-C2'	5.39	121.01	114.00
35	DA	2346	A	O4'-C1'-N9	5.38	112.51	108.20
35	DA	1948	G	C5'-C4'-O4'	-5.37	102.65	109.10
35	DA	1321	A	C5'-C4'-C3'	-5.37	107.41	116.00
35	BA	964	C	C5'-C4'-C3'	-5.35	107.44	116.00
35	BA	2278	A	C5'-C4'-C3'	5.33	124.53	116.00
35	DA	673	C	C5'-C4'-O4'	-5.33	102.70	109.10
46	DN	67	LEU	N-CA-C	-5.33	96.62	111.00
35	DA	1159	U	C5'-C4'-C3'	-5.31	107.50	116.00
35	DA	2225	A	C2'-C3'-O3'	5.30	122.18	113.70
35	BA	414	C	C5'-C4'-C3'	-5.29	107.53	116.00
52	DT	30	VAL	N-CA-C	5.29	125.28	111.00
48	DP	10	PRO	N-CA-C	-5.29	98.36	112.10
30	B5	48	GLU	N-CA-C	-5.28	96.74	111.00
50	DR	4	LEU	CA-CB-CG	5.26	127.41	115.30
35	DA	1616	A	O4'-C1'-N9	5.25	112.40	108.20
35	BA	1698	A	N9-C1'-C2'	5.25	120.82	114.00
35	DA	1970	A	C1'-O4'-C4'	-5.22	105.72	109.90
35	DA	1955	U	N1-C1'-C2'	5.22	120.78	114.00
35	DA	146	G	C5'-C4'-O4'	-5.21	102.85	109.10
52	DT	29	ARG	N-CA-C	5.20	125.04	111.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
30	D5	48	GLU	N-CA-C	-5.20	96.97	111.00
48	DP	116	GLY	N-CA-C	5.19	126.07	113.10
1	AA	920	U	C5'-C4'-C3'	-5.16	107.74	116.00
35	BA	1819	A	C4'-C3'-O3'	5.16	123.33	113.00
35	DA	1616	A	N9-C1'-C2'	5.16	120.71	114.00
35	DA	331	A	C4'-C3'-C2'	5.16	107.76	102.60
35	BA	1948	G	C5'-C4'-O4'	-5.15	102.92	109.10
52	BT	29	ARG	N-CA-C	5.15	124.91	111.00
35	DA	1318	C	C5'-C4'-C3'	-5.15	107.76	116.00
35	DA	474	G	C4'-C3'-C2'	5.15	107.75	102.60
35	DA	2557	G	C5'-C4'-C3'	-5.14	107.77	116.00
35	DA	1799	G	C4'-C3'-O3'	5.13	123.27	113.00
1	AA	1502	A	N9-C1'-C2'	5.12	120.65	114.00
35	BA	2112	G	C5'-C4'-C3'	-5.11	107.82	116.00
35	BA	2714	G	C5'-C4'-C3'	-5.11	107.82	116.00
35	BA	1159	U	C5'-C4'-C3'	-5.11	107.83	116.00
35	BA	2346	A	O4'-C1'-N9	5.10	112.28	108.20
35	DA	474	G	C4'-C3'-O3'	5.10	123.19	113.00
48	BP	116	GLY	N-CA-C	5.09	125.83	113.10
35	BA	2225	A	C2'-C3'-O3'	5.09	121.84	113.70
40	BF	63	LYS	N-CA-C	-5.08	97.28	111.00
35	DA	493	G	C5'-C4'-C3'	-5.08	107.87	116.00
35	DA	1495	A	N9-C1'-C2'	5.08	120.61	114.00
35	DA	2714	G	C5'-C4'-C3'	-5.08	107.88	116.00
53	DU	95	LEU	CA-CB-CG	-5.08	103.62	115.30
1	AA	509	A	C2'-C3'-O3'	5.07	121.82	113.70
48	BP	10	PRO	N-CA-C	-5.07	98.93	112.10
35	DA	1846	G	C5'-C4'-O4'	-5.06	103.03	109.10
57	DY	7	VAL	N-CA-C	5.06	124.67	111.00
35	BA	1970	A	C1'-O4'-C4'	-5.06	105.85	109.90
35	BA	1970	A	C5'-C4'-C3'	5.06	124.09	116.00
35	BA	1955	U	N1-C1'-C2'	5.05	120.57	114.00
1	CA	509	A	C2'-C3'-O3'	5.05	121.78	113.70
50	BR	10	LEU	CA-CB-CG	5.05	126.91	115.30
35	BA	1799	G	C4'-C3'-O3'	5.04	123.09	113.00
35	DA	1698	A	N9-C1'-C2'	5.04	120.55	114.00
1	AA	687	A	C2'-C3'-O3'	5.03	121.75	113.70
1	AA	115	G	C4'-C3'-C2'	5.03	107.63	102.60
1	AA	1504	G	C4'-C3'-C2'	5.02	107.62	102.60
38	DD	229	VAL	CB-CA-C	-5.01	101.88	111.40
50	DR	44	LEU	CA-CB-CG	5.00	126.81	115.30

All (13) chirality outliers are listed below:

Mol	Chain	Res	Type	Atom
1	AA	1504	G	C3'
35	BA	587	C	C3'
35	BA	1300	U	C3'
35	BA	1799	G	C3'
35	BA	1819	A	C3'
35	BA	1992	G	C3'
1	CA	1504	G	C3'
35	DA	474	G	C3'
35	DA	587	C	C3'
35	DA	1300	U	C3'
35	DA	1799	G	C3'
35	DA	1819	A	C3'
35	DA	1992	G	C3'

All (182) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	AA	1077	G	Sidechain
1	AA	1181	G	Sidechain
1	AA	1281	U	Sidechain
1	AA	1405	G	Sidechain
1	AA	1422	G	Sidechain
1	AA	1487	G	Sidechain
1	AA	1519	A	Sidechain
1	AA	1522	U	Sidechain
1	AA	21	G	Sidechain
1	AA	575	G	Sidechain
1	AA	587	G	Sidechain
1	AA	760	G	Sidechain
1	AA	832	C	Sidechain
1	AA	897	C	Sidechain
1	AA	898	G	Sidechain
22	AW	60	U	Sidechain
30	B5	51	TYR	Sidechain
30	B5	52	TYR	Sidechain
35	BA	102	G	Sidechain
35	BA	1040	C	Sidechain
35	BA	1112	G	Sidechain
35	BA	1215	G	Sidechain
35	BA	1271	G	Sidechain
35	BA	1294	U	Sidechain
35	BA	1379	A	Sidechain
35	BA	1416	G	Sidechain

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Mol	Chain	Res	Type	Group
35	BA	15	G	Sidechain
35	BA	1613	G	Sidechain
35	BA	1642	G	Sidechain
35	BA	1647	G	Sidechain
35	BA	1673	U	Sidechain
35	BA	1772	G	Sidechain
35	BA	178	G	Sidechain
35	BA	1789	A	Sidechain
35	BA	1801	G	Sidechain
35	BA	1807	G	Sidechain
35	BA	1955	U	Sidechain
35	BA	1992	G	Sidechain
35	BA	1993	U	Sidechain
35	BA	1999	C	Sidechain
35	BA	2011	U	Sidechain
35	BA	2031	A	Sidechain
35	BA	2059	A	Sidechain
35	BA	2086	U	Sidechain
35	BA	2282	G	Sidechain
35	BA	2336	A	Sidechain
35	BA	2360	A	Sidechain
35	BA	2387	U	Sidechain
35	BA	2388	A	Sidechain
35	BA	2437	U	Sidechain
35	BA	2464	C	Sidechain
35	BA	249	C	Sidechain
35	BA	250	G	Sidechain
35	BA	2542	A	Sidechain
35	BA	2595	G	Sidechain
35	BA	2596	U	Sidechain
35	BA	2597	G	Sidechain
35	BA	2661	G	Sidechain
35	BA	2692	C	Sidechain
35	BA	271(Q)	G	Sidechain
35	BA	271(Y)	U	Sidechain
35	BA	272(I)	U	Sidechain
35	BA	2746	U	Sidechain
35	BA	2779	U	Sidechain
35	BA	395	U	Sidechain
35	BA	463	G	Sidechain
35	BA	465	G	Sidechain
35	BA	488	G	Sidechain

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Mol	Chain	Res	Type	Group
35	BA	597	U	Sidechain
35	BA	607	U	Sidechain
35	BA	652	C	Sidechain
35	BA	670	A	Sidechain
35	BA	674	G	Sidechain
35	BA	70	G	Sidechain
35	BA	938	G	Sidechain
35	BA	956	G	Sidechain
35	BA	997	G	Sidechain
36	BB	106	G	Sidechain
36	BB	66	A	Sidechain
1	CA	1077	G	Sidechain
1	CA	1181	G	Sidechain
1	CA	1281	U	Sidechain
1	CA	1418	A	Sidechain
1	CA	1436	U	Sidechain
1	CA	1502	A	Sidechain
1	CA	1517	G	Sidechain
1	CA	1519	A	Sidechain
1	CA	1522	U	Sidechain
1	CA	21	G	Sidechain
1	CA	575	G	Sidechain
1	CA	587	G	Sidechain
1	CA	760	G	Sidechain
1	CA	832	C	Sidechain
1	CA	879	C	Sidechain
1	CA	897	C	Sidechain
1	CA	898	G	Sidechain
22	CV	29	G	Sidechain
22	CW	19	G	Sidechain
22	CW	20	U	Sidechain
22	CW	70	G	Sidechain
30	D5	51	TYR	Sidechain
30	D5	52	TYR	Sidechain
35	DA	102	G	Sidechain
35	DA	1025	G	Sidechain
35	DA	1040	C	Sidechain
35	DA	1112	G	Sidechain
35	DA	1132	A	Sidechain
35	DA	1215	G	Sidechain
35	DA	1252	G	Sidechain
35	DA	1271	G	Sidechain

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Mol	Chain	Res	Type	Group
35	DA	1294	U	Sidechain
35	DA	1379	A	Sidechain
35	DA	1391	U	Sidechain
35	DA	1416	G	Sidechain
35	DA	15	G	Sidechain
35	DA	1613	G	Sidechain
35	DA	1642	G	Sidechain
35	DA	1647	G	Sidechain
35	DA	1693	U	Sidechain
35	DA	1772	G	Sidechain
35	DA	1789	A	Sidechain
35	DA	1801	G	Sidechain
35	DA	1807	G	Sidechain
35	DA	1822	G	Sidechain
35	DA	1938	A	Sidechain
35	DA	1955	U	Sidechain
35	DA	1966	A	Sidechain
35	DA	1992	G	Sidechain
35	DA	1999	C	Sidechain
35	DA	2000	G	Sidechain
35	DA	2030	A	Sidechain
35	DA	2031	A	Sidechain
35	DA	2034	U	Sidechain
35	DA	2053	G	Sidechain
35	DA	2059	A	Sidechain
35	DA	2086	U	Sidechain
35	DA	2089	U	Sidechain
35	DA	2267	A	Sidechain
35	DA	2282	G	Sidechain
35	DA	2320	A	Sidechain
35	DA	2336	A	Sidechain
35	DA	2360	A	Sidechain
35	DA	2387	U	Sidechain
35	DA	2437	U	Sidechain
35	DA	2464	C	Sidechain
35	DA	249	C	Sidechain
35	DA	250	G	Sidechain
35	DA	2517	C	Sidechain
35	DA	2522	U	Sidechain
35	DA	2542	A	Sidechain
35	DA	2564	A	Sidechain
35	DA	2595	G	Sidechain

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Mol	Chain	Res	Type	Group
35	DA	2596	U	Sidechain
35	DA	2597	G	Sidechain
35	DA	2661	G	Sidechain
35	DA	2662	A	Sidechain
35	DA	2692	C	Sidechain
35	DA	271(Q)	G	Sidechain
35	DA	271(Y)	U	Sidechain
35	DA	2746	U	Sidechain
35	DA	2776	A	Sidechain
35	DA	2779	U	Sidechain
35	DA	395	U	Sidechain
35	DA	463	G	Sidechain
35	DA	465	G	Sidechain
35	DA	488	G	Sidechain
35	DA	512	G	Sidechain
35	DA	597	U	Sidechain
35	DA	607	U	Sidechain
35	DA	652	C	Sidechain
35	DA	670	A	Sidechain
35	DA	674	G	Sidechain
35	DA	700	G	Sidechain
35	DA	704	G	Sidechain
35	DA	72	U	Sidechain
35	DA	743	G	Sidechain
35	DA	938	G	Sidechain
35	DA	956	G	Sidechain
35	DA	997	G	Sidechain
36	DB	106	G	Sidechain
36	DB	66	A	Sidechain
36	DB	77	U	Sidechain

5.2 Too-close contacts ⓘ

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	AA	32329	0	16314	1204	0
1	CA	32329	0	16316	1222	0
2	AB	1901	0	1951	258	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
2	CB	1901	0	1951	259	0
3	AC	1613	0	1677	199	0
3	CC	1613	0	1677	196	0
4	AD	1703	0	1763	219	0
4	CD	1703	0	1763	207	0
5	AE	1147	0	1207	125	0
5	CE	1147	0	1207	125	0
6	AF	843	0	857	88	0
6	CF	843	0	857	95	0
7	AG	1257	0	1296	113	0
7	CG	1257	0	1296	121	0
8	AH	1116	0	1177	118	0
8	CH	1116	0	1177	113	0
9	AI	1011	0	1041	126	0
9	CI	1011	0	1041	129	0
10	AJ	795	0	840	146	0
10	CJ	795	0	840	144	0
11	AK	885	0	904	74	0
11	CK	885	0	904	77	0
12	AL	971	0	1057	122	0
12	CL	971	0	1057	124	0
13	AM	988	0	1055	161	0
13	CM	988	0	1055	153	0
14	AN	492	0	530	66	0
14	CN	492	0	529	65	0
15	AO	734	0	771	55	0
15	CO	734	0	771	52	0
16	AP	701	0	720	81	0
16	CP	701	0	720	87	0
17	AQ	824	0	891	62	0
17	CQ	824	0	891	63	0
18	AR	574	0	644	59	0
18	CR	574	0	644	59	0
19	AS	630	0	651	98	0
19	CS	630	0	651	100	0
20	AT	763	0	861	73	0
20	CT	763	0	861	78	0
21	AU	209	0	221	24	0
21	CU	209	0	221	26	0
22	AV	1630	0	831	76	0
22	AW	1630	0	831	101	0
22	CV	1630	0	831	65	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
22	CW	1630	0	832	110	0
23	AX	165	0	87	11	0
23	CX	165	0	87	17	0
24	AY	2801	0	2816	377	0
24	CY	2801	0	2816	430	0
25	B0	657	0	683	58	0
25	D0	657	0	683	55	0
26	B1	732	0	808	88	0
26	D1	732	0	808	80	0
27	B2	598	0	653	81	0
27	D2	598	0	653	77	0
28	B3	468	0	523	40	0
28	D3	468	0	523	42	0
29	B4	226	0	229	46	0
29	D4	226	0	229	45	0
30	B5	459	0	480	74	0
30	D5	459	0	480	74	0
31	B6	381	0	390	73	0
31	D6	381	0	389	149	0
32	B7	419	0	467	19	0
32	D7	419	0	467	22	0
33	B8	508	0	576	103	0
33	D8	508	0	576	103	0
34	B9	299	0	323	24	0
34	D9	299	0	323	24	0
35	BA	62474	0	31492	1876	0
35	DA	62474	0	31493	1854	0
36	BB	2551	0	1295	80	0
36	DB	2551	0	1295	70	0
37	BC	937	0	957	106	0
37	DC	937	0	957	108	0
38	BD	2105	0	2182	248	0
38	DD	2105	0	2182	254	0
39	BE	1564	0	1629	191	0
39	DE	1564	0	1629	192	0
40	BF	1624	0	1677	189	0
40	DF	1624	0	1677	188	0
41	BG	1474	0	1534	286	0
41	DG	1474	0	1535	240	0
42	BH	1223	0	1282	139	0
42	DH	1223	0	1282	145	0
43	BI	1132	0	1218	179	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
43	DI	1132	0	1218	181	0
44	BJ	651	0	151	34	0
44	DJ	651	0	151	34	0
45	BK	1038	0	1089	196	0
45	DK	1038	0	1089	192	0
46	BN	1105	0	1180	127	0
46	DN	1105	0	1180	134	0
47	BO	933	0	996	84	0
47	DO	933	0	996	93	0
48	BP	1114	0	1187	268	0
48	DP	1114	0	1187	263	0
49	BQ	1122	0	1179	127	0
49	DQ	1122	0	1179	110	0
50	BR	960	0	1021	93	0
50	DR	960	0	1021	94	0
51	BS	771	0	832	126	0
51	DS	771	0	832	121	0
52	BT	1142	0	1202	223	0
52	DT	1142	0	1202	228	0
53	BU	958	0	1015	103	0
53	DU	958	0	1015	109	0
54	BV	779	0	852	132	0
54	DV	779	0	852	133	0
55	BW	896	0	953	50	0
55	DW	896	0	953	50	0
56	BX	726	0	778	73	0
56	DX	726	0	778	70	0
57	BY	776	0	870	178	0
57	DY	776	0	870	190	0
58	BZ	1468	0	1492	228	0
58	DZ	1468	0	1492	188	0
59	AA	161	0	0	0	0
59	AL	1	0	0	0	0
59	AS	1	0	0	0	0
59	AV	7	0	0	0	0
59	AW	4	0	0	0	0
59	AX	1	0	0	0	0
59	AY	1	0	0	0	0
59	B1	1	0	0	0	0
59	B5	2	0	0	0	0
59	BA	357	0	0	0	0
59	BB	4	0	0	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
59	BD	2	0	0	0	0
59	BF	2	0	0	0	0
59	BG	1	0	0	0	0
59	BT	1	0	0	0	0
59	BX	1	0	0	0	0
59	BY	1	0	0	0	0
59	CA	155	0	0	0	0
59	CD	1	0	0	0	0
59	CL	2	0	0	0	0
59	CN	1	0	0	0	0
59	CS	1	0	0	0	0
59	CV	7	0	0	0	0
59	CW	4	0	0	0	0
59	CX	1	0	0	0	0
59	D1	1	0	0	0	0
59	D5	2	0	0	0	0
59	DA	359	0	0	0	0
59	DB	4	0	0	0	0
59	DD	1	0	0	0	0
59	DE	1	0	0	0	0
59	DF	1	0	0	0	0
59	DG	1	0	0	0	0
59	DH	1	0	0	0	0
59	DP	1	0	0	0	0
59	DS	1	0	0	0	0
59	DX	1	0	0	0	0
60	AD	1	0	0	0	0
60	AN	1	0	0	0	0
60	B9	1	0	0	0	0
60	CD	1	0	0	0	0
60	CN	1	0	0	0	0
60	D9	1	0	0	0	0
61	AV	1	0	0	0	0
61	AY	1	0	0	0	0
61	BA	1	0	0	1	0
All	All	305067	0	208379	18089	0

The all-atom clashscore is defined as the number of clashes found per 1000 atoms (including hydrogen atoms). The all-atom clashscore for this structure is 35.

All (18089) close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:CY:303:ARG:HH22	35:DA:1914:C:C1'	1.34	1.39
24:CY:303:ARG:NH2	35:DA:1914:C:H1'	1.33	1.39
31:D6:41:PRO:HD3	31:D6:46:HIS:CB	1.55	1.36
31:D6:46:HIS:CA	31:D6:47:THR:HG23	1.58	1.33
35:DA:1899:G:N2	35:DA:1902:C:H41	1.26	1.32
31:D6:46:HIS:HA	31:D6:47:THR:CG2	1.58	1.30
35:BA:1899:G:N2	35:BA:1902:C:H41	1.29	1.30
31:D6:41:PRO:CD	31:D6:46:HIS:HB3	1.60	1.28
31:D6:41:PRO:HD2	31:D6:46:HIS:N	1.46	1.26
31:D6:14:THR:O	31:D6:49:HIS:HA	1.05	1.22
31:D6:46:HIS:HB2	31:D6:47:THR:O	1.34	1.22
24:AY:302:VAL:O	24:AY:303:ARG:HG3	1.34	1.20
31:D6:46:HIS:HA	31:D6:47:THR:CB	1.66	1.20
36:BB:80:U:H2'	36:BB:81:G:H21	1.03	1.20
31:D6:14:THR:O	31:D6:49:HIS:CA	1.88	1.20
35:BA:1590:U:H2'	35:BA:1591:G:H5''	1.23	1.18
31:D6:41:PRO:CD	31:D6:46:HIS:CA	2.19	1.18
52:DT:13:ARG:CZ	52:DT:13:ARG:HA	1.73	1.18
52:DT:25:GLY:HA2	52:DT:92:GLY:HA3	1.18	1.17
1:AA:1442(A):G:H3'	1:AA:1442(B):A:H5''	1.19	1.17
35:BA:612:C:H2'	35:BA:613:G:H5''	1.18	1.16
30:B5:55:ARG:HD3	30:B5:56:LYS:H	1.09	1.16
4:CD:128:VAL:HG12	4:CD:129:ASN:H	1.08	1.16
52:BT:13:ARG:HA	52:BT:13:ARG:CZ	1.74	1.16
54:BV:19:LYS:HG2	54:BV:94:LEU:HB2	1.21	1.15
57:BY:10:GLY:HA2	57:BY:27:VAL:HG13	1.27	1.15
22:CV:72:C:H2'	22:CV:73:A:H5''	1.24	1.15
35:DA:1845:G:H2'	35:DA:1846:G:H5''	1.22	1.15
31:D6:45:LYS:CG	35:DA:2371:G:H4'	1.77	1.14
57:DY:76:CYS:SG	57:DY:77:PRO:HD2	1.87	1.14
22:AW:70:G:H2'	22:AW:71:G:H5''	1.15	1.14
40:BF:24:LEU:HB3	40:BF:25:PRO:HD2	1.30	1.14
35:DA:612:C:H2'	35:DA:613:G:H5''	1.20	1.14
57:DY:10:GLY:HA2	57:DY:27:VAL:HG13	1.23	1.13
33:B8:25:MET:HG3	48:BP:64:LYS:HB3	1.19	1.13
35:BA:1845:G:H2'	35:BA:1846:G:H5''	1.21	1.13
35:DA:1798:U:H5'	38:DD:259:THR:HG22	1.28	1.13
31:D6:40:CYS:HA	31:D6:46:HIS:HB3	1.22	1.13
4:CD:86:LYS:HE3	4:CD:87:GLY:H	1.00	1.12
35:DA:1747(A):G:H2'	35:DA:1748:G:H5''	1.20	1.12
33:D8:62:LEU:HD13	35:DA:242:G:H5''	1.30	1.12
33:D8:25:MET:HG3	48:DP:64:LYS:HB3	1.16	1.12

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:2801(A):A:H4'	35:DA:2802:G:H5'	1.15	1.12
28:D3:8:LEU:HD13	28:D3:31:LEU:HD23	1.29	1.11
35:DA:1590:U:H2'	35:DA:1591:G:H5''	1.24	1.11
28:B3:8:LEU:HD13	28:B3:31:LEU:HD23	1.33	1.11
42:DH:41:MET:HG3	42:DH:42:ARG:H	0.99	1.10
36:DB:80:U:H2'	36:DB:81:G:H21	1.01	1.10
58:DZ:81:ARG:HH11	58:DZ:81:ARG:HB3	1.16	1.10
4:AD:86:LYS:HE3	4:AD:87:GLY:H	0.99	1.10
35:BA:612:C:C2'	35:BA:613:G:H5''	1.80	1.10
33:B8:62:LEU:HD13	35:BA:242:G:H5''	1.23	1.10
35:DA:1484:G:H2'	35:DA:1485:G:H5''	1.31	1.10
35:BA:1747(A):G:H2'	35:BA:1748:G:H5''	1.21	1.09
24:CY:111:HIS:NE2	24:CY:214:VAL:HB	1.67	1.09
54:DV:19:LYS:HG2	54:DV:94:LEU:HB2	1.23	1.09
35:BA:1798:U:H5'	38:BD:259:THR:HG22	1.27	1.09
42:BH:41:MET:HG3	42:BH:42:ARG:H	1.00	1.09
35:DA:612:C:C2'	35:DA:613:G:H5''	1.81	1.09
35:DA:154(A):C:H3'	35:DA:155:U:H5''	1.28	1.09
4:AD:128:VAL:HG12	4:AD:129:ASN:H	1.07	1.09
35:BA:1484:G:H2'	35:BA:1485:G:H5''	1.32	1.09
31:D6:41:PRO:HD3	31:D6:47:THR:OG1	1.51	1.09
31:D6:41:PRO:HD3	31:D6:46:HIS:HB3	1.09	1.08
42:BH:13:LYS:HA	42:BH:13:LYS:HE2	1.34	1.08
40:DF:24:LEU:HB3	40:DF:25:PRO:HD2	1.30	1.08
45:DK:77:LEU:HD13	45:DK:107:ILE:HD11	1.35	1.08
52:BT:25:GLY:HA2	52:BT:92:GLY:HA3	1.19	1.08
38:DD:44:ASN:HB3	38:DD:49:ILE:HA	1.32	1.08
31:D6:41:PRO:CD	31:D6:46:HIS:CB	2.20	1.07
57:BY:76:CYS:SG	57:BY:77:PRO:HD2	1.95	1.07
22:AW:39:U:H2'	22:AW:40:C:H5''	1.35	1.07
27:B2:11:GLU:HA	27:B2:14:ARG:HB2	1.36	1.07
40:DF:132:VAL:HG22	40:DF:133:ASN:H	1.19	1.07
35:BA:2491:U:H5'	35:BA:2570:G:H5''	1.34	1.06
40:BF:3:GLU:HA	40:BF:24:LEU:HG	1.34	1.06
58:BZ:166:SER:HB2	58:BZ:168:GLU:N	1.69	1.06
35:BA:1887:C:H2'	35:BA:1888:G:H5''	1.36	1.06
35:BA:2801(A):A:H4'	35:BA:2802:G:H5'	1.15	1.06
31:D6:15:GLU:HG3	31:D6:47:THR:HB	1.14	1.06
57:DY:95:LYS:HG3	57:DY:100:ALA:HA	1.35	1.06
38:BD:44:ASN:HB3	38:BD:49:ILE:HA	1.33	1.06
31:D6:15:GLU:CG	31:D6:47:THR:HB	1.83	1.06

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:1108:U:H2'	35:BA:1109:C:H5''	1.38	1.06
31:D6:41:PRO:HD2	31:D6:46:HIS:CA	1.82	1.06
40:DF:3:GLU:HA	40:DF:24:LEU:HG	1.33	1.06
48:DP:7:ARG:HA	48:DP:7:ARG:NH1	1.69	1.06
13:AM:88:ARG:HA	13:AM:98:VAL:HG11	1.38	1.06
35:BA:154(A):C:H3'	35:BA:155:U:H5''	1.29	1.06
40:BF:132:VAL:HG22	40:BF:133:ASN:H	1.17	1.06
2:CB:172:ILE:H	2:CB:172:ILE:HD12	1.20	1.06
58:DZ:153:SER:H	58:DZ:167:PRO:HB2	1.21	1.06
35:BA:1798:U:H5'	38:BD:259:THR:CG2	1.86	1.05
2:AB:172:ILE:HD12	2:AB:172:ILE:H	1.18	1.05
31:D6:46:HIS:HA	31:D6:47:THR:OG1	1.56	1.05
30:D5:55:ARG:HD3	30:D5:56:LYS:H	1.09	1.05
35:DA:1108:U:H2'	35:DA:1109:C:H5''	1.35	1.05
13:CM:88:ARG:HA	13:CM:98:VAL:HG11	1.37	1.05
48:BP:7:ARG:HA	48:BP:7:ARG:NH1	1.70	1.05
42:DH:13:LYS:HA	42:DH:13:LYS:HE2	1.33	1.05
38:BD:79:VAL:HG21	38:BD:111:LEU:HD11	1.39	1.05
51:BS:13:ARG:HG3	51:BS:14:VAL:H	1.20	1.05
22:AW:70:G:C2'	22:AW:71:G:H5''	1.86	1.04
48:DP:144:GLU:H	48:DP:145:PRO:HD3	1.22	1.04
57:BY:95:LYS:HG3	57:BY:100:ALA:HA	1.35	1.04
19:CS:6:LYS:HG2	19:CS:7:LYS:HE3	1.38	1.04
35:DA:1301:A:O2'	35:DA:1302:A:H2'	1.57	1.04
35:BA:1590:U:C2'	35:BA:1591:G:H5''	1.86	1.04
35:DA:1887:C:H2'	35:DA:1888:G:H5''	1.37	1.04
35:DA:2491:U:H5'	35:DA:2570:G:H5''	1.33	1.04
24:CY:209:GLU:OE2	24:CY:303:ARG:CD	2.06	1.04
35:DA:2661:G:H5''	35:DA:2662:A:H2	1.17	1.04
51:DS:13:ARG:HG3	51:DS:14:VAL:H	1.18	1.04
24:AY:303:ARG:H	24:AY:304:PRO:HD3	1.22	1.04
22:CW:16:U:H3'	22:CW:17:C:H5'	1.34	1.03
41:DG:64:THR:HG23	41:DG:66:GLN:H	1.23	1.03
24:CY:238:GLY:HA3	24:CY:242:VAL:HB	1.38	1.03
5:CE:102:ALA:HB1	5:CE:106:PRO:HG2	1.41	1.03
24:AY:115:ASN:HD22	24:AY:170:LEU:HD11	1.21	1.03
35:BA:1301:A:O2'	35:BA:1302:A:H2'	1.59	1.03
41:DG:115:ARG:HG3	41:DG:116:ASP:H	1.21	1.03
31:D6:41:PRO:CD	31:D6:47:THR:OG1	2.06	1.03
1:AA:979:C:H3'	1:AA:980:C:H5''	1.38	1.03
35:DA:1798:U:H5'	38:DD:259:THR:CG2	1.89	1.02

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:AF:30:LEU:HD23	6:AF:30:LEU:H	1.24	1.02
45:BK:77:LEU:HD13	45:BK:107:ILE:HD11	1.36	1.02
58:BZ:42:VAL:HG13	58:BZ:43:GLU:H	1.19	1.02
38:BD:24:ILE:HG23	38:BD:25:THR:H	1.24	1.02
31:D6:45:LYS:HG3	35:DA:2371:G:C4'	1.89	1.02
35:DA:1747(A):G:C2'	35:DA:1748:G:H5''	1.88	1.02
38:DD:79:VAL:HG21	38:DD:111:LEU:HD11	1.40	1.02
54:BV:62:LEU:HD21	54:BV:95:LEU:HB2	1.40	1.02
51:DS:87:PHE:HB2	51:DS:106:ARG:HE	1.25	1.02
35:BA:1747(A):G:C2'	35:BA:1748:G:H5''	1.87	1.02
24:CY:287:GLU:HA	24:CY:290:LYS:HE3	1.42	1.02
31:D6:40:CYS:HA	31:D6:46:HIS:CB	1.90	1.02
19:AS:6:LYS:HG2	19:AS:7:LYS:HE3	1.40	1.02
52:BT:129:ARG:CZ	52:BT:131:ALA:HB3	1.90	1.02
35:DA:1590:U:C2'	35:DA:1591:G:H5''	1.88	1.02
1:CA:979:C:H3'	1:CA:980:C:H5''	1.38	1.01
54:DV:62:LEU:HD21	54:DV:95:LEU:HB2	1.40	1.01
1:AA:1256:A:H61	1:AA:1278:U:H1'	1.26	1.01
22:AW:16:U:H3'	22:AW:17:C:H5'	1.39	1.01
24:AY:241:GLY:HA2	24:AY:244:THR:HG22	1.42	1.01
35:BA:2661:G:H5''	35:BA:2662:A:H2	1.20	1.01
35:DA:1779:U:H5	35:DA:1784:A:N7	1.58	1.01
48:DP:146:VAL:HG22	48:DP:147:LEU:H	1.22	1.01
2:AB:71:VAL:HG13	2:AB:93:VAL:HB	1.40	1.01
35:BA:2876:G:H4'	52:BT:3:ARG:HE	1.23	1.01
35:DA:654(T):C:H2'	35:DA:654(U):A:H5'	1.42	1.01
36:BB:20:C:H2'	36:BB:21:G:H5''	1.40	1.00
36:DB:20:C:H2'	36:DB:21:G:H5''	1.41	1.00
1:AA:975:A:H4'	1:AA:976:G:H5''	1.43	1.00
3:AC:150:LYS:HB3	3:AC:201:TYR:HB2	1.43	1.00
57:BY:28:LYS:HA	57:BY:38:ILE:HG22	1.42	1.00
35:DA:2876:G:H4'	52:DT:3:ARG:HE	1.25	1.00
35:BA:1494:A:H2'	35:BA:1495:A:H5''	1.41	1.00
52:DT:85:LYS:NZ	52:DT:85:LYS:HB3	1.74	1.00
41:BG:152:LEU:HD23	41:BG:152:LEU:H	1.26	1.00
35:DA:1494:A:H2'	35:DA:1495:A:H5''	1.40	1.00
48:BP:146:VAL:HG22	48:BP:147:LEU:H	1.24	1.00
29:B4:24:THR:HG21	41:BG:104:GLU:HG2	1.44	1.00
24:AY:188:ARG:HB2	24:AY:310:GLN:HG2	1.44	1.00
35:BA:1884:A:H2'	35:BA:1885:A:H5''	1.44	1.00
48:BP:144:GLU:H	48:BP:145:PRO:HD3	1.23	1.00

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:975:A:H4'	1:CA:976:G:H5''	1.43	1.00
57:DY:28:LYS:HA	57:DY:38:ILE:HG22	1.38	1.00
58:DZ:151:HIS:HA	58:DZ:171:ILE:HG12	1.42	1.00
2:CB:71:VAL:HG13	2:CB:93:VAL:HB	1.42	1.00
35:DA:1568:G:H5''	38:DD:61:LEU:HD23	1.43	1.00
49:BQ:108:GLY:HA3	58:BZ:116:VAL:HG21	1.44	1.00
57:BY:97:ARG:NH1	57:BY:97:ARG:HB2	1.76	1.00
6:CF:30:LEU:HD23	6:CF:30:LEU:H	1.27	0.99
10:CJ:50:ILE:HD13	10:CJ:50:ILE:H	1.26	0.99
35:BA:1779:U:H5	35:BA:1784:A:N7	1.60	0.99
4:CD:18:LYS:HB2	4:CD:33:MET:HG2	1.42	0.99
31:D6:15:GLU:HG3	31:D6:47:THR:CB	1.92	0.99
31:D6:41:PRO:HD2	31:D6:46:HIS:H	1.05	0.99
32:D7:8:ASN:ND2	32:D7:11:LYS:H	1.59	0.99
22:AW:76:8AN:H4'	22:AW:77:PHA:O	1.60	0.99
54:BV:18:LEU:HD13	54:BV:19:LYS:H	1.25	0.99
3:CC:150:LYS:HB3	3:CC:201:TYR:HB2	1.44	0.99
58:DZ:20:ARG:HH11	58:DZ:20:ARG:HB2	1.27	0.99
32:B7:8:ASN:ND2	32:B7:11:LYS:H	1.60	0.99
54:DV:15:GLU:HB3	54:DV:16:PRO:HD2	1.45	0.99
31:D6:41:PRO:HG3	31:D6:47:THR:CG2	1.92	0.99
52:DT:129:ARG:CZ	52:DT:131:ALA:HB3	1.92	0.99
57:DY:97:ARG:NH1	57:DY:97:ARG:HB2	1.77	0.99
35:DA:676:A:H8	35:DA:2069:G:H21	1.11	0.99
43:DI:92:VAL:HG13	43:DI:120:ILE:HB	1.44	0.99
10:AJ:50:ILE:H	10:AJ:50:ILE:HD13	1.26	0.99
35:DA:1899:G:H22	35:DA:1902:C:H41	1.08	0.99
24:AY:302:VAL:O	24:AY:303:ARG:CG	2.10	0.99
35:BA:2523:G:H2'	35:BA:2524:G:H5''	1.43	0.99
35:BA:654(T):C:H2'	35:BA:654(U):A:H5'	1.43	0.99
35:DA:1899:G:N2	35:DA:1902:C:N4	2.10	0.99
35:DA:2660:A:H5'	35:DA:2661:G:N2	1.78	0.99
40:DF:103:LYS:HA	40:DF:106:ARG:HG3	1.41	0.99
13:AM:124:PRO:HD2	24:AY:163:GLY:H	1.25	0.99
35:BA:1826:G:H4'	38:BD:242:ARG:HH21	1.27	0.99
55:BW:92:ARG:HH11	55:BW:92:ARG:HB3	1.27	0.99
31:D6:41:PRO:CG	31:D6:47:THR:OG1	2.10	0.99
51:DS:97:ARG:HH21	51:DS:98:VAL:HA	1.26	0.99
22:CW:39:U:H2'	22:CW:40:C:H5''	1.44	0.98
54:DV:18:LEU:HD13	54:DV:19:LYS:H	1.25	0.98
35:DA:2523:G:H2'	35:DA:2524:G:H5''	1.45	0.98

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
52:DT:28:VAL:HG21	52:DT:46:GLU:HG3	1.45	0.98
31:D6:41:PRO:HG3	31:D6:47:THR:CB	1.92	0.98
35:DA:1540:U:H3'	35:DA:1541:G:H3'	1.45	0.98
52:BT:3:ARG:HB2	52:BT:6:LEU:HB3	1.45	0.98
1:CA:1107:C:H2'	1:CA:1108:G:H5''	1.44	0.98
2:AB:22:LYS:HE2	2:AB:22:LYS:HA	1.46	0.98
3:CC:14:ILE:HG12	3:CC:15:THR:H	1.27	0.98
51:BS:87:PHE:HB2	51:BS:106:ARG:HE	1.26	0.98
39:DE:77:ILE:HG22	39:DE:78:LEU:H	1.24	0.98
41:BG:96:ARG:HG2	41:BG:97:ASP:H	1.23	0.98
49:BQ:16:ARG:HB3	49:BQ:18:LYS:HZ3	1.29	0.98
35:BA:2660:A:H5'	35:BA:2661:G:N2	1.79	0.98
39:BE:77:ILE:HG22	39:BE:78:LEU:H	1.27	0.98
1:AA:137:C:H42	1:AA:226:G:H1	1.11	0.98
35:DA:1173:G:H3'	35:DA:1174:A:H5'	1.43	0.98
40:DF:53:THR:HG23	40:DF:55:GLY:H	1.29	0.97
24:CY:252:VAL:HG13	24:CY:259:THR:HG22	1.46	0.97
35:DA:2656:U:H3	35:DA:2665:A:H2	1.10	0.97
4:AD:86:LYS:HE3	4:AD:87:GLY:N	1.79	0.97
58:BZ:69:THR:HG22	58:BZ:90:VAL:HA	1.44	0.97
27:D2:68:ARG:O	27:D2:69:ARG:HG3	1.64	0.97
35:BA:141:A:H8	35:BA:1408:C:O2'	1.44	0.97
31:D6:41:PRO:HG3	31:D6:47:THR:OG1	1.64	0.97
35:DA:141:A:H8	35:DA:1408:C:O2'	1.45	0.97
43:DI:9:LEU:HB2	43:DI:12:LEU:O	1.64	0.97
1:CA:1256:A:H61	1:CA:1278:U:H1'	1.26	0.97
35:BA:1845:G:C2'	35:BA:1846:G:H5''	1.95	0.97
42:BH:41:MET:CG	42:BH:42:ARG:H	1.76	0.97
46:BN:2:LYS:NZ	53:BU:95:LEU:HD21	1.79	0.97
42:DH:41:MET:CG	42:DH:42:ARG:H	1.75	0.97
1:AA:1107:C:H2'	1:AA:1108:G:H5''	1.47	0.96
35:DA:272(J):C:H42	35:DA:363:G:H1	1.08	0.96
58:DZ:151:HIS:HB2	58:DZ:170:THR:HA	1.44	0.96
55:DW:92:ARG:HH11	55:DW:92:ARG:HB3	1.28	0.96
1:AA:1442(A):G:H3'	1:AA:1442(B):A:C5'	1.93	0.96
1:CA:1116:C:H2'	1:CA:1117:G:H5''	1.47	0.96
35:DA:145:G:H2'	35:DA:146:G:H5''	1.48	0.96
35:BA:145:G:H2'	35:BA:146:G:H5''	1.48	0.96
39:BE:111:ARG:HA	50:BR:2:ARG:HG2	1.47	0.96
1:CA:939:G:H5''	7:CG:102:ARG:HH12	1.30	0.96
40:BF:67:GLN:HG3	40:BF:67:GLN:O	1.66	0.96

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:BK:111:LYS:HD2	45:BK:127:ILE:HD11	1.47	0.96
40:BF:103:LYS:HA	40:BF:106:ARG:HG3	1.46	0.96
52:BT:85:LYS:NZ	52:BT:85:LYS:HB3	1.78	0.96
31:D6:48:VAL:HG23	31:D6:49:HIS:H	1.31	0.96
2:AB:168:THR:HG23	2:AB:192:SER:OG	1.66	0.96
35:BA:1173:G:H3'	35:BA:1174:A:H5'	1.45	0.96
4:CD:176:LEU:HG	4:CD:177:ASP:H	1.29	0.96
46:DN:2:LYS:NZ	53:DU:95:LEU:HD21	1.80	0.96
1:CA:1128:C:H1'	1:CA:1146:A:H61	1.31	0.95
4:CD:86:LYS:HE3	4:CD:87:GLY:N	1.80	0.95
35:DA:2068:U:N3	35:DA:2430:A:H2	1.64	0.95
48:DP:62:LEU:H	48:DP:62:LEU:CD2	1.79	0.95
57:DY:97:ARG:HB2	57:DY:97:ARG:HH11	1.30	0.95
5:AE:102:ALA:HB1	5:AE:106:PRO:HG2	1.44	0.95
4:AD:176:LEU:HG	4:AD:177:ASP:H	1.28	0.95
35:BA:676:A:H8	35:BA:2069:G:H21	1.11	0.95
45:DK:111:LYS:HD2	45:DK:127:ILE:HD11	1.48	0.95
58:DZ:40:ASP:OD1	58:DZ:42:VAL:HG12	1.65	0.95
35:BA:1540:U:H3'	35:BA:1541:G:H3'	1.44	0.95
31:D6:48:VAL:HG23	31:D6:49:HIS:N	1.80	0.95
35:DA:1826:G:H4'	38:DD:242:ARG:HH21	1.27	0.95
51:BS:74:ALA:HB1	51:BS:103:GLU:HB2	1.49	0.95
13:CM:124:PRO:HD2	24:CY:163:GLY:H	1.26	0.95
31:D6:41:PRO:HG3	31:D6:47:THR:HG21	1.46	0.95
35:DA:1845:G:C2'	35:DA:1846:G:H5''	1.95	0.95
39:DE:111:ARG:HA	50:DR:2:ARG:HG2	1.48	0.95
41:BG:52:ILE:HD13	41:BG:52:ILE:H	1.30	0.95
22:CW:50:U:H4'	22:CW:65:G:H22	1.30	0.95
52:DT:3:ARG:HB2	52:DT:6:LEU:HB3	1.47	0.95
1:AA:673:G:H2'	1:AA:674:G:C8	2.02	0.95
35:BA:1689:A:H62	35:BA:1698:A:H2	0.95	0.95
3:AC:14:ILE:HG12	3:AC:15:THR:H	1.30	0.95
35:BA:2394:C:OP1	48:BP:63:PRO:HD2	1.67	0.95
36:BB:7:G:H3'	36:BB:8:U:H5''	1.48	0.95
52:BT:28:VAL:HG21	52:BT:46:GLU:HG3	1.45	0.95
49:DQ:16:ARG:HB3	49:DQ:18:LYS:HZ3	1.31	0.95
1:AA:1116:C:H2'	1:AA:1117:G:H5''	1.46	0.95
24:CY:61:THR:HG21	24:CY:101:LEU:HD13	1.45	0.95
54:BV:15:GLU:HB3	54:BV:16:PRO:HD2	1.48	0.94
35:DA:1884:A:H2'	35:DA:1885:A:H5''	1.45	0.94
35:BA:1899:G:N2	35:BA:1902:C:N4	2.14	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:2068:U:N3	35:BA:2430:A:H2	1.64	0.94
45:BK:21:PRO:HB2	45:BK:22:PRO:HD3	1.49	0.94
31:D6:28:ARG:HA	31:D6:32:ASN:HD22	1.32	0.94
35:DA:2394:C:OP1	48:DP:63:PRO:HD2	1.65	0.94
58:DZ:69:THR:HG22	58:DZ:90:VAL:HA	1.44	0.94
51:DS:74:ALA:HB1	51:DS:103:GLU:HB2	1.46	0.94
58:DZ:165:VAL:HG12	58:DZ:167:PRO:HA	1.48	0.94
1:CA:673:G:H2'	1:CA:674:G:C8	2.02	0.94
2:CB:168:THR:HG23	2:CB:192:SER:OG	1.68	0.94
38:DD:24:ILE:HG23	38:DD:25:THR:H	1.31	0.94
51:BS:97:ARG:HH21	51:BS:98:VAL:HA	1.32	0.94
31:D6:45:LYS:HG3	35:DA:2371:G:H4'	0.94	0.94
43:DI:133:HIS:HB2	43:DI:134:PRO:CD	1.97	0.94
4:AD:18:LYS:HB2	4:AD:33:MET:HG2	1.45	0.94
24:AY:238:GLY:HA3	24:AY:242:VAL:HB	1.48	0.94
40:BF:53:THR:HG23	40:BF:55:GLY:H	1.30	0.94
35:DA:1689:A:H62	35:DA:1698:A:H2	0.94	0.94
40:DF:67:GLN:O	40:DF:67:GLN:HG3	1.66	0.94
2:AB:185:ILE:HG22	2:AB:199:TYR:HB2	1.50	0.94
1:AA:192:U:H4'	20:AT:103:GLY:H	1.33	0.94
35:DA:1210:A:H5'	35:DA:1210:A:H8	1.33	0.94
42:DH:41:MET:HG3	42:DH:42:ARG:N	1.83	0.94
43:BI:131:LYS:HA	43:BI:135:GLU:HG2	1.50	0.94
52:BT:65:LYS:HZ1	52:BT:66:VAL:H	1.12	0.94
1:AA:1128:C:H1'	1:AA:1146:A:H61	1.31	0.94
52:BT:27:THR:O	52:BT:28:VAL:HG23	1.68	0.94
2:CB:185:ILE:HG22	2:CB:199:TYR:HB2	1.49	0.94
35:DA:1043:C:HO2'	35:DA:1044:G:H8	1.06	0.94
24:AY:326:THR:HG23	24:AY:328:LEU:H	1.33	0.94
2:CB:22:LYS:HE2	2:CB:22:LYS:HA	1.46	0.94
35:DA:2661:G:H5''	35:DA:2662:A:C2	2.02	0.94
26:B1:86:SER:HB2	26:B1:89:GLU:HB2	1.50	0.93
31:D6:46:HIS:CA	31:D6:47:THR:CG2	2.30	0.93
36:DB:80:U:H2'	36:DB:81:G:N2	1.83	0.93
41:DG:118:ARG:H	41:DG:181:ARG:NH2	1.65	0.93
41:DG:118:ARG:HD2	41:DG:181:ARG:HD3	1.48	0.93
51:DS:30:ARG:HH22	51:DS:62:LYS:HB3	1.33	0.93
52:DT:27:THR:O	52:DT:28:VAL:HG23	1.68	0.93
24:AY:241:GLY:HA3	61:BA:3401:HOH:O	1.68	0.93
19:CS:10:PHE:HZ	19:CS:70:LYS:HZ3	1.10	0.93
35:DA:272(J):C:H3'	35:DA:274:G:H5''	1.51	0.93

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:CF:91:VAL:HG11	18:CR:72:ARG:HH12	1.34	0.93
35:BA:1210:A:H8	35:BA:1210:A:H5'	1.32	0.93
43:DI:112:LYS:HD2	43:DI:112:LYS:H	1.32	0.93
8:CH:87:SER:HB2	8:CH:93:VAL:HB	1.49	0.93
11:CK:99:GLN:HG2	11:CK:105:VAL:HG11	1.50	0.93
15:CO:33:THR:HG21	15:CO:85:LEU:HD21	1.50	0.93
35:BA:272(J):C:H3'	35:BA:274:G:H5''	1.49	0.93
1:AA:939:G:H5''	7:AG:102:ARG:HH12	1.32	0.93
35:BA:1114:G:H3'	35:BA:1115:G:H5''	1.49	0.93
45:BK:4:VAL:HG22	45:BK:5:VAL:H	1.33	0.93
57:BY:97:ARG:HH11	57:BY:97:ARG:HB2	1.29	0.93
30:D5:4:HIS:HB3	30:D5:5:PRO:CD	1.99	0.93
57:DY:17:SER:HB2	57:DY:71:LYS:HE2	1.50	0.93
58:DZ:49:ARG:HH11	58:DZ:49:ARG:HG2	1.32	0.93
52:DT:100:TYR:HD2	52:DT:103:ARG:HH21	1.17	0.93
2:CB:178:ARG:HB2	2:CB:178:ARG:HH11	1.34	0.92
24:CY:323:ASP:HB3	24:CY:326:THR:HG22	1.49	0.92
15:AO:33:THR:HG21	15:AO:85:LEU:HD21	1.50	0.92
31:B6:28:ARG:HA	31:B6:32:ASN:HD22	1.31	0.92
35:DA:673:C:H5'	35:DA:673:C:H6	1.34	0.92
35:DA:904:C:H5'	35:DA:904:C:H6	1.33	0.92
48:BP:59:LEU:HA	48:BP:61:ARG:NH1	1.84	0.92
22:CV:41:C:H3'	22:CV:42:C:H5''	1.49	0.92
35:BA:2645:G:H3'	35:BA:2646:C:H5'	1.50	0.92
48:BP:47:ASP:HB3	48:BP:48:PRO:C	1.89	0.92
41:DG:85:GLY:C	41:DG:87:PRO:HD2	1.89	0.92
24:AY:211:ILE:HG21	24:AY:299:ARG:HG2	1.52	0.92
35:BA:2656:U:H3	35:BA:2665:A:H2	1.11	0.92
52:BT:32:TYR:CD2	52:BT:81:PRO:HB2	2.05	0.92
36:DB:7:G:H3'	36:DB:8:U:H5''	1.48	0.92
49:BQ:132:VAL:HG11	58:BZ:81:ARG:HE	1.34	0.92
51:BS:34:HIS:HB3	51:BS:53:SER:HB3	1.49	0.92
1:CA:137:C:H42	1:CA:226:G:H1	1.10	0.92
8:AH:87:SER:HB2	8:AH:93:VAL:HB	1.52	0.92
1:CA:266:G:H5''	1:CA:268:C:H41	1.35	0.92
35:DA:1114:G:H3'	35:DA:1115:G:H5''	1.49	0.92
35:DA:2245:U:H5'	35:DA:2246:G:H5'	1.52	0.92
56:BX:12:VAL:HB	56:BX:17:ALA:HB1	1.50	0.92
1:CA:192:U:H4'	20:CT:103:GLY:H	1.33	0.92
24:CY:182:PRO:HG3	24:CY:345:ILE:HG23	1.52	0.92
41:DG:82:LEU:HD23	41:DG:83:ARG:H	1.32	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
52:DT:65:LYS:HZ1	52:DT:66:VAL:H	1.14	0.92
36:BB:80:U:H2'	36:BB:81:G:N2	1.85	0.92
42:BH:41:MET:HG3	42:BH:42:ARG:N	1.85	0.92
43:BI:62:LYS:HE2	43:BI:134:PRO:HD2	1.48	0.92
46:DN:133:GLN:HG2	46:DN:134:ARG:H	1.35	0.92
56:DX:12:VAL:HB	56:DX:17:ALA:HB1	1.52	0.92
58:DZ:16:SER:O	58:DZ:20:ARG:HG2	1.70	0.92
35:DA:404:C:H4'	35:DA:405:U:H5'	1.52	0.91
45:DK:21:PRO:HB2	45:DK:22:PRO:HD3	1.49	0.91
35:BA:904:C:H5'	35:BA:904:C:H6	1.33	0.91
51:DS:34:HIS:HB3	51:DS:53:SER:HB3	1.48	0.91
51:DS:97:ARG:NH2	51:DS:98:VAL:HA	1.84	0.91
3:CC:70:VAL:HG12	3:CC:72:LYS:H	1.34	0.91
13:CM:125:ARG:HG3	24:CY:160:PRO:HD2	1.50	0.91
52:DT:32:TYR:CD2	52:DT:81:PRO:HB2	2.05	0.91
29:B4:20:ASN:HD22	29:B4:21:VAL:H	1.13	0.91
16:CP:22:THR:HA	16:CP:33:ILE:HG12	1.53	0.91
42:DH:41:MET:SD	42:DH:43:VAL:HG13	2.09	0.91
6:AF:91:VAL:HG11	18:AR:72:ARG:HH12	1.31	0.91
30:B5:4:HIS:HB3	30:B5:5:PRO:CD	1.99	0.91
35:BA:1494:A:C2'	35:BA:1495:A:H5''	1.99	0.91
1:CA:15:G:H4'	5:CE:24:ARG:HH12	1.34	0.91
2:CB:231:GLU:HB2	2:CB:232:PRO:HD2	1.52	0.91
35:DA:2645:G:H3'	35:DA:2646:C:H5'	1.51	0.91
48:DP:47:ASP:HB3	48:DP:48:PRO:C	1.89	0.91
35:DA:1494:A:C2'	35:DA:1495:A:H5''	1.99	0.91
35:DA:2833:G:H3'	35:DA:2834:G:H5'	1.50	0.91
1:AA:1505:G:H5''	1:AA:1506:U:H5''	1.52	0.91
35:BA:2476:A:H2'	35:BA:2477:C:H5''	1.52	0.91
35:BA:272(J):C:H42	35:BA:363:G:H1	1.09	0.91
57:BY:17:SER:HB2	57:BY:71:LYS:HE2	1.53	0.91
13:CM:126:LYS:N	24:CY:162:ALA:H	1.68	0.91
35:DA:914:C:H2'	35:DA:915:C:H5'	1.52	0.91
48:DP:59:LEU:HA	48:DP:61:ARG:HH11	1.36	0.91
35:DA:279:C:H2'	35:DA:280:C:H5''	1.52	0.91
58:DZ:5:LEU:HD21	58:DZ:39:VAL:HG21	1.50	0.91
12:AL:18:VAL:HG23	12:AL:19:ARG:H	1.34	0.91
35:BA:2661:G:H5''	35:BA:2662:A:C2	2.05	0.91
51:BS:106:ARG:O	51:BS:106:ARG:HD2	1.70	0.91
35:DA:154(A):C:H3'	35:DA:155:U:C5'	2.01	0.91
51:DS:106:ARG:HD2	51:DS:106:ARG:O	1.70	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:AJ:3:LYS:HD2	10:AJ:77:PRO:HG3	1.54	0.90
35:BA:1063:G:H4'	45:BK:134:MET:HG2	1.53	0.90
29:D4:20:ASN:HD22	29:D4:21:VAL:H	1.15	0.90
45:DK:4:VAL:HG22	45:DK:5:VAL:H	1.34	0.90
46:BN:133:GLN:HG2	46:BN:134:ARG:H	1.35	0.90
48:BP:62:LEU:CD2	48:BP:62:LEU:H	1.83	0.90
43:DI:88:ILE:HG22	43:DI:90:GLY:H	1.36	0.90
46:DN:13:TRP:O	46:DN:135:PRO:HD2	1.71	0.90
35:BA:2876:G:H4'	52:BT:3:ARG:NE	1.86	0.90
35:BA:404:C:H4'	35:BA:405:U:H5'	1.51	0.90
35:BA:997:G:OP1	53:BU:93:LYS:HD3	1.71	0.90
48:BP:59:LEU:HA	48:BP:61:ARG:HH11	1.36	0.90
51:BS:30:ARG:HH22	51:BS:62:LYS:HB3	1.33	0.90
4:CD:74:GLN:HA	4:CD:77:ASN:HD22	1.35	0.90
5:AE:76:ILE:HD11	5:AE:142:LEU:HD21	1.52	0.90
1:AA:473:G:H4'	16:AP:81:ARG:HH21	1.37	0.90
35:BA:1568:G:H5''	38:BD:61:LEU:HD23	1.51	0.90
35:BA:2833:G:H3'	35:BA:2834:G:H5'	1.52	0.90
57:BY:39:VAL:HG12	57:BY:40:GLU:H	1.36	0.90
31:D6:41:PRO:CD	31:D6:46:HIS:HA	1.98	0.90
52:DT:25:GLY:CA	52:DT:92:GLY:HA3	2.00	0.90
4:AD:74:GLN:HA	4:AD:77:ASN:HD22	1.35	0.90
35:BA:2103:C:H3'	35:BA:2104:G:H5''	1.53	0.90
57:BY:96:ILE:HG22	57:BY:97:ARG:H	1.37	0.90
58:BZ:134:PRO:HB2	58:BZ:137:ILE:HD11	1.51	0.90
24:CY:150:GLN:HE21	24:CY:172:LYS:NZ	1.69	0.90
35:DA:1170:G:H1	35:DA:1179:C:H42	1.17	0.90
52:DT:50:ILE:HD11	52:DT:102:ILE:HD11	1.52	0.90
1:AA:15:G:H4'	5:AE:24:ARG:HH12	1.35	0.90
16:AP:22:THR:HA	16:AP:33:ILE:HG12	1.54	0.90
25:B0:11:ARG:HB2	25:B0:11:ARG:HH11	1.35	0.90
35:BA:279:C:H2'	35:BA:280:C:H5''	1.53	0.90
25:D0:49:LYS:H	25:D0:80:HIS:HD1	1.14	0.90
57:DY:96:ILE:HG22	57:DY:97:ARG:H	1.34	0.90
27:B2:47:ASN:HD22	35:BA:94(A):G:H21	1.17	0.90
35:BA:1543:C:H3'	35:BA:1544:A:H5''	1.51	0.90
52:BT:25:GLY:CA	52:BT:92:GLY:HA3	2.01	0.90
57:BY:7:VAL:HB	57:BY:8:LYS:HD2	1.52	0.90
25:D0:11:ARG:HB2	25:D0:11:ARG:HH11	1.37	0.90
35:DA:1063:G:H4'	45:DK:134:MET:HG2	1.54	0.90
35:DA:1654:A:OP1	50:DR:3:HIS:HB2	1.72	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
53:BU:108:GLU:HG3	54:BV:44:LYS:HD3	1.52	0.90
47:BO:35:VAL:HG11	47:BO:103:ALA:HB3	1.52	0.90
10:CJ:3:LYS:HD2	10:CJ:77:PRO:HG3	1.54	0.90
38:DD:85:ASP:HB2	38:DD:92:ILE:HD12	1.54	0.90
9:AI:65:VAL:HG21	9:AI:73:GLN:HB3	1.53	0.90
11:AK:99:GLN:HG2	11:AK:105:VAL:HG11	1.52	0.90
13:AM:125:ARG:HG3	24:AY:160:PRO:HD2	1.54	0.90
35:BA:2833:G:H3'	35:BA:2834:G:C5'	2.02	0.90
35:BA:259:G:H21	35:BA:621:A:H8	1.19	0.90
35:BA:673:C:H6	35:BA:673:C:H5'	1.31	0.90
9:CI:28:VAL:HG22	9:CI:63:ILE:HB	1.52	0.90
35:DA:2103:C:H3'	35:DA:2104:G:H5''	1.53	0.90
48:DP:59:LEU:HA	48:DP:61:ARG:NH1	1.86	0.90
45:BK:112:MET:H	45:BK:113:PRO:CD	1.85	0.89
52:DT:89:VAL:HG11	52:DT:91:ARG:HE	1.37	0.89
35:BA:914:C:H2'	35:BA:915:C:H5'	1.52	0.89
46:BN:2:LYS:HZ2	53:BU:95:LEU:HD21	1.38	0.89
51:BS:97:ARG:NH2	51:BS:98:VAL:HA	1.87	0.89
19:CS:32:LYS:HA	19:CS:50:ALA:HB3	1.51	0.89
25:B0:11:ARG:HB2	25:B0:11:ARG:NH1	1.87	0.89
38:BD:10:THR:HG23	38:BD:13:ARG:HB3	1.54	0.89
51:BS:27:SER:HA	51:BS:88:ASP:HB3	1.55	0.89
13:CM:78:ILE:HA	13:CM:81:LEU:HD12	1.54	0.89
22:CW:25:C:H2'	22:CW:26:A:H8	1.36	0.89
13:AM:78:ILE:HA	13:AM:81:LEU:HD12	1.52	0.89
22:AW:16:U:C6	22:AW:18:G:H5''	2.07	0.89
12:CL:18:VAL:HG23	12:CL:19:ARG:H	1.34	0.89
35:DA:1899:G:H21	35:DA:1902:C:H41	1.15	0.89
48:DP:101:VAL:HB	48:DP:107:LYS:HA	1.54	0.89
19:AS:32:LYS:HA	19:AS:50:ALA:HB3	1.53	0.89
19:AS:78:ARG:HH11	19:AS:81:ARG:HH12	1.15	0.89
35:BA:145:G:C2'	35:BA:146:G:H5''	2.03	0.89
35:BA:2245:U:H5'	35:BA:2246:G:H5'	1.52	0.89
22:CV:72:C:C2'	22:CV:73:A:H5''	2.02	0.89
39:DE:51:PHE:CD1	39:DE:52:LEU:HD22	2.08	0.89
47:DO:35:VAL:HG11	47:DO:103:ALA:HB3	1.54	0.89
4:AD:128:VAL:HG12	4:AD:129:ASN:N	1.87	0.89
30:B5:11:THR:HG21	35:BA:1264:G:H5'	1.53	0.89
1:CA:413:G:H4'	1:CA:414:A:H5''	1.52	0.89
31:D6:41:PRO:HD3	31:D6:46:HIS:CA	1.93	0.89
35:BA:1043:C:HO2'	35:BA:1044:G:H8	1.07	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:BK:66:THR:HG22	45:BK:68:VAL:HG23	1.54	0.89
47:BO:49:ARG:HD3	47:BO:49:ARG:H	1.37	0.89
4:CD:128:VAL:HG12	4:CD:129:ASN:N	1.87	0.89
35:DA:774:A:H2	35:DA:787:U:HO2'	1.19	0.89
45:DK:112:MET:H	45:DK:113:PRO:CD	1.84	0.89
22:AV:2:C:H2'	22:AV:3:C:C6	2.08	0.89
22:AW:16:U:H6	22:AW:18:G:H5''	1.38	0.89
35:BA:154(A):C:H3'	35:BA:155:U:C5'	2.01	0.89
52:BT:29:ARG:CB	52:BT:85:LYS:HA	2.03	0.89
26:B1:53:VAL:HG22	26:B1:74:VAL:HG13	1.55	0.89
31:D6:46:HIS:CA	31:D6:47:THR:CB	2.50	0.89
31:D6:46:HIS:C	31:D6:47:THR:HG23	1.91	0.89
1:AA:424:G:H2'	1:AA:425:G:H8	1.38	0.89
10:AJ:4:ILE:HD11	10:AJ:77:PRO:HB3	1.53	0.89
24:AY:182:PRO:HG3	24:AY:345:ILE:HG23	1.55	0.89
46:BN:13:TRP:O	46:BN:135:PRO:HD2	1.71	0.88
52:BT:50:ILE:HD11	52:BT:102:ILE:HD11	1.53	0.88
1:AA:735:C:H2'	1:AA:736:C:H6	1.37	0.88
2:AB:178:ARG:HB2	2:AB:178:ARG:HH11	1.37	0.88
3:AC:70:VAL:HG12	3:AC:72:LYS:H	1.37	0.88
1:CA:1057:G:H5''	3:CC:154:SER:HB2	1.54	0.88
10:CJ:43:ARG:HB2	10:CJ:67:THR:HB	1.54	0.88
43:DI:145:VAL:HG12	43:DI:146:ALA:N	1.88	0.88
52:DT:28:VAL:CG2	52:DT:46:GLU:HG3	2.04	0.88
58:DZ:164:ALA:O	58:DZ:165:VAL:HG23	1.73	0.88
7:AG:37:ASN:HD21	9:AI:40:LEU:HA	1.36	0.88
26:B1:89:GLU:HA	26:B1:92:LYS:HB3	1.54	0.88
35:BA:1170:G:H1	35:BA:1179:C:H42	1.17	0.88
35:DA:1543:C:H3'	35:DA:1544:A:H5''	1.52	0.88
41:DG:115:ARG:CG	41:DG:116:ASP:H	1.85	0.88
46:DN:19:GLU:HG3	46:DN:20:GLY:N	1.88	0.88
24:AY:123:GLY:HA3	24:AY:305:ILE:HG21	1.56	0.88
39:BE:120:TRP:CE3	39:BE:155:LYS:HD3	2.08	0.88
24:CY:239:GLY:H	24:CY:242:VAL:HG12	1.39	0.88
27:D2:13:ALA:HA	27:D2:16:LEU:HD12	1.52	0.88
1:AA:413:G:H4'	1:AA:414:A:H5''	1.53	0.88
24:AY:303:ARG:H	24:AY:304:PRO:CD	1.85	0.88
52:BT:65:LYS:HZ1	52:BT:66:VAL:N	1.70	0.88
3:CC:6:HIS:HD2	3:CC:7:PRO:HD2	1.36	0.88
52:DT:65:LYS:NZ	52:DT:66:VAL:H	1.71	0.88
53:DU:13:LYS:HE2	53:DU:13:LYS:N	1.88	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:AT:57:ARG:HH22	20:AT:100:ILE:HG12	1.38	0.88
29:B4:18:CYS:HB3	29:B4:35:VAL:HG22	1.56	0.88
1:CA:735:C:H2'	1:CA:736:C:H6	1.36	0.88
5:CE:51:VAL:HB	5:CE:52:PRO:HD3	1.56	0.88
35:BA:2120:G:H2'	35:BA:2121:G:H8	1.38	0.88
42:BH:16:SER:HB2	42:BH:27:LYS:HB2	1.54	0.88
52:BT:89:VAL:HG11	52:BT:91:ARG:HE	1.39	0.88
13:CM:3:ARG:HH21	13:CM:7:VAL:HG22	1.37	0.88
25:D0:11:ARG:HB2	25:D0:11:ARG:NH1	1.88	0.88
18:AR:56:THR:HB	18:AR:58:LEU:HD13	1.56	0.88
56:BX:63:LYS:HE3	56:BX:72:LYS:HE3	1.56	0.88
13:CM:124:PRO:CD	24:CY:163:GLY:H	1.86	0.88
1:CA:473:G:H4'	16:CP:81:ARG:HH21	1.37	0.88
33:D8:50:LEU:HD12	33:D8:51:ALA:H	1.39	0.88
35:DA:145:G:C2'	35:DA:146:G:H5''	2.02	0.88
35:DA:654(T):C:C2'	35:DA:654(U):A:H5'	2.04	0.88
35:DA:997:G:OP1	53:DU:93:LYS:HD3	1.73	0.88
39:DE:120:TRP:CE3	39:DE:155:LYS:HD3	2.08	0.88
58:DZ:153:SER:H	58:DZ:167:PRO:CB	1.87	0.88
1:AA:1057:G:H5''	3:AC:154:SER:HB2	1.54	0.88
33:B8:50:LEU:HD12	33:B8:51:ALA:H	1.37	0.88
35:BA:1654:A:OP1	50:BR:3:HIS:HB2	1.72	0.88
41:BG:56:ALA:HA	41:BG:153:ARG:HH22	1.39	0.88
41:BG:72:ARG:HB3	41:BG:87:PRO:HD2	1.55	0.88
9:CI:65:VAL:HG21	9:CI:73:GLN:HB3	1.54	0.88
22:CW:68:C:H2'	22:CW:69:G:H8	1.39	0.88
27:B2:13:ALA:HA	27:B2:16:LEU:HG	1.55	0.88
52:BT:65:LYS:NZ	52:BT:66:VAL:H	1.71	0.88
58:BZ:151:HIS:HB2	58:BZ:170:THR:HA	1.54	0.88
35:DA:2523:G:C2'	35:DA:2524:G:H5''	2.04	0.88
1:AA:1030(A):G:H2'	1:AA:1030(B):C:H5''	1.56	0.87
5:AE:7:GLU:HG2	5:AE:112:LEU:HD22	1.56	0.87
31:B6:15:GLU:HG3	31:B6:47:THR:HG22	1.55	0.87
46:BN:19:GLU:HG3	46:BN:20:GLY:N	1.88	0.87
5:CE:76:ILE:HD11	5:CE:142:LEU:HD21	1.53	0.87
5:CE:7:GLU:HG2	5:CE:112:LEU:HD22	1.55	0.87
35:DA:654(T):C:H2'	35:DA:654(U):A:C5'	2.04	0.87
3:AC:6:HIS:HD2	3:AC:7:PRO:HD2	1.37	0.87
35:DA:1038:C:H2'	35:DA:1039:G:H5''	1.56	0.87
35:DA:1173:G:H3'	35:DA:1174:A:C5'	2.05	0.87
35:DA:2287:A:H62	35:DA:2344:U:H3	1.21	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:AV:41:C:H2'	22:AV:42:C:H5''	1.56	0.87
35:DA:2120:G:H2'	35:DA:2121:G:H8	1.38	0.87
57:DY:88:LYS:NZ	57:DY:93:GLY:HA3	1.87	0.87
27:B2:48:HIS:NE2	35:BA:96:G:H4'	1.89	0.87
19:CS:78:ARG:HH11	19:CS:81:ARG:HH12	1.15	0.87
35:DA:2833:G:H3'	35:DA:2834:G:C5'	2.03	0.87
35:DA:612:C:H2'	35:DA:613:G:C5'	2.04	0.87
57:DY:39:VAL:HG12	57:DY:40:GLU:H	1.36	0.87
35:BA:2523:G:C2'	35:BA:2524:G:H5''	2.03	0.87
1:CA:424:G:H2'	1:CA:425:G:H8	1.38	0.87
29:D4:18:CYS:HB3	29:D4:35:VAL:HG22	1.54	0.87
48:DP:23:PRO:HB2	48:DP:33:ARG:CD	2.04	0.87
35:DA:2876:G:H4'	52:DT:3:ARG:NE	1.90	0.87
56:DX:63:LYS:HE3	56:DX:72:LYS:HE3	1.55	0.87
36:BB:6:C:HO2'	51:BS:29:PHE:HE1	1.17	0.87
48:BP:101:VAL:HB	48:BP:107:LYS:HA	1.53	0.87
57:BY:88:LYS:NZ	57:BY:93:GLY:HA3	1.90	0.87
10:CJ:4:ILE:HD11	10:CJ:77:PRO:HB3	1.54	0.87
35:DA:1541:G:H1'	35:DA:1542:A:C5	2.10	0.87
46:DN:2:LYS:HZ2	53:DU:95:LEU:HD21	1.35	0.87
52:DT:29:ARG:CB	52:DT:85:LYS:HA	2.04	0.87
1:AA:942:G:H21	9:AI:124:GLN:HE22	1.22	0.87
5:CE:41:VAL:HG22	5:CE:113:ALA:HA	1.57	0.87
44:DJ:21:UNK:CB	44:DJ:89:UNK:HA	2.04	0.87
58:DZ:151:HIS:CB	58:DZ:170:THR:HA	2.04	0.87
2:AB:233:SER:HB2	2:AB:234:PRO:HD2	1.57	0.87
9:AI:28:VAL:HG22	9:AI:63:ILE:HB	1.54	0.87
13:AM:3:ARG:HH21	13:AM:7:VAL:HG22	1.37	0.87
22:AV:5:G:H2'	22:AV:6:G:H5''	1.57	0.87
35:BA:654(C):G:H2'	35:BA:654(D):G:H5'	1.57	0.87
42:BH:41:MET:SD	42:BH:43:VAL:HG13	2.15	0.87
38:DD:72:LYS:HZ3	38:DD:75:ILE:HD12	1.38	0.87
51:DS:27:SER:HA	51:DS:88:ASP:HB3	1.57	0.87
39:DE:51:PHE:HD1	39:DE:52:LEU:HD22	1.40	0.87
41:BG:46:ALA:HB2	41:BG:88:ILE:HD11	1.55	0.86
43:BI:133:HIS:HB2	43:BI:134:PRO:CD	2.05	0.86
40:DF:24:LEU:HB3	40:DF:25:PRO:CD	2.04	0.86
53:DU:108:GLU:HG3	54:DV:44:LYS:HD3	1.55	0.86
1:CA:942:G:H21	9:CI:124:GLN:HE22	1.23	0.86
35:DA:1902:C:O2'	38:DD:244:ARG:HB2	1.75	0.86
38:DD:10:THR:HG23	38:DD:13:ARG:HB3	1.58	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:DN:120:LEU:HD11	46:DN:122:VAL:HG23	1.57	0.86
1:AA:266:G:H5''	1:AA:268:C:H41	1.39	0.86
7:CG:37:ASN:HD21	9:CI:40:LEU:HA	1.38	0.86
2:AB:165:VAL:HG23	2:AB:166:ASP:H	1.39	0.86
35:BA:1378:A:O2'	35:BA:1379:A:H5'	1.74	0.86
20:CT:57:ARG:HH22	20:CT:100:ILE:HG12	1.39	0.86
35:DA:654(C):G:H2'	35:DA:654(D):G:H5'	1.57	0.86
43:DI:77:LEU:HA	43:DI:104:GLN:OE1	1.75	0.86
57:DY:7:VAL:HB	57:DY:8:LYS:HD2	1.55	0.86
9:AI:26:VAL:HG22	9:AI:61:ALA:HB3	1.58	0.86
9:AI:50:LEU:HD21	9:AI:81:ILE:HG22	1.56	0.86
10:AJ:43:ARG:HB2	10:AJ:67:THR:HB	1.55	0.86
35:BA:654(T):C:H2'	35:BA:654(U):A:C5'	2.05	0.86
36:BB:20:C:C2'	36:BB:21:G:H5''	2.06	0.86
41:DG:5:VAL:HG11	41:DG:101:ILE:HG22	1.56	0.86
56:DX:12:VAL:HG23	56:DX:13:LEU:H	1.40	0.86
2:AB:55:PHE:HA	2:AB:58:ILE:HD12	1.57	0.86
38:BD:85:ASP:HB2	38:BD:92:ILE:HD12	1.56	0.86
42:BH:97:ARG:HG3	42:BH:98:LEU:H	1.40	0.86
50:BR:24:GLN:HE22	50:BR:36:THR:HG21	1.40	0.86
50:BR:7:GLY:HA3	50:BR:8:ARG:NH2	1.90	0.86
2:CB:165:VAL:HG23	2:CB:166:ASP:H	1.39	0.86
24:CY:286:LEU:HA	24:CY:289:LYS:HD2	1.57	0.86
35:DA:1464:C:O2'	35:DA:1528:A:H8	1.59	0.86
43:DI:133:HIS:HB2	43:DI:134:PRO:HD3	1.57	0.86
12:AL:6:THR:H	12:AL:9:GLN:HE21	1.23	0.86
33:B8:14:VAL:HG21	33:B8:22:VAL:HG13	1.58	0.86
45:DK:66:THR:HG22	45:DK:68:VAL:HG23	1.55	0.86
2:AB:231:GLU:HB2	2:AB:232:PRO:HD2	1.55	0.86
2:AB:80:ILE:H	2:AB:80:ILE:HD12	1.39	0.86
35:BA:612:C:H2'	35:BA:613:G:C5'	2.05	0.86
35:DA:2469:A:H2	35:DA:2481:G:H21	1.24	0.86
50:DR:7:GLY:HA3	50:DR:8:ARG:NH2	1.90	0.86
31:D6:41:PRO:CG	31:D6:47:THR:HG21	2.06	0.86
35:DA:2359:C:H2'	35:DA:2360:A:H5'	1.57	0.86
53:DU:117:GLN:HE21	53:DU:117:GLN:HA	1.40	0.86
52:BT:100:TYR:HD2	52:BT:103:ARG:HH21	1.19	0.85
53:BU:13:LYS:HE2	53:BU:13:LYS:N	1.91	0.85
57:BY:44:ILE:HG22	57:BY:45:VAL:H	1.40	0.85
42:DH:97:ARG:HG3	42:DH:98:LEU:H	1.38	0.85
6:AF:77:ARG:NH1	6:AF:77:ARG:HB3	1.90	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
52:BT:28:VAL:CG2	52:BT:46:GLU:HG3	2.05	0.85
3:CC:32:LEU:HB3	3:CC:59:ARG:HH22	1.39	0.85
24:CY:209:GLU:OE2	24:CY:303:ARG:HD3	1.75	0.85
35:DA:2681:C:H5	35:DA:2725:A:H62	1.24	0.85
41:DG:121:ASN:HD22	41:DG:122:PRO:HD2	1.40	0.85
50:DR:117:VAL:O	50:DR:118:GLU:HB2	1.75	0.85
1:AA:1028:C:H2'	1:AA:1029:C:H5'	1.57	0.85
43:BI:109:ILE:HG23	43:BI:130:TYR:CE1	2.10	0.85
43:BI:132:PRO:HG2	43:BI:133:HIS:CE1	2.11	0.85
44:BJ:21:UNK:CB	44:BJ:89:UNK:HA	2.06	0.85
33:D8:6:THR:HG21	35:DA:243:U:OP1	1.77	0.85
35:DA:613:G:H8	35:DA:613:G:H5'	1.42	0.85
1:AA:728:A:H2'	1:AA:729:A:C8	2.12	0.85
22:AV:72:C:H3'	22:AV:73:A:H5''	1.55	0.85
27:B2:4:SER:HA	27:B2:7:ARG:HH11	1.41	0.85
33:B8:13:ARG:HD2	48:BP:61:ARG:HD3	1.56	0.85
35:BA:1173:G:H3'	35:BA:1174:A:C5'	2.06	0.85
39:BE:51:PHE:CD1	39:BE:52:LEU:HD22	2.10	0.85
53:BU:101:ARG:HH11	53:BU:101:ARG:HB2	1.40	0.85
24:CY:198:SER:HB2	24:CY:200:ARG:HG3	1.56	0.85
33:D8:13:ARG:HB3	48:DP:63:PRO:HB3	1.59	0.85
33:B8:52:LYS:N	33:B8:53:PRO:HD2	1.92	0.85
6:CF:77:ARG:HB3	6:CF:77:ARG:NH1	1.90	0.85
12:CL:25:PRO:C	12:CL:27:LEU:H	1.78	0.85
20:CT:57:ARG:NH2	20:CT:100:ILE:HG12	1.92	0.85
31:D6:41:PRO:CD	31:D6:46:HIS:N	2.32	0.85
52:DT:85:LYS:HZ2	52:DT:85:LYS:HB3	1.42	0.85
4:AD:128:VAL:CG1	4:AD:129:ASN:H	1.88	0.85
35:BA:1899:G:O2'	35:BA:1900:A:H5''	1.76	0.85
22:AW:77:PHA:O	35:BA:2395:C:H1'	1.75	0.85
35:BA:2681:C:H5	35:BA:2725:A:H62	1.21	0.85
4:CD:128:VAL:CG1	4:CD:129:ASN:H	1.88	0.85
7:CG:102:ARG:HG2	7:CG:106:GLN:HE21	1.41	0.85
24:CY:326:THR:HG23	24:CY:328:LEU:H	1.42	0.85
35:DA:1348:G:H2'	35:DA:1349:A:H5''	1.58	0.85
35:DA:2334:G:N3	51:DS:18:ILE:HD11	1.91	0.85
51:DS:89:ARG:O	51:DS:92:TYR:HB3	1.75	0.85
52:DT:65:LYS:HZ1	52:DT:66:VAL:N	1.73	0.85
9:AI:10:ARG:HH21	9:AI:11:LYS:HB2	1.41	0.85
9:CI:26:VAL:HG22	9:CI:61:ALA:HB3	1.58	0.85
42:DH:16:SER:HB2	42:DH:27:LYS:HB2	1.59	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:1038:C:H2'	35:BA:1039:G:H5''	1.58	0.85
35:BA:654(T):C:C2'	35:BA:654(U):A:H5'	2.05	0.85
58:BZ:165:VAL:HG13	58:BZ:169:GLU:HB3	1.59	0.85
22:CV:51:U:H2'	22:CV:52:G:C8	2.11	0.85
37:DC:42:VAL:HG22	37:DC:217:THR:HG22	1.59	0.85
53:DU:101:ARG:HB2	53:DU:101:ARG:HH11	1.41	0.85
58:DZ:53:ILE:HG22	58:DZ:71:VAL:HG12	1.56	0.85
3:AC:32:LEU:HB3	3:AC:59:ARG:HH22	1.40	0.85
26:B1:45:ASN:HD21	26:B1:47:GLN:NE2	1.73	0.85
39:BE:51:PHE:HD1	39:BE:52:LEU:HD22	1.42	0.85
40:BF:36:VAL:HG11	40:BF:183:VAL:HG11	1.58	0.85
48:BP:144:GLU:H	48:BP:145:PRO:CD	1.90	0.85
1:CA:1028:C:H2'	1:CA:1029:C:H5'	1.57	0.85
2:CB:33:TYR:HB2	2:CB:43:ASP:HB2	1.56	0.85
22:CW:72:C:H2'	22:CW:73:A:O4'	1.75	0.85
35:DA:2476:A:H2'	35:DA:2477:C:H5''	1.57	0.85
35:BA:1484:G:C2'	35:BA:1485:G:H5''	2.07	0.85
35:BA:1541:G:H1'	35:BA:1542:A:C5	2.11	0.85
35:BA:528:A:O2'	35:BA:529:A:H5'	1.76	0.85
33:D8:52:LYS:N	33:D8:53:PRO:HD2	1.91	0.85
48:DP:144:GLU:H	48:DP:145:PRO:CD	1.89	0.85
1:AA:1468:A:H2'	1:AA:1469:G:O4'	1.76	0.84
35:BA:1598:C:H5'	56:BX:36:LYS:HB2	1.57	0.84
1:CA:1030(A):G:H2'	1:CA:1030(B):C:H5''	1.56	0.84
18:CR:56:THR:HB	18:CR:58:LEU:HD13	1.56	0.84
35:DA:2359:C:C2'	35:DA:2360:A:H5'	2.06	0.84
24:AY:91:LEU:HA	24:AY:94:ALA:HB3	1.57	0.84
41:BG:142:PRO:HG2	41:BG:143:GLU:OE2	1.78	0.84
35:BA:807:U:OP2	48:BP:39:LYS:HG3	1.76	0.84
52:BT:3:ARG:HB2	52:BT:6:LEU:CB	2.07	0.84
53:BU:117:GLN:HE21	53:BU:117:GLN:HA	1.41	0.84
35:DA:807:U:OP2	48:DP:39:LYS:HG3	1.76	0.84
41:DG:86:MET:N	41:DG:87:PRO:HD2	1.86	0.84
56:BX:35:THR:O	56:BX:39:ILE:HG12	1.76	0.84
47:DO:49:ARG:HD3	47:DO:49:ARG:H	1.40	0.84
20:AT:57:ARG:NH2	20:AT:100:ILE:HG12	1.91	0.84
9:CI:50:LEU:HD21	9:CI:81:ILE:HG22	1.57	0.84
43:DI:123:LEU:HD21	43:DI:143:SER:O	1.78	0.84
12:AL:25:PRO:C	12:AL:27:LEU:H	1.79	0.84
41:BG:61:ALA:HA	41:BG:64:THR:HG22	1.60	0.84
24:AY:283:LEU:HB3	24:AY:287:GLU:OE2	1.76	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:CW:59:U:H2'	22:CW:60:U:H6	1.41	0.84
35:DA:1948:G:H5'	35:DA:1948:G:H8	1.42	0.84
35:DA:1598:C:H5'	56:DX:36:LYS:HB2	1.58	0.84
35:BA:1717:G:H2'	35:BA:1718:G:H5''	1.60	0.84
52:BT:83:ILE:HG13	52:BT:84:GLN:N	1.91	0.84
12:CL:6:THR:HG23	12:CL:9:GLN:HE21	1.41	0.84
35:DA:1484:G:C2'	35:DA:1485:G:H5''	2.06	0.84
12:AL:6:THR:HG23	12:AL:9:GLN:HE21	1.43	0.84
35:BA:274:G:O2'	35:BA:275:G:H5''	1.78	0.84
52:BT:28:VAL:HG13	52:BT:46:GLU:HA	1.60	0.84
22:CW:76:8AN:H4'	22:CW:77:PHA:O	1.77	0.84
40:DF:3:GLU:CA	40:DF:24:LEU:HG	2.08	0.84
41:DG:113:ARG:HA	41:DG:113:ARG:NE	1.89	0.84
57:DY:81:LYS:HD3	57:DY:97:ARG:HG3	1.58	0.84
5:AE:51:VAL:HB	5:AE:52:PRO:HD3	1.57	0.84
10:AJ:24:VAL:HG21	10:AJ:37:PRO:HG3	1.59	0.84
35:BA:2334:G:N3	51:BS:18:ILE:HD11	1.93	0.84
50:BR:117:VAL:O	50:BR:118:GLU:HB2	1.78	0.84
9:CI:9:ARG:HG2	9:CI:14:VAL:HG22	1.60	0.84
35:DA:259:G:H21	35:DA:621:A:H8	1.18	0.84
40:BF:3:GLU:HA	40:BF:24:LEU:CG	2.08	0.84
43:BI:123:LEU:HG	43:BI:142:VAL:HG11	1.57	0.84
58:BZ:110:GLY:HA2	58:BZ:146:ILE:HG22	1.58	0.84
30:D5:46:CYS:SG	30:D5:47:PRO:HD2	2.17	0.84
43:DI:132:PRO:HG2	43:DI:133:HIS:CE1	2.11	0.84
48:DP:23:PRO:HD2	48:DP:33:ARG:HH21	1.42	0.84
57:DY:44:ILE:HG22	57:DY:45:VAL:H	1.41	0.84
2:AB:33:TYR:HB2	2:AB:43:ASP:HB2	1.58	0.83
5:AE:101:ILE:HD11	5:AE:119:LEU:HD23	1.59	0.83
12:AL:84:LEU:HD12	12:AL:104:VAL:HG11	1.59	0.83
19:AS:29:ARG:HD2	19:AS:30:LEU:H	1.41	0.83
35:BA:1019:U:HO2'	35:BA:1021:A:H2	0.87	0.83
35:BA:1024:G:H3'	35:BA:1025:G:H5''	1.60	0.83
48:BP:23:PRO:HB2	48:BP:33:ARG:CD	2.08	0.83
1:CA:1347:G:N2	1:CA:1373:G:H2'	1.93	0.83
36:DB:20:C:C2'	36:DB:21:G:H5''	2.06	0.83
9:AI:9:ARG:HG2	9:AI:14:VAL:HG22	1.60	0.83
35:BA:8:A:H2'	35:BA:9:U:C5	2.13	0.83
46:BN:120:LEU:HD11	46:BN:122:VAL:HG23	1.60	0.83
51:BS:106:ARG:HB3	51:BS:106:ARG:NH1	1.92	0.83
10:CJ:26:ALA:HA	10:CJ:29:ARG:HH12	1.41	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:1678:G:N2	35:DA:1989:G:H22	1.76	0.83
35:DA:1717:G:H2'	35:DA:1718:G:H5''	1.59	0.83
35:DA:8:A:H2'	35:DA:9:U:C5	2.14	0.83
33:D8:13:ARG:HD2	48:DP:61:ARG:HD3	1.59	0.83
50:DR:24:GLN:HE22	50:DR:36:THR:HG21	1.43	0.83
35:BA:1464:C:O2'	35:BA:1528:A:H8	1.61	0.83
35:BA:2132:U:O2	37:BC:6:LYS:HG3	1.78	0.83
1:CA:939:G:C5'	7:CG:102:ARG:HH12	1.91	0.83
19:CS:29:ARG:HD2	19:CS:30:LEU:H	1.42	0.83
22:CW:59:U:H2'	22:CW:60:U:C6	2.13	0.83
26:D1:50:ARG:HG2	26:D1:59:THR:HG22	1.60	0.83
35:DA:2158:A:H4'	35:DA:2159:G:H5'	1.60	0.83
26:B1:45:ASN:HD21	35:BA:2090:G:H21	1.26	0.83
43:BI:129:THR:HA	43:BI:137:PRO:HA	1.60	0.83
2:CB:118:LEU:HB3	2:CB:142:LEU:HD12	1.60	0.83
26:D1:57:GLU:O	26:D1:58:ILE:HG22	1.78	0.83
51:DS:106:ARG:HB3	51:DS:106:ARG:NH1	1.93	0.83
16:AP:45:THR:HG22	16:AP:47:ASP:H	1.43	0.83
33:B8:6:THR:HG21	35:BA:243:U:OP1	1.78	0.83
35:BA:1902:C:O2'	38:BD:244:ARG:HB2	1.78	0.83
1:CA:728:A:H2'	1:CA:729:A:C8	2.14	0.83
12:CL:84:LEU:HD12	12:CL:104:VAL:HG11	1.59	0.83
16:CP:45:THR:HG22	16:CP:47:ASP:H	1.43	0.83
30:D5:11:THR:HG21	35:DA:1264:G:H5'	1.58	0.83
26:B1:45:ASN:ND2	26:B1:47:GLN:HE21	1.77	0.83
35:BA:1348:G:H2'	35:BA:1349:A:H5''	1.59	0.83
56:BX:12:VAL:HG23	56:BX:13:LEU:H	1.42	0.83
2:CB:233:SER:HB2	2:CB:234:PRO:HD2	1.57	0.83
38:DD:43:ARG:HB3	38:DD:54:ARG:HB2	1.60	0.83
48:DP:124:LYS:HA	48:DP:143:GLY:HA3	1.61	0.83
35:BA:672:C:C2'	35:BA:673:C:H5''	2.08	0.83
37:BC:42:VAL:HG22	37:BC:217:THR:HG22	1.60	0.83
54:BV:18:LEU:HD22	54:BV:19:LYS:N	1.93	0.83
2:CB:80:ILE:H	2:CB:80:ILE:HD12	1.42	0.83
31:D6:40:CYS:HA	31:D6:46:HIS:CG	2.12	0.83
48:DP:146:VAL:HG22	48:DP:147:LEU:N	1.94	0.83
48:DP:88:LEU:HD12	48:DP:88:LEU:H	1.43	0.83
35:BA:2469:A:H2	35:BA:2481:G:H21	1.24	0.83
9:CI:10:ARG:HH21	9:CI:11:LYS:HB2	1.41	0.83
19:CS:42:PRO:O	19:CS:43:GLU:HB3	1.77	0.83
48:DP:38:GLN:HG3	48:DP:39:LYS:H	1.44	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:B6:30:THR:HB	31:B6:31:PRO:HD2	1.60	0.83
35:BA:613:G:H5'	35:BA:613:G:H8	1.44	0.83
24:CY:283:LEU:HB3	24:CY:287:GLU:OE2	1.78	0.83
24:CY:287:GLU:O	24:CY:290:LYS:HG2	1.79	0.83
35:DA:2132:U:O2	37:DC:6:LYS:HG3	1.78	0.83
38:DD:34:VAL:O	38:DD:64:ILE:HG23	1.77	0.83
41:DG:137:GLU:OE2	41:DG:139:LEU:HD11	1.78	0.83
35:DA:2723:C:H5''	50:DR:2:ARG:HH11	1.41	0.83
5:AE:41:VAL:HG22	5:AE:113:ALA:HA	1.60	0.83
19:AS:42:PRO:O	19:AS:43:GLU:HB3	1.78	0.83
26:B1:80:LEU:HD23	26:B1:81:LYS:N	1.92	0.83
35:BA:2287:A:H62	35:BA:2344:U:H3	1.22	0.83
40:BF:3:GLU:CA	40:BF:24:LEU:HG	2.09	0.83
49:BQ:16:ARG:HB3	49:BQ:18:LYS:NZ	1.94	0.83
31:D6:30:THR:HB	31:D6:31:PRO:HD2	1.61	0.83
2:AB:118:LEU:HB3	2:AB:142:LEU:HD12	1.60	0.82
24:AY:115:ASN:ND2	24:AY:170:LEU:HD11	1.94	0.82
2:CB:55:PHE:HA	2:CB:58:ILE:HD12	1.60	0.82
12:CL:6:THR:H	12:CL:9:GLN:HE21	1.23	0.82
9:AI:4:TYR:HB2	9:AI:19:LEU:HB2	1.61	0.82
24:AY:267:SER:HB3	25:B0:3:HIS:ND1	1.92	0.82
40:BF:107:LYS:HZ2	40:BF:107:LYS:HA	1.44	0.82
12:CL:47:LYS:HB3	12:CL:48:PRO:CD	2.09	0.82
24:CY:279:LEU:O	24:CY:283:LEU:HG	1.78	0.82
35:DA:2312:U:H2'	35:DA:2313:C:H5''	1.61	0.82
35:DA:274:G:O2'	35:DA:275:G:H5''	1.78	0.82
40:DF:3:GLU:HA	40:DF:24:LEU:CG	2.07	0.82
58:DZ:153:SER:HB3	58:DZ:167:PRO:HG3	1.61	0.82
5:AE:92:LYS:HB3	5:AE:119:LEU:HB2	1.60	0.82
35:BA:2359:C:C2'	35:BA:2360:A:H5'	2.09	0.82
35:BA:298:G:H5'	35:BA:299:A:OP1	1.80	0.82
43:BI:145:VAL:HG12	43:BI:146:ALA:N	1.94	0.82
1:CA:976:G:H5'	1:CA:1358:U:O2'	1.79	0.82
1:CA:922:G:H4'	5:CE:20:GLN:HA	1.62	0.82
10:AJ:26:ALA:HA	10:AJ:29:ARG:HH12	1.42	0.82
4:CD:59:ARG:HA	4:CD:59:ARG:HE	1.44	0.82
5:CE:101:ILE:HD11	5:CE:119:LEU:HD23	1.60	0.82
41:DG:67:LYS:HD2	41:DG:67:LYS:H	1.43	0.82
33:B8:13:ARG:HB3	48:BP:63:PRO:HB3	1.59	0.82
9:CI:4:TYR:HB2	9:CI:19:LEU:HB2	1.61	0.82
33:D8:14:VAL:HG21	33:D8:22:VAL:HG13	1.61	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:1678:G:N2	35:BA:1989:G:H22	1.78	0.82
35:BA:2158:A:H4'	35:BA:2159:G:H5'	1.60	0.82
35:BA:860:U:H5	35:BA:917:A:N7	1.76	0.82
38:BD:71:ASP:HB2	38:BD:103:ARG:HH22	1.44	0.82
31:D6:40:CYS:CA	31:D6:46:HIS:HB3	2.09	0.82
35:DA:1378:A:O2'	35:DA:1379:A:H5'	1.80	0.82
52:DT:83:ILE:HG13	52:DT:84:GLN:N	1.94	0.82
9:AI:15:ALA:HB2	9:AI:65:VAL:HG23	1.61	0.82
22:AV:40:C:H2'	22:AV:41:C:C6	2.15	0.82
45:BK:76:TYR:O	45:BK:79:ARG:HG3	1.80	0.82
2:CB:231:GLU:HB2	2:CB:232:PRO:CD	2.10	0.82
27:D2:24:LEU:HA	27:D2:27:GLU:OE1	1.80	0.82
41:DG:121:ASN:HD22	41:DG:122:PRO:CD	1.91	0.82
41:DG:52:ILE:HG13	41:DG:53:LEU:H	1.44	0.82
35:DA:17:G:H4'	53:DU:25:TRP:CZ3	2.15	0.82
43:DI:113:ARG:NH1	43:DI:132:PRO:HD3	1.94	0.82
56:DX:80:ILE:HD13	56:DX:80:ILE:O	1.80	0.82
30:B5:46:CYS:SG	30:B5:47:PRO:HD2	2.19	0.82
35:BA:1175:U:H4'	35:BA:1176:G:H5'	1.62	0.82
35:BA:155:U:H2'	35:BA:156:U:H5'	1.61	0.82
1:CA:1502:A:H2	1:CA:1505:G:H1	1.25	0.82
3:CC:113:ALA:HB3	3:CC:114:PRO:HD3	1.62	0.82
35:DA:1403:C:H5''	35:DA:1471:A:H1'	1.62	0.82
45:DK:76:TYR:O	45:DK:79:ARG:HG3	1.80	0.82
52:DT:3:ARG:HB2	52:DT:6:LEU:CB	2.09	0.82
1:AA:976:G:H5'	1:AA:1358:U:O2'	1.79	0.82
33:B8:53:PRO:HA	33:B8:56:GLU:HB3	1.60	0.82
31:B6:45:LYS:HZ2	35:BA:2370:G:H21	1.22	0.82
35:BA:61:G:H1	35:BA:94:C:H42	1.28	0.82
35:BA:2723:C:H5''	50:BR:2:ARG:HH11	1.44	0.82
12:CL:53:ARG:HG2	12:CL:53:ARG:HH11	1.42	0.82
33:D8:53:PRO:HA	33:D8:56:GLU:HB3	1.62	0.82
35:DA:860:U:H5	35:DA:917:A:N7	1.77	0.82
8:AH:11:THR:HG22	8:AH:15:ASN:ND2	1.95	0.81
13:AM:123:ALA:HB1	24:AY:161:GLU:O	1.79	0.81
40:BF:24:LEU:HB3	40:BF:25:PRO:CD	2.04	0.81
1:AA:939:G:C5'	7:AG:102:ARG:HH12	1.93	0.81
3:AC:101:LEU:HD23	3:AC:102:ASN:N	1.95	0.81
12:AL:53:ARG:HG2	12:AL:53:ARG:HH11	1.45	0.81
1:CA:939:G:H5''	7:CG:102:ARG:NH1	1.95	0.81
35:DA:631:A:OP1	48:DP:64:LYS:HE2	1.80	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
57:DY:44:ILE:H	57:DY:62:GLU:CD	1.84	0.81
4:AD:59:ARG:HA	4:AD:59:ARG:HE	1.43	0.81
26:B1:46:LEU:HD23	26:B1:61:ARG:HD3	1.61	0.81
35:BA:2359:C:H2'	35:BA:2360:A:H5'	1.61	0.81
24:AY:269:ILE:HB	49:BQ:80:GLU:OE2	1.79	0.81
55:BW:9:TYR:H	55:BW:102:HIS:HD2	1.27	0.81
1:CA:1321:C:C5'	1:CA:1322:C:H5''	2.10	0.81
18:CR:31:LEU:HD23	18:CR:31:LEU:H	1.45	0.81
35:DA:1175:U:H4'	35:DA:1176:G:H5'	1.62	0.81
40:DF:125:LEU:HD23	40:DF:125:LEU:H	1.44	0.81
55:DW:64:MET:O	55:DW:65:LEU:HB2	1.80	0.81
35:BA:2801(A):A:H4'	35:BA:2802:G:C5'	2.07	0.81
38:BD:34:VAL:O	38:BD:64:ILE:HG23	1.81	0.81
35:BA:17:G:H4'	53:BU:25:TRP:CZ3	2.16	0.81
5:CE:92:LYS:HB3	5:CE:119:LEU:HB2	1.62	0.81
35:DA:155:U:H2'	35:DA:156:U:H5'	1.62	0.81
35:DA:903:C:C2'	35:DA:904:C:H5''	2.10	0.81
37:DC:8:TYR:HE1	37:DC:221:PRO:HB3	1.44	0.81
54:DV:19:LYS:NZ	54:DV:20:LEU:H	1.78	0.81
8:AH:11:THR:HG22	8:AH:15:ASN:HD21	1.45	0.81
8:AH:89:PRO:HA	8:AH:92:ARG:HH11	1.46	0.81
22:AV:77:PHA:N	22:AV:77:PHA:HD2	1.95	0.81
37:BC:8:TYR:HE1	37:BC:221:PRO:HB3	1.44	0.81
58:BZ:146:ILE:HG13	58:BZ:147:GLY:H	1.45	0.81
58:BZ:183:LEU:HD13	58:BZ:184:ALA:N	1.95	0.81
38:DD:131:LEU:HD13	38:DD:136:ILE:HG12	1.62	0.81
24:AY:54:ARG:HB3	24:AY:54:ARG:NH2	1.93	0.81
38:BD:181:GLU:HA	38:BD:272:ALA:HB3	1.62	0.81
35:DA:1887:C:C2'	35:DA:1888:G:H5''	2.10	0.81
35:DA:528:A:O2'	35:DA:529:A:H5'	1.80	0.81
38:DD:71:ASP:HB2	38:DD:103:ARG:HH22	1.45	0.81
45:DK:100:THR:HA	45:DK:139:VAL:HB	1.62	0.81
45:DK:20:ALA:HA	45:DK:25:PRO:HD3	1.63	0.81
1:AA:1292:U:H2'	1:AA:1293:G:C8	2.15	0.81
1:AA:990:C:H2'	1:AA:991:U:C6	2.15	0.81
38:BD:43:ARG:HB3	38:BD:54:ARG:HB2	1.61	0.81
45:BK:78:ILE:HG23	45:BK:99:ILE:HD11	1.63	0.81
57:BY:81:LYS:HD3	57:BY:97:ARG:HG3	1.59	0.81
1:CA:1292:U:H2'	1:CA:1293:G:C8	2.14	0.81
52:DT:89:VAL:HG11	52:DT:91:ARG:NE	1.94	0.81
22:AV:71:G:H2'	22:AV:72:C:H5''	1.63	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:AW:77:PHA:HD2	35:BA:248:G:O3'	1.80	0.81
45:BK:78:ILE:HG21	45:BK:136:VAL:HG21	1.62	0.81
51:BS:89:ARG:O	51:BS:92:TYR:HB3	1.81	0.81
12:CL:57:LYS:HG2	12:CL:67:THR:HG22	1.63	0.81
35:DA:1019:U:O2'	35:DA:1021:A:H2	1.62	0.81
52:DT:28:VAL:HG13	52:DT:46:GLU:HA	1.61	0.81
1:AA:601:C:H2'	1:AA:602:A:H8	1.44	0.81
6:AF:68:PRO:HG2	6:AF:71:ARG:HG3	1.63	0.81
35:BA:1948:G:H8	35:BA:1948:G:H5'	1.43	0.81
45:BK:100:THR:HA	45:BK:139:VAL:HB	1.62	0.81
54:BV:19:LYS:NZ	54:BV:20:LEU:H	1.79	0.81
1:CA:990:C:H2'	1:CA:991:U:C6	2.16	0.81
8:CH:11:THR:HG22	8:CH:15:ASN:HD21	1.46	0.81
8:CH:11:THR:HG22	8:CH:15:ASN:ND2	1.96	0.81
27:D2:43:GLN:HE21	27:D2:44:LEU:HG	1.44	0.81
1:AA:1321:C:C5'	1:AA:1322:C:H5''	2.11	0.81
4:AD:30:LYS:C	4:AD:32:ALA:H	1.85	0.81
18:AR:31:LEU:H	18:AR:31:LEU:HD23	1.46	0.81
35:BA:2147:G:H2'	35:BA:2148:G:O4'	1.81	0.81
9:CI:15:ALA:HB2	9:CI:65:VAL:HG23	1.62	0.81
19:CS:43:GLU:HG2	19:CS:44:MET:HE1	1.60	0.81
35:DA:1378:A:H4'	35:DA:1379:A:OP1	1.80	0.81
35:DA:2147:G:H2'	35:DA:2148:G:O4'	1.81	0.81
57:DY:44:ILE:O	57:DY:62:GLU:HB3	1.81	0.81
1:AA:624:C:H2'	1:AA:625:G:H8	1.45	0.81
35:BA:1887:C:C2'	35:BA:1888:G:H5''	2.09	0.81
43:BI:92:VAL:HG22	43:BI:120:ILE:HD12	1.63	0.81
48:BP:38:GLN:HG3	48:BP:39:LYS:H	1.45	0.81
4:CD:93:PHE:O	4:CD:97:LEU:HB2	1.81	0.81
10:CJ:24:VAL:HG21	10:CJ:37:PRO:HG3	1.61	0.81
35:DA:298:G:H5'	35:DA:299:A:OP1	1.81	0.81
35:DA:744:G:OP1	39:DE:132:HIS:HB3	1.80	0.81
40:DF:83:PHE:O	40:DF:85:GLY:N	2.14	0.81
42:DH:30:LYS:HE3	42:DH:81:GLU:N	1.96	0.81
48:DP:23:PRO:HB2	48:DP:33:ARG:NE	1.96	0.81
55:DW:9:TYR:H	55:DW:102:HIS:HD2	1.29	0.81
13:CM:126:LYS:N	24:CY:162:ALA:N	2.29	0.80
38:DD:181:GLU:HA	38:DD:272:ALA:HB3	1.63	0.80
1:AA:1347:G:N2	1:AA:1373:G:H2'	1.94	0.80
4:AD:176:LEU:HG	4:AD:178:VAL:H	1.46	0.80
35:BA:672:C:H2'	35:BA:673:C:H5''	1.63	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
58:BZ:96:VAL:HG22	58:BZ:97:GLU:H	1.46	0.80
1:CA:223:U:H2'	1:CA:224:C:H6	1.46	0.80
3:CC:34:LEU:HD21	3:CC:38:ARG:HD2	1.63	0.80
19:CS:16:LEU:HD12	19:CS:16:LEU:H	1.45	0.80
22:CW:63:G:H2'	22:CW:64:A:H5'	1.62	0.80
35:DA:2562:U:H1'	47:DO:23:ARG:HH11	1.46	0.80
35:DA:2801(A):A:H4'	35:DA:2802:G:C5'	2.07	0.80
40:DF:36:VAL:HG11	40:DF:183:VAL:HG11	1.62	0.80
41:DG:162:THR:HG22	41:DG:162:THR:O	1.79	0.80
43:DI:8:PRO:HD3	43:DI:15:VAL:HG13	1.63	0.80
54:DV:18:LEU:HD22	54:DV:19:LYS:N	1.96	0.80
2:AB:141:GLU:O	2:AB:145:LEU:HB2	1.82	0.80
3:AC:36:ASP:HB3	3:AC:40:ARG:HH12	1.46	0.80
1:CA:1116:C:C2'	1:CA:1117:G:H5''	2.12	0.80
9:CI:17:VAL:HG13	9:CI:81:ILE:HD13	1.63	0.80
24:CY:209:GLU:CD	24:CY:303:ARG:HD3	2.00	0.80
35:DA:903:C:H2'	35:DA:904:C:H5''	1.62	0.80
19:AS:16:LEU:H	19:AS:16:LEU:HD12	1.46	0.80
40:BF:123:LEU:HD12	40:BF:124:LEU:H	1.46	0.80
41:BG:17:PRO:HA	41:BG:20:ILE:HD12	1.64	0.80
1:CA:590:C:H2'	1:CA:591:U:H6	1.45	0.80
39:DE:77:ILE:HG22	39:DE:78:LEU:N	1.96	0.80
46:DN:67:LEU:HD23	46:DN:87:LEU:HD13	1.63	0.80
1:AA:1137:C:H4'	1:AA:1138:G:C2	2.17	0.80
43:BI:31:LEU:HD12	43:BI:31:LEU:N	1.96	0.80
35:BA:271(M):G:H5''	43:BI:57:ARG:HH12	1.47	0.80
50:BR:7:GLY:O	50:BR:8:ARG:HB2	1.81	0.80
54:BV:18:LEU:CD1	54:BV:19:LYS:H	1.93	0.80
56:BX:12:VAL:HB	56:BX:17:ALA:CB	2.11	0.80
57:BY:76:CYS:CB	57:BY:96:ILE:HD11	2.11	0.80
8:CH:89:PRO:HA	8:CH:92:ARG:HH11	1.47	0.80
39:DE:116:VAL:O	39:DE:117:MET:HB3	1.81	0.80
1:AA:590:C:H2'	1:AA:591:U:H6	1.46	0.80
24:AY:214:VAL:HG13	24:AY:215:ASP:H	1.47	0.80
33:B8:4:MET:HB2	33:B8:61:LEU:HD13	1.61	0.80
38:BD:72:LYS:HZ3	38:BD:75:ILE:HD12	1.46	0.80
1:CA:624:C:H2'	1:CA:625:G:H8	1.46	0.80
3:CC:16:ARG:NH1	3:CC:16:ARG:HB2	1.96	0.80
36:DB:45:A:C1'	41:DG:95:ARG:HH12	1.94	0.80
48:DP:85:LEU:HD23	48:DP:114:ILE:HD11	1.64	0.80
35:BA:2312:U:H2'	35:BA:2313:C:H5''	1.62	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
56:BX:80:ILE:O	56:BX:80:ILE:HD13	1.82	0.80
1:CA:444:C:H2'	1:CA:445:G:C8	2.17	0.80
3:CC:101:LEU:HD23	3:CC:102:ASN:N	1.97	0.80
6:CF:68:PRO:HG2	6:CF:71:ARG:HG3	1.63	0.80
35:DA:279:C:C2'	35:DA:280:C:H5''	2.12	0.80
40:DF:28:ILE:HD13	40:DF:28:ILE:H	1.47	0.80
45:DK:78:ILE:HG21	45:DK:136:VAL:HG21	1.61	0.80
58:DZ:10:ARG:HH21	58:DZ:26:GLY:H	1.28	0.80
19:AS:10:PHE:HZ	19:AS:70:LYS:HZ3	1.28	0.80
30:B5:55:ARG:HD3	30:B5:56:LYS:N	1.93	0.80
35:BA:744:G:OP1	39:BE:132:HIS:HB3	1.81	0.80
48:BP:124:LYS:HA	48:BP:143:GLY:HA3	1.61	0.80
35:BA:631:A:OP1	48:BP:64:LYS:HE2	1.81	0.80
57:DY:28:LYS:CB	57:DY:37:VAL:HB	2.12	0.80
35:BA:279:C:C2'	35:BA:280:C:H5''	2.12	0.80
43:BI:5:LEU:O	43:BI:6:LEU:HG	1.82	0.80
57:BY:44:ILE:H	57:BY:62:GLU:CD	1.85	0.80
45:DK:23:VAL:HG13	45:DK:26:ALA:HB3	1.62	0.80
56:DX:35:THR:O	56:DX:39:ILE:HG12	1.81	0.80
1:AA:1116:C:C2'	1:AA:1117:G:H5''	2.11	0.80
35:BA:2491:U:H4'	35:BA:2570:G:OP1	1.82	0.80
40:BF:125:LEU:H	40:BF:125:LEU:HD23	1.45	0.80
43:BI:113:ARG:O	43:BI:131:LYS:HB2	1.82	0.80
52:BT:102:ILE:HB	52:BT:110:ILE:HD12	1.63	0.80
52:BT:29:ARG:HG2	52:BT:85:LYS:HA	1.62	0.80
1:CA:1137:C:H4'	1:CA:1138:G:C2	2.16	0.80
47:DO:107:ARG:NH1	52:DT:35:LYS:HB2	1.97	0.80
54:DV:18:LEU:CD1	54:DV:19:LYS:H	1.94	0.80
58:DZ:81:ARG:CB	58:DZ:81:ARG:HH11	1.94	0.80
3:AC:32:LEU:HB3	3:AC:59:ARG:NH2	1.97	0.79
7:AG:100:ALA:O	7:AG:104:LEU:HD23	1.81	0.79
57:BY:28:LYS:CB	57:BY:37:VAL:HB	2.11	0.79
57:DY:76:CYS:CB	57:DY:96:ILE:HD11	2.12	0.79
1:AA:444:C:H2'	1:AA:445:G:C8	2.17	0.79
38:BD:30:GLU:HG3	38:BD:63:ARG:CZ	2.12	0.79
48:BP:23:PRO:HD2	48:BP:33:ARG:HH21	1.45	0.79
53:BU:90:VAL:O	53:BU:92:ARG:N	2.15	0.79
7:CG:84:ASN:ND2	22:CW:37:A:H61	1.79	0.79
35:DA:1024:G:H3'	35:DA:1025:G:H5''	1.62	0.79
32:D7:11:LYS:HE2	35:DA:686:G:H5''	1.64	0.79
43:DI:46:ALA:O	43:DI:50:ARG:HG3	1.83	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:DO:104:ARG:HE	52:DT:33:LYS:HE3	1.46	0.79
52:DT:29:ARG:HG2	52:DT:85:LYS:HA	1.63	0.79
2:AB:231:GLU:HB2	2:AB:232:PRO:CD	2.13	0.79
3:AC:113:ALA:HB3	3:AC:114:PRO:HD3	1.64	0.79
3:AC:34:LEU:HD21	3:AC:38:ARG:HD2	1.63	0.79
24:AY:341:LEU:HD22	24:AY:344:LEU:HD11	1.63	0.79
52:BT:89:VAL:HG11	52:BT:91:ARG:NE	1.97	0.79
4:CD:30:LYS:C	4:CD:32:ALA:H	1.86	0.79
24:CY:115:ASN:HA	24:CY:176:ALA:HB3	1.62	0.79
31:D6:48:VAL:O	31:D6:49:HIS:CG	2.36	0.79
45:DK:78:ILE:HG23	45:DK:99:ILE:HD11	1.63	0.79
4:AD:49:ARG:HE	4:AD:49:ARG:HA	1.47	0.79
12:AL:70:ILE:HG12	12:AL:100:ILE:HD12	1.65	0.79
45:BK:14:ALA:HA	45:BK:45:THR:HG21	1.65	0.79
58:BZ:144:LEU:HD11	58:BZ:150:LEU:HB3	1.64	0.79
16:CP:28:ARG:HH11	16:CP:28:ARG:HG2	1.46	0.79
35:DA:1899:G:O2'	35:DA:1900:A:H5''	1.81	0.79
56:DX:12:VAL:HB	56:DX:17:ALA:CB	2.13	0.79
1:AA:1057:G:H5''	3:AC:154:SER:CB	2.13	0.79
31:B6:14:THR:O	31:B6:49:HIS:HA	1.82	0.79
35:BA:1403:C:H5''	35:BA:1471:A:H1'	1.64	0.79
33:B8:62:LEU:CD1	35:BA:242:G:H5''	2.10	0.79
35:BA:903:C:C2'	35:BA:904:C:H5''	2.11	0.79
42:BH:30:LYS:HE3	42:BH:81:GLU:N	1.97	0.79
3:CC:36:ASP:HB3	3:CC:40:ARG:HH12	1.46	0.79
47:DO:4:PRO:O	47:DO:5:GLN:HB2	1.82	0.79
49:DQ:16:ARG:HB3	49:DQ:18:LYS:NZ	1.95	0.79
52:DT:102:ILE:HB	52:DT:110:ILE:HD12	1.62	0.79
24:AY:36:PRO:HD3	45:BK:29:GLN:HA	1.64	0.79
40:BF:66:PRO:O	40:BF:67:GLN:HB3	1.81	0.79
47:BO:107:ARG:NH1	52:BT:35:LYS:HB2	1.97	0.79
49:BQ:137:TYR:OH	58:BZ:81:ARG:HD3	1.81	0.79
52:BT:85:LYS:HZ2	52:BT:85:LYS:HB3	1.47	0.79
53:BU:88:ILE:HG22	54:BV:47:VAL:HG23	1.64	0.79
24:CY:288:ARG:HH11	24:CY:288:ARG:HB3	1.46	0.79
24:CY:303:ARG:HH22	35:DA:1914:C:C2'	1.96	0.79
57:DY:96:ILE:HD12	57:DY:99:CYS:SG	2.23	0.79
1:AA:223:U:H2'	1:AA:224:C:H6	1.45	0.79
1:AA:939:G:H5''	7:AG:102:ARG:NH1	1.96	0.79
22:AW:38:A:H3'	22:AW:39:U:H5''	1.63	0.79
35:BA:2836:U:H2'	35:BA:2837:G:C8	2.18	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:BE:116:VAL:O	39:BE:117:MET:HB3	1.83	0.79
39:BE:9:VAL:HG22	39:BE:25:VAL:HB	1.64	0.79
41:BG:72:ARG:HD3	41:BG:86:MET:HA	1.62	0.79
45:BK:38:VAL:HG23	45:BK:39:LYS:H	1.48	0.79
50:BR:99:LYS:HB3	50:BR:99:LYS:HZ3	1.46	0.79
2:CB:141:GLU:O	2:CB:145:LEU:HB2	1.82	0.79
7:CG:100:ALA:O	7:CG:104:LEU:HD23	1.82	0.79
11:CK:85:ARG:HG2	11:CK:111:ASP:O	1.83	0.79
31:D6:46:HIS:CA	31:D6:47:THR:OG1	2.30	0.79
35:DA:676:A:H2	35:DA:802:A:H61	1.31	0.79
49:DQ:141:GLN:HB3	58:DZ:99:TYR:CE2	2.18	0.79
50:DR:24:GLN:NE2	50:DR:36:THR:HG21	1.97	0.79
11:AK:29:ILE:HG13	11:AK:44:SER:HB3	1.64	0.79
28:B3:40:THR:HG23	28:B3:43:ILE:HG12	1.65	0.79
1:CA:15:G:H4'	5:CE:24:ARG:NH1	1.97	0.79
3:CC:32:LEU:HB3	3:CC:59:ARG:NH2	1.97	0.79
24:CY:49:SER:O	24:CY:53:ALA:HB2	1.81	0.79
40:DF:66:PRO:O	40:DF:67:GLN:HB3	1.81	0.79
42:DH:30:LYS:HE3	42:DH:81:GLU:H	1.48	0.79
45:DK:92:GLY:HA3	58:DZ:112:ARG:HH12	1.45	0.79
1:AA:255:G:H1'	17:AQ:16:GLN:NE2	1.98	0.79
1:CA:973:G:H3'	1:CA:974:A:H5''	1.65	0.79
26:D1:51:VAL:HG21	26:D1:74:VAL:HG21	1.64	0.79
35:DA:1084:A:H5'	44:DJ:55:UNK:CB	2.12	0.79
48:DP:7:ARG:HA	48:DP:7:ARG:HH11	1.44	0.79
54:DV:52:VAL:HG23	54:DV:55:ALA:HB3	1.64	0.79
2:AB:91:PRO:HG3	2:AB:154:LEU:HB2	1.65	0.79
19:AS:43:GLU:HG2	19:AS:44:MET:HE1	1.65	0.79
35:BA:1054:A:H2'	35:BA:1055:G:H5''	1.66	0.79
35:BA:1639:U:C2'	35:BA:1640:C:H5''	2.13	0.79
35:BA:2660:A:H5'	35:BA:2661:G:C2	2.17	0.79
41:BG:40:ASN:HD22	41:BG:41:GLN:H	1.30	0.79
51:BS:13:ARG:CG	51:BS:14:VAL:H	1.94	0.79
51:BS:20:ARG:HA	51:BS:20:ARG:NE	1.97	0.79
52:BT:29:ARG:CG	52:BT:85:LYS:HA	2.13	0.79
1:CA:1278:U:H5''	1:CA:1279:A:O4'	1.83	0.79
28:D3:44:ARG:O	28:D3:48:GLU:HG2	1.83	0.79
35:DA:271(M):G:H2'	35:DA:271(N):U:H5''	1.64	0.79
41:DG:115:ARG:HG3	41:DG:116:ASP:N	1.98	0.79
41:DG:41:GLN:HB3	41:DG:43:LEU:HD13	1.63	0.79
1:AA:368:U:OP1	43:DI:91:SER:HB3	1.82	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AD:93:PHE:O	4:AD:97:LEU:HB2	1.82	0.78
9:AI:17:VAL:HG13	9:AI:81:ILE:HD13	1.63	0.78
19:AS:18:LYS:O	19:AS:22:LEU:HD23	1.83	0.78
27:B2:48:HIS:CE1	35:BA:96:G:H4'	2.18	0.78
40:BF:28:ILE:HD13	40:BF:28:ILE:H	1.48	0.78
45:BK:23:VAL:HG13	45:BK:26:ALA:HB3	1.63	0.78
48:BP:58:THR:O	48:BP:61:ARG:NE	2.16	0.78
4:CD:12:CYS:HA	4:CD:19:LEU:H	1.47	0.78
57:DY:76:CYS:HB3	57:DY:96:ILE:HD11	1.63	0.78
40:BF:3:GLU:O	40:BF:19:GLU:HB2	1.83	0.78
54:BV:52:VAL:HG23	54:BV:55:ALA:HB3	1.63	0.78
1:CA:601:C:H2'	1:CA:602:A:H8	1.47	0.78
24:CY:131:ASP:HA	24:CY:163:GLY:HA2	1.64	0.78
24:CY:41:ASP:HB3	24:CY:44:ALA:HB3	1.66	0.78
35:DA:1434:A:H61	35:DA:1558:A:H62	1.30	0.78
48:DP:17:LYS:O	48:DP:19:VAL:N	2.16	0.78
52:DT:65:LYS:CE	52:DT:66:VAL:H	1.95	0.78
52:DT:80:SER:HB3	52:DT:81:PRO:HD3	1.64	0.78
53:DU:88:ILE:HG22	54:DV:47:VAL:HG23	1.63	0.78
4:AD:12:CYS:HA	4:AD:19:LEU:H	1.48	0.78
24:AY:115:ASN:HD22	24:AY:170:LEU:CD1	1.96	0.78
28:B3:44:ARG:O	28:B3:48:GLU:HG2	1.83	0.78
41:BG:96:ARG:HG2	41:BG:97:ASP:N	1.98	0.78
47:BO:4:PRO:O	47:BO:5:GLN:HB2	1.81	0.78
52:BT:80:SER:HB3	52:BT:81:PRO:HD3	1.62	0.78
58:BZ:17:ALA:O	58:BZ:20:ARG:HG2	1.84	0.78
1:CA:1435:G:H2'	1:CA:1436:U:C6	2.18	0.78
19:CS:18:LYS:O	19:CS:22:LEU:HD23	1.82	0.78
24:CY:112:ALA:HA	24:CY:177:TYR:HD2	1.47	0.78
25:D0:74:ARG:HH22	36:DB:13:A:H8	1.30	0.78
33:D8:4:MET:HB2	33:D8:61:LEU:HD13	1.65	0.78
35:DA:1108:U:C2'	35:DA:1109:C:H5''	2.14	0.78
39:DE:24:THR:HG22	39:DE:186:GLY:HA2	1.65	0.78
42:DH:88:LEU:HD22	42:DH:130:ARG:HG2	1.66	0.78
3:AC:6:HIS:ND1	14:AN:49:HIS:HB3	1.98	0.78
1:AA:1305:G:H5'	21:AU:4:GLY:HA3	1.64	0.78
22:AV:41:C:C2'	22:AV:42:C:H5''	2.13	0.78
22:AW:39:U:H2'	22:AW:40:C:C5'	2.13	0.78
22:AW:47:U:O2'	22:AW:48:C:H5'	1.81	0.78
35:BA:174:C:H3'	35:BA:175:G:H5''	1.65	0.78
48:BP:146:VAL:HG22	48:BP:147:LEU:N	1.97	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
48:BP:7:ARG:HA	48:BP:7:ARG:HH11	1.45	0.78
3:CC:6:HIS:ND1	14:CN:49:HIS:HB3	1.98	0.78
6:CF:19:LEU:HD23	6:CF:19:LEU:O	1.84	0.78
24:CY:295:LEU:CD1	24:CY:299:ARG:HH21	1.97	0.78
35:DA:2590:A:OP2	38:DD:238:GLY:HA2	1.84	0.78
35:DA:2836:U:H2'	35:DA:2837:G:C8	2.17	0.78
38:DD:182:LEU:H	38:DD:272:ALA:HB3	1.48	0.78
1:AA:878:G:H5'	8:AH:89:PRO:HG2	1.65	0.78
1:AA:973:G:H3'	1:AA:974:A:H5''	1.64	0.78
3:AC:180:ALA:HB1	3:AC:203:PHE:HE1	1.49	0.78
10:AJ:49:VAL:HG23	14:AN:41:ARG:HB2	1.65	0.78
24:AY:109:PHE:HB2	24:AY:112:ALA:HB2	1.65	0.78
26:B1:41:ARG:HH22	35:BA:1365:A:H5'	1.49	0.78
43:BI:43:ASN:HA	43:BI:46:ALA:HB3	1.65	0.78
24:CY:150:GLN:HE21	24:CY:172:LYS:HZ3	1.30	0.78
24:CY:270:LYS:O	24:CY:274:LEU:HD13	1.82	0.78
31:D6:19:ARG:HD2	31:D6:43:CYS:HB2	1.65	0.78
33:D8:51:ALA:HA	33:D8:54:GLU:OE1	1.83	0.78
9:AI:53:VAL:HG12	9:AI:95:LYS:HE3	1.66	0.78
35:BA:271(M):G:H2'	35:BA:271(N):U:H5''	1.65	0.78
43:BI:73:GLU:OE1	43:BI:136:VAL:HG23	1.83	0.78
50:BR:24:GLN:NE2	50:BR:36:THR:HG21	1.97	0.78
1:CA:392:G:H2'	1:CA:393:A:H8	1.48	0.78
22:CV:26:A:H61	22:CV:44:G:H1	1.29	0.78
22:CW:57:G:H2'	22:CW:58:A:H5'	1.64	0.78
35:DA:1639:U:C2'	35:DA:1640:C:H5''	2.14	0.78
35:DA:672:C:C2'	35:DA:673:C:H5''	2.13	0.78
43:DI:92:VAL:CG1	43:DI:120:ILE:HB	2.14	0.78
53:DU:90:VAL:O	53:DU:92:ARG:N	2.16	0.78
58:DZ:158:PRO:HB2	58:DZ:161:VAL:HG21	1.66	0.78
47:BO:47:ILE:HG23	47:BO:48:PRO:HD2	1.66	0.78
52:BT:65:LYS:CE	52:BT:66:VAL:H	1.95	0.78
38:DD:108:PRO:HB3	38:DD:143:HIS:CE1	2.18	0.78
38:DD:8:PRO:HB3	38:DD:14:ARG:HB2	1.66	0.78
51:DS:89:ARG:HG2	51:DS:92:TYR:HA	1.66	0.78
47:BO:104:ARG:HE	52:BT:33:LYS:HE3	1.47	0.78
58:BZ:165:VAL:HG12	58:BZ:166:SER:N	1.98	0.78
1:CA:1305:G:H5'	21:CU:4:GLY:HA3	1.63	0.78
4:CD:196:LEU:HD12	4:CD:196:LEU:H	1.48	0.78
26:D1:51:VAL:O	26:D1:58:ILE:HG22	1.82	0.78
35:DA:2287:A:N6	35:DA:2344:U:H3	1.82	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:484:C:OP1	57:DY:50:ARG:HG3	1.84	0.78
43:DI:68:LEU:HG	43:DI:71:ILE:HD11	1.66	0.78
50:DR:99:LYS:HZ3	50:DR:99:LYS:HB3	1.48	0.78
11:AK:85:ARG:HG2	11:AK:111:ASP:O	1.83	0.78
20:AT:75:ASN:N	20:AT:75:ASN:HD22	1.81	0.78
35:BA:1048:A:H62	35:BA:1052:C:H42	1.31	0.78
35:BA:1378:A:H4'	35:BA:1379:A:OP1	1.81	0.78
35:BA:1884:A:C2'	35:BA:1885:A:H5''	2.13	0.78
46:BN:67:LEU:HD23	46:BN:87:LEU:HD13	1.66	0.78
58:BZ:44:PHE:CZ	58:BZ:86:VAL:HG11	2.19	0.78
1:CA:1005:A:N6	1:CA:1025:U:H4'	1.99	0.78
4:CD:49:ARG:HE	4:CD:49:ARG:HA	1.48	0.78
24:CY:181:SER:H	24:CY:182:PRO:HD2	1.48	0.78
45:DK:38:VAL:HG23	45:DK:39:LYS:H	1.48	0.78
1:AA:1278:U:H5''	1:AA:1279:A:O4'	1.82	0.78
30:B5:40:LYS:NZ	30:B5:49:CYS:SG	2.57	0.78
25:B0:41:ARG:NH2	35:BA:2387:U:H4'	1.98	0.78
43:BI:123:LEU:HD21	43:BI:142:VAL:HB	1.65	0.78
48:BP:88:LEU:H	48:BP:88:LEU:HD12	1.47	0.78
3:CC:175:LEU:HD21	3:CC:201:TYR:HE2	1.46	0.78
7:CG:79:ARG:HH21	23:CX:14:A:H61	1.33	0.78
44:DJ:27:UNK:C	44:DJ:84:UNK:HA	2.14	0.78
52:DT:16:ARG:HH12	52:DT:19:LEU:HD21	1.48	0.78
1:AA:1502:A:H2	1:AA:1505:G:N1	1.81	0.77
12:AL:47:LYS:HB3	12:AL:48:PRO:CD	2.14	0.77
24:AY:164:ILE:HD11	24:AY:167:ALA:HB2	1.66	0.77
35:BA:1210:A:C8	35:BA:1210:A:H5'	2.18	0.77
35:BA:903:C:H2'	35:BA:904:C:H5''	1.67	0.77
50:BR:7:GLY:HA3	50:BR:8:ARG:HH21	1.46	0.77
7:CG:15:ASP:HB3	7:CG:19:GLY:N	2.00	0.77
37:DC:54:ARG:HB3	37:DC:57:GLN:HB3	1.66	0.77
22:AW:68:C:H2'	22:AW:69:G:H8	1.47	0.77
35:BA:330:A:H2	35:BA:1210:A:H2'	1.49	0.77
24:CY:288:ARG:NH1	24:CY:288:ARG:HB3	1.98	0.77
1:AA:67:C:H2'	1:AA:68:G:C8	2.19	0.77
22:AV:27:G:H1	22:AV:43:C:H42	1.33	0.77
38:BD:44:ASN:HB2	38:BD:48:ARG:O	1.84	0.77
43:BI:53:ALA:O	43:BI:57:ARG:HB3	1.83	0.77
56:BX:50:LYS:HB3	56:BX:84:ALA:HB2	1.64	0.77
18:CR:37:VAL:HG23	18:CR:38:GLU:H	1.49	0.77
35:DA:1171:G:H3'	35:DA:1173:G:H4'	1.66	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:DE:9:VAL:HG22	39:DE:25:VAL:HB	1.64	0.77
47:DO:122:LEU:HD23	52:DT:43:GLN:HE22	1.50	0.77
1:AA:728:A:H2'	1:AA:729:A:H8	1.47	0.77
19:AS:78:ARG:HB2	19:AS:81:ARG:HH11	1.49	0.77
22:AW:70:G:H2'	22:AW:71:G:C5'	2.08	0.77
45:BK:20:ALA:HA	45:BK:25:PRO:HD3	1.63	0.77
1:CA:255:G:H1'	17:CQ:16:GLN:NE2	1.99	0.77
1:CA:392:G:H2'	1:CA:393:A:C8	2.19	0.77
43:DI:57:ARG:HG2	43:DI:61:ARG:HH12	1.49	0.77
51:DS:13:ARG:CG	51:DS:14:VAL:H	1.91	0.77
53:DU:8:VAL:HG23	53:DU:11:ARG:HH21	1.48	0.77
12:AL:57:LYS:HG2	12:AL:67:THR:HG22	1.65	0.77
10:AJ:49:VAL:CG2	14:AN:41:ARG:HB2	2.14	0.77
35:BA:2178:C:H4'	37:BC:47:LYS:HD3	1.66	0.77
57:BY:44:ILE:O	57:BY:62:GLU:HB3	1.84	0.77
22:CV:21:A:H2'	22:CV:22:G:H5''	1.65	0.77
26:D1:80:LEU:HB3	26:D1:82:LEU:HD22	1.66	0.77
43:DI:8:PRO:HG3	43:DI:14:ASP:HA	1.66	0.77
43:DI:49:ALA:O	43:DI:53:ALA:HB3	1.84	0.77
43:DI:72:LEU:HD12	43:DI:138:ILE:HD11	1.66	0.77
29:B4:20:ASN:HD22	29:B4:21:VAL:N	1.83	0.77
35:BA:1278:A:OP1	50:BR:36:THR:HG22	1.83	0.77
35:BA:650:C:H3'	35:BA:651:G:H5''	1.67	0.77
44:BJ:27:UNK:C	44:BJ:84:UNK:HA	2.15	0.77
48:BP:17:LYS:O	48:BP:19:VAL:N	2.17	0.77
52:BT:16:ARG:HH12	52:BT:19:LEU:HD21	1.49	0.77
58:BZ:101:PRO:O	58:BZ:102:LEU:HD12	1.84	0.77
58:BZ:20:ARG:HB2	58:BZ:20:ARG:HH11	1.48	0.77
1:CA:1057:G:H5''	3:CC:154:SER:CB	2.14	0.77
4:CD:176:LEU:HG	4:CD:178:VAL:H	1.48	0.77
33:D8:14:VAL:CG2	33:D8:22:VAL:HG13	2.14	0.77
35:DA:197:A:H8	35:DA:197:A:H5'	1.47	0.77
56:DX:50:LYS:HB3	56:DX:84:ALA:HB2	1.64	0.77
2:AB:124:SER:OG	2:AB:125:PRO:HD2	1.85	0.77
4:AD:196:LEU:HD12	4:AD:196:LEU:H	1.49	0.77
35:BA:296:C:O2'	35:BA:297:C:H5'	1.85	0.77
39:BE:59:VAL:HG13	39:BE:60:ASN:H	1.50	0.77
39:BE:77:ILE:HG22	39:BE:78:LEU:N	1.98	0.77
11:CK:29:ILE:HG13	11:CK:44:SER:HB3	1.67	0.77
24:CY:214:VAL:HG13	24:CY:215:ASP:H	1.47	0.77
35:DA:61:G:H1	35:DA:94:C:H42	1.28	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
48:DP:62:LEU:H	48:DP:62:LEU:HD23	1.46	0.77
53:DU:66:ASN:ND2	53:DU:76:TYR:H	1.83	0.77
57:DY:28:LYS:HB2	57:DY:37:VAL:HB	1.67	0.77
1:AA:1005:A:N6	1:AA:1025:U:H4'	2.00	0.77
7:AG:102:ARG:HG2	7:AG:106:GLN:HE21	1.48	0.77
19:AS:29:ARG:CD	19:AS:30:LEU:H	1.97	0.77
26:B1:5:CYS:SG	26:B1:62:VAL:HG23	2.25	0.77
30:B5:11:THR:CG2	35:BA:1264:G:H5'	2.15	0.77
33:B8:51:ALA:HA	33:B8:54:GLU:OE1	1.83	0.77
35:BA:365:C:H6	35:BA:365:C:H5'	1.50	0.77
35:BA:1084:A:H5'	44:BJ:55:UNK:CB	2.14	0.77
52:BT:83:ILE:HG13	52:BT:84:GLN:H	1.50	0.77
58:BZ:14:LYS:HB3	58:BZ:17:ALA:HB3	1.67	0.77
2:CB:91:PRO:HG3	2:CB:154:LEU:HB2	1.65	0.77
5:CE:100:VAL:HG12	5:CE:118:ILE:HG22	1.65	0.77
42:DH:144:VAL:O	42:DH:148:ILE:HG12	1.85	0.77
46:DN:120:LEU:O	46:DN:121:LYS:HD2	1.85	0.77
48:DP:58:THR:O	48:DP:61:ARG:NE	2.18	0.77
1:AA:976:G:N2	1:AA:1362:C:H2'	2.00	0.77
24:AY:141:THR:HG22	24:AY:145:GLU:OE2	1.85	0.77
33:B8:33:ASN:O	33:B8:34:TRP:HB3	1.84	0.77
35:BA:1434:A:H61	35:BA:1558:A:H62	1.31	0.77
37:BC:54:ARG:HB3	37:BC:57:GLN:HB3	1.66	0.77
48:BP:29:LYS:HB3	48:BP:34:GLY:H	1.50	0.77
5:CE:6:PHE:HB2	5:CE:34:VAL:HG22	1.65	0.77
7:CG:15:ASP:HB3	7:CG:19:GLY:H	1.50	0.77
8:CH:91:ARG:HG2	8:CH:91:ARG:HH11	1.49	0.77
22:CV:41:C:C3'	22:CV:42:C:H5''	2.14	0.77
24:CY:81:ALA:HB1	24:CY:84:ARG:HH21	1.50	0.77
35:DA:1210:A:C8	35:DA:1210:A:H5'	2.19	0.77
35:DA:2660:A:H5'	35:DA:2661:G:C2	2.20	0.77
35:DA:613:G:C8	35:DA:613:G:H5'	2.20	0.77
45:DK:14:ALA:HA	45:DK:45:THR:HG21	1.65	0.77
53:DU:47:TYR:HA	53:DU:50:ARG:NH2	2.00	0.77
54:DV:47:VAL:HG11	54:DV:51:VAL:HA	1.66	0.77
2:AB:208:ILE:HA	2:AB:211:ILE:HD12	1.66	0.77
24:AY:231:VAL:HG12	24:AY:249:VAL:HG12	1.67	0.77
38:BD:131:LEU:HD13	38:BD:136:ILE:HG12	1.65	0.77
40:BF:22:ALA:O	40:BF:26:ALA:HB2	1.85	0.77
41:BG:98:ARG:HA	41:BG:101:ILE:HD12	1.66	0.77
58:BZ:58:VAL:HG13	58:BZ:66:SER:HB2	1.67	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:1355:G:H2'	1:CA:1356:G:H8	1.49	0.77
6:CF:100:ASN:O	18:CR:28:GLU:HG2	1.85	0.77
29:D4:20:ASN:ND2	29:D4:21:VAL:H	1.83	0.77
35:DA:1048:A:H62	35:DA:1052:C:H42	1.33	0.77
35:DA:1280:G:H2'	35:DA:1281:G:H5''	1.67	0.77
35:DA:1899:G:H22	35:DA:1902:C:N4	1.74	0.77
35:DA:2103:C:C3'	35:DA:2104:G:H5''	2.14	0.77
41:DG:114:ILE:HG22	41:DG:115:ARG:HG2	1.65	0.77
46:DN:128:HIS:HD2	46:DN:130:HIS:H	1.33	0.77
54:DV:18:LEU:HD13	54:DV:19:LYS:N	2.00	0.77
1:AA:15:G:H4'	5:AE:24:ARG:NH1	1.99	0.76
8:AH:88:LYS:HB3	8:AH:89:PRO:HD2	1.67	0.76
22:AW:25:C:H2'	22:AW:26:A:H8	1.50	0.76
46:BN:55:VAL:HG22	46:BN:126:PRO:HA	1.67	0.76
1:CA:878:G:H5'	8:CH:89:PRO:HG2	1.67	0.76
20:CT:11:SER:HA	20:CT:13:LEU:HD12	1.67	0.76
28:D3:40:THR:HG23	28:D3:43:ILE:HG12	1.67	0.76
38:DD:44:ASN:CB	38:DD:49:ILE:HA	2.14	0.76
48:DP:18:ARG:HB3	48:DP:18:ARG:NH1	1.99	0.76
50:DR:98:LEU:HB2	50:DR:113:LEU:HD21	1.67	0.76
58:DZ:134:PRO:HB2	58:DZ:137:ILE:HD11	1.67	0.76
1:AA:1513:A:H2'	1:AA:1514:C:C6	2.20	0.76
4:AD:112:VAL:HG12	4:AD:116:GLN:OE1	1.86	0.76
1:CA:954:G:H21	1:CA:1227:A:H62	1.33	0.76
4:CD:110:PHE:HD1	4:CD:110:PHE:H	1.32	0.76
13:CM:124:PRO:N	24:CY:162:ALA:HA	2.00	0.76
35:DA:2491:U:H4'	35:DA:2570:G:OP1	1.85	0.76
39:DE:64:LYS:C	39:DE:66:HIS:H	1.88	0.76
7:AG:113:GLU:CG	7:AG:119:ARG:HG2	2.15	0.76
35:BA:2189:U:C3'	35:BA:2190:G:H5''	2.15	0.76
38:BD:108:PRO:HB3	38:BD:143:HIS:CE1	2.20	0.76
38:DD:30:GLU:HG3	38:DD:63:ARG:CZ	2.15	0.76
39:DE:77:ILE:CG2	39:DE:78:LEU:H	1.92	0.76
47:DO:77:ILE:HD13	52:DT:74:ARG:HD3	1.67	0.76
52:DT:38:ASN:ND2	52:DT:39:ARG:N	2.34	0.76
57:DY:2:ARG:N	57:DY:5:MET:HG3	2.00	0.76
1:AA:954:G:H21	1:AA:1227:A:H62	1.31	0.76
2:AB:194:PRO:HG2	2:AB:195:ASP:OD1	1.85	0.76
8:AH:36:LEU:HA	8:AH:39:LEU:HD23	1.67	0.76
29:B4:20:ASN:ND2	29:B4:21:VAL:H	1.82	0.76
42:BH:153:LYS:H	42:BH:153:LYS:HD3	1.50	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
48:BP:85:LEU:HD23	48:BP:114:ILE:HD11	1.67	0.76
50:BR:99:LYS:HB3	50:BR:99:LYS:NZ	1.99	0.76
1:CA:728:A:H2'	1:CA:729:A:H8	1.49	0.76
22:CW:28:G:H2'	22:CW:29:G:C8	2.20	0.76
22:CW:77:PHA:HB2	26:D1:33:LYS:NZ	2.01	0.76
35:DA:174:C:H3'	35:DA:175:G:H5''	1.66	0.76
36:DB:7:G:C3'	36:DB:8:U:H5''	2.14	0.76
50:DR:7:GLY:HA3	50:DR:8:ARG:HH21	1.47	0.76
50:DR:99:LYS:HB3	50:DR:99:LYS:NZ	1.99	0.76
1:AA:392:G:H2'	1:AA:393:A:C8	2.21	0.76
2:AB:166:ASP:HB3	2:AB:169:LYS:HB2	1.68	0.76
7:AG:146:GLU:HG2	7:AG:149:ARG:HH12	1.50	0.76
21:AU:9:ARG:HA	21:AU:9:ARG:HH11	1.50	0.76
57:BY:88:LYS:HZ3	57:BY:93:GLY:HA3	1.49	0.76
2:CB:124:SER:OG	2:CB:125:PRO:HD2	1.85	0.76
9:CI:53:VAL:HG12	9:CI:95:LYS:HE3	1.66	0.76
10:CJ:49:VAL:HG23	14:CN:41:ARG:HB2	1.67	0.76
20:CT:56:MET:HG3	20:CT:84:LEU:CD1	2.15	0.76
24:CY:130:CYS:HB3	24:CY:164:ILE:H	1.49	0.76
31:D6:41:PRO:HD2	31:D6:46:HIS:CB	2.09	0.76
40:DF:3:GLU:O	40:DF:19:GLU:HB2	1.84	0.76
1:AA:1294:G:H2'	1:AA:1295:G:H8	1.51	0.76
5:AE:6:PHE:HB2	5:AE:34:VAL:HG22	1.66	0.76
24:AY:244:THR:HG21	35:BA:2452:C:H5''	1.67	0.76
35:BA:2287:A:N6	35:BA:2344:U:H3	1.82	0.76
38:BD:182:LEU:H	38:BD:272:ALA:HB3	1.50	0.76
35:DA:1054:A:H2'	35:DA:1055:G:H5''	1.66	0.76
38:DD:92:ILE:H	38:DD:92:ILE:HD13	1.51	0.76
52:DT:28:VAL:O	52:DT:28:VAL:HG12	1.83	0.76
52:DT:29:ARG:CG	52:DT:85:LYS:HA	2.14	0.76
24:AY:227:LEU:HD22	24:AY:251:VAL:HG12	1.66	0.76
29:B4:12:ALA:HB1	29:B4:29:PRO:HA	1.68	0.76
30:B5:33:CYS:HB2	30:B5:40:LYS:HE3	1.67	0.76
31:B6:19:ARG:HD2	31:B6:43:CYS:HB2	1.67	0.76
33:B8:14:VAL:CG2	33:B8:22:VAL:HG13	2.15	0.76
37:BC:7:ARG:HD3	37:BC:35:THR:O	1.86	0.76
35:BA:271(M):G:H5''	43:BI:57:ARG:NH1	2.00	0.76
57:BY:76:CYS:HB3	57:BY:96:ILE:HD11	1.67	0.76
58:BZ:125:LEU:CD2	58:BZ:164:ALA:HB3	2.16	0.76
7:CG:113:GLU:CG	7:CG:119:ARG:HG2	2.16	0.76
20:CT:75:ASN:N	20:CT:75:ASN:HD22	1.80	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:CY:344:LEU:HD23	24:CY:344:LEU:H	1.49	0.76
35:DA:482:A:H4'	57:DY:47:LYS:HG2	1.67	0.76
46:DN:55:VAL:HG22	46:DN:126:PRO:HA	1.66	0.76
5:AE:100:VAL:HG12	5:AE:118:ILE:HG22	1.68	0.76
5:AE:93:PRO:HG2	8:AH:105:ARG:HH21	1.51	0.76
16:AP:28:ARG:HG2	16:AP:28:ARG:HH11	1.51	0.76
24:AY:181:SER:N	24:AY:182:PRO:HD2	1.99	0.76
24:AY:267:SER:OG	24:AY:270:LYS:HB2	1.85	0.76
42:BH:144:VAL:O	42:BH:148:ILE:HG12	1.84	0.76
52:BT:23:ARG:O	52:BT:25:GLY:N	2.19	0.76
53:BU:91:ASP:CG	53:BU:96:ALA:HB2	2.06	0.76
3:CC:180:ALA:HB1	3:CC:203:PHE:HE1	1.50	0.76
12:CL:70:ILE:HG12	12:CL:100:ILE:HD12	1.66	0.76
16:CP:13:HIS:O	16:CP:15:PRO:HD3	1.85	0.76
16:CP:53:VAL:HG12	16:CP:79:VAL:HG22	1.68	0.76
26:D1:92:LYS:HE2	35:DA:153:C:OP1	1.86	0.76
39:DE:59:VAL:HG13	39:DE:60:ASN:H	1.50	0.76
40:DF:107:LYS:HA	40:DF:107:LYS:HZ2	1.50	0.76
51:DS:20:ARG:HA	51:DS:20:ARG:NE	1.98	0.76
1:AA:377:G:H2'	1:AA:378:G:H8	1.51	0.76
35:BA:2103:C:C3'	35:BA:2104:G:H5''	2.15	0.76
35:BA:2562:U:H1'	47:BO:23:ARG:HH11	1.50	0.76
4:CD:112:VAL:HG12	4:CD:116:GLN:OE1	1.86	0.76
6:CF:77:ARG:HB3	6:CF:77:ARG:HH11	1.48	0.76
1:CA:235:C:H5'	17:CQ:70:ARG:HG2	1.66	0.76
1:AA:392:G:H2'	1:AA:393:A:H8	1.50	0.76
4:CD:176:LEU:CG	4:CD:177:ASP:H	1.99	0.76
19:CS:29:ARG:CD	19:CS:30:LEU:H	1.97	0.76
22:CW:28:G:H2'	22:CW:29:G:H8	1.51	0.76
1:AA:1502:A:H2	1:AA:1505:G:H1	1.35	0.75
19:AS:48:THR:HG22	19:AS:61:TYR:HA	1.68	0.75
20:AT:56:MET:HG3	20:AT:84:LEU:CD1	2.16	0.75
36:BB:7:G:C3'	36:BB:8:U:H5''	2.16	0.75
41:BG:101:ILE:O	41:BG:105:LYS:HG3	1.86	0.75
12:CL:47:LYS:HB3	12:CL:48:PRO:HD3	1.68	0.75
13:CM:124:PRO:HD2	24:CY:163:GLY:N	2.01	0.75
22:CW:16:U:H3'	22:CW:17:C:C5'	2.13	0.75
26:D1:64:ALA:HA	26:D1:67:ILE:HG13	1.67	0.75
24:CY:303:ARG:CZ	35:DA:1914:C:H1'	2.14	0.75
48:DP:17:LYS:O	48:DP:19:VAL:HG22	1.86	0.75
1:AA:1355:G:H2'	1:AA:1356:G:H8	1.49	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:235:C:H5'	17:AQ:70:ARG:HG2	1.68	0.75
3:AC:16:ARG:NH1	3:AC:16:ARG:HB2	2.01	0.75
4:AD:110:PHE:H	4:AD:110:PHE:HD1	1.31	0.75
16:AP:53:VAL:HG12	16:AP:79:VAL:HG22	1.67	0.75
17:AQ:7:THR:HG22	17:AQ:58:GLU:HG2	1.68	0.75
18:AR:37:VAL:HG23	18:AR:38:GLU:H	1.49	0.75
22:AW:56:C:H2'	22:AW:57:G:C8	2.21	0.75
26:B1:50:ARG:HG2	26:B1:59:THR:HG22	1.67	0.75
48:BP:18:ARG:NH1	48:BP:18:ARG:HB3	2.01	0.75
54:BV:64:HIS:ND1	54:BV:92:THR:HG22	2.00	0.75
57:BY:2:ARG:N	57:BY:5:MET:HG3	2.01	0.75
1:CA:1513:A:H2'	1:CA:1514:C:C6	2.21	0.75
1:CA:67:C:H2'	1:CA:68:G:C8	2.20	0.75
8:CH:36:LEU:HA	8:CH:39:LEU:HD23	1.69	0.75
35:DA:2189:U:C3'	35:DA:2190:G:H5''	2.15	0.75
46:DN:120:LEU:CD1	46:DN:122:VAL:HG23	2.16	0.75
1:AA:405:U:H3'	1:AA:406:G:H5'	1.68	0.75
1:AA:737:A:H2'	1:AA:738:C:C6	2.21	0.75
15:AO:33:THR:HG21	15:AO:85:LEU:CD2	2.16	0.75
20:AT:11:SER:HA	20:AT:13:LEU:HD12	1.66	0.75
27:B2:19:VAL:O	27:B2:22:GLU:HG2	1.87	0.75
29:B4:10:VAL:N	41:BG:98:ARG:HH22	1.83	0.75
35:BA:1019:U:O2'	35:BA:1021:A:H2	1.67	0.75
41:BG:32:PRO:HG2	41:BG:172:LEU:HD12	1.66	0.75
48:BP:62:LEU:HD23	48:BP:62:LEU:H	1.49	0.75
1:CA:976:G:N2	1:CA:1362:C:H2'	2.00	0.75
10:CJ:49:VAL:CG2	14:CN:41:ARG:HB2	2.15	0.75
19:CS:48:THR:HG22	19:CS:61:TYR:HA	1.68	0.75
27:D2:5:GLU:O	27:D2:9:GLN:HG3	1.86	0.75
35:DA:1779:U:C5	35:DA:1784:A:N7	2.50	0.75
35:DA:1884:A:C2'	35:DA:1885:A:H5''	2.14	0.75
35:DA:272(G):C:H3'	35:DA:272(H):C:H5''	1.68	0.75
57:DY:10:GLY:CA	57:DY:27:VAL:HG13	2.12	0.75
6:AF:77:ARG:HH11	6:AF:77:ARG:HB3	1.48	0.75
13:AM:125:ARG:CG	24:AY:160:PRO:HD2	2.16	0.75
35:BA:2120:G:H2'	35:BA:2121:G:C8	2.21	0.75
38:BD:72:LYS:NZ	38:BD:75:ILE:HD12	2.01	0.75
45:BK:55:VAL:HG22	45:BK:69:THR:HG23	1.68	0.75
1:CA:1425:U:H2'	1:CA:1426:C:H6	1.49	0.75
1:CA:377:G:H2'	1:CA:378:G:H8	1.51	0.75
1:CA:532:A:N6	3:CC:156:ARG:HH12	1.83	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CB:101:MET:HA	2:CB:108:ILE:HG13	1.68	0.75
13:CM:32:GLU:O	13:CM:35:GLU:HG2	1.85	0.75
31:D6:41:PRO:CG	31:D6:47:THR:CG2	2.63	0.75
57:DY:28:LYS:CA	57:DY:38:ILE:HG22	2.15	0.75
5:AE:92:LYS:O	5:AE:118:ILE:HD12	1.86	0.75
8:AH:91:ARG:HH11	8:AH:91:ARG:HG2	1.49	0.75
19:AS:11:VAL:HG13	19:AS:16:LEU:HD11	1.68	0.75
43:BI:133:HIS:O	43:BI:135:GLU:HG3	1.86	0.75
5:CE:92:LYS:O	5:CE:118:ILE:HD12	1.86	0.75
41:DG:45:GLU:O	41:DG:88:ILE:HG12	1.87	0.75
48:DP:23:PRO:HD2	48:DP:33:ARG:NH2	2.00	0.75
58:DZ:146:ILE:HG13	58:DZ:147:GLY:H	1.52	0.75
7:AG:15:ASP:HB3	7:AG:19:GLY:N	2.01	0.75
26:B1:45:ASN:ND2	26:B1:47:GLN:NE2	2.33	0.75
38:BD:44:ASN:CB	38:BD:49:ILE:HA	2.15	0.75
58:BZ:166:SER:HB2	58:BZ:168:GLU:H	1.45	0.75
10:CJ:6:ILE:HG22	10:CJ:98:ILE:HG13	1.69	0.75
17:CQ:7:THR:HG22	17:CQ:58:GLU:HG2	1.67	0.75
22:CW:19:G:H2'	22:CW:20:U:C6	2.21	0.75
33:D8:32:LEU:HD11	35:DA:2392:A:OP1	1.86	0.75
35:DA:2524:G:H8	35:DA:2524:G:H5'	1.52	0.75
40:DF:22:ALA:O	40:DF:26:ALA:HB2	1.87	0.75
1:AA:674:G:H2'	1:AA:675:A:H8	1.51	0.75
13:AM:32:GLU:O	13:AM:35:GLU:HG2	1.85	0.75
35:BA:1348:G:C2'	35:BA:1349:A:H5''	2.16	0.75
42:BH:88:LEU:HD22	42:BH:130:ARG:HG2	1.69	0.75
57:BY:28:LYS:HB2	57:BY:37:VAL:HB	1.66	0.75
1:CA:737:A:H2'	1:CA:738:C:C6	2.22	0.75
2:CB:120:ALA:O	2:CB:121:LEU:HD23	1.87	0.75
8:CH:101:PRO:HG2	8:CH:133:LEU:HD11	1.69	0.75
35:DA:1348:G:C2'	35:DA:1349:A:H5''	2.15	0.75
35:DA:2850:A:OP2	35:DA:2866:U:H5	1.68	0.75
39:DE:111:ARG:HD2	39:DE:160:TYR:CE1	2.22	0.75
45:DK:11:GLN:HB2	45:DK:52:ILE:HD11	1.69	0.75
48:DP:16:ARG:C	48:DP:16:ARG:HH11	1.90	0.75
24:AY:81:ALA:HB3	24:AY:84:ARG:HB2	1.68	0.75
39:BE:111:ARG:HD2	39:BE:160:TYR:CE1	2.22	0.75
22:CW:19:G:H2'	22:CW:20:U:C5	2.21	0.75
24:CY:303:ARG:HH22	35:DA:1914:C:H1'	0.60	0.75
30:D5:11:THR:CG2	35:DA:1264:G:H5'	2.16	0.75
35:DA:654(A):G:C2'	35:DA:654(B):C:H5'	2.17	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
53:DU:91:ASP:CG	53:DU:96:ALA:HB2	2.06	0.75
57:DY:96:ILE:HB	57:DY:99:CYS:HB2	1.69	0.75
1:AA:491:G:H2'	1:AA:492:G:H8	1.52	0.75
35:BA:1171:G:H3'	35:BA:1173:G:H4'	1.68	0.75
46:BN:48:MET:H	46:BN:48:MET:HE3	1.52	0.75
57:BY:20:TYR:CZ	57:BY:42:VAL:HA	2.21	0.75
1:CA:1163:C:H2'	1:CA:1164:G:H8	1.51	0.75
10:CJ:4:ILE:H	10:CJ:4:ILE:HD12	1.51	0.75
24:CY:186:VAL:HB	24:CY:309:SER:O	1.87	0.75
24:CY:80:PRO:HB3	24:CY:85:GLU:OE1	1.87	0.75
33:D8:33:ASN:H	33:D8:33:ASN:ND2	1.82	0.75
25:D0:41:ARG:NH2	35:DA:2387:U:H4'	2.00	0.75
36:DB:86:G:H1	36:DB:91:C:H42	1.34	0.75
43:DI:47:LEU:HA	43:DI:50:ARG:HD2	1.68	0.75
35:BA:626:U:O2	48:BP:105:LEU:HG	1.87	0.74
43:BI:72:LEU:HD21	43:BI:107:VAL:HG11	1.69	0.74
43:BI:128:LEU:HD13	43:BI:129:THR:N	2.02	0.74
48:BP:23:PRO:HB2	48:BP:33:ARG:NE	2.01	0.74
2:CB:208:ILE:HA	2:CB:211:ILE:HD12	1.69	0.74
30:D5:55:ARG:HD3	30:D5:56:LYS:N	1.94	0.74
31:D6:39:TYR:O	31:D6:46:HIS:CG	2.40	0.74
33:D8:59:LYS:HD3	48:DP:50:ARG:HB3	1.69	0.74
35:DA:626:U:O2	48:DP:105:LEU:HG	1.87	0.74
38:DD:44:ASN:HB2	38:DD:48:ARG:O	1.87	0.74
46:DN:18:ALA:HB1	46:DN:21:LYS:HB2	1.68	0.74
54:DV:89:GLN:OE1	54:DV:90:PRO:HD2	1.87	0.74
2:AB:98:LEU:O	2:AB:101:MET:HG3	1.87	0.74
4:AD:176:LEU:CG	4:AD:177:ASP:H	1.98	0.74
9:AI:115:GLY:O	9:AI:116:LYS:HG3	1.87	0.74
25:B0:70:GLN:NE2	25:B0:80:HIS:HE2	1.85	0.74
43:BI:46:ALA:O	43:BI:50:ARG:HG3	1.87	0.74
52:BT:53:ARG:HB2	52:BT:53:ARG:HH11	1.52	0.74
53:BU:101:ARG:NH1	53:BU:101:ARG:HB2	2.03	0.74
54:BV:18:LEU:HD13	54:BV:19:LYS:N	2.00	0.74
2:CB:166:ASP:HB3	2:CB:169:LYS:HB2	1.68	0.74
5:CE:150:ARG:HA	5:CE:153:LYS:HE2	1.69	0.74
33:D8:33:ASN:O	33:D8:34:TRP:HB3	1.86	0.74
35:DA:2178:C:H4'	37:DC:47:LYS:HD3	1.68	0.74
37:DC:7:ARG:HD3	37:DC:35:THR:O	1.86	0.74
35:DA:910:A:C5	49:DQ:13:GLN:HG3	2.22	0.74
52:DT:23:ARG:O	52:DT:25:GLY:N	2.19	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
58:DZ:44:PHE:CE2	58:DZ:86:VAL:HG11	2.22	0.74
4:AD:86:LYS:CE	4:AD:87:GLY:H	1.91	0.74
12:AL:25:PRO:O	12:AL:27:LEU:HD13	1.88	0.74
35:BA:654(A):G:C2'	35:BA:654(B):C:H5'	2.18	0.74
43:BI:120:ILE:HG23	43:BI:126:TYR:CZ	2.21	0.74
1:CA:405:U:H3'	1:CA:406:G:H5'	1.68	0.74
2:CB:170:GLU:O	2:CB:174:VAL:HG23	1.86	0.74
21:CU:9:ARG:HH11	21:CU:9:ARG:HA	1.50	0.74
24:CY:25:ARG:HH11	24:CY:29:LEU:HD23	1.51	0.74
33:D8:27:THR:HG22	48:DP:62:LEU:HD22	1.69	0.74
50:DR:52:ILE:HD13	50:DR:79:LEU:HD21	1.68	0.74
10:AJ:48:THR:HA	10:AJ:62:HIS:HB3	1.70	0.74
31:B6:45:LYS:NZ	35:BA:2370:G:H21	1.86	0.74
35:BA:2850:A:OP2	35:BA:2866:U:H5	1.70	0.74
40:BF:157:VAL:CG1	40:BF:194:MET:HG2	2.17	0.74
45:BK:28:GLY:HA2	45:BK:32:ALA:HB3	1.69	0.74
1:CA:1107:C:C2'	1:CA:1108:G:H5''	2.16	0.74
2:CB:224:GLN:HA	2:CB:229:VAL:HG22	1.69	0.74
12:CL:89:ARG:HA	12:CL:97:ARG:HA	1.69	0.74
14:CN:23:ARG:NH1	14:CN:30:ALA:HB2	2.02	0.74
22:CV:1:G:H2'	22:CV:2:C:H6	1.50	0.74
22:CW:50:U:H4'	22:CW:65:G:N2	2.03	0.74
35:DA:271(P):C:O2'	35:DA:271(Q):G:H5'	1.87	0.74
41:DG:146:TYR:O	41:DG:149:VAL:HG22	1.88	0.74
44:DJ:22:UNK:O	44:DJ:119:UNK:HA	1.87	0.74
50:DR:7:GLY:O	50:DR:8:ARG:HB2	1.87	0.74
57:DY:88:LYS:HZ3	57:DY:93:GLY:HA3	1.49	0.74
3:AC:71:ALA:HB2	3:AC:106:VAL:HB	1.69	0.74
8:AH:101:PRO:HG2	8:AH:133:LEU:HD11	1.67	0.74
8:AH:6:ILE:H	8:AH:6:ILE:HD12	1.51	0.74
24:AY:149:PHE:HD1	24:AY:173:GLY:HA3	1.53	0.74
35:BA:654(R):C:H2'	35:BA:654(S):G:C8	2.22	0.74
35:BA:484:C:OP1	57:BY:50:ARG:HG3	1.87	0.74
58:BZ:89:PHE:HE1	58:BZ:96:VAL:HG21	1.51	0.74
10:CJ:38:ILE:HD11	10:CJ:71:LEU:HD23	1.68	0.74
35:DA:2653:U:C5'	35:DA:2654:A:H5''	2.18	0.74
43:DI:88:ILE:HG22	43:DI:90:GLY:N	2.03	0.74
35:DA:2723:C:H5''	50:DR:2:ARG:NH1	2.01	0.74
1:AA:1003:G:H2'	1:AA:1004:A:O4'	1.88	0.74
1:AA:1343:G:H2'	1:AA:1344:C:C6	2.22	0.74
22:AV:40:C:H2'	22:AV:41:C:H6	1.52	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:AW:38:A:C3'	22:AW:39:U:H5''	2.18	0.74
33:B8:33:ASN:H	33:B8:33:ASN:ND2	1.83	0.74
35:BA:2579:C:O3'	39:BE:131:ALA:HB2	1.88	0.74
35:BA:607:U:H3	35:BA:621:A:H2	1.35	0.74
50:BR:52:ILE:HD13	50:BR:79:LEU:HD21	1.70	0.74
5:CE:50:GLU:HG3	5:CE:52:PRO:HD2	1.69	0.74
22:CW:57:G:C2'	22:CW:58:A:H5'	2.18	0.74
24:CY:238:GLY:HA3	24:CY:242:VAL:CB	2.16	0.74
35:DA:2579:C:O3'	39:DE:131:ALA:HB2	1.86	0.74
41:DG:39:ILE:HG13	41:DG:92:VAL:HG12	1.67	0.74
48:DP:71:VAL:HG13	48:DP:72:PRO:HD3	1.70	0.74
54:DV:46:VAL:HG12	54:DV:47:VAL:N	2.02	0.74
22:AV:72:C:C3'	22:AV:73:A:H5''	2.16	0.74
39:BE:64:LYS:C	39:BE:66:HIS:H	1.88	0.74
40:BF:83:PHE:O	40:BF:85:GLY:N	2.21	0.74
46:BN:1:MET:HG2	46:BN:2:LYS:N	2.02	0.74
48:BP:114:ILE:HD12	48:BP:115:LEU:H	1.52	0.74
35:BA:910:A:C5	49:BQ:13:GLN:HG3	2.22	0.74
57:BY:96:ILE:HB	57:BY:99:CYS:HB2	1.68	0.74
2:CB:194:PRO:HG2	2:CB:195:ASP:OD1	1.87	0.74
3:CC:121:ALA:HB2	3:CC:198:VAL:HG21	1.70	0.74
12:CL:25:PRO:O	12:CL:27:LEU:HD13	1.87	0.74
15:CO:33:THR:HG21	15:CO:85:LEU:CD2	2.17	0.74
35:DA:2661:G:H2'	35:DA:2662:A:C2	2.23	0.74
35:DA:654(R):C:H2'	35:DA:654(S):G:C8	2.22	0.74
45:DK:55:VAL:HG22	45:DK:69:THR:HG23	1.68	0.74
46:DN:3:THR:O	46:DN:5:VAL:N	2.21	0.74
51:DS:59:LYS:HG2	51:DS:60:GLY:H	1.53	0.74
1:AA:17:U:H2'	1:AA:18:C:C6	2.23	0.74
3:AC:121:ALA:HB2	3:AC:198:VAL:HG21	1.68	0.74
5:AE:50:GLU:HG3	5:AE:52:PRO:HD2	1.69	0.74
35:BA:2317:C:C2'	35:BA:2318:G:H5'	2.17	0.74
35:BA:271(P):C:O2'	35:BA:271(Q):G:H5'	1.87	0.74
46:BN:19:GLU:HG3	46:BN:20:GLY:H	1.51	0.74
53:BU:66:ASN:ND2	53:BU:76:TYR:H	1.84	0.74
3:CC:71:ALA:HB2	3:CC:106:VAL:HB	1.70	0.74
31:D6:39:TYR:O	31:D6:46:HIS:CB	2.36	0.74
38:DD:35:LYS:HG3	38:DD:63:ARG:HD2	1.68	0.74
46:DN:1:MET:HG2	46:DN:2:LYS:N	2.01	0.74
54:DV:19:LYS:HB3	54:DV:94:LEU:O	1.87	0.74
7:AG:15:ASP:HB3	7:AG:19:GLY:H	1.52	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:AG:84:ASN:CB	22:AW:38:A:H61	2.01	0.74
22:AW:8:U:O2	22:AW:8:U:H2'	1.87	0.74
35:BA:2302:G:N3	41:BG:128:ARG:HG3	2.03	0.74
35:BA:2653:U:C5'	35:BA:2654:A:H5''	2.17	0.74
35:BA:613:G:H5'	35:BA:613:G:C8	2.23	0.74
38:BD:80:ALA:HB3	38:BD:94:LEU:HD13	1.68	0.74
38:BD:92:ILE:HD13	38:BD:92:ILE:H	1.51	0.74
39:BE:24:THR:HG22	39:BE:186:GLY:HA2	1.69	0.74
43:BI:62:LYS:HG2	43:BI:133:HIS:NE2	2.03	0.74
46:BN:128:HIS:HD2	46:BN:130:HIS:H	1.35	0.74
57:BY:50:ARG:HB2	57:BY:57:GLN:HA	1.70	0.74
58:BZ:99:TYR:CE2	58:BZ:125:LEU:HD12	2.22	0.74
58:BZ:42:VAL:HG13	58:BZ:43:GLU:N	2.00	0.74
1:CA:192:U:H2'	1:CA:193:C:C6	2.22	0.74
1:CA:491:G:H2'	1:CA:492:G:H8	1.51	0.74
22:CW:38:A:H2'	22:CW:39:U:H5''	1.70	0.74
57:DY:8:LYS:HD2	57:DY:8:LYS:N	2.03	0.74
6:AF:19:LEU:HD23	6:AF:19:LEU:O	1.86	0.74
12:AL:70:ILE:HD13	12:AL:77:LEU:HD12	1.70	0.74
13:AM:82:MET:HB2	13:AM:93:ARG:NH1	2.03	0.74
35:BA:2661:G:H2'	35:BA:2662:A:C2	2.23	0.74
35:BA:272(G):C:H3'	35:BA:272(H):C:H5''	1.68	0.74
48:BP:115:LEU:HA	48:BP:134:ALA:HB2	1.68	0.74
55:BW:64:MET:O	55:BW:65:LEU:HB2	1.87	0.74
1:CA:1027:C:H2'	1:CA:1028:C:C5	2.23	0.74
1:CA:963:G:H21	10:CJ:55:LYS:HZ2	1.34	0.74
5:CE:31:LEU:HD23	5:CE:45:PHE:HB2	1.68	0.74
46:DN:58:ASP:O	46:DN:60:ILE:N	2.21	0.74
48:DP:126:VAL:HA	48:DP:145:PRO:HB2	1.70	0.74
1:AA:474:G:H2'	1:AA:475:G:C8	2.22	0.73
1:AA:601:C:H2'	1:AA:602:A:C8	2.23	0.73
3:AC:175:LEU:HD21	3:AC:201:TYR:HE2	1.53	0.73
7:AG:77:SER:HA	7:AG:86:GLN:HA	1.70	0.73
8:AH:19:VAL:HG21	8:AH:21:LYS:HE2	1.69	0.73
38:BD:32:SER:HA	38:BD:35:LYS:HZ3	1.53	0.73
40:BF:132:VAL:HG22	40:BF:133:ASN:N	1.99	0.73
46:BN:3:THR:O	46:BN:5:VAL:N	2.21	0.73
35:BA:996:A:H4'	53:BU:92:ARG:NE	2.02	0.73
1:CA:1003:G:H2'	1:CA:1004:A:O4'	1.88	0.73
1:CA:1030:C:H2'	1:CA:1030(A):G:H5'	1.70	0.73
1:CA:1321:C:C3'	1:CA:1322:C:H5''	2.18	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:1343:G:H2'	1:CA:1344:C:C6	2.22	0.73
2:CB:178:ARG:HH22	2:CB:196:LEU:C	1.92	0.73
9:CI:115:GLY:O	9:CI:116:LYS:HG3	1.88	0.73
29:D4:20:ASN:HD22	29:D4:21:VAL:N	1.84	0.73
30:D5:51:TYR:HD2	30:D5:52:TYR:CZ	2.05	0.73
49:DQ:18:LYS:H	49:DQ:18:LYS:HD2	1.53	0.73
1:AA:1027:C:H2'	1:AA:1028:C:C5	2.22	0.73
1:AA:1107:C:C2'	1:AA:1108:G:H5''	2.18	0.73
1:AA:939:G:H5''	7:AG:102:ARG:HH22	1.52	0.73
1:AA:878:G:C5'	8:AH:89:PRO:HG2	2.18	0.73
19:AS:6:LYS:HD2	19:AS:6:LYS:H	1.54	0.73
24:AY:114:LYS:HD2	24:AY:115:ASN:OD1	1.88	0.73
24:AY:26:LEU:HB2	24:AY:55:LEU:HD21	1.69	0.73
35:BA:1280:G:H2'	35:BA:1281:G:H5''	1.68	0.73
35:BA:903:C:H2'	35:BA:904:C:C5'	2.18	0.73
42:BH:19:VAL:HG11	42:BH:43:VAL:O	1.88	0.73
43:BI:7:GLU:O	43:BI:9:LEU:HD12	1.88	0.73
45:BK:93:ARG:O	45:BK:95:LYS:HE3	1.88	0.73
33:B8:27:THR:HG22	48:BP:62:LEU:HD22	1.69	0.73
52:BT:125:ARG:O	52:BT:128:GLU:HG3	1.89	0.73
3:CC:14:ILE:HG12	3:CC:15:THR:N	2.02	0.73
3:CC:206:GLU:HG2	3:CC:207:VAL:H	1.53	0.73
10:CJ:33:GLN:O	10:CJ:75:ILE:HG12	1.88	0.73
13:CM:19:LEU:HA	13:CM:22:ILE:HD13	1.70	0.73
19:CS:11:VAL:HG13	19:CS:16:LEU:HD11	1.69	0.73
19:CS:78:ARG:HB2	19:CS:81:ARG:HH11	1.52	0.73
22:CV:77:PHA:N	22:CV:77:PHA:HD2	2.02	0.73
25:D0:24:LYS:O	25:D0:25:ARG:HD3	1.88	0.73
35:DA:271(M):G:O2'	35:DA:271(O):C:H5'	1.88	0.73
35:DA:310:A:OP1	57:DY:18:GLY:HA2	1.88	0.73
47:DO:47:ILE:HG23	47:DO:48:PRO:HD2	1.68	0.73
48:DP:124:LYS:HD3	48:DP:143:GLY:CA	2.18	0.73
52:DT:89:VAL:CG1	52:DT:91:ARG:HG3	2.17	0.73
1:AA:353:A:H5'	1:AA:353:A:H8	1.53	0.73
1:AA:997:U:H2'	1:AA:998:G:C8	2.23	0.73
2:AB:101:MET:HA	2:AB:108:ILE:HG13	1.69	0.73
2:AB:97:TRP:CH2	2:AB:173:ALA:HA	2.23	0.73
6:AF:100:ASN:O	18:AR:28:GLU:HG2	1.87	0.73
25:B0:74:ARG:HG2	36:BB:12:C:O2'	1.88	0.73
47:BO:122:LEU:HD23	52:BT:43:GLN:HE22	1.52	0.73
52:BT:54:ARG:HA	52:BT:59:THR:HB	1.70	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CB:187:LEU:HD23	2:CB:201:ILE:HG22	1.70	0.73
19:CS:6:LYS:HD2	19:CS:6:LYS:H	1.52	0.73
24:CY:118:LEU:CD2	24:CY:210:VAL:HG22	2.17	0.73
35:DA:654(A):G:H2'	35:DA:654(B):C:H5'	1.70	0.73
35:DA:996:A:H4'	53:DU:92:ARG:NE	2.02	0.73
41:DG:128:ARG:HB3	41:DG:128:ARG:NH1	2.03	0.73
49:DQ:130:LYS:HZ3	58:DZ:80:ARG:NH1	1.86	0.73
52:DT:13:ARG:HA	52:DT:13:ARG:NH1	2.02	0.73
52:DT:42:ILE:HG13	52:DT:42:ILE:O	1.88	0.73
58:DZ:11:GLU:H	58:DZ:11:GLU:CD	1.90	0.73
1:AA:1143:G:H2'	1:AA:1144:G:C8	2.23	0.73
1:AA:1513:A:H2'	1:AA:1514:C:H6	1.51	0.73
1:AA:223:U:H2'	1:AA:224:C:C6	2.23	0.73
11:AK:80:VAL:HG13	11:AK:103:LEU:HD11	1.70	0.73
32:B7:11:LYS:HE2	35:BA:686:G:H5''	1.69	0.73
45:BK:14:ALA:HA	45:BK:45:THR:CG2	2.19	0.73
53:BU:91:ASP:OD1	53:BU:96:ALA:HB2	1.87	0.73
57:BY:8:LYS:HD3	57:BY:28:LYS:NZ	2.04	0.73
1:CA:474:G:H2'	1:CA:475:G:C8	2.22	0.73
1:CA:997:U:H2'	1:CA:998:G:C8	2.23	0.73
7:CG:146:GLU:HG2	7:CG:149:ARG:HH12	1.51	0.73
12:CL:70:ILE:HD13	12:CL:77:LEU:HD12	1.71	0.73
13:CM:49:THR:HG22	13:CM:51:ALA:H	1.54	0.73
35:DA:1301:A:O2'	35:DA:1302:A:C2'	2.35	0.73
35:DA:365:C:H5'	35:DA:365:C:H6	1.51	0.73
40:DF:123:LEU:HD12	40:DF:124:LEU:H	1.53	0.73
45:DK:28:GLY:HA2	45:DK:32:ALA:HB3	1.70	0.73
54:DV:64:HIS:ND1	54:DV:92:THR:HG22	2.03	0.73
38:BD:8:PRO:HB3	38:BD:14:ARG:HB2	1.69	0.73
41:BG:105:LYS:HE2	41:BG:143:GLU:OE2	1.88	0.73
52:BT:42:ILE:O	52:BT:42:ILE:HG13	1.87	0.73
55:BW:9:TYR:H	55:BW:102:HIS:CD2	2.06	0.73
35:BA:482:A:H4'	57:BY:47:LYS:HG2	1.69	0.73
1:CA:979:C:C3'	1:CA:980:C:H5''	2.18	0.73
8:CH:88:LYS:HB3	8:CH:89:PRO:HD2	1.68	0.73
20:CT:39:LYS:O	20:CT:42:GLN:HB3	1.88	0.73
40:DF:164:ARG:HG2	40:DF:164:ARG:HH11	1.52	0.73
1:AA:1163:C:H2'	1:AA:1164:G:H8	1.52	0.73
1:AA:328:C:H4'	1:AA:329:A:H5'	1.71	0.73
4:AD:150:GLU:CD	4:AD:151:LYS:H	1.92	0.73
9:AI:97:LYS:HB3	9:AI:98:PRO:HD3	1.71	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:AL:89:ARG:HA	12:AL:97:ARG:HA	1.70	0.73
18:AR:88:LYS:HD3	18:AR:88:LYS:C	2.09	0.73
1:AA:926:G:N2	23:AX:15:A:H5'	2.03	0.73
28:B3:40:THR:CG2	28:B3:43:ILE:HG12	2.18	0.73
35:BA:1543:C:H3'	35:BA:1544:A:C5'	2.18	0.73
39:BE:111:ARG:HD2	39:BE:160:TYR:CD1	2.23	0.73
41:BG:16:ARG:HH21	41:BG:33:ARG:HG3	1.53	0.73
42:BH:30:LYS:HE3	42:BH:81:GLU:H	1.49	0.73
47:BO:77:ILE:HD13	52:BT:74:ARG:HD3	1.70	0.73
49:BQ:140:ALA:O	49:BQ:141:GLN:HB2	1.88	0.73
1:CA:674:G:H2'	1:CA:675:A:H8	1.51	0.73
8:CH:11:THR:HG23	8:CH:14:ARG:NH1	2.03	0.73
31:D6:46:HIS:N	31:D6:47:THR:HG23	2.02	0.73
35:DA:1639:U:O2'	35:DA:1640:C:H5''	1.89	0.73
41:DG:9:ARG:O	41:DG:13:GLU:HG2	1.89	0.73
43:DI:130:TYR:HB3	43:DI:136:VAL:HG13	1.70	0.73
1:AA:192:U:H2'	1:AA:193:C:C6	2.24	0.73
4:AD:32:ALA:O	4:AD:35:ARG:HG3	1.88	0.73
5:AE:9:LYS:HB2	5:AE:112:LEU:HD11	1.69	0.73
35:BA:2146:C:H4'	35:BA:2147:G:C8	2.23	0.73
45:BK:122:ALA:HA	45:BK:125:ARG:HE	1.53	0.73
45:BK:77:LEU:HD12	45:BK:111:LYS:HE2	1.70	0.73
46:BN:120:LEU:O	46:BN:121:LYS:HD2	1.88	0.73
1:CA:353:A:H5'	1:CA:353:A:H8	1.54	0.73
33:D8:39:LYS:O	33:D8:43:GLN:HG3	1.88	0.73
33:D8:62:LEU:N	33:D8:63:PRO:HD2	2.02	0.73
54:DV:47:VAL:HB	54:DV:49:THR:O	1.88	0.73
54:DV:52:VAL:CG2	54:DV:55:ALA:HB3	2.18	0.73
10:AJ:38:ILE:HD11	10:AJ:71:LEU:HD23	1.69	0.73
23:AX:19:U:H3'	23:AX:20:A:C8	2.23	0.73
40:BF:164:ARG:HH11	40:BF:164:ARG:HG2	1.52	0.73
44:BJ:22:UNK:O	44:BJ:119:UNK:HA	1.88	0.73
48:BP:16:ARG:HH11	48:BP:16:ARG:C	1.91	0.73
52:BT:13:ARG:HA	52:BT:13:ARG:NH1	2.04	0.73
3:CC:127:ARG:HD2	3:CC:127:ARG:N	2.04	0.73
35:DA:1543:C:H3'	35:DA:1544:A:C5'	2.18	0.73
35:DA:2120:G:H2'	35:DA:2121:G:C8	2.21	0.73
38:DD:72:LYS:NZ	38:DD:75:ILE:HD12	2.02	0.73
39:DE:111:ARG:HD2	39:DE:160:TYR:CD1	2.23	0.73
41:DG:113:ARG:CA	41:DG:113:ARG:NE	2.52	0.73
41:DG:71:THR:HG23	41:DG:89:GLY:HA3	1.70	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
48:DP:126:VAL:HG12	48:DP:148:LEU:HD11	1.71	0.73
2:AB:178:ARG:HH22	2:AB:196:LEU:C	1.92	0.73
12:AL:47:LYS:HB3	12:AL:48:PRO:HD3	1.71	0.73
51:BS:89:ARG:HG2	51:BS:92:TYR:HA	1.71	0.73
1:CA:685:G:O2'	1:CA:686:U:H5'	1.88	0.73
2:CB:97:TRP:CH2	2:CB:173:ALA:HA	2.23	0.73
24:CY:244:THR:HA	35:DA:2573:C:N4	2.04	0.73
48:DP:115:LEU:HA	48:DP:134:ALA:HB2	1.71	0.73
8:AH:11:THR:HG23	8:AH:14:ARG:NH1	2.03	0.73
33:B8:62:LEU:N	33:B8:63:PRO:HD2	2.03	0.73
35:BA:1066:U:H2'	35:BA:1068:G:OP2	1.88	0.73
35:BA:654(A):G:H2'	35:BA:654(B):C:H5'	1.71	0.73
37:BC:6:LYS:O	37:BC:6:LYS:HD2	1.88	0.73
38:BD:30:GLU:HB2	38:BD:35:LYS:HE3	1.69	0.73
41:BG:91:ARG:HD2	41:BG:92:VAL:N	2.03	0.73
53:BU:92:ARG:NH2	54:BV:10:LYS:HB3	2.04	0.73
57:BY:32:PRO:C	57:BY:34:LYS:H	1.92	0.73
1:CA:1028:C:C2'	1:CA:1029:C:H5'	2.19	0.73
1:CA:223:U:H2'	1:CA:224:C:C6	2.24	0.73
8:CH:86:ILE:HG12	8:CH:135:CYS:HA	1.70	0.73
1:CA:1397:C:H2'	24:CY:198:SER:OG	1.87	0.73
24:CY:312:ARG:HE	24:CY:344:LEU:HD12	1.54	0.73
35:DA:143:G:H1'	56:DX:37:THR:HG21	1.71	0.73
45:DK:4:VAL:O	45:DK:5:VAL:HG12	1.89	0.73
52:DT:54:ARG:HA	52:DT:59:THR:HB	1.71	0.73
1:AA:1363(A):A:H4'	1:AA:1364:U:H5''	1.71	0.72
10:AJ:4:ILE:HD12	10:AJ:4:ILE:H	1.54	0.72
15:AO:4:THR:OG1	15:AO:7:GLU:HB2	1.88	0.72
35:BA:774:A:H2	35:BA:787:U:HO2'	1.37	0.72
51:BS:59:LYS:HG2	51:BS:60:GLY:H	1.53	0.72
57:BY:7:VAL:HB	57:BY:8:LYS:CD	2.18	0.72
49:BQ:134:ARG:CZ	58:BZ:122:ARG:HH21	2.02	0.72
1:CA:1294:G:H2'	1:CA:1295:G:H8	1.52	0.72
3:CC:76:VAL:HG23	3:CC:77:ILE:HG13	1.71	0.72
5:CE:76:ILE:HG13	5:CE:142:LEU:HD13	1.70	0.72
9:CI:97:LYS:HB3	9:CI:98:PRO:HD3	1.71	0.72
10:CJ:7:LYS:HD3	10:CJ:71:LEU:HD13	1.70	0.72
13:CM:91:ARG:HB2	13:CM:98:VAL:HG22	1.71	0.72
16:CP:19:ILE:HD12	16:CP:19:ILE:H	1.54	0.72
24:CY:238:GLY:HA2	35:DA:2602:A:C4	2.24	0.72
45:DK:122:ALA:HA	45:DK:125:ARG:HE	1.53	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:DN:55:VAL:CG2	46:DN:126:PRO:HA	2.19	0.72
1:AA:979:C:C3'	1:AA:980:C:H5''	2.17	0.72
10:AJ:50:ILE:HD11	14:AN:41:ARG:NH1	2.04	0.72
35:BA:1108:U:C2'	35:BA:1109:C:H5''	2.15	0.72
35:BA:141:A:H8	35:BA:1408:C:HO2'	0.74	0.72
50:BR:86:ARG:HB3	50:BR:118:GLU:OE2	1.88	0.72
35:BA:2723:C:H5''	50:BR:2:ARG:NH1	2.04	0.72
54:BV:89:GLN:OE1	54:BV:90:PRO:HD2	1.88	0.72
24:CY:303:ARG:H	24:CY:304:PRO:HD3	1.55	0.72
35:DA:1019:U:HO2'	35:DA:1021:A:H2	0.79	0.72
53:DU:101:ARG:HB2	53:DU:101:ARG:NH1	2.04	0.72
54:DV:15:GLU:HB3	54:DV:16:PRO:CD	2.18	0.72
57:DY:8:LYS:HD3	57:DY:28:LYS:NZ	2.03	0.72
49:DQ:60:ARG:HG2	58:DZ:179:ASP:OD2	1.90	0.72
1:AA:1030:C:H2'	1:AA:1030(A):G:H5'	1.70	0.72
13:AM:19:LEU:HA	13:AM:22:ILE:HD13	1.72	0.72
13:AM:49:THR:HG22	13:AM:51:ALA:H	1.54	0.72
24:AY:76:MET:HG3	24:AY:88:LYS:NZ	2.03	0.72
33:B8:39:LYS:O	33:B8:43:GLN:HG3	1.89	0.72
35:BA:27:G:H22	35:BA:512:G:H2'	1.54	0.72
48:BP:23:PRO:HD2	48:BP:33:ARG:NH2	2.03	0.72
50:BR:98:LEU:HB2	50:BR:113:LEU:HD21	1.70	0.72
5:CE:9:LYS:HB2	5:CE:112:LEU:HD11	1.71	0.72
13:CM:82:MET:HB2	13:CM:93:ARG:NH1	2.03	0.72
26:D1:50:ARG:HG2	26:D1:59:THR:CG2	2.19	0.72
31:D6:15:GLU:OE2	31:D6:47:THR:HG21	1.90	0.72
35:DA:2308:G:H21	41:DG:79:ASN:ND2	1.86	0.72
35:DA:903:C:H2'	35:DA:904:C:C5'	2.19	0.72
41:DG:16:ARG:O	41:DG:20:ILE:HG13	1.89	0.72
45:DK:93:ARG:O	45:DK:95:LYS:HE3	1.89	0.72
48:DP:114:ILE:HD12	48:DP:115:LEU:H	1.52	0.72
1:AA:434:U:H2'	1:AA:435:C:C6	2.24	0.72
2:AB:170:GLU:O	2:AB:174:VAL:HG23	1.89	0.72
4:AD:49:ARG:HA	4:AD:49:ARG:NE	2.05	0.72
17:AQ:59:ILE:HG21	17:AQ:71:PHE:HB3	1.72	0.72
35:BA:1963:U:H2'	35:BA:1963:U:O2	1.89	0.72
35:BA:271(M):G:O2'	35:BA:271(O):C:H5'	1.89	0.72
35:BA:655:A:H4'	35:BA:656:G:H5'	1.69	0.72
35:BA:2590:A:OP2	38:BD:238:GLY:HA2	1.87	0.72
1:CA:407:G:O2'	4:CD:116:GLN:HG3	1.89	0.72
24:CY:26:LEU:HB2	24:CY:55:LEU:HD21	1.69	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:607:U:H3	35:DA:621:A:H2	1.36	0.72
43:DI:71:ILE:HG13	43:DI:72:LEU:HD23	1.70	0.72
48:DP:24:GLY:O	48:DP:25:SER:HB3	1.89	0.72
48:DP:71:VAL:CG1	48:DP:72:PRO:HD3	2.20	0.72
49:DQ:140:ALA:O	49:DQ:141:GLN:HB2	1.89	0.72
53:DU:91:ASP:OD1	53:DU:96:ALA:HB2	1.90	0.72
1:AA:685:G:O2'	1:AA:686:U:H5'	1.89	0.72
2:AB:187:LEU:HD22	2:AB:201:ILE:O	1.90	0.72
13:AM:112:GLY:HA2	13:AM:113:PRO:HD2	1.71	0.72
33:B8:31:HIS:HE1	35:BA:2392:A:OP2	1.72	0.72
40:BF:4:VAL:HA	40:BF:19:GLU:HB3	1.71	0.72
48:BP:24:GLY:O	48:BP:25:SER:HB3	1.89	0.72
54:BV:19:LYS:HB3	54:BV:94:LEU:O	1.89	0.72
1:CA:17:U:H2'	1:CA:18:C:C6	2.23	0.72
1:CA:939:G:H5''	7:CG:102:ARG:HH22	1.53	0.72
7:CG:77:SER:HA	7:CG:86:GLN:HA	1.72	0.72
18:CR:88:LYS:C	18:CR:88:LYS:HD3	2.10	0.72
26:D1:56:GLN:HG3	26:D1:87:PRO:HD3	1.69	0.72
35:DA:2317:C:C2'	35:DA:2318:G:H5'	2.19	0.72
52:DT:125:ARG:O	52:DT:128:GLU:HG3	1.88	0.72
58:DZ:19:ARG:NH1	58:DZ:84:GLU:O	2.21	0.72
1:AA:1256:A:N6	1:AA:1278:U:H1'	2.02	0.72
1:AA:91:C:O2	1:AA:91:C:H2'	1.88	0.72
2:AB:17:PHE:HD1	2:AB:44:LEU:HD11	1.54	0.72
2:AB:224:GLN:HA	2:AB:229:VAL:HG22	1.71	0.72
3:AC:206:GLU:HG2	3:AC:207:VAL:H	1.53	0.72
4:AD:60:GLU:OE2	4:AD:198:VAL:HA	1.90	0.72
9:AI:15:ALA:HA	9:AI:65:VAL:HA	1.72	0.72
24:AY:119:THR:HG23	24:AY:166:TYR:HE1	1.55	0.72
13:AM:125:ARG:HA	24:AY:159:GLY:HA3	1.71	0.72
37:BC:191:ARG:HB3	37:BC:195:ARG:HH12	1.54	0.72
1:CA:1321:C:H5'	1:CA:1322:C:H5''	1.70	0.72
8:CH:19:VAL:HG21	8:CH:21:LYS:HE2	1.71	0.72
10:CJ:48:THR:HA	10:CJ:62:HIS:HB3	1.71	0.72
22:CW:38:A:H3'	22:CW:39:U:H5''	1.70	0.72
24:CY:118:LEU:HD22	24:CY:208:VAL:CG1	2.20	0.72
24:CY:27:LYS:HA	24:CY:30:GLU:HG3	1.71	0.72
35:DA:141:A:H8	35:DA:1408:C:HO2'	0.74	0.72
35:DA:672:C:H2'	35:DA:673:C:H5''	1.69	0.72
41:DG:125:PHE:HE1	41:DG:180:PHE:CE2	2.07	0.72
42:DH:153:LYS:H	42:DH:153:LYS:HD3	1.55	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1321:C:H5'	1:AA:1322:C:H5''	1.70	0.72
5:AE:31:LEU:HD23	5:AE:45:PHE:HB2	1.71	0.72
8:AH:86:ILE:HG21	8:AH:133:LEU:HD22	1.71	0.72
23:AX:15:A:H2'	23:AX:15:A:N3	2.02	0.72
35:BA:1779:U:C5	35:BA:1784:A:N7	2.52	0.72
35:BA:621:A:H2'	35:BA:622:G:H5'	1.72	0.72
41:BG:31:VAL:HG22	41:BG:32:PRO:HD2	1.71	0.72
1:CA:1143:G:H2'	1:CA:1144:G:C8	2.25	0.72
1:CA:434:U:H2'	1:CA:435:C:C6	2.24	0.72
1:CA:91:C:O2	1:CA:91:C:H2'	1.89	0.72
1:CA:73:G:H1	1:CA:96:U:H3	1.36	0.72
2:CB:17:PHE:HD1	2:CB:44:LEU:HD11	1.53	0.72
5:CE:71:LEU:O	5:CE:72:GLN:HG3	1.90	0.72
22:CV:21:A:C2'	22:CV:22:G:H5''	2.20	0.72
22:CW:20:U:O2	22:CW:20:U:H2'	1.89	0.72
29:D4:12:ALA:HB1	29:D4:29:PRO:HA	1.69	0.72
51:DS:65:VAL:O	51:DS:69:VAL:HG12	1.89	0.72
1:AA:1348:U:H4'	9:AI:120:ARG:HD2	1.72	0.72
14:AN:23:ARG:NH1	14:AN:30:ALA:HB2	2.04	0.72
24:AY:30:GLU:HB2	45:BK:20:ALA:CB	2.18	0.72
43:BI:114:LEU:O	43:BI:131:LYS:HD3	1.90	0.72
45:BK:4:VAL:O	45:BK:5:VAL:HG12	1.89	0.72
46:BN:18:ALA:HB1	46:BN:21:LYS:HB2	1.70	0.72
55:BW:92:ARG:HH11	55:BW:92:ARG:CB	2.02	0.72
57:BY:8:LYS:HD2	57:BY:8:LYS:N	2.03	0.72
2:CB:69:LEU:HD22	2:CB:91:PRO:HB2	1.71	0.72
8:CH:6:ILE:H	8:CH:6:ILE:HD12	1.55	0.72
35:DA:2146:C:H4'	35:DA:2147:G:C8	2.24	0.72
35:DA:2726:U:H5'	35:DA:2726:U:O2	1.89	0.72
35:DA:655:A:H4'	35:DA:656:G:H5'	1.70	0.72
52:DT:85:LYS:HZ3	52:DT:85:LYS:HB3	1.53	0.72
35:DA:1011:G:H5''	53:DU:77:SER:OG	1.90	0.72
45:BK:11:GLN:HB2	45:BK:52:ILE:HD11	1.69	0.72
46:BN:58:ASP:O	46:BN:60:ILE:N	2.23	0.72
35:BA:806:C:OP2	48:BP:39:LYS:HD3	1.90	0.72
52:BT:28:VAL:O	52:BT:28:VAL:HG12	1.89	0.72
1:CA:601:C:H2'	1:CA:602:A:C8	2.25	0.72
2:CB:201:ILE:HG21	2:CB:214:ILE:HG21	1.71	0.72
7:CG:147:ALA:C	7:CG:148:ASN:HD22	1.92	0.72
8:CH:86:ILE:HG21	8:CH:133:LEU:HD22	1.70	0.72
12:CL:28:LYS:HE3	12:CL:33:ARG:HH12	1.53	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:D6:52:VAL:HG12	31:D6:53:LYS:N	2.05	0.72
35:DA:152:G:H1	35:DA:174:C:H42	1.38	0.72
43:DI:3:VAL:HG12	43:DI:38:LEU:HA	1.72	0.72
46:DN:4:TYR:CD1	46:DN:4:TYR:N	2.58	0.72
58:DZ:119:GLU:HG3	58:DZ:122:ARG:CZ	2.20	0.72
1:AA:1028:C:C2'	1:AA:1029:C:H5'	2.19	0.72
2:AB:187:LEU:HD23	2:AB:201:ILE:HG22	1.70	0.72
4:AD:33:MET:C	4:AD:35:ARG:H	1.93	0.72
9:AI:95:LYS:HD3	9:AI:96:LEU:N	2.05	0.72
13:AM:91:ARG:HB2	13:AM:98:VAL:HG22	1.71	0.72
22:AW:31:A:H2'	22:AW:32:U:H5'	1.70	0.72
22:AW:59:U:H2'	22:AW:60:U:H6	1.53	0.72
24:AY:88:LYS:HB2	24:AY:89:PRO:HD3	1.72	0.72
1:CA:1352:C:H2'	1:CA:1353:G:C8	2.24	0.72
2:CB:98:LEU:O	2:CB:101:MET:HG3	1.90	0.72
4:CD:68:TYR:CD2	4:CD:97:LEU:HD22	2.24	0.72
9:CI:13:ALA:HB2	9:CI:68:GLY:HA3	1.71	0.72
13:CM:112:GLY:HA2	13:CM:113:PRO:HD2	1.71	0.72
35:DA:1484:G:H2'	35:DA:1485:G:C5'	2.17	0.72
35:DA:1826:G:H4'	38:DD:242:ARG:NH2	2.05	0.72
40:DF:4:VAL:HA	40:DF:19:GLU:HB3	1.72	0.72
35:BA:1358:G:O2'	35:BA:1359:A:H5''	1.90	0.71
35:BA:2524:G:H8	35:BA:2524:G:H5'	1.53	0.71
43:BI:98:ALA:HA	43:BI:101:LEU:HB3	1.70	0.71
48:BP:126:VAL:HG12	48:BP:148:LEU:HD11	1.72	0.71
52:BT:85:LYS:HZ3	52:BT:85:LYS:HB3	1.54	0.71
58:BZ:44:PHE:HZ	58:BZ:86:VAL:HG11	1.54	0.71
58:BZ:81:ARG:HG2	58:BZ:81:ARG:HH11	1.53	0.71
1:CA:865:A:H5'	1:CA:1078:U:O4	1.89	0.71
2:CB:130:ARG:NH2	2:CB:138:LEU:HD11	2.05	0.71
5:CE:42:GLY:HA3	5:CE:66:MET:HG2	1.72	0.71
33:D8:50:LEU:C	33:D8:53:PRO:HD2	2.10	0.71
35:DA:330:A:H2	35:DA:1210:A:H2'	1.53	0.71
40:DF:67:GLN:O	40:DF:68:LYS:HB2	1.89	0.71
42:DH:19:VAL:HG11	42:DH:43:VAL:O	1.89	0.71
45:DK:77:LEU:HD12	45:DK:111:LYS:HE2	1.71	0.71
57:DY:95:LYS:HG3	57:DY:100:ALA:CA	2.18	0.71
1:AA:1321:C:C3'	1:AA:1322:C:H5''	2.19	0.71
3:AC:127:ARG:HD2	3:AC:127:ARG:N	2.04	0.71
1:AA:407:G:O2'	4:AD:116:GLN:HG3	1.90	0.71
16:AP:13:HIS:O	16:AP:15:PRO:HD3	1.88	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:AY:135:MET:O	24:AY:138:ARG:HG3	1.89	0.71
30:B5:51:TYR:HD2	30:B5:52:TYR:CZ	2.07	0.71
41:BG:111:LEU:HB3	41:BG:117:PHE:CE2	2.25	0.71
35:BA:310:A:OP1	57:BY:18:GLY:HA2	1.89	0.71
58:BZ:153:SER:HB3	58:BZ:167:PRO:HB3	1.70	0.71
1:CA:345:C:OP1	52:DT:41:ARG:HD3	1.90	0.71
1:CA:36:C:H4'	12:CL:122:THR:O	1.90	0.71
1:CA:878:G:C5'	8:CH:89:PRO:HG2	2.20	0.71
24:CY:326:THR:HG21	24:CY:328:LEU:HD22	1.71	0.71
24:CY:341:LEU:O	24:CY:345:ILE:HG13	1.90	0.71
38:DD:80:ALA:HB3	38:DD:94:LEU:HD13	1.72	0.71
48:DP:32:THR:HG21	48:DP:37:GLY:HA2	1.72	0.71
57:DY:7:VAL:HB	57:DY:8:LYS:CD	2.20	0.71
1:AA:735:C:H2'	1:AA:736:C:C6	2.25	0.71
4:AD:132:ARG:HH11	4:AD:132:ARG:HG2	1.55	0.71
9:AI:13:ALA:HB2	9:AI:68:GLY:HA3	1.72	0.71
1:AA:750:G:H1'	15:AO:23:GLY:H	1.54	0.71
24:AY:315:VAL:HG11	24:AY:320:TYR:CZ	2.26	0.71
41:BG:124:SER:HB2	41:BG:131:TYR:CE1	2.25	0.71
41:BG:73:ALA:H	41:BG:87:PRO:CD	2.02	0.71
41:BG:5:VAL:O	41:BG:8:LYS:HB3	1.91	0.71
48:BP:13:ASN:HD22	48:BP:13:ASN:C	1.93	0.71
49:BQ:18:LYS:HD2	49:BQ:18:LYS:H	1.55	0.71
18:CR:31:LEU:H	18:CR:31:LEU:CD2	2.03	0.71
24:CY:88:LYS:HB2	24:CY:89:PRO:HD3	1.71	0.71
35:DA:12:U:O2	35:DA:12:U:H2'	1.91	0.71
37:DC:191:ARG:HB3	37:DC:195:ARG:HH12	1.54	0.71
37:DC:31:LYS:HD3	37:DC:31:LYS:O	1.89	0.71
35:DA:2787:C:H1'	39:DE:61:ARG:CD	2.21	0.71
41:DG:57:ALA:HB2	41:DG:90:LEU:HD21	1.72	0.71
42:DH:155:SER:O	42:DH:157:TYR:N	2.22	0.71
45:DK:14:ALA:HA	45:DK:45:THR:CG2	2.19	0.71
52:DT:53:ARG:HB2	52:DT:53:ARG:HH11	1.53	0.71
57:DY:61:ILE:HD12	57:DY:62:GLU:H	1.53	0.71
22:AW:29:G:H2'	22:AW:30:G:C8	2.25	0.71
35:BA:279:C:C3'	35:BA:280:C:H5''	2.20	0.71
37:BC:31:LYS:O	37:BC:31:LYS:HD3	1.89	0.71
45:BK:90:LYS:HZ3	45:BK:90:LYS:HB3	1.55	0.71
46:BN:15:LEU:HB2	46:BN:134:ARG:HB2	1.71	0.71
9:CI:88:TYR:O	9:CI:89:ASN:HB2	1.90	0.71
1:CA:750:G:H1'	15:CO:23:GLY:H	1.56	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:D3:40:THR:CG2	28:D3:43:ILE:HG12	2.20	0.71
35:DA:1717:G:C2'	35:DA:1718:G:H5''	2.20	0.71
2:AB:201:ILE:HG21	2:AB:214:ILE:HG21	1.72	0.71
10:AJ:6:ILE:HG22	10:AJ:98:ILE:HG13	1.71	0.71
24:AY:118:LEU:CD2	24:AY:210:VAL:HG22	2.20	0.71
36:BB:87:G:C3'	36:BB:88:C:H5''	2.21	0.71
42:BH:136:ILE:HD12	42:BH:136:ILE:N	2.05	0.71
43:BI:1:MET:HE2	43:BI:23:PRO:HA	1.73	0.71
48:BP:40:SER:O	48:BP:41:ARG:NE	2.23	0.71
57:BY:26:LYS:HG3	57:BY:27:VAL:H	1.56	0.71
1:CA:1243:C:H42	1:CA:1294:G:H22	1.37	0.71
4:CD:126:ILE:HG22	4:CD:127:THR:N	2.05	0.71
13:CM:90:LEU:C	13:CM:92:HIS:H	1.93	0.71
17:CQ:57:VAL:HG12	17:CQ:76:LEU:HA	1.73	0.71
31:D6:18:ARG:HD2	31:D6:43:CYS:SG	2.29	0.71
24:CY:237:PRO:HD3	35:DA:2604:U:OP2	1.90	0.71
40:DF:101:LEU:HD12	40:DF:102:PRO:HD2	1.70	0.71
55:DW:9:TYR:H	55:DW:102:HIS:CD2	2.08	0.71
57:DY:20:TYR:CZ	57:DY:42:VAL:HA	2.25	0.71
2:AB:67:THR:HG21	2:AB:155:LEU:HD11	1.72	0.71
31:B6:52:VAL:HG12	31:B6:53:LYS:N	2.05	0.71
41:BG:115:ARG:NH2	41:BG:136:ARG:HD2	2.06	0.71
46:BN:120:LEU:CD1	46:BN:122:VAL:HG23	2.20	0.71
52:BT:38:ASN:ND2	52:BT:39:ARG:N	2.37	0.71
53:BU:47:TYR:HA	53:BU:50:ARG:NH2	2.04	0.71
4:CD:64:LEU:HB2	4:CD:198:VAL:HG11	1.73	0.71
9:CI:7:THR:HB	9:CI:83:ARG:NH1	2.06	0.71
24:CY:13:LEU:HA	24:CY:16:TYR:HB2	1.73	0.71
35:DA:296:C:O2'	35:DA:297:C:H5'	1.90	0.71
41:DG:115:ARG:HH22	41:DG:136:ARG:HD2	1.55	0.71
41:DG:178:PHE:HB3	41:DG:180:PHE:HE1	1.55	0.71
41:DG:51:ARG:HE	41:DG:51:ARG:HA	1.56	0.71
48:DP:16:ARG:HD3	48:DP:16:ARG:C	2.11	0.71
58:DZ:119:GLU:HG3	58:DZ:122:ARG:NH1	2.04	0.71
1:AA:1031:G:H2'	1:AA:1032:G:O4'	1.89	0.71
7:AG:147:ALA:C	7:AG:148:ASN:HD22	1.93	0.71
26:B1:23:LYS:HD3	26:B1:28:GLY:HA3	1.73	0.71
22:AW:77:PHA:HA	35:BA:2395:C:O4'	1.90	0.71
35:BA:1843:C:H5''	38:BD:257:LEU:HD23	1.73	0.71
41:BG:40:ASN:HD22	41:BG:41:GLN:N	1.88	0.71
46:BN:4:TYR:CD1	46:BN:4:TYR:N	2.57	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
48:BP:126:VAL:HA	48:BP:145:PRO:HB2	1.70	0.71
57:BY:96:ILE:HD12	57:BY:99:CYS:SG	2.30	0.71
1:CA:1031:G:H2'	1:CA:1032:G:O4'	1.89	0.71
2:CB:67:THR:HG21	2:CB:155:LEU:HD11	1.72	0.71
10:CJ:27:ALA:HB2	10:CJ:85:LEU:HD11	1.72	0.71
24:CY:30:GLU:HB2	45:DK:20:ALA:HB3	1.72	0.71
35:DA:1332:G:N2	35:DA:1609:A:O2'	2.23	0.71
35:DA:2158:A:H4'	35:DA:2159:G:C5'	2.21	0.71
35:DA:2312:U:C2'	35:DA:2313:C:H5''	2.21	0.71
35:DA:480:A:H1'	57:DY:44:ILE:HG21	1.71	0.71
37:DC:6:LYS:HD2	37:DC:6:LYS:O	1.89	0.71
38:DD:133:LEU:HD22	38:DD:165:ILE:HD11	1.71	0.71
41:DG:61:ALA:HB2	41:DG:68:PRO:HD3	1.71	0.71
46:DN:19:GLU:HG3	46:DN:20:GLY:H	1.55	0.71
50:DR:86:ARG:HB3	50:DR:118:GLU:OE2	1.90	0.71
55:DW:92:ARG:HH11	55:DW:92:ARG:CB	2.02	0.71
2:AB:71:VAL:HB	2:AB:164:VAL:HG22	1.73	0.71
2:AB:54:THR:HG21	2:AB:201:ILE:HD11	1.72	0.71
5:AE:71:LEU:O	5:AE:72:GLN:HG3	1.91	0.71
30:B5:55:ARG:CD	30:B5:56:LYS:H	1.95	0.71
31:B6:19:ARG:CG	31:B6:20:ASN:H	2.04	0.71
48:BP:16:ARG:CZ	48:BP:18:ARG:HG2	2.20	0.71
1:CA:250:A:H4'	1:CA:251:G:O5'	1.91	0.71
3:CC:20:SER:HB2	3:CC:40:ARG:HH22	1.54	0.71
4:CD:14:ARG:HD2	4:CD:59:ARG:NH1	2.06	0.71
15:CO:4:THR:OG1	15:CO:7:GLU:HB2	1.90	0.71
24:CY:190:VAL:HB	24:CY:315:VAL:HB	1.70	0.71
35:DA:279:C:C3'	35:DA:280:C:H5''	2.20	0.71
41:DG:115:ARG:NH2	41:DG:136:ARG:HD2	2.06	0.71
43:DI:131:LYS:HB3	43:DI:132:PRO:HA	1.73	0.71
48:DP:100:LEU:HD12	48:DP:112:LEU:HD21	1.73	0.71
49:DQ:43:THR:OG1	49:DQ:46:GLN:HG3	1.90	0.71
53:DU:31:SER:O	53:DU:33:ARG:N	2.19	0.71
10:AJ:7:LYS:HD3	10:AJ:71:LEU:HD13	1.73	0.71
17:AQ:59:ILE:CG2	17:AQ:71:PHE:HB3	2.21	0.71
20:AT:39:LYS:O	20:AT:42:GLN:HB3	1.90	0.71
35:BA:1541:G:H4'	35:BA:1542:A:O4'	1.91	0.71
35:BA:2726:U:O2	35:BA:2726:U:H5'	1.91	0.71
35:BA:654(S):G:H2'	35:BA:654(T):C:C6	2.26	0.71
35:BA:2787:C:H1'	39:BE:61:ARG:CD	2.21	0.71
48:BP:16:ARG:HD3	48:BP:16:ARG:C	2.11	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
48:BP:32:THR:HG21	48:BP:37:GLY:HA2	1.72	0.71
1:CA:650:G:O2'	1:CA:651:C:H5'	1.91	0.71
4:CD:86:LYS:CE	4:CD:87:GLY:H	1.91	0.71
10:CJ:50:ILE:HD11	14:CN:41:ARG:NH1	2.05	0.71
22:CW:38:A:C3'	22:CW:39:U:H5''	2.20	0.71
24:CY:209:GLU:OE2	24:CY:303:ARG:NE	2.23	0.71
29:D4:34:GLU:O	41:DG:113:ARG:NH1	2.23	0.71
41:DG:77:ILE:HG22	41:DG:80:PHE:H	1.55	0.71
43:DI:10:GLU:O	43:DI:12:LEU:HD23	1.89	0.71
57:DY:101:LYS:HG2	57:DY:102:CYS:N	2.05	0.71
57:DY:32:PRO:C	57:DY:34:LYS:H	1.92	0.71
58:DZ:153:SER:N	58:DZ:167:PRO:HB2	2.03	0.71
58:DZ:51:ALA:CB	58:DZ:57:ILE:HD11	2.20	0.71
18:AR:70:ILE:O	18:AR:74:ARG:HG3	1.90	0.71
25:B0:11:ARG:CB	25:B0:11:ARG:HH11	2.04	0.71
35:BA:2189:U:H2'	35:BA:2190:G:H5''	1.73	0.71
33:B8:32:LEU:HD11	35:BA:2392:A:OP1	1.91	0.71
43:BI:133:HIS:HB2	43:BI:134:PRO:HD2	1.70	0.71
46:BN:55:VAL:CG2	46:BN:126:PRO:HA	2.21	0.71
51:BS:17:ARG:HH21	51:BS:90:GLY:H	1.38	0.71
57:BY:61:ILE:HD12	57:BY:62:GLU:H	1.56	0.71
58:BZ:20:ARG:HB2	58:BZ:20:ARG:NH1	2.05	0.71
27:D2:41:ILE:HD11	27:D2:43:GLN:HB2	1.72	0.71
33:D8:25:MET:HG3	48:DP:64:LYS:CB	2.10	0.71
46:DN:15:LEU:HB2	46:DN:134:ARG:HB2	1.72	0.71
39:DE:111:ARG:HG3	50:DR:2:ARG:HG2	1.73	0.71
53:DU:92:ARG:NH2	54:DV:10:LYS:HB3	2.05	0.71
57:DY:42:VAL:HB	57:DY:65:ALA:HB3	1.73	0.71
1:AA:1134:G:H2'	1:AA:1135:U:H5'	1.73	0.70
2:AB:120:ALA:O	2:AB:121:LEU:HD23	1.90	0.70
35:BA:1639:U:O2'	35:BA:1640:C:H5''	1.90	0.70
35:BA:2645:G:H3'	35:BA:2646:C:C5'	2.21	0.70
41:BG:48:GLU:O	41:BG:49:ASP:HB2	1.91	0.70
43:BI:128:LEU:HD13	43:BI:129:THR:H	1.56	0.70
45:BK:74:ALA:HB2	45:BK:111:LYS:HE3	1.72	0.70
53:BU:8:VAL:HG23	53:BU:11:ARG:HH21	1.54	0.70
1:CA:333:G:H4'	20:CT:16:HIS:CE1	2.26	0.70
4:CD:60:GLU:OE2	4:CD:198:VAL:HA	1.90	0.70
7:CG:64:GLN:HE21	7:CG:68:ASN:HD21	1.38	0.70
9:CI:95:LYS:HD3	9:CI:96:LEU:N	2.05	0.70
22:CW:39:U:C2'	22:CW:40:C:H5''	2.19	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:CY:285:GLU:HA	24:CY:288:ARG:NH1	2.06	0.70
35:DA:2645:G:H3'	35:DA:2646:C:C5'	2.21	0.70
40:DF:132:VAL:HG22	40:DF:133:ASN:N	2.00	0.70
35:DA:615:G:OP2	40:DF:40:GLN:HG2	1.90	0.70
42:DH:67:LEU:O	42:DH:71:LEU:HD22	1.90	0.70
51:DS:52:SER:HB3	51:DS:55:ALA:HB3	1.72	0.70
2:AB:114:ARG:O	2:AB:118:LEU:HG	1.91	0.70
10:AJ:33:GLN:O	10:AJ:75:ILE:HG12	1.89	0.70
35:BA:1301:A:H4'	35:BA:1302:A:OP1	1.91	0.70
35:BA:1902:C:H1'	38:BD:244:ARG:HG3	1.73	0.70
35:BA:676:A:H2	35:BA:802:A:H61	1.37	0.70
39:BE:77:ILE:CG2	39:BE:78:LEU:H	1.96	0.70
51:BS:28:VAL:HB	51:BS:89:ARG:HB2	1.73	0.70
54:BV:52:VAL:CG2	54:BV:55:ALA:HB3	2.21	0.70
1:CA:1314:C:OP2	19:CS:6:LYS:HG3	1.91	0.70
1:CA:1363(A):A:H4'	1:CA:1364:U:H5''	1.72	0.70
2:CB:54:THR:HG21	2:CB:201:ILE:HD11	1.73	0.70
4:CD:32:ALA:O	4:CD:35:ARG:HG3	1.90	0.70
4:CD:31:CYS:C	4:CD:33:MET:H	1.94	0.70
9:CI:15:ALA:HA	9:CI:65:VAL:HA	1.73	0.70
1:CA:963:G:N2	10:CJ:55:LYS:HZ2	1.89	0.70
35:DA:1019:U:H3	35:DA:1142(A):A:H62	1.40	0.70
35:DA:1963:U:O2	35:DA:1963:U:H2'	1.91	0.70
35:DA:654(S):G:H2'	35:DA:654(T):C:C6	2.26	0.70
41:DG:3:LEU:HA	41:DG:97:ASP:OD2	1.90	0.70
51:DS:74:ALA:HB1	51:DS:103:GLU:CB	2.21	0.70
1:AA:1152:A:H2'	1:AA:1153:C:H6	1.57	0.70
40:BF:101:LEU:HD12	40:BF:102:PRO:HD2	1.72	0.70
1:CA:1112:C:O2	3:CC:179:ARG:HG2	1.91	0.70
4:CD:33:MET:C	4:CD:35:ARG:H	1.93	0.70
6:CF:86:ARG:O	6:CF:87:ARG:HG2	1.91	0.70
24:CY:303:ARG:HG2	24:CY:303:ARG:O	1.91	0.70
24:CY:68:ASP:OD2	24:CY:94:ALA:HB1	1.90	0.70
35:DA:1066:U:H2'	35:DA:1068:G:OP2	1.90	0.70
35:DA:621:A:H2'	35:DA:622:G:H5'	1.71	0.70
35:DA:1843:C:H5''	38:DD:257:LEU:HD23	1.72	0.70
38:DD:30:GLU:HB2	38:DD:35:LYS:HE3	1.71	0.70
48:DP:48:PRO:O	48:DP:50:ARG:N	2.23	0.70
2:AB:130:ARG:NH2	2:AB:138:LEU:HD11	2.06	0.70
2:AB:194:PRO:O	2:AB:196:LEU:N	2.25	0.70
3:AC:76:VAL:HG23	3:AC:77:ILE:HG13	1.73	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AD:68:TYR:CD2	4:AD:97:LEU:HD22	2.26	0.70
26:B1:45:ASN:ND2	35:BA:2090:G:H21	1.89	0.70
45:BK:119:ASP:OD2	45:BK:122:ALA:HB3	1.92	0.70
1:CA:1256:A:N6	1:CA:1278:U:H1'	2.02	0.70
8:CH:40:ALA:C	8:CH:42:GLU:H	1.94	0.70
10:CJ:50:ILE:HA	10:CJ:60:ARG:HB2	1.74	0.70
1:CA:1242:C:P	21:CU:10:ARG:HH22	2.15	0.70
35:DA:1278:A:OP1	50:DR:36:THR:HG22	1.91	0.70
48:DP:40:SER:O	48:DP:41:ARG:NE	2.24	0.70
1:AA:1352:C:H2'	1:AA:1353:G:C8	2.26	0.70
26:B1:11:ARG:HB2	26:B1:12:PRO:HD2	1.73	0.70
31:B6:18:ARG:HD2	31:B6:43:CYS:SG	2.31	0.70
35:BA:2158:A:H4'	35:BA:2159:G:C5'	2.21	0.70
35:BA:654(N):G:H2'	35:BA:654(O):G:O4'	1.91	0.70
40:BF:63:LYS:NZ	40:BF:67:GLN:HB2	2.07	0.70
41:BG:141:PHE:O	41:BG:144:ILE:HG22	1.92	0.70
41:BG:61:ALA:HA	41:BG:64:THR:CG2	2.21	0.70
51:BS:65:VAL:O	51:BS:69:VAL:HG12	1.91	0.70
57:BY:13:VAL:HG11	57:BY:28:LYS:HD3	1.74	0.70
1:CA:1054:C:O2'	1:CA:1055:A:H5'	1.92	0.70
1:CA:1134:G:H2'	1:CA:1135:U:H5'	1.73	0.70
1:CA:328:C:H4'	1:CA:329:A:H5'	1.72	0.70
24:CY:303:ARG:N	24:CY:304:PRO:HD3	2.06	0.70
30:D5:4:HIS:HB3	30:D5:5:PRO:HD3	1.72	0.70
30:D5:55:ARG:CD	30:D5:56:LYS:H	1.96	0.70
35:DA:1038:C:C2'	35:DA:1039:G:H5''	2.21	0.70
35:DA:2310:A:O2'	35:DA:2311:A:H5'	1.91	0.70
35:DA:2884:U:H2'	35:DA:2885:C:H5'	1.74	0.70
35:DA:650:C:H3'	35:DA:651:G:H5''	1.71	0.70
51:DS:28:VAL:HB	51:DS:89:ARG:HB2	1.73	0.70
55:DW:88:ARG:HB2	55:DW:92:ARG:HB2	1.74	0.70
58:DZ:166:SER:OG	58:DZ:168:GLU:N	2.24	0.70
1:AA:1241:G:H2'	1:AA:1242:C:C6	2.27	0.70
1:AA:650:G:O2'	1:AA:651:C:H5'	1.91	0.70
2:AB:69:LEU:HD22	2:AB:91:PRO:HB2	1.71	0.70
3:AC:34:LEU:O	3:AC:38:ARG:HG3	1.92	0.70
35:BA:1717:G:C2'	35:BA:1718:G:H5''	2.20	0.70
35:BA:2802:G:O2'	35:BA:2803:C:H5''	1.92	0.70
49:BQ:52:VAL:O	49:BQ:56:ARG:HG2	1.91	0.70
51:BS:106:ARG:HH11	51:BS:106:ARG:C	1.94	0.70
1:CA:1347:G:H22	1:CA:1373:G:H2'	1.53	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CB:178:ARG:HH11	2:CB:178:ARG:CB	2.05	0.70
2:CB:185:ILE:CG2	2:CB:199:TYR:HB2	2.22	0.70
4:CD:128:VAL:O	4:CD:130:GLY:N	2.24	0.70
18:CR:70:ILE:O	18:CR:74:ARG:HG3	1.91	0.70
39:DE:59:VAL:O	39:DE:60:ASN:CG	2.30	0.70
40:DF:24:LEU:CB	40:DF:25:PRO:HD2	2.18	0.70
50:DR:98:LEU:HB2	50:DR:113:LEU:CD2	2.22	0.70
1:AA:73:G:H1	1:AA:96:U:H3	1.38	0.70
8:AH:118:VAL:O	8:AH:119:LEU:HD23	1.92	0.70
43:BI:31:LEU:H	43:BI:31:LEU:HD12	1.55	0.70
43:BI:92:VAL:HG13	43:BI:120:ILE:HD12	1.73	0.70
35:BA:480:A:H1'	57:BY:44:ILE:HG21	1.73	0.70
58:BZ:141:VAL:HA	58:BZ:144:LEU:HD23	1.73	0.70
2:CB:46:LYS:HE3	2:CB:46:LYS:HA	1.74	0.70
4:CD:49:ARG:NE	4:CD:49:ARG:HA	2.06	0.70
10:CJ:4:ILE:N	10:CJ:4:ILE:HD12	2.06	0.70
13:CM:84:ILE:HG13	19:CS:66:MET:SD	2.32	0.70
14:CN:23:ARG:HD2	14:CN:28:GLY:O	1.92	0.70
17:CQ:59:ILE:CG2	17:CQ:71:PHE:HB3	2.21	0.70
25:D0:43:THR:O	25:D0:43:THR:HG23	1.91	0.70
40:DF:1:MET:O	40:DF:3:GLU:HG2	1.92	0.70
41:DG:48:GLU:CD	41:DG:49:ASP:H	1.95	0.70
35:DA:811:U:OP2	48:DP:24:GLY:HA2	1.92	0.70
57:DY:63:LYS:HG2	57:DY:64:GLU:H	1.57	0.70
57:DY:96:ILE:HG22	57:DY:97:ARG:N	2.06	0.70
1:AA:736:C:H2'	1:AA:737:A:C8	2.27	0.70
5:AE:42:GLY:HA3	5:AE:66:MET:HG2	1.72	0.70
10:AJ:27:ALA:HB2	10:AJ:85:LEU:HD11	1.74	0.70
42:BH:155:SER:O	42:BH:157:TYR:N	2.24	0.70
42:BH:67:LEU:O	42:BH:71:LEU:HD22	1.91	0.70
46:BN:1:MET:O	46:BN:2:LYS:HG3	1.92	0.70
58:BZ:141:VAL:HA	58:BZ:144:LEU:CD2	2.22	0.70
2:CB:114:ARG:O	2:CB:118:LEU:HG	1.91	0.70
4:CD:132:ARG:HH11	4:CD:132:ARG:HG2	1.57	0.70
1:CA:1348:U:H4'	9:CI:120:ARG:HD2	1.73	0.70
10:CJ:8:LEU:HD23	10:CJ:96:ILE:CG2	2.22	0.70
11:CK:80:VAL:HG13	11:CK:103:LEU:HD11	1.72	0.70
13:CM:3:ARG:NH2	13:CM:7:VAL:HG22	2.07	0.70
31:D6:39:TYR:O	31:D6:46:HIS:HB2	1.91	0.70
32:D7:4:THR:HG22	35:DA:687:C:H1'	1.74	0.70
35:DA:1073:A:H2'	35:DA:1074:G:O4'	1.92	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:1948:G:H5'	35:DA:1948:G:C8	2.26	0.70
42:DH:136:ILE:HD12	42:DH:136:ILE:N	2.06	0.70
44:DJ:117:UNK:HA	44:DJ:121:UNK:O	1.92	0.70
45:DK:112:MET:H	45:DK:113:PRO:HD2	1.56	0.70
45:DK:74:ALA:HB2	45:DK:111:LYS:HE3	1.72	0.70
48:DP:16:ARG:CZ	48:DP:18:ARG:HG2	2.21	0.70
52:DT:29:ARG:HG3	52:DT:30:VAL:HG13	1.73	0.70
1:AA:1264:C:H2'	1:AA:1265:G:C8	2.26	0.70
1:AA:1347:G:H22	1:AA:1373:G:H2'	1.55	0.70
12:AL:28:LYS:HE3	12:AL:33:ARG:HH12	1.55	0.70
13:AM:3:ARG:NH2	13:AM:7:VAL:HG22	2.07	0.70
19:AS:50:ALA:HB1	19:AS:57:HIS:HB3	1.74	0.70
30:B5:41:PRO:HG2	30:B5:44:THR:HG21	1.71	0.70
35:BA:1748:G:H8	35:BA:1748:G:H5'	1.57	0.70
33:B8:59:LYS:HD3	48:BP:50:ARG:HB3	1.72	0.70
49:BQ:43:THR:OG1	49:BQ:46:GLN:HG3	1.92	0.70
1:CA:1241:G:H2'	1:CA:1242:C:C6	2.27	0.70
1:CA:973:G:O4'	10:CJ:55:LYS:HG3	1.92	0.70
17:CQ:59:ILE:HG21	17:CQ:71:PHE:HB3	1.72	0.70
27:D2:64:LEU:O	27:D2:64:LEU:HD23	1.91	0.70
36:DB:87:G:C3'	36:DB:88:C:H5''	2.21	0.70
40:DF:4:VAL:HG22	40:DF:19:GLU:OE1	1.90	0.70
41:DG:121:ASN:HD22	41:DG:122:PRO:N	1.89	0.70
41:DG:128:ARG:HH11	41:DG:128:ARG:HB3	1.57	0.70
6:AF:86:ARG:O	6:AF:87:ARG:HG2	1.92	0.70
18:AR:31:LEU:H	18:AR:31:LEU:CD2	2.04	0.70
35:BA:1464:C:HO2'	35:BA:1528:A:H8	0.78	0.70
40:BF:40:GLN:NE2	40:BF:182:ASN:HB2	2.06	0.70
48:BP:124:LYS:HD3	48:BP:143:GLY:CA	2.21	0.70
4:CD:129:ASN:N	4:CD:129:ASN:HD22	1.89	0.70
6:CF:69:GLU:O	6:CF:72:VAL:HG12	1.91	0.70
8:CH:90:GLY:O	12:CL:7:ILE:HG21	1.92	0.70
16:CP:20:VAL:HG23	16:CP:34:GLU:O	1.92	0.70
24:CY:141:THR:O	24:CY:145:GLU:HG3	1.92	0.70
35:DA:654(N):G:H2'	35:DA:654(O):G:O4'	1.92	0.70
38:DD:32:SER:HA	38:DD:35:LYS:HZ1	1.55	0.70
40:DF:157:VAL:CG1	40:DF:194:MET:HG2	2.21	0.70
52:DT:53:ARG:HB2	52:DT:53:ARG:NH1	2.07	0.70
52:DT:83:ILE:HG13	52:DT:84:GLN:H	1.55	0.70
57:DY:50:ARG:HB2	57:DY:57:GLN:HA	1.72	0.70
13:AM:120:LYS:HD3	13:AM:121:LYS:N	2.07	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:AS:67:VAL:HG23	19:AS:68:GLY:H	1.57	0.69
30:B5:4:HIS:HB3	30:B5:5:PRO:HD3	1.73	0.69
31:B6:19:ARG:HH11	31:B6:19:ARG:HG2	1.55	0.69
35:BA:1332:G:N2	35:BA:1609:A:O2'	2.25	0.69
35:BA:2113:U:H2'	35:BA:2114:A:O4'	1.92	0.69
38:BD:133:LEU:HD22	38:BD:165:ILE:HD11	1.74	0.69
40:BF:4:VAL:HG22	40:BF:19:GLU:OE1	1.91	0.69
41:BG:38:VAL:HG22	41:BG:93:THR:HA	1.73	0.69
41:BG:9:ARG:NH1	41:BG:9:ARG:HB2	2.06	0.69
43:BI:47:LEU:O	43:BI:51:ILE:HG12	1.92	0.69
43:BI:52:ARG:HG3	43:BI:53:ALA:N	2.06	0.69
35:BA:910:A:N7	49:BQ:13:GLN:HG3	2.07	0.69
57:BY:28:LYS:HZ2	57:BY:72:VAL:HG21	1.55	0.69
1:CA:503:C:H2'	1:CA:504:C:H6	1.56	0.69
2:CB:187:LEU:HD22	2:CB:201:ILE:O	1.92	0.69
15:CO:16:ALA:HB1	15:CO:21:ASP:HB3	1.73	0.69
24:CY:312:ARG:HD2	24:CY:314:TYR:CZ	2.27	0.69
30:D5:33:CYS:HB2	30:D5:40:LYS:HE3	1.73	0.69
35:DA:2113:U:H2'	35:DA:2114:A:O4'	1.92	0.69
35:DA:2189:U:H2'	35:DA:2190:G:H5''	1.73	0.69
35:DA:2562:U:H1'	47:DO:23:ARG:NH1	2.06	0.69
38:DD:27:THR:OG1	38:DD:83:GLU:HG2	1.91	0.69
43:DI:9:LEU:HD13	43:DI:13:GLY:HA2	1.72	0.69
48:DP:16:ARG:HD3	48:DP:18:ARG:H	1.57	0.69
48:DP:97:PRO:O	48:DP:98:GLU:HB3	1.91	0.69
55:DW:10:VAL:O	55:DW:11:ARG:HB2	1.92	0.69
58:DZ:20:ARG:CB	58:DZ:20:ARG:HH11	2.03	0.69
1:AA:1112:C:O2	3:AC:179:ARG:HG2	1.92	0.69
2:AB:219:VAL:O	2:AB:223:ILE:HG13	1.91	0.69
4:AD:64:LEU:HB2	4:AD:198:VAL:HG11	1.74	0.69
10:AJ:8:LEU:HD23	10:AJ:96:ILE:HG22	1.74	0.69
17:AQ:57:VAL:HG12	17:AQ:76:LEU:HA	1.72	0.69
41:BG:52:ILE:HG12	41:BG:53:LEU:H	1.57	0.69
46:BN:2:LYS:HZ3	53:BU:95:LEU:HD21	1.57	0.69
48:BP:17:LYS:O	48:BP:19:VAL:HG22	1.92	0.69
50:BR:11:ASN:OD1	50:BR:12:ARG:N	2.24	0.69
50:BR:33:ARG:HE	50:BR:115:GLU:HG3	1.56	0.69
54:BV:47:VAL:HG11	54:BV:51:VAL:HA	1.74	0.69
58:BZ:108:PRO:O	58:BZ:111:VAL:HG22	1.92	0.69
1:CA:659:U:O2'	1:CA:660:G:H5'	1.92	0.69
24:CY:137:LEU:O	24:CY:137:LEU:HD23	1.91	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:D6:48:VAL:CG2	31:D6:49:HIS:H	2.01	0.69
35:DA:1541:G:H4'	35:DA:1542:A:O4'	1.92	0.69
35:DA:2629:A:H8	35:DA:2895:U:H3	1.39	0.69
37:DC:26:ALA:O	37:DC:30:VAL:HG23	1.92	0.69
46:DN:58:ASP:OD2	46:DN:59:LYS:HG2	1.91	0.69
47:DO:93:PRO:HD3	47:DO:114:ILE:HD11	1.74	0.69
35:DA:910:A:N7	49:DQ:13:GLN:HG3	2.06	0.69
1:AA:1012:U:H2'	1:AA:1013:G:C8	2.26	0.69
4:AD:126:ILE:HG22	4:AD:127:THR:N	2.06	0.69
33:B8:50:LEU:C	33:B8:53:PRO:HD2	2.12	0.69
35:BA:12:U:H2'	35:BA:12:U:O2	1.91	0.69
35:BA:1485:G:H1'	35:BA:1505:C:H42	1.57	0.69
35:BA:1747(A):G:H2'	35:BA:1748:G:C5'	2.11	0.69
39:BE:111:ARG:HG3	50:BR:2:ARG:HG2	1.72	0.69
36:BB:6:C:O2'	51:BS:29:PHE:HE1	1.75	0.69
5:CE:42:GLY:CA	5:CE:66:MET:HG2	2.22	0.69
35:DA:2132:U:H3	37:DC:6:LYS:HB3	1.57	0.69
1:AA:438:G:H4'	1:AA:439:A:OP1	1.91	0.69
24:AY:127:THR:HG23	24:AY:161:GLU:HB2	1.74	0.69
35:BA:1073:A:H2'	35:BA:1074:G:O4'	1.91	0.69
40:BF:24:LEU:O	40:BF:26:ALA:N	2.24	0.69
45:BK:112:MET:H	45:BK:113:PRO:HD2	1.56	0.69
1:CA:1172:C:H2'	1:CA:1173:G:H8	1.58	0.69
1:CA:438:G:H4'	1:CA:439:A:OP1	1.92	0.69
24:CY:135:MET:HB3	24:CY:138:ARG:NH1	2.07	0.69
35:DA:806:C:OP2	48:DP:39:LYS:HD3	1.93	0.69
35:DA:1803:A:O2'	38:DD:259:THR:HG21	1.91	0.69
52:DT:13:ARG:HA	52:DT:13:ARG:NE	2.08	0.69
1:AA:1126:U:H2'	1:AA:1127:G:O4'	1.92	0.69
1:AA:973:G:O4'	10:AJ:55:LYS:HG3	1.91	0.69
8:AH:40:ALA:C	8:AH:42:GLU:H	1.96	0.69
9:AI:102:LEU:HD23	9:AI:103:THR:N	2.07	0.69
10:AJ:34:VAL:HG22	10:AJ:74:ILE:HG22	1.75	0.69
35:BA:1316:U:O2'	35:BA:1317:A:H5'	1.93	0.69
42:BH:41:MET:HG3	42:BH:43:VAL:H	1.57	0.69
34:D9:31:LYS:HE2	35:DA:2528:U:H5''	1.75	0.69
27:D2:47:ASN:HD22	35:DA:94(A):G:H21	1.40	0.69
41:DG:39:ILE:HD11	41:DG:60:LEU:HD21	1.75	0.69
42:DH:41:MET:HG3	42:DH:43:VAL:H	1.56	0.69
46:DN:1:MET:O	46:DN:2:LYS:HG3	1.92	0.69
54:DV:38:LEU:HD23	54:DV:38:LEU:C	2.13	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
57:DY:10:GLY:C	57:DY:27:VAL:HG22	2.12	0.69
2:AB:185:ILE:CG2	2:AB:199:TYR:HB2	2.23	0.69
4:AD:35:ARG:O	4:AD:37:PRO:HD3	1.92	0.69
6:AF:69:GLU:O	6:AF:72:VAL:HG12	1.92	0.69
14:AN:6:LEU:HD22	14:AN:23:ARG:NH2	2.06	0.69
41:BG:101:ILE:HG22	41:BG:105:LYS:HD2	1.73	0.69
47:BO:24:VAL:HB	47:BO:33:ALA:HB2	1.75	0.69
48:BP:47:ASP:HB3	48:BP:48:PRO:O	1.91	0.69
52:BT:53:ARG:NH1	52:BT:53:ARG:HB2	2.07	0.69
35:BA:143:G:H1'	56:BX:37:THR:HG21	1.74	0.69
1:CA:1264:C:H2'	1:CA:1265:G:C8	2.27	0.69
1:CA:489:C:H2'	1:CA:490:G:H8	1.57	0.69
1:CA:537:G:H2'	1:CA:538:G:H8	1.57	0.69
1:CA:67:C:H2'	1:CA:68:G:H8	1.58	0.69
7:CG:140:ASP:HA	7:CG:143:ARG:NH1	2.07	0.69
13:CM:2:ALA:N	13:CM:9:ILE:HG23	2.08	0.69
30:D5:57:VAL:HG23	30:D5:58:LEU:H	1.57	0.69
33:D8:52:LYS:N	33:D8:53:PRO:CD	2.56	0.69
36:DB:48:A:H4'	51:DS:95:HIS:HD2	1.57	0.69
42:DH:43:VAL:HA	42:DH:46:GLU:OE2	1.93	0.69
48:DP:124:LYS:HD3	48:DP:143:GLY:HA2	1.74	0.69
52:DT:129:ARG:NE	52:DT:131:ALA:HB3	2.06	0.69
58:DZ:139:VAL:HG22	58:DZ:155:LEU:HB2	1.74	0.69
1:AA:1255:G:H2'	1:AA:1255:G:N3	2.06	0.69
1:AA:1243:C:H42	1:AA:1294:G:H22	1.40	0.69
6:AF:12:PRO:HG3	6:AF:57:GLN:O	1.91	0.69
8:AH:86:ILE:HG12	8:AH:135:CYS:HA	1.73	0.69
33:B8:4:MET:CB	33:B8:61:LEU:HD13	2.23	0.69
36:BB:86:G:H1	36:BB:91:C:H42	1.40	0.69
39:BE:108:SER:HB3	39:BE:165:VAL:HG21	1.73	0.69
40:BF:2:LYS:HD3	40:BF:25:PRO:CG	2.23	0.69
43:BI:68:LEU:HD23	43:BI:68:LEU:O	1.92	0.69
52:BT:28:VAL:HG22	52:BT:47:GLY:H	1.56	0.69
52:BT:89:VAL:CG1	52:BT:91:ARG:HG3	2.22	0.69
56:BX:12:VAL:HG13	56:BX:27:THR:O	1.93	0.69
1:CA:1255:G:H2'	1:CA:1255:G:N3	2.06	0.69
1:CA:1355:G:H2'	1:CA:1356:G:C8	2.27	0.69
1:CA:390:C:H2'	1:CA:391:G:C8	2.28	0.69
3:CC:123:GLN:O	3:CC:128:PHE:HB2	1.92	0.69
5:CE:102:ALA:HB1	5:CE:106:PRO:CG	2.21	0.69
6:CF:12:PRO:HG3	6:CF:57:GLN:O	1.92	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:CY:112:ALA:HA	24:CY:177:TYR:CD2	2.26	0.69
35:DA:1485:G:H1'	35:DA:1505:C:H42	1.57	0.69
35:DA:207:A:H2'	35:DA:208:C:O4'	1.93	0.69
48:DP:47:ASP:HB3	48:DP:48:PRO:O	1.91	0.69
1:AA:194:C:H2'	1:AA:195:A:H5''	1.75	0.69
1:AA:250:A:H4'	1:AA:251:G:O5'	1.93	0.69
1:AA:503:C:H2'	1:AA:504:C:H6	1.57	0.69
13:AM:90:LEU:C	13:AM:92:HIS:H	1.94	0.69
19:AS:64:GLU:HG3	19:AS:65:ASN:H	1.58	0.69
22:AW:57:G:C2'	22:AW:58:A:H5'	2.21	0.69
33:B8:50:LEU:HD12	33:B8:51:ALA:N	2.08	0.69
39:BE:101:ARG:HB2	39:BE:201:THR:HG21	1.74	0.69
52:BT:129:ARG:NE	52:BT:131:ALA:HB3	2.06	0.69
56:BX:12:VAL:CB	56:BX:17:ALA:HB1	2.22	0.69
1:CA:1126:U:H2'	1:CA:1127:G:O4'	1.92	0.69
1:CA:1321:C:H3'	1:CA:1322:C:H5''	1.75	0.69
1:CA:736:C:H2'	1:CA:737:A:C8	2.27	0.69
2:CB:71:VAL:HB	2:CB:164:VAL:HG22	1.73	0.69
24:CY:136:LEU:HD11	24:CY:187:HIS:HB2	1.73	0.69
35:DA:1902:C:H1'	38:DD:244:ARG:HG3	1.75	0.69
24:CY:36:PRO:HD3	45:DK:29:GLN:HA	1.75	0.69
57:DY:13:VAL:HG11	57:DY:28:LYS:HD3	1.74	0.69
1:AA:1149:C:H2'	1:AA:1150:U:C6	2.28	0.69
1:AA:192:U:H5'	20:AT:102:GLY:HA2	1.74	0.69
1:AA:926:G:H21	23:AX:15:A:H5'	1.57	0.69
9:AI:7:THR:HB	9:AI:83:ARG:NH1	2.07	0.69
9:AI:88:TYR:O	9:AI:89:ASN:HB2	1.91	0.69
10:AJ:50:ILE:HA	10:AJ:60:ARG:HB2	1.74	0.69
10:AJ:8:LEU:HD23	10:AJ:96:ILE:CG2	2.23	0.69
28:B3:29:ARG:H	28:B3:33:GLN:NE2	1.91	0.69
35:BA:1011:G:H5''	53:BU:77:SER:OG	1.93	0.69
35:BA:2312:U:C2'	35:BA:2313:C:H5''	2.22	0.69
41:BG:115:ARG:HH21	41:BG:136:ARG:HD2	1.56	0.69
44:BJ:117:UNK:HA	44:BJ:121:UNK:O	1.93	0.69
46:BN:47:ALA:HB2	46:BN:112:LEU:HD11	1.73	0.69
1:CA:243:A:H4'	1:CA:244:U:O5'	1.91	0.69
10:CJ:75:ILE:HG13	10:CJ:76:ASN:H	1.58	0.69
35:DA:1358:G:O2'	35:DA:1359:A:H5''	1.92	0.69
35:DA:2893:G:H5'	35:DA:2894:G:H5'	1.75	0.69
38:DD:11:PRO:O	38:DD:13:ARG:N	2.24	0.69
54:DV:6:LYS:HB3	54:DV:37:VAL:HG12	1.75	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1242:C:P	21:AU:10:ARG:HH22	2.15	0.69
1:AA:390:C:H2'	1:AA:391:G:C8	2.27	0.69
1:AA:444:C:H2'	1:AA:445:G:H8	1.57	0.69
1:AA:489:C:H2'	1:AA:490:G:H8	1.57	0.69
1:AA:67:C:H2'	1:AA:68:G:H8	1.56	0.69
4:AD:127:THR:HG23	4:AD:147:ALA:HB3	1.74	0.69
4:AD:129:ASN:N	4:AD:129:ASN:HD22	1.88	0.69
4:AD:14:ARG:HD2	4:AD:59:ARG:NH1	2.07	0.69
4:AD:150:GLU:CD	4:AD:151:LYS:N	2.46	0.69
5:AE:150:ARG:HA	5:AE:153:LYS:HE2	1.73	0.69
13:AM:2:ALA:N	13:AM:9:ILE:HG23	2.07	0.69
25:B0:18:ALA:HB3	25:B0:20:ARG:NH1	2.07	0.69
28:B3:43:ILE:O	28:B3:47:VAL:HG23	1.92	0.69
35:BA:1019:U:H3	35:BA:1142(A):A:H62	1.39	0.69
35:BA:2132:U:H3	37:BC:6:LYS:HB3	1.57	0.69
35:BA:272(I):U:O2	35:BA:272(I):U:H5'	1.93	0.69
52:BT:23:ARG:HB2	52:BT:24:PRO:HD2	1.75	0.69
1:CA:1128:C:C5'	9:CI:16:ARG:HH12	2.06	0.69
1:CA:194:C:H2'	1:CA:195:A:H5''	1.75	0.69
27:D2:50:ILE:O	27:D2:52:ASP:N	2.25	0.69
35:DA:1528:A:C2	35:DA:1542:A:H2	2.11	0.69
35:DA:2134:A:C2	35:DA:2159:G:H1'	2.28	0.69
45:DK:20:ALA:CA	45:DK:25:PRO:HD3	2.23	0.69
52:DT:28:VAL:HG22	52:DT:47:GLY:H	1.58	0.69
57:DY:2:ARG:C	57:DY:4:LYS:H	1.95	0.69
1:AA:1312:G:H1	1:AA:1325:C:H42	1.41	0.69
1:AA:1493:A:H1'	24:AY:124:ALA:HA	1.75	0.69
1:AA:539:A:OP2	12:AL:115:LYS:HE3	1.93	0.69
2:AB:46:LYS:HA	2:AB:46:LYS:HE3	1.75	0.69
4:AD:43:HIS:O	4:AD:45:GLN:N	2.25	0.69
10:AJ:6:ILE:O	10:AJ:6:ILE:HD12	1.92	0.69
16:AP:20:VAL:HG23	16:AP:34:GLU:O	1.92	0.69
35:BA:197:A:H5'	35:BA:197:A:H8	1.57	0.69
38:BD:35:LYS:HG3	38:BD:63:ARG:HD2	1.75	0.69
42:BH:19:VAL:HG21	42:BH:44:VAL:HA	1.75	0.69
46:BN:58:ASP:OD2	46:BN:59:LYS:HG2	1.93	0.69
35:BA:811:U:OP2	48:BP:24:GLY:HA2	1.93	0.69
2:CB:162:ILE:O	2:CB:185:ILE:HG12	1.93	0.69
6:CF:82:ARG:HB2	6:CF:85:VAL:HG23	1.75	0.69
8:CH:118:VAL:O	8:CH:119:LEU:HD23	1.92	0.69
9:CI:102:LEU:HD23	9:CI:103:THR:N	2.07	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:CY:138:ARG:HD2	24:CY:142:ARG:NH2	2.08	0.69
33:D8:50:LEU:HD12	33:D8:51:ALA:N	2.08	0.69
42:DH:13:LYS:CE	42:DH:13:LYS:HA	2.17	0.69
48:DP:83:VAL:H	48:DP:115:LEU:HD21	1.57	0.69
7:AG:64:GLN:HE21	7:AG:68:ASN:HD21	1.40	0.68
24:AY:237:PRO:O	24:AY:242:VAL:HG21	1.93	0.68
35:BA:8:A:H2'	35:BA:9:U:C6	2.28	0.68
38:BD:11:PRO:O	38:BD:13:ARG:N	2.22	0.68
45:BK:10:LEU:HD23	45:BK:23:VAL:HG11	1.76	0.68
49:BQ:16:ARG:O	49:BQ:17:LEU:HD23	1.93	0.68
51:BS:92:TYR:CD1	51:BS:93:LYS:N	2.58	0.68
54:BV:15:GLU:HB3	54:BV:16:PRO:CD	2.21	0.68
57:BY:31:LEU:HD23	57:BY:36:ALA:O	1.93	0.68
57:BY:28:LYS:CA	57:BY:38:ILE:HG22	2.20	0.68
13:CM:83:ASP:CG	13:CM:84:ILE:H	1.97	0.68
31:D6:19:ARG:CG	31:D6:20:ASN:H	2.03	0.68
35:DA:1658:C:OP1	39:DE:132:HIS:ND1	2.25	0.68
39:DE:87:GLU:O	39:DE:89:ASP:N	2.25	0.68
45:DK:95:LYS:N	45:DK:95:LYS:HD2	2.08	0.68
52:DT:23:ARG:HB2	52:DT:24:PRO:HD2	1.75	0.68
54:DV:6:LYS:HB3	54:DV:37:VAL:CG1	2.22	0.68
2:AB:162:ILE:O	2:AB:185:ILE:HG12	1.93	0.68
3:AC:20:SER:HB2	3:AC:40:ARG:HH22	1.56	0.68
4:AD:128:VAL:O	4:AD:130:GLY:N	2.26	0.68
4:AD:31:CYS:C	4:AD:33:MET:H	1.96	0.68
7:AG:140:ASP:HA	7:AG:143:ARG:NH1	2.08	0.68
15:AO:16:ALA:HB1	15:AO:21:ASP:HB3	1.74	0.68
20:AT:48:LYS:O	20:AT:52:ALA:HB2	1.94	0.68
24:AY:152:GLU:OE1	24:AY:170:LEU:HD23	1.94	0.68
24:AY:77:GLU:H	24:AY:84:ARG:CG	2.05	0.68
40:BF:132:VAL:HG22	40:BF:133:ASN:ND2	2.08	0.68
40:BF:67:GLN:CG	40:BF:67:GLN:O	2.42	0.68
48:BP:112:LEU:H	48:BP:128:HIS:HD2	1.39	0.68
1:CA:262:A:H2'	1:CA:263:A:C8	2.29	0.68
13:CM:120:LYS:HD3	13:CM:121:LYS:N	2.07	0.68
16:CP:20:VAL:HG21	16:CP:32:TYR:CD2	2.27	0.68
35:DA:146:G:H5'	35:DA:146:G:H8	1.57	0.68
35:DA:1503:U:O2'	35:DA:1504:C:H5'	1.93	0.68
35:DA:528:A:C2	35:DA:2043:C:H4'	2.28	0.68
35:DA:8:A:H2'	35:DA:9:U:C6	2.27	0.68
43:DI:81:VAL:HG21	43:DI:88:ILE:HG21	1.75	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
51:DS:106:ARG:C	51:DS:106:ARG:HH11	1.96	0.68
3:AC:14:ILE:HG12	3:AC:15:THR:N	2.04	0.68
8:AH:30:ARG:HB3	8:AH:30:ARG:NH1	2.08	0.68
12:AL:28:LYS:HD2	12:AL:30:ALA:HB2	1.74	0.68
13:AM:23:TYR:O	13:AM:66:LEU:HA	1.93	0.68
15:AO:48:LYS:HA	15:AO:48:LYS:HE2	1.76	0.68
16:AP:19:ILE:HD12	16:AP:19:ILE:H	1.56	0.68
13:AM:84:ILE:HG13	19:AS:66:MET:SD	2.33	0.68
24:AY:18:ASP:HB3	24:AY:22:LYS:NZ	2.08	0.68
24:AY:187:HIS:CE1	24:AY:311:ILE:HD11	2.27	0.68
27:B2:2:LYS:HA	27:B2:5:GLU:OE1	1.93	0.68
35:BA:1529:G:N2	35:BA:1530:C:H2'	2.09	0.68
35:BA:673:C:C6	35:BA:673:C:H5'	2.22	0.68
40:BF:1:MET:O	40:BF:3:GLU:HG2	1.94	0.68
45:BK:18:THR:HG23	45:BK:38:VAL:HG11	1.75	0.68
47:BO:49:ARG:HD3	47:BO:49:ARG:N	2.07	0.68
48:BP:16:ARG:HD3	48:BP:18:ARG:H	1.56	0.68
48:BP:48:PRO:O	48:BP:50:ARG:N	2.26	0.68
50:BR:10:LEU:HB3	50:BR:17:ARG:NE	2.08	0.68
2:CB:219:VAL:O	2:CB:223:ILE:HG13	1.93	0.68
10:CJ:8:LEU:HD23	10:CJ:96:ILE:HG22	1.74	0.68
22:CW:68:C:H2'	22:CW:69:G:C8	2.25	0.68
24:CY:141:THR:HG22	24:CY:145:GLU:OE2	1.93	0.68
13:CM:124:PRO:HB2	24:CY:163:GLY:C	2.14	0.68
24:CY:223:LYS:C	24:CY:225:GLU:H	1.97	0.68
30:D5:33:CYS:SG	30:D5:36:CYS:HB3	2.32	0.68
33:D8:30:ARG:HD3	33:D8:30:ARG:O	1.93	0.68
35:DA:1090:U:H2'	35:DA:1091:G:C8	2.29	0.68
35:DA:1301:A:H4'	35:DA:1302:A:OP1	1.93	0.68
35:DA:197:A:H5'	35:DA:197:A:C8	2.28	0.68
58:DZ:44:PHE:CZ	58:DZ:86:VAL:HG11	2.29	0.68
1:AA:1314:C:OP2	19:AS:6:LYS:HG3	1.92	0.68
7:AG:113:GLU:HG2	7:AG:119:ARG:HG2	1.75	0.68
22:AW:63:G:H2'	22:AW:64:A:H5'	1.76	0.68
34:B9:31:LYS:HE2	35:BA:2528:U:H5''	1.73	0.68
35:BA:1718:G:H8	35:BA:1718:G:H5'	1.57	0.68
35:BA:2310:A:O2'	35:BA:2311:A:H5'	1.93	0.68
35:BA:2893:G:H5'	35:BA:2894:G:H5'	1.75	0.68
35:BA:654(C):G:C2'	35:BA:654(D):G:H5'	2.23	0.68
37:BC:191:ARG:HB3	37:BC:195:ARG:NH1	2.07	0.68
38:BD:34:VAL:C	38:BD:36:PRO:HD2	2.12	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
48:BP:100:LEU:HD12	48:BP:112:LEU:HD21	1.74	0.68
52:BT:28:VAL:HG22	52:BT:47:GLY:N	2.09	0.68
53:BU:31:SER:O	53:BU:33:ARG:N	2.20	0.68
55:BW:36:LEU:HD11	55:BW:47:VAL:HG12	1.75	0.68
57:BY:63:LYS:HG2	57:BY:64:GLU:H	1.56	0.68
58:BZ:3:TYR:O	58:BZ:57:ILE:HA	1.94	0.68
3:CC:53:ALA:HB2	3:CC:115:LEU:HD21	1.74	0.68
14:CN:6:LEU:HD22	14:CN:23:ARG:NH2	2.08	0.68
27:D2:50:ILE:C	27:D2:52:ASP:H	1.96	0.68
33:D8:31:HIS:HE1	35:DA:2392:A:OP2	1.75	0.68
35:DA:272(I):U:O2	35:DA:272(I):U:H5'	1.93	0.68
35:DA:2794:C:H42	35:DA:2801(A):A:H61	1.42	0.68
42:DH:97:ARG:HG3	42:DH:98:LEU:N	2.08	0.68
43:DI:68:LEU:O	43:DI:68:LEU:HD23	1.93	0.68
45:DK:54:PRO:HD3	45:DK:73:PRO:HD3	1.76	0.68
6:AF:82:ARG:HB2	6:AF:85:VAL:HG23	1.74	0.68
41:BG:120:LEU:HD22	41:BG:133:LEU:HD21	1.75	0.68
51:BS:95:HIS:CG	51:BS:96:GLY:H	2.11	0.68
1:CA:979:C:H3'	1:CA:980:C:C5'	2.20	0.68
4:CD:150:GLU:CD	4:CD:151:LYS:H	1.95	0.68
10:CJ:34:VAL:HG22	10:CJ:74:ILE:HG22	1.74	0.68
29:D4:14:ILE:H	29:D4:14:ILE:HD12	1.58	0.68
58:DZ:79:ARG:O	58:DZ:80:ARG:HB2	1.92	0.68
1:AA:1277:C:H2'	1:AA:1278:U:H5'	1.76	0.68
1:AA:942:G:H21	9:AI:124:GLN:NE2	1.91	0.68
4:AD:175:SER:HB3	4:AD:186:LEU:HD11	1.76	0.68
35:BA:1281:G:H8	35:BA:1281:G:H5'	1.59	0.68
35:BA:142:A:H5'	35:BA:142(A):C:OP2	1.94	0.68
35:BA:2315:G:H2'	35:BA:2316:C:C6	2.29	0.68
41:BG:116:ASP:O	41:BG:117:PHE:HB3	1.94	0.68
52:BT:29:ARG:HB3	52:BT:85:LYS:HA	1.74	0.68
58:BZ:163:LEU:HD23	58:BZ:163:LEU:H	1.59	0.68
58:BZ:74:VAL:HG22	58:BZ:86:VAL:HG12	1.76	0.68
2:CB:77:ALA:O	2:CB:81:VAL:HG23	1.94	0.68
19:CS:64:GLU:HG3	19:CS:65:ASN:H	1.58	0.68
1:CA:192:U:H5'	20:CT:102:GLY:HA2	1.75	0.68
24:CY:237:PRO:O	24:CY:242:VAL:HG11	1.93	0.68
26:D1:29:GLY:O	26:D1:30:VAL:HG23	1.93	0.68
31:D6:41:PRO:CG	31:D6:46:HIS:HA	2.23	0.68
35:DA:156:U:H4'	35:DA:157:U:H5''	1.74	0.68
35:DA:2682:U:H6	35:DA:2682:U:H5'	1.58	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:89:G:H3'	35:DA:90:U:H5'	1.75	0.68
43:DI:113:ARG:HH11	43:DI:132:PRO:HD3	1.59	0.68
45:DK:18:THR:HG23	45:DK:38:VAL:HG11	1.76	0.68
48:DP:112:LEU:H	48:DP:128:HIS:HD2	1.40	0.68
57:DY:26:LYS:HG3	57:DY:27:VAL:H	1.57	0.68
1:AA:1148:U:H2'	1:AA:1149:C:O4'	1.93	0.68
3:AC:73:PRO:HG2	3:AC:74:GLY:H	1.58	0.68
29:B4:14:ILE:H	29:B4:14:ILE:HD12	1.58	0.68
35:BA:156:U:H4'	35:BA:157:U:H5''	1.74	0.68
35:BA:2126:A:H4'	35:BA:2127:G:O5'	1.94	0.68
35:BA:89:G:H3'	35:BA:90:U:H5'	1.75	0.68
40:BF:178:PRO:HG2	40:BF:179:GLU:OE1	1.94	0.68
36:BB:75:G:H22	58:BZ:73:GLN:NE2	1.92	0.68
1:CA:1012:U:H2'	1:CA:1013:G:C8	2.28	0.68
1:CA:1152:A:H2'	1:CA:1153:C:H6	1.57	0.68
1:CA:59:A:C5'	1:CA:60:A:H5''	2.24	0.68
6:CF:3:ARG:HH11	6:CF:3:ARG:HG3	1.59	0.68
8:CH:30:ARG:NH1	8:CH:30:ARG:HB3	2.09	0.68
7:CG:82:GLY:HA2	23:CX:14:A:N6	2.08	0.68
24:CY:241:GLY:O	24:CY:244:THR:N	2.27	0.68
25:D0:49:LYS:N	25:D0:80:HIS:HD1	1.89	0.68
30:D5:41:PRO:HG2	30:D5:44:THR:HG21	1.76	0.68
35:DA:271(A):A:H5'	35:DA:271(B):C:OP2	1.93	0.68
35:DA:2802:G:O2'	35:DA:2803:C:H5''	1.92	0.68
40:DF:21:ALA:C	40:DF:23:ASP:H	1.95	0.68
41:DG:16:ARG:N	41:DG:17:PRO:HD2	2.09	0.68
52:DT:67:SER:O	52:DT:68:TYR:HB2	1.93	0.68
52:DT:89:VAL:HG12	52:DT:91:ARG:HG3	1.75	0.68
5:AE:42:GLY:CA	5:AE:66:MET:HG2	2.23	0.68
24:AY:302:VAL:C	24:AY:303:ARG:HG3	2.14	0.68
35:BA:1503:U:O2'	35:BA:1504:C:H5'	1.94	0.68
35:BA:2134:A:C2	35:BA:2159:G:H1'	2.28	0.68
35:BA:272(H):C:H2'	35:BA:272(I):U:C5'	2.24	0.68
39:BE:87:GLU:O	39:BE:89:ASP:N	2.26	0.68
40:BF:24:LEU:CB	40:BF:25:PRO:HD2	2.18	0.68
49:BQ:1:MET:HE1	49:BQ:48:GLU:HB2	1.75	0.68
6:CF:16:GLN:H	6:CF:16:GLN:CD	1.97	0.68
19:CS:67:VAL:HG23	19:CS:68:GLY:H	1.58	0.68
35:DA:1529:G:N2	35:DA:1530:C:H2'	2.09	0.68
35:DA:1902:C:H4'	38:DD:244:ARG:HA	1.75	0.68
35:DA:272(H):C:H2'	35:DA:272(I):U:C5'	2.24	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:860:U:C5	35:DA:917:A:N7	2.62	0.68
39:DE:24:THR:HG23	39:DE:184:VAL:HG23	1.76	0.68
47:DO:122:LEU:HD23	52:DT:43:GLN:NE2	2.07	0.68
1:AA:1355:G:H2'	1:AA:1356:G:C8	2.28	0.68
1:AA:243:A:H4'	1:AA:244:U:O5'	1.94	0.68
1:AA:1128:C:C5'	9:AI:16:ARG:HH12	2.05	0.68
1:AA:716:A:N3	11:AK:118:GLY:HA2	2.08	0.68
16:AP:20:VAL:HG21	16:AP:32:TYR:CD2	2.29	0.68
16:AP:45:THR:HG23	16:AP:46:PRO:HD2	1.74	0.68
21:AU:6:ARG:O	21:AU:12:LYS:HE3	1.93	0.68
22:AV:20:U:H2'	22:AV:21:A:H4'	1.75	0.68
13:AM:124:PRO:CD	24:AY:163:GLY:H	2.03	0.68
35:BA:1090:U:H2'	35:BA:1091:G:C8	2.28	0.68
35:BA:1348:G:H2'	35:BA:1349:A:C5'	2.23	0.68
35:BA:7:G:H2'	35:BA:8:A:O4'	1.94	0.68
37:BC:26:ALA:O	37:BC:30:VAL:HG23	1.93	0.68
41:BG:39:ILE:HD11	41:BG:60:LEU:HD11	1.74	0.68
50:BR:98:LEU:HB2	50:BR:113:LEU:CD2	2.23	0.68
54:BV:47:VAL:HB	54:BV:49:THR:O	1.93	0.68
4:CD:129:ASN:ND2	4:CD:129:ASN:H	1.92	0.68
4:CD:150:GLU:CD	4:CD:151:LYS:N	2.48	0.68
1:CA:1240:U:OP2	7:CG:116:ALA:HB2	1.94	0.68
9:CI:118:LYS:O	9:CI:119:ALA:HB3	1.94	0.68
9:CI:28:VAL:HA	9:CI:63:ILE:O	1.94	0.68
17:CQ:9:VAL:HG12	17:CQ:56:VAL:HG22	1.75	0.68
19:CS:50:ALA:HB1	19:CS:57:HIS:HB3	1.75	0.68
31:D6:15:GLU:OE2	31:D6:47:THR:CG2	2.42	0.68
35:DA:1405:U:H2'	35:DA:1406:U:C6	2.28	0.68
35:DA:1542:A:H3'	35:DA:1542:A:H8	1.58	0.68
49:DQ:1:MET:HE1	49:DQ:48:GLU:HB2	1.75	0.68
52:DT:89:VAL:C	52:DT:91:ARG:H	1.97	0.68
55:DW:46:PHE:O	55:DW:50:VAL:HG12	1.93	0.68
57:DY:14:LEU:HD12	57:DY:23:ARG:O	1.93	0.68
58:DZ:165:VAL:HG12	58:DZ:166:SER:N	2.09	0.68
1:AA:1172:C:H2'	1:AA:1173:G:H8	1.59	0.68
4:AD:28:SER:CB	4:AD:30:LYS:HE2	2.24	0.68
13:AM:83:ASP:CG	13:AM:84:ILE:H	1.98	0.68
23:AX:19:U:C4	24:AY:127:THR:HB	2.29	0.68
35:BA:152:G:H1	35:BA:174:C:H42	1.41	0.68
35:BA:654(S):G:H2'	35:BA:654(T):C:C5	2.29	0.68
35:BA:860:U:C5	35:BA:917:A:N7	2.60	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:BI:77:LEU:HD21	43:BI:101:LEU:HD13	1.75	0.68
45:BK:54:PRO:HD3	45:BK:73:PRO:HD3	1.76	0.68
1:CA:1158:C:H2'	1:CA:1158:C:O2	1.94	0.68
1:CA:1442(A):G:H2'	52:DT:118:ARG:HD2	1.75	0.68
1:CA:191:G:H1'	20:CT:105:SER:HB3	1.76	0.68
35:DA:1748:G:H8	35:DA:1748:G:H5'	1.57	0.68
35:DA:576:U:H2'	35:DA:577:G:C8	2.29	0.68
43:DI:145:VAL:CG1	43:DI:146:ALA:N	2.57	0.68
1:AA:659:U:O2'	1:AA:660:G:H5'	1.94	0.67
14:AN:23:ARG:HD2	14:AN:28:GLY:O	1.92	0.67
35:BA:1405:U:H2'	35:BA:1406:U:C6	2.29	0.67
35:BA:1639:U:H2'	35:BA:1640:C:H5''	1.75	0.67
35:BA:1803:A:O2'	38:BD:259:THR:HG21	1.94	0.67
35:BA:481:G:OP2	57:BY:47:LYS:HD3	1.94	0.67
38:BD:27:THR:OG1	38:BD:83:GLU:HG2	1.94	0.67
43:BI:93:THR:HG23	43:BI:96:ASP:H	1.58	0.67
35:BA:2562:U:H1'	47:BO:23:ARG:NH1	2.09	0.67
57:BY:101:LYS:HG2	57:BY:102:CYS:N	2.08	0.67
57:BY:14:LEU:HD12	57:BY:23:ARG:O	1.94	0.67
57:BY:95:LYS:HG3	57:BY:100:ALA:CA	2.19	0.67
58:BZ:110:GLY:HA2	58:BZ:146:ILE:CG2	2.24	0.67
1:CA:1149:C:H2'	1:CA:1150:U:C6	2.30	0.67
1:CA:930:C:O2'	1:CA:931:C:H5'	1.94	0.67
4:CD:35:ARG:O	4:CD:37:PRO:HD3	1.93	0.67
7:CG:120:ILE:HD12	7:CG:120:ILE:H	1.59	0.67
10:CJ:6:ILE:HD12	10:CJ:6:ILE:O	1.94	0.67
21:CU:6:ARG:O	21:CU:12:LYS:HE3	1.94	0.67
27:D2:16:LEU:HD22	27:D2:20:GLU:HB3	1.76	0.67
31:D6:19:ARG:HG2	31:D6:19:ARG:HH11	1.57	0.67
30:D5:11:THR:HG23	35:DA:1263:U:O3'	1.94	0.67
35:DA:2192:G:C2'	35:DA:2193:G:H5''	2.24	0.67
42:DH:97:ARG:O	42:DH:98:LEU:HB2	1.94	0.67
48:DP:29:LYS:HB3	48:DP:34:GLY:H	1.59	0.67
49:DQ:52:VAL:O	49:DQ:56:ARG:HG2	1.93	0.67
54:DV:22:VAL:O	54:DV:23:GLU:HB2	1.94	0.67
7:AG:146:GLU:HG2	7:AG:149:ARG:NH1	2.08	0.67
22:AW:63:G:C2'	22:AW:64:A:H5'	2.23	0.67
35:BA:1902:C:H4'	38:BD:244:ARG:HA	1.75	0.67
43:BI:144:VAL:HG12	43:BI:145:VAL:H	1.58	0.67
45:BK:95:LYS:HD2	45:BK:95:LYS:N	2.08	0.67
48:BP:97:PRO:O	48:BP:98:GLU:HB3	1.94	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
52:BT:29:ARG:HG2	52:BT:85:LYS:CA	2.23	0.67
57:BY:42:VAL:HB	57:BY:65:ALA:HB3	1.76	0.67
1:CA:1388:C:H2'	1:CA:1389:C:C6	2.29	0.67
3:CC:34:LEU:O	3:CC:38:ARG:HG3	1.94	0.67
7:CG:151:TYR:OH	11:CK:54:ARG:HD3	1.94	0.67
1:CA:1379:G:O6	7:CG:2:ALA:HB3	1.94	0.67
22:CW:19:G:H8	22:CW:20:U:H5	1.41	0.67
24:CY:120:ILE:HB	24:CY:167:ALA:HB3	1.76	0.67
35:DA:1142:U:H5''	35:DA:1142(A):A:H5''	1.76	0.67
35:DA:2126:A:H4'	35:DA:2127:G:O5'	1.94	0.67
35:DA:2313:C:H5'	35:DA:2313:C:H6	1.59	0.67
41:DG:118:ARG:HB2	41:DG:181:ARG:NE	2.08	0.67
57:DY:8:LYS:HB2	57:DY:28:LYS:HZ1	1.60	0.67
1:AA:1054:C:N4	24:AY:201:ARG:HB2	2.09	0.67
35:BA:1542:A:H8	35:BA:1542:A:H3'	1.59	0.67
35:BA:528:A:C2	35:BA:2043:C:H4'	2.28	0.67
35:BA:2112:G:H2'	35:BA:2112:G:N3	2.09	0.67
35:BA:2192:G:H2'	35:BA:2193:G:H5''	1.75	0.67
35:BA:2666:C:H5''	35:BA:2667:C:H5	1.59	0.67
39:BE:59:VAL:O	39:BE:60:ASN:CG	2.33	0.67
41:BG:63:ILE:HG22	41:BG:143:GLU:HG2	1.76	0.67
51:BS:74:ALA:HB1	51:BS:103:GLU:CB	2.23	0.67
47:BO:122:LEU:HD23	52:BT:43:GLN:NE2	2.09	0.67
57:BY:28:LYS:HG2	57:BY:39:VAL:HG22	1.76	0.67
1:CA:1148:U:H2'	1:CA:1149:C:O4'	1.93	0.67
1:CA:1356:G:H2'	1:CA:1357:A:C8	2.28	0.67
30:D5:16:ARG:NH1	30:D5:17:ASP:OD1	2.28	0.67
35:DA:2189:U:C2'	35:DA:2190:G:H5''	2.24	0.67
37:DC:191:ARG:HB3	37:DC:195:ARG:NH1	2.08	0.67
40:DF:28:ILE:N	40:DF:28:ILE:HD13	2.09	0.67
53:DU:90:VAL:HG13	54:DV:39:LEU:HD23	1.76	0.67
53:DU:95:LEU:HD12	54:DV:11:GLN:HE21	1.59	0.67
54:DV:72:VAL:HB	54:DV:85:LYS:HB3	1.76	0.67
1:AA:333:G:H4'	20:AT:16:HIS:CE1	2.29	0.67
3:AC:43:LEU:O	3:AC:47:LEU:HB3	1.94	0.67
4:AD:28:SER:HB2	4:AD:30:LYS:HE2	1.76	0.67
9:AI:28:VAL:HA	9:AI:63:ILE:O	1.94	0.67
35:BA:2668:G:O2'	35:BA:2669:G:H5'	1.94	0.67
35:DA:1719:G:O2'	35:DA:1720:U:H5'	1.94	0.67
38:DD:70:TRP:CH2	38:DD:150:LYS:HA	2.30	0.67
38:DD:186:HIS:CD2	38:DD:188:GLU:H	2.12	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:DF:63:LYS:NZ	40:DF:67:GLN:HB2	2.09	0.67
51:DS:92:TYR:CD1	51:DS:93:LYS:N	2.58	0.67
1:AA:1141:C:H2'	1:AA:1142:G:C8	2.30	0.67
3:AC:180:ALA:HB1	3:AC:203:PHE:CE1	2.29	0.67
4:AD:195:ALA:HB3	6:CF:16:GLN:O	1.95	0.67
13:AM:125:ARG:HA	24:AY:159:GLY:CA	2.24	0.67
35:BA:146:G:H5'	35:BA:146:G:H8	1.59	0.67
35:BA:2189:U:C2'	35:BA:2190:G:H5''	2.25	0.67
35:BA:672:C:H2'	35:BA:673:C:C5'	2.23	0.67
45:BK:20:ALA:CA	45:BK:25:PRO:HD3	2.24	0.67
48:BP:124:LYS:HD3	48:BP:143:GLY:HA2	1.76	0.67
52:BT:13:ARG:HA	52:BT:13:ARG:NE	2.08	0.67
1:CA:1152:A:H5''	10:CJ:13:HIS:CD2	2.29	0.67
6:CF:67:MET:HB2	6:CF:68:PRO:HD2	1.77	0.67
12:CL:28:LYS:HD2	12:CL:30:ALA:HB2	1.76	0.67
42:DH:19:VAL:HG21	42:DH:44:VAL:HA	1.74	0.67
43:DI:10:GLU:C	43:DI:12:LEU:H	1.98	0.67
50:DR:44:LEU:O	50:DR:48:VAL:HG23	1.94	0.67
53:DU:88:ILE:HG22	54:DV:47:VAL:CG2	2.25	0.67
53:DU:92:ARG:NH1	53:DU:94:ASN:HD22	1.93	0.67
57:DY:38:ILE:CG2	57:DY:39:VAL:N	2.58	0.67
1:AA:36:C:H4'	12:AL:122:THR:O	1.93	0.67
18:AR:66:LEU:HG	18:AR:70:ILE:HD11	1.77	0.67
24:AY:19:ILE:O	24:AY:23:GLU:HB2	1.94	0.67
25:B0:24:LYS:O	25:B0:25:ARG:HD3	1.95	0.67
33:B8:48:PHE:C	33:B8:49:VAL:HG22	2.13	0.67
35:BA:1528:A:C2	35:BA:1542:A:H2	2.13	0.67
35:BA:1590:U:H2'	35:BA:1591:G:C5'	2.14	0.67
35:BA:2629:A:H8	35:BA:2895:U:H3	1.39	0.67
36:BB:20:C:H2'	36:BB:21:G:C5'	2.22	0.67
38:BD:186:HIS:CD2	38:BD:188:GLU:H	2.12	0.67
54:BV:46:VAL:HG12	54:BV:47:VAL:N	2.08	0.67
2:CB:194:PRO:O	2:CB:196:LEU:N	2.28	0.67
3:CC:153:VAL:HG22	3:CC:198:VAL:HG12	1.77	0.67
11:CK:111:ASP:OD2	18:CR:84:LYS:HE2	1.94	0.67
12:CL:6:THR:HG23	12:CL:9:GLN:NE2	2.09	0.67
13:CM:57:ARG:HH12	29:D4:34:GLU:HA	1.59	0.67
28:D3:43:ILE:O	28:D3:47:VAL:HG23	1.94	0.67
35:DA:654(S):G:H2'	35:DA:654(T):C:C5	2.29	0.67
39:DE:101:ARG:HB2	39:DE:201:THR:HG21	1.76	0.67
43:DI:102:SER:O	43:DI:106:GLY:HA2	1.93	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:DI:58:LEU:HD23	43:DI:59:ALA:N	2.10	0.67
51:DS:95:HIS:CG	51:DS:96:GLY:H	2.13	0.67
35:DA:2849:U:O4	52:DT:23:ARG:NH2	2.27	0.67
1:AA:750:G:N3	15:AO:23:GLY:HA3	2.09	0.67
1:AA:1240:U:OP2	7:AG:116:ALA:HB2	1.94	0.67
7:AG:73:MET:HG2	7:AG:90:GLU:HA	1.77	0.67
12:AL:6:THR:HG23	12:AL:9:GLN:NE2	2.10	0.67
23:AX:19:U:H3'	23:AX:20:A:H8	1.60	0.67
28:B3:8:LEU:CD1	28:B3:31:LEU:HD23	2.20	0.67
24:AY:243:ASN:HB3	35:BA:2507:C:O4'	1.95	0.67
35:BA:2682:U:H6	35:BA:2682:U:H5'	1.59	0.67
38:BD:210:GLY:O	38:BD:211:ARG:HB3	1.94	0.67
40:BF:21:ALA:C	40:BF:23:ASP:H	1.97	0.67
1:CA:473:G:H4'	16:CP:81:ARG:NH2	2.09	0.67
1:CA:59:A:H5''	1:CA:60:A:H5''	1.77	0.67
3:CC:180:ALA:HB1	3:CC:203:PHE:CE1	2.30	0.67
4:CD:127:THR:HG23	4:CD:147:ALA:HB3	1.76	0.67
7:CG:73:MET:HG2	7:CG:90:GLU:HA	1.76	0.67
35:DA:1568:G:H5''	38:DD:61:LEU:CD2	2.23	0.67
35:DA:2182:G:H2'	35:DA:2183:C:H6	1.60	0.67
35:DA:2668:G:O2'	35:DA:2669:G:H5'	1.93	0.67
35:DA:673:C:C6	35:DA:673:C:H5'	2.25	0.67
46:DN:46:VAL:O	46:DN:47:ALA:HB3	1.93	0.67
1:AA:1356:G:H2'	1:AA:1357:A:C8	2.29	0.67
1:AA:930:C:O2'	1:AA:931:C:H5'	1.94	0.67
3:AC:123:GLN:O	3:AC:128:PHE:HB2	1.94	0.67
5:AE:40:ARG:HH11	5:AE:40:ARG:HG2	1.58	0.67
6:AF:16:GLN:CD	6:AF:16:GLN:H	1.97	0.67
10:AJ:75:ILE:HG13	10:AJ:76:ASN:H	1.59	0.67
22:AV:41:C:C3'	22:AV:42:C:H5''	2.25	0.67
25:B0:70:GLN:HE21	25:B0:80:HIS:HE2	1.42	0.67
42:BH:41:MET:HE3	42:BH:42:ARG:N	2.10	0.67
2:CB:17:PHE:CD1	2:CB:44:LEU:HD11	2.30	0.67
3:CC:175:LEU:HD21	3:CC:201:TYR:CE2	2.30	0.67
7:CG:146:GLU:HG2	7:CG:149:ARG:NH1	2.10	0.67
15:CO:78:TYR:O	15:CO:82:ILE:HG22	1.94	0.67
19:CS:6:LYS:CG	19:CS:7:LYS:HE3	2.22	0.67
35:DA:1718:G:H5'	35:DA:1718:G:H8	1.60	0.67
35:DA:2192:G:H2'	35:DA:2193:G:H5''	1.76	0.67
46:DN:47:ALA:HB2	46:DN:112:LEU:HD11	1.74	0.67
48:DP:50:ARG:HH21	48:DP:50:ARG:HG2	1.60	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
57:DY:10:GLY:HA2	57:DY:27:VAL:CG1	2.14	0.67
1:AA:1466:C:H2'	1:AA:1467:G:O4'	1.94	0.67
1:AA:979:C:H3'	1:AA:980:C:C5'	2.21	0.67
13:AM:125:ARG:HD2	24:AY:165:ASP:CB	2.24	0.67
35:BA:1484:G:H2'	35:BA:1485:G:C5'	2.18	0.67
35:BA:2154:G:H2'	35:BA:2155:G:O4'	1.95	0.67
41:BG:73:ALA:H	41:BG:87:PRO:HD2	1.58	0.67
58:BZ:156:LYS:O	58:BZ:158:PRO:HD3	1.93	0.67
10:CJ:56:HIS:O	10:CJ:58:ASP:N	2.27	0.67
22:CW:38:A:C2'	22:CW:39:U:H5''	2.25	0.67
37:DC:7:ARG:NH1	37:DC:11:LEU:HD11	2.10	0.67
42:DH:154:PRO:HB3	42:DH:163:TYR:CZ	2.30	0.67
43:DI:91:SER:O	43:DI:92:VAL:HG12	1.93	0.67
50:DR:101:ALA:O	50:DR:102:GLU:HB2	1.94	0.67
57:DY:61:ILE:HD12	57:DY:62:GLU:N	2.09	0.67
1:AA:1158:C:H2'	1:AA:1158:C:O2	1.95	0.67
1:AA:143:A:H2	1:AA:220:G:H1	1.43	0.67
1:AA:359:U:H2'	1:AA:360:A:H8	1.60	0.67
5:AE:76:ILE:HG13	5:AE:142:LEU:HD13	1.77	0.67
7:AG:120:ILE:HD12	7:AG:120:ILE:H	1.60	0.67
11:AK:111:ASP:OD2	18:AR:84:LYS:HE2	1.95	0.67
24:AY:188:ARG:CB	24:AY:310:GLN:HG2	2.24	0.67
37:BC:7:ARG:NH1	37:BC:11:LEU:HD11	2.09	0.67
48:BP:83:VAL:H	48:BP:115:LEU:HD21	1.58	0.67
48:BP:71:VAL:HG13	48:BP:72:PRO:HD3	1.77	0.67
57:BY:27:VAL:HG12	57:BY:29:GLU:OE1	1.95	0.67
58:BZ:155:LEU:O	58:BZ:157:LEU:HD12	1.95	0.67
8:CH:97:VAL:HG21	8:CH:128:GLY:HA2	1.77	0.67
20:CT:48:LYS:O	20:CT:52:ALA:HB2	1.95	0.67
35:DA:1464:C:HO2'	35:DA:1528:A:H8	0.76	0.67
44:DJ:27:UNK:O	44:DJ:84:UNK:HA	1.95	0.67
1:AA:1054:C:O2'	1:AA:1055:A:H5'	1.94	0.66
1:AA:1388:C:H2'	1:AA:1389:C:C6	2.30	0.66
18:AR:36:ASN:HB3	18:AR:39:VAL:CG2	2.24	0.66
18:AR:36:ASN:HB3	18:AR:39:VAL:HG21	1.74	0.66
22:AW:57:G:O2'	22:AW:58:A:H5'	1.95	0.66
27:B2:47:ASN:ND2	35:BA:94(A):G:H21	1.91	0.66
35:BA:1038:C:C2'	35:BA:1039:G:H5''	2.24	0.66
35:BA:2192:G:C2'	35:BA:2193:G:H5''	2.24	0.66
35:BA:2474:C:H5'	35:BA:2475:C:OP2	1.95	0.66
35:BA:2712:U:O2	35:BA:2712:U:H5'	1.95	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
51:BS:52:SER:HB3	51:BS:55:ALA:HB3	1.76	0.66
51:BS:58:LEU:HD23	51:BS:65:VAL:HG13	1.77	0.66
57:BY:96:ILE:HG22	57:BY:97:ARG:N	2.08	0.66
1:CA:1442(B):A:C8	52:DT:118:ARG:HD3	2.30	0.66
1:CA:444:C:H2'	1:CA:445:G:H8	1.57	0.66
1:CA:473:G:C4'	16:CP:81:ARG:HH21	2.08	0.66
1:CA:475:G:H2'	1:CA:476:G:H8	1.60	0.66
1:CA:942:G:H21	9:CI:124:GLN:NE2	1.91	0.66
7:CG:113:GLU:HG2	7:CG:119:ARG:HG2	1.76	0.66
1:CA:750:G:N3	15:CO:23:GLY:HA3	2.09	0.66
24:CY:118:LEU:HD11	24:CY:180:LEU:HD22	1.77	0.66
35:DA:1747(A):G:H2'	35:DA:1748:G:C5'	2.12	0.66
35:DA:2474:C:H5'	35:DA:2475:C:OP2	1.95	0.66
35:DA:2656:U:H2'	35:DA:2657:A:H5''	1.77	0.66
35:DA:272(G):C:C3'	35:DA:272(H):C:H5''	2.25	0.66
40:DF:178:PRO:HG2	40:DF:179:GLU:OE1	1.95	0.66
40:DF:8:GLN:HG2	40:DF:126:VAL:HG12	1.76	0.66
45:DK:119:ASP:OD2	45:DK:122:ALA:HB3	1.95	0.66
47:DO:49:ARG:HD3	47:DO:49:ARG:N	2.09	0.66
48:DP:58:THR:O	48:DP:58:THR:HG22	1.95	0.66
50:DR:33:ARG:HE	50:DR:115:GLU:HG3	1.59	0.66
52:DT:28:VAL:HG22	52:DT:47:GLY:N	2.10	0.66
56:DX:12:VAL:CB	56:DX:17:ALA:HB1	2.24	0.66
57:DY:7:VAL:HB	57:DY:8:LYS:CE	2.25	0.66
11:AK:21:ILE:HD13	11:AK:82:VAL:HG13	1.76	0.66
13:AM:16:ASP:OD2	13:AM:17:VAL:HG23	1.95	0.66
33:B8:49:VAL:O	33:B8:53:PRO:HG3	1.94	0.66
38:BD:24:ILE:HG23	38:BD:25:THR:N	2.04	0.66
35:BA:615:G:OP2	40:BF:40:GLN:HG2	1.94	0.66
41:BG:47:LYS:HD3	41:BG:51:ARG:NH1	2.11	0.66
42:BH:97:ARG:HG3	42:BH:98:LEU:N	2.10	0.66
52:BT:67:SER:O	52:BT:68:TYR:HB2	1.95	0.66
58:BZ:102:LEU:HD11	58:BZ:124:ILE:HG12	1.76	0.66
1:CA:1261:A:C2	1:CA:1275:A:H1'	2.31	0.66
1:CA:1391:U:H2'	1:CA:1392:G:C8	2.31	0.66
1:CA:735:C:H2'	1:CA:736:C:C6	2.24	0.66
25:D0:11:ARG:CB	25:D0:11:ARG:HH11	2.05	0.66
27:D2:16:LEU:O	27:D2:17:SER:HB3	1.96	0.66
35:DA:2666:C:H5''	35:DA:2667:C:H5	1.60	0.66
35:DA:654(C):G:C2'	35:DA:654(D):G:H5'	2.24	0.66
48:DP:62:LEU:H	48:DP:62:LEU:HD22	1.59	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
50:DR:11:ASN:OD1	50:DR:12:ARG:N	2.28	0.66
50:DR:10:LEU:HB3	50:DR:17:ARG:NE	2.10	0.66
49:DQ:130:LYS:HD3	58:DZ:80:ARG:HH12	1.60	0.66
1:AA:1321:C:H3'	1:AA:1322:C:H5''	1.76	0.66
8:AH:97:VAL:HG21	8:AH:128:GLY:HA2	1.75	0.66
10:AJ:4:ILE:HD12	10:AJ:4:ILE:N	2.10	0.66
12:AL:89:ARG:HH11	12:AL:89:ARG:HB2	1.61	0.66
13:AM:78:ILE:HG23	13:AM:92:HIS:ND1	2.10	0.66
22:AV:51:U:H2'	22:AV:52:G:C8	2.30	0.66
22:AW:35:A:H2'	22:AW:36:A:C8	2.30	0.66
22:AW:77:PHA:CD1	35:BA:2395:C:H4'	2.25	0.66
35:BA:2794:C:H42	35:BA:2801(A):A:H61	1.43	0.66
37:BC:49:GLY:HA2	37:BC:211:ARG:HH22	1.61	0.66
40:BF:28:ILE:HD13	40:BF:28:ILE:N	2.09	0.66
43:BI:109:ILE:HG23	43:BI:130:TYR:HE1	1.57	0.66
48:BP:47:ASP:HB3	48:BP:48:PRO:CA	2.24	0.66
53:BU:101:ARG:HH11	53:BU:101:ARG:CB	2.08	0.66
2:CB:211:ILE:O	2:CB:215:LEU:HD23	1.96	0.66
3:CC:73:PRO:HG2	3:CC:74:GLY:H	1.61	0.66
16:CP:45:THR:HG23	16:CP:46:PRO:HD2	1.76	0.66
24:CY:239:GLY:H	24:CY:242:VAL:CG1	2.08	0.66
32:D7:8:ASN:HD22	32:D7:11:LYS:H	1.39	0.66
35:DA:2115:G:H1'	35:DA:2117:A:N6	2.11	0.66
35:DA:548:A:H2'	35:DA:549:G:H5'	1.78	0.66
35:DA:7:G:H2'	35:DA:8:A:O4'	1.95	0.66
36:DB:20:C:H2'	36:DB:21:G:C5'	2.22	0.66
35:DA:2787:C:H1'	39:DE:61:ARG:HD3	1.76	0.66
40:DF:2:LYS:HD3	40:DF:25:PRO:CG	2.25	0.66
41:DG:166:ASP:HA	41:DG:169:ALA:HB3	1.76	0.66
42:DH:19:VAL:CG2	42:DH:44:VAL:HA	2.25	0.66
46:DN:17:ASP:HB2	46:DN:55:VAL:HG13	1.77	0.66
2:AB:107:THR:HA	2:AB:110:GLN:HE21	1.59	0.66
1:AA:939:G:H5''	7:AG:102:ARG:NH2	2.10	0.66
30:B5:11:THR:HG23	35:BA:1263:U:O3'	1.95	0.66
46:BN:17:ASP:HB2	46:BN:55:VAL:HG13	1.77	0.66
47:BO:97:ARG:HH11	47:BO:97:ARG:HG3	1.60	0.66
48:BP:71:VAL:CG1	48:BP:72:PRO:HD3	2.24	0.66
47:BO:77:ILE:HD11	52:BT:72:VAL:HG12	1.77	0.66
53:BU:88:ILE:HG22	54:BV:47:VAL:CG2	2.24	0.66
2:CB:187:LEU:HA	2:CB:201:ILE:HB	1.78	0.66
20:CT:89:ARG:HD2	20:CT:104:LEU:HD11	1.77	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:CY:119:THR:HG23	24:CY:166:TYR:CE1	2.31	0.66
24:CY:244:THR:HA	35:DA:2573:C:H42	1.59	0.66
40:DF:132:VAL:HG22	40:DF:133:ASN:ND2	2.11	0.66
52:DT:29:ARG:HG2	52:DT:85:LYS:CA	2.25	0.66
54:DV:2:PHE:HB3	54:DV:42:GLY:HA2	1.78	0.66
58:DZ:97:GLU:HG2	58:DZ:125:LEU:HD21	1.78	0.66
1:AA:383:A:C2'	1:AA:384:G:H5'	2.25	0.66
2:AB:187:LEU:HA	2:AB:201:ILE:HB	1.78	0.66
2:AB:22:LYS:HE2	2:AB:22:LYS:CA	2.25	0.66
2:AB:77:ALA:O	2:AB:81:VAL:HG23	1.95	0.66
6:AF:67:MET:HB2	6:AF:68:PRO:HD2	1.77	0.66
35:BA:1722:A:O2'	35:BA:1739:U:H5''	1.94	0.66
35:BA:2794:C:N4	35:BA:2801(A):A:H61	1.92	0.66
35:BA:2787:C:H1'	39:BE:61:ARG:HD3	1.78	0.66
41:BG:139:LEU:HA	41:BG:144:ILE:HG21	1.78	0.66
41:BG:161:THR:HG22	41:BG:162:THR:H	1.60	0.66
49:BQ:110:THR:HG23	49:BQ:113:GLN:OE1	1.96	0.66
50:BR:2:ARG:HB2	50:BR:5:LYS:HE2	1.78	0.66
55:BW:88:ARG:HB2	55:BW:92:ARG:HB2	1.76	0.66
1:CA:192:U:H4'	20:CT:103:GLY:N	2.10	0.66
2:CB:223:ILE:HA	2:CB:226:ARG:HB3	1.78	0.66
1:CA:8:A:N6	4:CD:209:ARG:HB2	2.10	0.66
35:DA:1280:G:C2'	35:DA:1281:G:H5''	2.25	0.66
35:DA:2315:G:H2'	35:DA:2316:C:C6	2.31	0.66
35:DA:2794:C:N4	35:DA:2801(A):A:H61	1.92	0.66
27:D2:3:LEU:HD12	35:DA:98:G:H5''	1.78	0.66
38:DD:118:VAL:HG22	38:DD:119:ALA:H	1.60	0.66
41:DG:119:GLY:H	41:DG:181:ARG:HH21	1.44	0.66
41:DG:41:GLN:HB3	41:DG:43:LEU:CD1	2.25	0.66
43:DI:110:ASP:HA	43:DI:112:LYS:HZ2	1.60	0.66
56:DX:12:VAL:HG13	56:DX:27:THR:O	1.95	0.66
57:DY:14:LEU:HD12	57:DY:15:VAL:H	1.59	0.66
1:AA:1259:C:H42	1:AA:1276:G:H1	1.44	0.66
1:AA:359:U:H2'	1:AA:360:A:C8	2.31	0.66
9:AI:118:LYS:O	9:AI:119:ALA:HB3	1.96	0.66
24:AY:267:SER:HB3	25:B0:3:HIS:CE1	2.30	0.66
25:B0:43:THR:O	25:B0:43:THR:HG23	1.96	0.66
35:BA:1142:U:H5''	35:BA:1142(A):A:H5''	1.77	0.66
35:BA:2313:C:H5'	35:BA:2313:C:H6	1.60	0.66
38:BD:165:ILE:HD13	38:BD:175:LEU:HD21	1.78	0.66
38:BD:24:ILE:HD13	38:BD:25:THR:N	2.11	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
54:BV:5:VAL:HG21	54:BV:35:LEU:HB3	1.78	0.66
54:BV:72:VAL:HB	54:BV:85:LYS:HB3	1.77	0.66
55:BW:46:PHE:O	55:BW:50:VAL:HG12	1.94	0.66
1:CA:1141:C:H2'	1:CA:1142:G:C8	2.30	0.66
1:CA:383:A:C2'	1:CA:384:G:H5'	2.25	0.66
10:CJ:26:ALA:HB3	10:CJ:85:LEU:HD21	1.78	0.66
13:CM:16:ASP:OD2	13:CM:17:VAL:HG23	1.96	0.66
27:D2:2:LYS:HD3	27:D2:2:LYS:O	1.95	0.66
33:D8:30:ARG:CZ	35:DA:2419:U:O4	2.44	0.66
35:DA:2154:G:H2'	35:DA:2155:G:O4'	1.95	0.66
35:DA:914:C:C2'	35:DA:915:C:H5'	2.26	0.66
40:DF:8:GLN:HB3	40:DF:126:VAL:HA	1.78	0.66
41:DG:33:ARG:H	41:DG:162:THR:HB	1.60	0.66
43:DI:82:ARG:HH11	43:DI:82:ARG:HB2	1.59	0.66
45:DK:27:LEU:HD23	45:DK:27:LEU:H	1.61	0.66
46:DN:120:LEU:C	46:DN:121:LYS:HD2	2.16	0.66
49:DQ:16:ARG:O	49:DQ:17:LEU:HD23	1.95	0.66
51:DS:106:ARG:HB3	51:DS:106:ARG:HH11	1.61	0.66
51:DS:58:LEU:HD21	51:DS:68:GLN:HB2	1.77	0.66
52:DT:29:ARG:HB3	52:DT:85:LYS:HA	1.75	0.66
56:DX:64:LYS:HD3	56:DX:73:ARG:NE	2.10	0.66
32:B7:4:THR:HG22	35:BA:687:C:H1'	1.77	0.66
38:BD:43:ARG:CB	38:BD:54:ARG:HB2	2.25	0.66
40:BF:2:LYS:HD3	40:BF:25:PRO:HG3	1.77	0.66
43:BI:92:VAL:CG2	43:BI:120:ILE:HD12	2.25	0.66
35:BA:833:U:H5''	48:BP:48:PRO:HB3	1.77	0.66
54:BV:62:LEU:HD21	54:BV:95:LEU:CB	2.24	0.66
35:BA:329:G:H1	57:BY:19:LYS:HE3	1.61	0.66
1:CA:620:C:H2'	1:CA:621:A:O4'	1.94	0.66
2:CB:14:GLY:O	2:CB:15:VAL:HG13	1.95	0.66
3:CC:89:GLU:O	3:CC:93:LYS:HB2	1.96	0.66
4:CD:121:VAL:HA	4:CD:126:ILE:HD13	1.78	0.66
13:CM:8:GLU:OE1	13:CM:22:ILE:HG13	1.95	0.66
28:D3:29:ARG:H	28:D3:33:GLN:NE2	1.93	0.66
38:DD:210:GLY:O	38:DD:211:ARG:HB3	1.94	0.66
40:DF:134:GLY:H	40:DF:162:LEU:HG	1.60	0.66
40:DF:24:LEU:O	40:DF:26:ALA:N	2.25	0.66
45:DK:131:ALA:HA	45:DK:136:VAL:HG23	1.78	0.66
1:AA:1391:U:H2'	1:AA:1392:G:C8	2.31	0.66
1:AA:32:A:H2'	1:AA:33:A:C8	2.31	0.66
1:AA:805:C:H2'	1:AA:806:C:H6	1.61	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1128:C:H5''	9:AI:16:ARG:HH12	1.61	0.66
9:AI:40:LEU:O	9:AI:42:ARG:N	2.28	0.66
13:AM:8:GLU:OE1	13:AM:22:ILE:HG13	1.96	0.66
24:AY:107:LEU:HD23	24:AY:107:LEU:O	1.94	0.66
28:B3:8:LEU:HD13	28:B3:31:LEU:HA	1.77	0.66
24:AY:240:GLN:HE21	35:BA:2506:U:H1'	1.61	0.66
38:BD:142:VAL:HG23	38:BD:192:THR:O	1.96	0.66
39:BE:24:THR:HG23	39:BE:184:VAL:HG23	1.77	0.66
40:BF:8:GLN:HB3	40:BF:126:VAL:HA	1.77	0.66
41:BG:101:ILE:CG2	41:BG:105:LYS:HD2	2.26	0.66
57:BY:8:LYS:HD3	57:BY:28:LYS:HZ3	1.61	0.66
1:CA:155:C:H2'	1:CA:156:G:C8	2.30	0.66
2:CB:107:THR:HA	2:CB:110:GLN:HE21	1.59	0.66
3:CC:43:LEU:O	3:CC:47:LEU:HB3	1.94	0.66
3:CC:92:ALA:HB2	3:CC:99:VAL:HG22	1.78	0.66
11:CK:21:ILE:HD13	11:CK:82:VAL:HG13	1.77	0.66
13:CM:78:ILE:HG23	13:CM:92:HIS:ND1	2.11	0.66
18:CR:36:ASN:HB3	18:CR:39:VAL:HG21	1.77	0.66
24:CY:240:GLN:HA	24:CY:243:ASN:ND2	2.11	0.66
35:DA:1062:G:H2'	35:DA:1063:G:C8	2.31	0.66
35:DA:792:G:H5''	35:DA:793:A:H5'	1.78	0.66
46:DN:58:ASP:C	46:DN:60:ILE:H	1.99	0.66
35:DA:833:U:H5''	48:DP:48:PRO:HB3	1.76	0.66
35:DA:1187:G:H5''	54:DV:81:TYR:CE2	2.30	0.66
57:DY:8:LYS:HE3	57:DY:74:PRO:HD3	1.76	0.66
1:AA:1479:C:H2'	1:AA:1480:G:H8	1.60	0.66
1:AA:475:G:H2'	1:AA:476:G:H8	1.61	0.66
3:AC:53:ALA:HB2	3:AC:115:LEU:HD21	1.76	0.66
10:AJ:56:HIS:O	10:AJ:58:ASP:N	2.28	0.66
13:AM:67:GLU:CD	13:AM:68:GLY:H	1.98	0.66
20:AT:50:GLU:HA	20:AT:100:ILE:HG22	1.77	0.66
22:AV:28:G:H1	22:AV:42:C:H42	1.43	0.66
24:AY:77:GLU:H	24:AY:84:ARG:HG3	1.60	0.66
35:BA:1114:G:C3'	35:BA:1115:G:H5''	2.24	0.66
35:BA:2115:G:H1'	35:BA:2117:A:N6	2.10	0.66
3:CC:59:ARG:HG2	3:CC:64:VAL:HA	1.78	0.66
9:CI:17:VAL:CG1	9:CI:81:ILE:HD13	2.26	0.66
1:CA:1317:C:OP1	14:CN:17:LYS:HG2	1.96	0.66
18:CR:36:ASN:HB3	18:CR:39:VAL:CG2	2.26	0.66
19:CS:49:ILE:HD12	19:CS:71:LEU:HD21	1.77	0.66
24:CY:118:LEU:HD23	24:CY:210:VAL:HG22	1.76	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:D6:45:LYS:CG	35:DA:2371:G:C4'	2.62	0.66
35:DA:142:A:H5'	35:DA:142(A):C:OP2	1.96	0.66
37:DC:49:GLY:HA2	37:DC:211:ARG:HH22	1.59	0.66
38:DD:268:ARG:HH11	38:DD:268:ARG:HB3	1.60	0.66
41:DG:113:ARG:HE	41:DG:113:ARG:CA	2.08	0.66
46:DN:1:MET:HG2	46:DN:2:LYS:H	1.59	0.66
57:DY:2:ARG:O	57:DY:4:LYS:HG3	1.96	0.66
8:AH:103:VAL:HG21	8:AH:110:ALA:HB2	1.78	0.66
19:AS:49:ILE:HD12	19:AS:71:LEU:HD21	1.78	0.66
22:AV:2:C:H2'	22:AV:3:C:H6	1.60	0.66
26:B1:67:ILE:N	26:B1:68:PRO:HD2	2.11	0.66
27:B2:2:LYS:CB	35:BA:97:C:H5''	2.26	0.66
35:BA:1658:C:OP1	39:BE:132:HIS:ND1	2.29	0.66
29:B4:33:VAL:HG13	41:BG:109:VAL:HG13	1.76	0.66
42:BH:19:VAL:CG2	42:BH:44:VAL:HA	2.26	0.66
44:BJ:23:UNK:O	44:BJ:88:UNK:HA	1.95	0.66
54:BV:6:LYS:HB3	54:BV:37:VAL:HG12	1.76	0.66
55:BW:82:LEU:HD23	55:BW:84:ARG:HH22	1.60	0.66
58:BZ:145:GLU:HB3	58:BZ:148:ASP:OD1	1.95	0.66
4:CD:17:VAL:HG12	4:CD:17:VAL:O	1.96	0.66
19:CS:6:LYS:HD2	19:CS:6:LYS:N	2.11	0.66
24:CY:19:ILE:O	24:CY:23:GLU:HB2	1.95	0.66
30:D5:40:LYS:NZ	30:D5:49:CYS:SG	2.61	0.66
35:DA:1947:C:C2'	35:DA:1948:G:H5''	2.26	0.66
35:DA:848:G:H2'	35:DA:849:A:C8	2.31	0.66
45:DK:10:LEU:HD23	45:DK:23:VAL:HG11	1.77	0.66
45:DK:79:ARG:HB2	45:DK:84:LEU:O	1.95	0.66
57:DY:62:GLU:HG2	57:DY:63:LYS:H	1.60	0.66
1:AA:1261:A:C2	1:AA:1275:A:H1'	2.32	0.65
2:AB:223:ILE:HA	2:AB:226:ARG:HB3	1.78	0.65
5:AE:55:VAL:O	5:AE:58:ALA:HB3	1.96	0.65
10:AJ:26:ALA:HB3	10:AJ:85:LEU:HD21	1.77	0.65
13:AM:124:PRO:HD2	24:AY:163:GLY:N	2.07	0.65
15:AO:78:TYR:O	15:AO:82:ILE:HG22	1.96	0.65
16:AP:48:TRP:O	16:AP:49:LEU:HB2	1.95	0.65
33:B8:52:LYS:N	33:B8:53:PRO:CD	2.57	0.65
35:BA:1062:G:H2'	35:BA:1063:G:C8	2.30	0.65
35:BA:207:A:H2'	35:BA:208:C:O4'	1.96	0.65
40:BF:89:VAL:HG12	40:BF:90:PHE:N	2.10	0.65
57:BY:2:ARG:C	57:BY:4:LYS:H	1.98	0.65
57:BY:62:GLU:HG2	57:BY:63:LYS:H	1.61	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:32:A:H2'	1:CA:33:A:C8	2.32	0.65
44:DJ:23:UNK:O	44:DJ:88:UNK:HA	1.96	0.65
53:DU:16:LYS:O	53:DU:20:LEU:HD23	1.96	0.65
19:AS:40:ILE:HG21	19:AS:62:ILE:HD11	1.78	0.65
30:B5:57:VAL:HG23	30:B5:58:LEU:H	1.60	0.65
33:B8:25:MET:HG3	48:BP:64:LYS:CB	2.12	0.65
38:BD:43:ARG:HB3	38:BD:54:ARG:CB	2.26	0.65
40:BF:63:LYS:CE	40:BF:67:GLN:HB2	2.26	0.65
43:BI:123:LEU:CD2	43:BI:142:VAL:HB	2.25	0.65
45:BK:53:VAL:O	45:BK:53:VAL:HG23	1.96	0.65
51:BS:30:ARG:NH2	51:BS:62:LYS:HD2	2.11	0.65
35:BA:2876:G:C4'	52:BT:3:ARG:HE	2.04	0.65
57:BY:7:VAL:HB	57:BY:8:LYS:CE	2.25	0.65
15:CO:48:LYS:HA	15:CO:48:LYS:HE2	1.77	0.65
23:CX:19:U:C2	24:CY:126:GLY:HA3	2.31	0.65
35:DA:1528(A):A:C3'	35:DA:1529:G:H5''	2.27	0.65
38:DD:182:LEU:O	38:DD:271:ILE:HG13	1.95	0.65
38:DD:34:VAL:C	38:DD:36:PRO:HD2	2.16	0.65
1:AA:537:G:H2'	1:AA:538:G:H8	1.62	0.65
6:AF:98:LEU:HG	18:AR:30:ASP:HB2	1.78	0.65
6:AF:97:PHE:HB2	18:AR:32:ARG:NH1	2.12	0.65
20:AT:89:ARG:NH2	20:AT:104:LEU:HD21	2.11	0.65
35:BA:1484:G:N2	35:BA:1505:C:H42	1.94	0.65
35:BA:1719:G:O2'	35:BA:1720:U:H5'	1.94	0.65
35:BA:1796:U:H2'	35:BA:1797:C:C6	2.31	0.65
46:BN:9:VAL:HG12	46:BN:10:GLU:N	2.11	0.65
52:BT:29:ARG:HG3	52:BT:30:VAL:HG13	1.78	0.65
54:BV:22:VAL:O	54:BV:23:GLU:HB2	1.95	0.65
55:BW:10:VAL:O	55:BW:11:ARG:HB2	1.96	0.65
1:CA:1277:C:H2'	1:CA:1278:U:H5'	1.77	0.65
1:CA:939:G:H5''	7:CG:102:ARG:NH2	2.11	0.65
12:CL:90:VAL:O	12:CL:92:ASP:N	2.29	0.65
13:CM:123:ALA:C	24:CY:162:ALA:HA	2.16	0.65
13:CM:23:TYR:O	13:CM:66:LEU:HA	1.95	0.65
24:CY:295:LEU:HD13	24:CY:299:ARG:HH21	1.59	0.65
27:D2:36:ARG:O	27:D2:40:SER:HB3	1.96	0.65
35:DA:1722:A:O2'	35:DA:1739:U:H5''	1.95	0.65
43:DI:6:LEU:HD12	43:DI:35:LEU:C	2.16	0.65
48:DP:47:ASP:HB3	48:DP:48:PRO:CA	2.26	0.65
1:CA:1442(B):A:H2'	52:DT:118:ARG:NH1	2.11	0.65
54:DV:19:LYS:HG3	54:DV:20:LEU:N	2.11	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
55:DW:36:LEU:HD11	55:DW:47:VAL:HG12	1.77	0.65
1:AA:1152:A:H2'	1:AA:1153:C:C6	2.31	0.65
1:AA:1379:G:O6	7:AG:2:ALA:HB3	1.96	0.65
1:AA:59:A:C5'	1:AA:60:A:H5''	2.26	0.65
1:AA:620:C:H2'	1:AA:621:A:O4'	1.97	0.65
2:AB:14:GLY:O	2:AB:15:VAL:HG13	1.95	0.65
2:AB:178:ARG:CB	2:AB:178:ARG:HH11	2.09	0.65
3:AC:153:VAL:HG22	3:AC:198:VAL:HG12	1.77	0.65
3:AC:52:LEU:HD23	3:AC:52:LEU:H	1.61	0.65
13:AM:125:ARG:HB2	24:AY:158:PRO:O	1.97	0.65
24:AY:77:GLU:HG2	24:AY:84:ARG:HG2	1.79	0.65
35:BA:118:A:H5'	35:BA:119:A:H8	1.62	0.65
35:BA:1948:G:C8	35:BA:1948:G:H5'	2.28	0.65
35:BA:271(A):A:H5'	35:BA:271(B):C:OP2	1.96	0.65
37:BC:8:TYR:CE1	37:BC:221:PRO:HB3	2.30	0.65
40:BF:63:LYS:HE3	40:BF:67:GLN:HB2	1.76	0.65
41:BG:19:LEU:HD11	41:BG:172:LEU:HB2	1.79	0.65
44:BJ:27:UNK:O	44:BJ:84:UNK:HA	1.96	0.65
45:BK:108:ALA:HB1	45:BK:120:LEU:HG	1.77	0.65
45:BK:79:ARG:HB2	45:BK:84:LEU:O	1.96	0.65
46:BN:9:VAL:HG12	46:BN:10:GLU:H	1.60	0.65
46:BN:46:VAL:O	46:BN:47:ALA:HB3	1.97	0.65
54:BV:6:LYS:HB3	54:BV:37:VAL:CG1	2.26	0.65
58:BZ:41:LEU:HD11	58:BZ:82:ARG:NH2	2.11	0.65
25:D0:4:LYS:HD3	35:DA:2252:G:O6	1.96	0.65
45:DK:21:PRO:HB2	45:DK:22:PRO:CD	2.26	0.65
53:DU:65:ILE:HD11	53:DU:93:LYS:HA	1.79	0.65
58:DZ:128:VAL:HG22	58:DZ:129:SER:N	2.11	0.65
1:AA:1317:C:OP1	14:AN:17:LYS:HG2	1.97	0.65
1:AA:59:A:H1'	1:AA:354:G:N2	2.12	0.65
1:AA:473:G:H4'	16:AP:81:ARG:NH2	2.08	0.65
1:AA:8:A:N6	4:AD:209:ARG:HB2	2.12	0.65
1:AA:973:G:H1'	10:AJ:55:LYS:HE2	1.79	0.65
15:AO:27:VAL:O	15:AO:31:LEU:HD23	1.96	0.65
22:AV:44:G:H2'	22:AV:45:U:H5'	1.78	0.65
28:B3:29:ARG:H	28:B3:33:GLN:HE22	1.43	0.65
35:BA:1301:A:O2'	35:BA:1302:A:C2'	2.41	0.65
35:BA:2653:U:H5''	35:BA:2654:A:H5''	1.77	0.65
35:BA:272(G):C:C3'	35:BA:272(H):C:H5''	2.25	0.65
37:BC:11:LEU:HD22	37:BC:33:LEU:HA	1.79	0.65
40:BF:134:GLY:H	40:BF:162:LEU:HG	1.62	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:BH:136:ILE:HD12	42:BH:136:ILE:H	1.62	0.65
54:BV:19:LYS:HE2	54:BV:19:LYS:HA	1.77	0.65
56:BX:64:LYS:HD3	56:BX:73:ARG:NE	2.12	0.65
57:BY:2:ARG:O	57:BY:4:LYS:HG3	1.96	0.65
57:BY:28:LYS:HB3	57:BY:37:VAL:HB	1.79	0.65
57:BY:8:LYS:HE3	57:BY:74:PRO:HD3	1.78	0.65
1:CA:1079:G:H2'	1:CA:1080:A:C8	2.32	0.65
19:CS:40:ILE:HG21	19:CS:62:ILE:HD11	1.79	0.65
33:D8:4:MET:CB	33:D8:61:LEU:HD13	2.26	0.65
35:DA:1114:G:C3'	35:DA:1115:G:H5''	2.24	0.65
40:DF:25:PRO:HB3	40:DF:119:ARG:HB2	1.79	0.65
41:DG:115:ARG:CG	41:DG:116:ASP:N	2.56	0.65
41:DG:64:THR:HG23	41:DG:66:GLN:N	2.05	0.65
52:DT:28:VAL:HG11	52:DT:46:GLU:OE2	1.96	0.65
1:AA:1205:U:H1'	3:AC:195:VAL:HG21	1.79	0.65
1:AA:1227:A:OP2	13:AM:111:LYS:HE2	1.96	0.65
24:AY:214:VAL:HG13	24:AY:215:ASP:N	2.11	0.65
27:B2:13:ALA:C	27:B2:15:LYS:H	2.00	0.65
40:BF:67:GLN:O	40:BF:68:LYS:HB2	1.95	0.65
50:BR:28:LEU:HD12	50:BR:44:LEU:HD11	1.79	0.65
1:CA:1205:U:H1'	3:CC:195:VAL:HG21	1.77	0.65
1:CA:1260:C:OP1	1:CA:1284:C:H4'	1.97	0.65
1:CA:805:C:H2'	1:CA:806:C:H6	1.62	0.65
20:CT:56:MET:HG3	20:CT:84:LEU:HD12	1.78	0.65
24:CY:129:ALA:HA	24:CY:204:SER:HB3	1.77	0.65
28:D3:29:ARG:H	28:D3:33:GLN:HE22	1.45	0.65
28:D3:8:LEU:CD1	28:D3:31:LEU:HD23	2.18	0.65
28:D3:59:VAL:HG12	28:D3:60:GLU:N	2.12	0.65
31:D6:46:HIS:C	31:D6:47:THR:CG2	2.62	0.65
35:DA:1528(A):A:H3'	35:DA:1529:G:H5''	1.79	0.65
35:DA:2112:G:N3	35:DA:2112:G:H2'	2.10	0.65
35:DA:89:G:H3'	35:DA:90:U:C5'	2.27	0.65
45:DK:115:LEU:HD13	45:DK:123:ALA:HB1	1.77	0.65
50:DR:9:LYS:O	50:DR:10:LEU:HD23	1.96	0.65
1:AA:262:A:H2'	1:AA:263:A:C8	2.30	0.65
2:AB:211:ILE:O	2:AB:215:LEU:HD23	1.97	0.65
5:AE:93:PRO:HG2	8:AH:105:ARG:NH2	2.12	0.65
6:AF:3:ARG:HH11	6:AF:3:ARG:HG3	1.60	0.65
12:AL:115:LYS:O	12:AL:117:ARG:HG3	1.95	0.65
30:B5:32:PRO:HA	30:B5:38:ALA:O	1.96	0.65
35:BA:1280:G:C2'	35:BA:1281:G:H5''	2.26	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:89:G:H3'	35:BA:90:U:C5'	2.27	0.65
38:BD:133:LEU:HD23	38:BD:136:ILE:HD12	1.79	0.65
45:BK:131:ALA:HA	45:BK:136:VAL:HG23	1.78	0.65
48:BP:48:PRO:HG2	48:BP:49:ARG:H	1.62	0.65
48:BP:62:LEU:HD23	48:BP:62:LEU:N	2.10	0.65
51:BS:58:LEU:HD21	51:BS:68:GLN:HB2	1.78	0.65
57:BY:14:LEU:HD12	57:BY:15:VAL:H	1.61	0.65
3:CC:52:LEU:H	3:CC:52:LEU:HD23	1.61	0.65
4:CD:43:HIS:O	4:CD:45:GLN:N	2.29	0.65
12:CL:115:LYS:O	12:CL:117:ARG:HG3	1.97	0.65
24:CY:218:VAL:HG23	24:CY:284:TYR:OH	1.97	0.65
24:CY:81:ALA:HB3	24:CY:84:ARG:HE	1.62	0.65
31:D6:48:VAL:CG2	31:D6:49:HIS:N	2.52	0.65
35:DA:404:C:H4'	35:DA:405:U:C5'	2.27	0.65
53:DU:101:ARG:HH11	53:DU:101:ARG:CB	2.09	0.65
55:DW:18:ARG:HG2	55:DW:76:VAL:CG1	2.26	0.65
1:AA:1071:C:H2'	1:AA:1072:G:H8	1.62	0.65
3:AC:59:ARG:HG2	3:AC:64:VAL:HA	1.78	0.65
7:AG:12:LEU:HD13	7:AG:25:ALA:HB2	1.78	0.65
17:AQ:27:PHE:CE1	17:AQ:36:ILE:HD11	2.31	0.65
20:AT:56:MET:HG3	20:AT:84:LEU:HD12	1.78	0.65
33:B8:30:ARG:O	33:B8:30:ARG:HD3	1.97	0.65
35:BA:548:A:H2'	35:BA:549:G:H5'	1.79	0.65
46:BN:58:ASP:C	46:BN:60:ILE:H	1.99	0.65
49:BQ:16:ARG:CB	49:BQ:18:LYS:HZ3	2.07	0.65
56:BX:8:ILE:HD12	56:BX:8:ILE:N	2.11	0.65
1:CA:1016:A:H2'	1:CA:1017:G:O4'	1.97	0.65
1:CA:1152:A:H2'	1:CA:1153:C:C6	2.32	0.65
1:CA:1249:C:H6	1:CA:1249:C:H5'	1.61	0.65
1:CA:1468:A:H2'	1:CA:1469:G:O4'	1.97	0.65
1:CA:272:C:H2'	1:CA:273:A:H8	1.62	0.65
1:CA:736:C:H2'	1:CA:737:A:H8	1.62	0.65
2:CB:21:ARG:HB3	2:CB:39:ILE:HG23	1.79	0.65
5:CE:101:ILE:N	5:CE:101:ILE:HD13	2.11	0.65
5:CE:40:ARG:HH11	5:CE:40:ARG:HG2	1.61	0.65
7:CG:12:LEU:HD13	7:CG:25:ALA:HB2	1.78	0.65
6:CF:97:PHE:HB2	18:CR:32:ARG:NH1	2.11	0.65
19:CS:24:ALA:O	19:CS:25:LYS:HB2	1.95	0.65
24:CY:150:GLN:NE2	24:CY:172:LYS:NZ	2.43	0.65
30:D5:32:PRO:HA	30:D5:38:ALA:O	1.97	0.65
35:DA:118:A:H5'	35:DA:119:A:H8	1.62	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:27:G:H22	35:DA:512:G:H2'	1.62	0.65
35:DA:672:C:H2'	35:DA:673:C:C5'	2.27	0.65
39:DE:108:SER:HB3	39:DE:165:VAL:HG21	1.78	0.65
47:DO:24:VAL:HB	47:DO:33:ALA:HB2	1.79	0.65
47:DO:97:ARG:HG3	47:DO:97:ARG:HH11	1.60	0.65
51:DS:17:ARG:HH21	51:DS:90:GLY:H	1.44	0.65
54:DV:22:VAL:O	54:DV:23:GLU:CB	2.45	0.65
54:DV:5:VAL:HG21	54:DV:35:LEU:HB3	1.78	0.65
1:AA:1249:C:H5'	1:AA:1249:C:H6	1.61	0.65
7:AG:78:ARG:HG2	7:AG:79:ARG:H	1.62	0.65
8:AH:83:ILE:HD13	8:AH:137:VAL:HG13	1.79	0.65
9:AI:113:LYS:N	9:AI:113:LYS:HD2	2.12	0.65
35:BA:1528(A):A:C3'	35:BA:1529:G:H5''	2.27	0.65
35:BA:2317:C:O2'	35:BA:2318:G:H5'	1.96	0.65
35:BA:848:G:H2'	35:BA:849:A:C8	2.31	0.65
43:BI:120:ILE:HG12	43:BI:126:TYR:CE2	2.32	0.65
53:BU:95:LEU:HD12	54:BV:11:GLN:HE21	1.61	0.65
55:BW:18:ARG:HG2	55:BW:76:VAL:CG1	2.27	0.65
1:CA:1030(B):C:H2'	1:CA:1030(C):G:H5'	1.79	0.65
1:CA:1127:G:H21	1:CA:1147:C:H41	1.45	0.65
1:CA:716:A:N3	11:CK:118:GLY:HA2	2.12	0.65
5:CE:105:VAL:H	5:CE:106:PRO:HD2	1.62	0.65
5:CE:110:LEU:O	5:CE:115:VAL:HB	1.97	0.65
10:CJ:33:GLN:H	10:CJ:75:ILE:HD11	1.62	0.65
16:CP:51:VAL:HG11	16:CP:74:LEU:CD2	2.27	0.65
20:CT:50:GLU:HA	20:CT:100:ILE:HG22	1.77	0.65
24:CY:246:ASP:HB2	35:DA:2493:U:H5'	1.79	0.65
24:CY:256:THR:HG22	24:CY:258:ILE:HG13	1.79	0.65
28:D3:8:LEU:HD13	28:D3:31:LEU:HA	1.79	0.65
35:DA:1845:G:H2'	35:DA:1846:G:C5'	2.14	0.65
35:DA:329:G:H1	57:DY:19:LYS:HE3	1.61	0.65
35:DA:720:C:H2'	35:DA:721:C:H6	1.60	0.65
38:DD:118:VAL:HG22	38:DD:119:ALA:N	2.12	0.65
38:DD:133:LEU:HD23	38:DD:136:ILE:HD12	1.78	0.65
41:DG:131:TYR:O	41:DG:159:VAL:HG22	1.96	0.65
41:DG:171:ALA:O	41:DG:175:LEU:HG	1.97	0.65
41:DG:39:ILE:C	41:DG:39:ILE:HD12	2.17	0.65
57:DY:46:LYS:H	57:DY:62:GLU:HB2	1.62	0.65
1:AA:1435:G:H2'	1:AA:1436:U:C6	2.32	0.65
1:AA:963:G:H21	10:AJ:55:LYS:HZ2	1.45	0.65
3:AC:89:GLU:O	3:AC:93:LYS:HB2	1.95	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AD:117:ALA:O	4:AD:121:VAL:HG23	1.97	0.65
9:AI:17:VAL:CG1	9:AI:81:ILE:HD13	2.26	0.65
1:AA:1152:A:H5''	10:AJ:13:HIS:CD2	2.31	0.65
1:AA:1325:C:H5'	21:AU:15:ARG:HE	1.63	0.65
32:B7:24:THR:HG23	32:B7:27:GLY:HA3	1.79	0.65
39:BE:75:VAL:C	39:BE:77:ILE:H	1.98	0.65
42:BH:121:ILE:CD1	42:BH:144:VAL:HG21	2.27	0.65
58:BZ:158:PRO:O	58:BZ:161:VAL:HG23	1.97	0.65
1:CA:143:A:H2	1:CA:220:G:H1	1.44	0.65
1:CA:137:C:N4	1:CA:226:G:H1	1.91	0.65
2:CB:18:GLY:H	2:CB:42:ILE:HG22	1.61	0.65
9:CI:113:LYS:N	9:CI:113:LYS:HD2	2.12	0.65
12:CL:25:PRO:C	12:CL:27:LEU:N	2.50	0.65
22:CW:63:G:C2'	22:CW:64:A:H5'	2.26	0.65
24:CY:184:ALA:HA	24:CY:208:VAL:O	1.98	0.65
27:D2:2:LYS:HB3	35:DA:97:C:H5''	1.78	0.65
35:DA:1484:G:N2	35:DA:1505:C:H42	1.95	0.65
35:DA:184:C:H2'	35:DA:185:U:C6	2.32	0.65
35:DA:2651:C:O2'	35:DA:2652:C:H5'	1.96	0.65
38:DD:241:PRO:O	38:DD:243:GLY:N	2.30	0.65
39:DE:2:LYS:HD2	39:DE:95:ILE:CG2	2.27	0.65
41:DG:119:GLY:N	41:DG:181:ARG:HE	1.95	0.65
45:DK:108:ALA:HB1	45:DK:120:LEU:HG	1.78	0.65
45:DK:98:ARG:NH2	45:DK:139:VAL:HG22	2.12	0.65
33:D8:25:MET:O	48:DP:62:LEU:HD21	1.97	0.65
50:DR:28:LEU:HD12	50:DR:44:LEU:HD11	1.79	0.65
1:AA:1456:G:H2'	1:AA:1457:G:H5'	1.79	0.64
1:AA:1471:G:H2'	1:AA:1472:U:C6	2.33	0.64
1:AA:155:C:H2'	1:AA:156:G:C8	2.32	0.64
1:AA:191:G:H1'	20:AT:105:SER:HB3	1.79	0.64
1:AA:834:C:H2'	1:AA:835:U:C6	2.32	0.64
2:AB:136:VAL:O	2:AB:140:HIS:HB2	1.98	0.64
4:AD:92:VAL:O	4:AD:96:LEU:HD13	1.97	0.64
21:AU:2:GLY:O	21:AU:4:GLY:N	2.31	0.64
22:AW:18:G:N2	22:AW:55:U:H6	1.94	0.64
22:AW:39:U:C2'	22:AW:40:C:H5''	2.21	0.64
24:AY:214:VAL:HG22	24:AY:215:ASP:N	2.11	0.64
30:B5:52:TYR:O	30:B5:54:GLY:N	2.29	0.64
42:BH:43:VAL:HA	42:BH:46:GLU:OE2	1.96	0.64
48:BP:105:LEU:H	48:BP:105:LEU:HD12	1.62	0.64
49:BQ:27:VAL:HG23	49:BQ:137:TYR:CD1	2.31	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
50:BR:47:PHE:O	50:BR:51:LEU:HD13	1.97	0.64
50:BR:55:ALA:HB2	50:BR:79:LEU:HD13	1.78	0.64
1:CA:59:A:H1'	1:CA:354:G:N2	2.11	0.64
1:CA:757:U:H2'	1:CA:758:G:O4'	1.97	0.64
1:CA:834:C:H2'	1:CA:835:U:C6	2.32	0.64
3:CC:54:ARG:NH1	3:CC:56:ASP:HB2	2.12	0.64
6:CF:98:LEU:HG	18:CR:30:ASP:HB2	1.79	0.64
8:CH:83:ILE:HD13	8:CH:137:VAL:HG13	1.79	0.64
16:CP:18:ARG:HD3	16:CP:35:LYS:HE3	1.79	0.64
30:D5:52:TYR:O	30:D5:54:GLY:N	2.29	0.64
35:DA:1542:A:C8	35:DA:1542:A:H3'	2.32	0.64
38:DD:24:ILE:HG23	38:DD:25:THR:N	2.10	0.64
42:DH:49:VAL:HG23	42:DH:50:VAL:N	2.11	0.64
45:DK:78:ILE:HG23	45:DK:99:ILE:CD1	2.27	0.64
40:DF:117:ARG:NH2	48:DP:5:ASP:N	2.45	0.64
1:AA:1288:A:N1	1:AA:1371:G:H1'	2.13	0.64
1:AA:403:C:H2'	1:AA:404:U:H6	1.61	0.64
1:AA:59:A:H5''	1:AA:60:A:H5''	1.79	0.64
2:AB:17:PHE:CD1	2:AB:44:LEU:HD11	2.31	0.64
4:AD:121:VAL:HA	4:AD:126:ILE:HD13	1.78	0.64
4:AD:129:ASN:H	4:AD:129:ASN:ND2	1.93	0.64
5:AE:102:ALA:HB1	5:AE:106:PRO:CG	2.23	0.64
16:AP:72:ARG:HH21	16:AP:73:LEU:HD21	1.62	0.64
38:BD:49:ILE:HD11	38:BD:52:ARG:HA	1.79	0.64
39:BE:34:VAL:HG13	39:BE:48:GLN:HE21	1.63	0.64
41:BG:5:VAL:HG12	41:BG:6:ALA:N	2.12	0.64
45:BK:38:VAL:HG23	45:BK:39:LYS:N	2.12	0.64
49:BQ:14:ARG:HG2	49:BQ:41:TRP:HH2	1.61	0.64
57:BY:46:LYS:H	57:BY:62:GLU:HB2	1.60	0.64
58:BZ:127:LYS:HE2	58:BZ:164:ALA:HB2	1.79	0.64
1:CA:1312:G:H1	1:CA:1325:C:H42	1.44	0.64
1:CA:123:C:OP1	1:CA:312:C:H5'	1.98	0.64
1:CA:491:G:H2'	1:CA:492:G:C8	2.31	0.64
2:CB:136:VAL:O	2:CB:140:HIS:HB2	1.97	0.64
3:CC:54:ARG:HH12	3:CC:56:ASP:HB2	1.63	0.64
6:CF:60:PHE:C	6:CF:61:LEU:HD12	2.17	0.64
10:CJ:23:ILE:HG23	10:CJ:85:LEU:HD13	1.79	0.64
13:CM:115:LYS:O	13:CM:117:VAL:N	2.30	0.64
15:CO:37:ASN:N	15:CO:37:ASN:HD22	1.94	0.64
21:CU:2:GLY:O	21:CU:4:GLY:N	2.28	0.64
24:CY:81:ALA:HB1	24:CY:84:ARG:NH2	2.10	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:D2:64:LEU:HD21	27:D2:68:ARG:HH11	1.60	0.64
31:D6:26:ASN:HD22	31:D6:32:ASN:CG	2.00	0.64
35:DA:1316:U:O2'	35:DA:1317:A:H5'	1.97	0.64
35:DA:2150:U:H2'	35:DA:2151:G:C8	2.32	0.64
35:DA:2523:G:H2'	35:DA:2524:G:C5'	2.24	0.64
46:DN:133:GLN:HG2	46:DN:135:PRO:HD3	1.79	0.64
55:DW:82:LEU:HD23	55:DW:84:ARG:HH22	1.62	0.64
57:DY:28:LYS:HG2	57:DY:39:VAL:HG22	1.77	0.64
57:DY:31:LEU:HD23	57:DY:36:ALA:O	1.96	0.64
1:AA:1062:U:H2'	1:AA:1063:C:C6	2.33	0.64
1:AA:950:U:H2'	1:AA:951:G:H8	1.63	0.64
5:AE:137:GLU:HG3	5:AE:141:GLN:NE2	2.12	0.64
1:AA:473:G:C4'	16:AP:81:ARG:HH21	2.07	0.64
22:AW:50:U:H4'	22:AW:65:G:H22	1.60	0.64
35:BA:1187:G:H5''	54:BV:81:TYR:CE2	2.33	0.64
24:AY:240:GLN:NE2	35:BA:2506:U:H1'	2.12	0.64
35:BA:2653:U:H5'	35:BA:2654:A:H5''	1.78	0.64
35:BA:2884:U:H2'	35:BA:2885:C:H5'	1.77	0.64
43:BI:62:LYS:NZ	43:BI:134:PRO:HG2	2.12	0.64
43:BI:78:THR:HA	43:BI:141:LYS:O	1.98	0.64
51:BS:106:ARG:HB3	51:BS:106:ARG:HH11	1.61	0.64
54:BV:49:THR:HG22	54:BV:50:PRO:HD3	1.78	0.64
1:CA:186:C:H2'	1:CA:187:C:H6	1.62	0.64
6:CF:14:LEU:HB3	6:CF:18:GLN:HE21	1.63	0.64
1:CA:1372:U:H5''	9:CI:71:SER:HB3	1.79	0.64
1:CA:973:G:H1'	10:CJ:55:LYS:HE2	1.80	0.64
1:CA:617:G:H4'	16:CP:44:THR:O	1.96	0.64
24:CY:115:ASN:HB3	24:CY:172:LYS:HA	1.78	0.64
35:DA:2360:A:O2'	35:DA:2361:A:P	2.56	0.64
35:DA:2653:U:H5''	35:DA:2654:A:H5''	1.78	0.64
35:DA:426:C:O2'	35:DA:427:U:H5'	1.98	0.64
41:DG:61:ALA:HA	41:DG:64:THR:HG22	1.78	0.64
43:DI:115:ALA:HB2	43:DI:129:THR:HB	1.78	0.64
45:DK:20:ALA:H	45:DK:21:PRO:CD	2.10	0.64
48:DP:13:ASN:C	48:DP:13:ASN:HD22	2.00	0.64
51:DS:107:GLU:O	51:DS:109:GLY:N	2.29	0.64
1:AA:254:G:OP1	17:AQ:67:LYS:O	2.15	0.64
35:BA:2150:U:H2'	35:BA:2151:G:C8	2.32	0.64
38:BD:268:ARG:HB3	38:BD:268:ARG:HH11	1.61	0.64
40:BF:25:PRO:HB3	40:BF:119:ARG:HB2	1.79	0.64
41:BG:131:TYR:H	41:BG:159:VAL:CG1	2.09	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:BH:13:LYS:HA	42:BH:13:LYS:CE	2.18	0.64
43:BI:133:HIS:O	43:BI:135:GLU:N	2.31	0.64
47:BO:90:GLN:O	47:BO:91:LEU:HB2	1.97	0.64
48:BP:83:VAL:H	48:BP:115:LEU:CD2	2.10	0.64
53:BU:117:GLN:NE2	53:BU:117:GLN:HA	2.12	0.64
58:BZ:10:ARG:HH21	58:BZ:26:GLY:H	1.44	0.64
1:CA:1062:U:H2'	1:CA:1063:C:C6	2.33	0.64
3:CC:9:GLY:HA2	3:CC:12:LEU:HG	1.79	0.64
4:CD:175:SER:HB3	4:CD:186:LEU:HD11	1.77	0.64
4:CD:92:VAL:O	4:CD:96:LEU:HD13	1.97	0.64
5:CE:101:ILE:H	5:CE:101:ILE:HD13	1.62	0.64
10:CJ:50:ILE:N	10:CJ:50:ILE:HD13	2.07	0.64
11:CK:107:SER:C	11:CK:108:ILE:HD12	2.18	0.64
13:CM:67:GLU:CD	13:CM:68:GLY:H	2.00	0.64
16:CP:48:TRP:O	16:CP:49:LEU:HB2	1.98	0.64
18:CR:66:LEU:HG	18:CR:70:ILE:HD11	1.78	0.64
35:DA:1529:G:H21	35:DA:1530:C:H5''	1.62	0.64
35:DA:597:U:H4'	48:DP:15:ARG:HH11	1.63	0.64
37:DC:11:LEU:HD22	37:DC:33:LEU:HA	1.78	0.64
41:DG:178:PHE:HB3	41:DG:180:PHE:CE1	2.33	0.64
1:AA:1030(B):C:H2'	1:AA:1030(C):G:H5'	1.79	0.64
1:AA:1079:G:H2'	1:AA:1080:A:C8	2.33	0.64
3:AC:92:ALA:HB2	3:AC:99:VAL:HG22	1.78	0.64
8:AH:51:VAL:HG11	8:AH:60:ARG:HB2	1.79	0.64
29:B4:14:ILE:HD11	29:B4:24:THR:OG1	1.98	0.64
35:BA:1711:C:O2'	35:BA:1712:C:H5'	1.97	0.64
35:BA:1826:G:H4'	38:BD:242:ARG:NH2	2.07	0.64
35:BA:1947:C:C2'	35:BA:1948:G:H5''	2.28	0.64
35:BA:2656:U:H2'	35:BA:2657:A:H5''	1.80	0.64
35:BA:27:G:H22	35:BA:512:G:C2'	2.10	0.64
35:BA:674:G:H1'	40:BF:74:ARG:HD2	1.79	0.64
43:BI:96:ASP:O	43:BI:99:GLU:HB3	1.97	0.64
45:BK:27:LEU:HD23	45:BK:27:LEU:H	1.61	0.64
45:BK:7:VAL:HG12	45:BK:58:THR:HG23	1.80	0.64
48:BP:41:ARG:NH1	48:BP:45:LEU:HG	2.13	0.64
50:BR:9:LYS:O	50:BR:10:LEU:HD23	1.98	0.64
1:CA:539:A:OP2	12:CL:115:LYS:HE3	1.97	0.64
1:CA:723:U:H5''	1:CA:724:G:OP2	1.98	0.64
1:CA:853:G:H2'	1:CA:854:G:H8	1.63	0.64
7:CG:111:ARG:HB3	7:CG:113:GLU:OE2	1.97	0.64
24:CY:81:ALA:CB	24:CY:84:ARG:HE	2.11	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:D2:47:ASN:O	27:D2:49:LYS:N	2.30	0.64
35:DA:1348:G:H2'	35:DA:1349:A:C5'	2.25	0.64
35:DA:1947:C:H2'	35:DA:1948:G:H5''	1.78	0.64
38:DD:129:ASN:O	38:DD:193:VAL:HG12	1.97	0.64
39:DE:132:HIS:O	39:DE:135:HIS:NE2	2.30	0.64
43:DI:77:LEU:HD21	43:DI:100:ALA:HB1	1.80	0.64
47:DO:77:ILE:HD11	52:DT:72:VAL:HG12	1.77	0.64
54:DV:19:LYS:HE2	54:DV:19:LYS:HA	1.78	0.64
1:AA:114:U:H2'	1:AA:115:G:C8	2.33	0.64
1:AA:272:C:H2'	1:AA:273:A:H8	1.62	0.64
1:AA:539:A:H2'	1:AA:540:G:C8	2.33	0.64
1:AA:984:C:H2'	1:AA:985:C:C6	2.33	0.64
11:AK:27:ASN:OD1	11:AK:55:LYS:HB3	1.97	0.64
16:AP:51:VAL:HG11	16:AP:74:LEU:CD2	2.27	0.64
19:AS:24:ALA:O	19:AS:25:LYS:HB2	1.95	0.64
24:AY:41:ASP:HB3	24:AY:44:ALA:HB3	1.79	0.64
24:AY:59:VAL:O	24:AY:63:ARG:HG3	1.97	0.64
29:B4:11:PRO:O	29:B4:29:PRO:HG3	1.98	0.64
35:BA:1542:A:C8	35:BA:1542:A:H3'	2.33	0.64
35:BA:708:C:H5'	35:BA:709:U:OP2	1.97	0.64
43:BI:1:MET:CE	43:BI:23:PRO:HA	2.28	0.64
43:BI:42:SER:HA	43:BI:45:LYS:HE2	1.79	0.64
45:BK:98:ARG:NH2	45:BK:139:VAL:HG22	2.13	0.64
45:BK:78:ILE:HG23	45:BK:99:ILE:CD1	2.27	0.64
50:BR:101:ALA:O	50:BR:102:GLU:HB2	1.97	0.64
53:BU:92:ARG:NH1	53:BU:94:ASN:HD22	1.95	0.64
13:CM:19:LEU:HD22	13:CM:19:LEU:H	1.62	0.64
19:CS:64:GLU:HG3	19:CS:65:ASN:OD1	1.97	0.64
20:CT:30:LYS:HE3	20:CT:30:LYS:O	1.97	0.64
25:D0:18:ALA:HB3	25:D0:20:ARG:NH1	2.11	0.64
31:D6:12:GLU:HA	31:D6:23:THR:HA	1.80	0.64
35:DA:958:U:H5'	35:DA:958:U:H6	1.62	0.64
37:DC:225:ILE:O	37:DC:225:ILE:HD12	1.98	0.64
43:DI:35:LEU:HD23	43:DI:35:LEU:N	2.13	0.64
51:DS:58:LEU:HD23	51:DS:65:VAL:HG13	1.79	0.64
54:DV:47:VAL:HG12	54:DV:52:VAL:N	2.13	0.64
1:AA:1294:G:H2'	1:AA:1295:G:C8	2.33	0.64
1:AA:1325:C:H4'	21:AU:17:THR:HG21	1.80	0.64
1:AA:491:G:H2'	1:AA:492:G:C8	2.32	0.64
1:AA:723:U:H5''	1:AA:724:G:OP2	1.97	0.64
3:AC:52:LEU:HD23	3:AC:52:LEU:N	2.13	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:AM:115:LYS:O	13:AM:117:VAL:N	2.31	0.64
17:AQ:9:VAL:HG12	17:AQ:56:VAL:HG22	1.79	0.64
22:AW:49:C:H3'	22:AW:50:U:H6	1.63	0.64
24:AY:189:LEU:HD21	24:AY:191:ARG:HG3	1.78	0.64
27:B2:69:ARG:HH11	27:B2:69:ARG:HG3	1.62	0.64
35:BA:2103:C:H42	35:BA:2186:G:H1	1.46	0.64
35:BA:2876:G:H4'	52:BT:3:ARG:CD	2.27	0.64
35:BA:774:A:H2	35:BA:787:U:O2'	1.81	0.64
58:BZ:67:LEU:HD23	58:BZ:90:VAL:HG11	1.80	0.64
1:CA:1095:U:H2'	1:CA:1096:C:C6	2.33	0.64
1:CA:537:G:H2'	1:CA:538:G:C8	2.32	0.64
1:CA:961:U:O2'	1:CA:962:C:H5'	1.97	0.64
2:CB:172:ILE:CD1	2:CB:172:ILE:H	1.97	0.64
5:CE:93:PRO:HG2	8:CH:105:ARG:HH21	1.62	0.64
1:CA:1128:C:H5''	9:CI:16:ARG:HH12	1.61	0.64
16:CP:72:ARG:HH21	16:CP:73:LEU:HD21	1.62	0.64
24:CY:72:LEU:HD13	24:CY:91:LEU:HG	1.80	0.64
34:D9:9:ARG:HH11	34:D9:9:ARG:CB	2.10	0.64
35:DA:2833:G:C3'	35:DA:2834:G:C5'	2.75	0.64
38:DD:43:ARG:CB	38:DD:54:ARG:HB2	2.26	0.64
41:DG:28:VAL:O	41:DG:31:VAL:HG12	1.98	0.64
41:DG:72:ARG:HB3	41:DG:85:GLY:O	1.97	0.64
45:DK:138:VAL:HG13	45:DK:138:VAL:O	1.97	0.64
45:DK:38:VAL:HG23	45:DK:39:LYS:N	2.12	0.64
49:DQ:110:THR:HG23	49:DQ:113:GLN:OE1	1.98	0.64
49:DQ:14:ARG:HG2	49:DQ:41:TRP:HH2	1.63	0.64
1:AA:1128:C:H1'	1:AA:1146:A:N6	2.09	0.64
2:AB:21:ARG:HB3	2:AB:39:ILE:HG23	1.78	0.64
5:AE:101:ILE:N	5:AE:101:ILE:HD13	2.12	0.64
11:AK:110:ASP:O	18:AR:84:LYS:HD2	1.98	0.64
1:AA:136:C:H4'	16:AP:1:MET:HE2	1.80	0.64
19:AS:18:LYS:O	19:AS:21:GLU:HG2	1.98	0.64
24:AY:55:LEU:HA	24:AY:58:THR:OG1	1.96	0.64
26:B1:40:ARG:C	26:B1:40:ARG:HD3	2.16	0.64
26:B1:45:ASN:HD21	26:B1:47:GLN:HE21	1.37	0.64
35:BA:1165:U:H2'	35:BA:1166:C:C6	2.33	0.64
38:BD:165:ILE:HD13	38:BD:175:LEU:CD2	2.27	0.64
38:BD:24:ILE:CG2	38:BD:25:THR:H	2.05	0.64
38:BD:32:SER:O	38:BD:36:PRO:HD3	1.97	0.64
43:BI:125:GLU:OE1	43:BI:125:GLU:HA	1.96	0.64
45:BK:115:LEU:HD13	45:BK:123:ALA:HB1	1.78	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:BK:20:ALA:H	45:BK:21:PRO:CD	2.10	0.64
47:BO:93:PRO:HD3	47:BO:114:ILE:HD11	1.79	0.64
52:BT:89:VAL:HG12	52:BT:91:ARG:HG3	1.80	0.64
53:BU:90:VAL:HG13	54:BV:39:LEU:HD23	1.78	0.64
58:BZ:130:PRO:O	58:BZ:133:ILE:HG12	1.97	0.64
58:BZ:141:VAL:HG13	58:BZ:144:LEU:HD23	1.79	0.64
1:CA:1116:C:C3'	1:CA:1117:G:H5''	2.27	0.64
1:CA:1243:C:N4	1:CA:1294:G:H22	1.96	0.64
1:CA:359:U:H2'	1:CA:360:A:C8	2.33	0.64
1:CA:403:C:H2'	1:CA:404:U:H6	1.63	0.64
4:CD:129:ASN:ND2	4:CD:145:GLU:H	1.96	0.64
4:CD:28:SER:CB	4:CD:30:LYS:HE2	2.26	0.64
4:CD:28:SER:HB2	4:CD:30:LYS:HE2	1.78	0.64
10:CJ:75:ILE:HG13	10:CJ:76:ASN:N	2.13	0.64
35:DA:2739:U:O2'	35:DA:2740:A:H5'	1.98	0.64
35:DA:646:A:H2'	35:DA:647:G:O4'	1.98	0.64
35:DA:654(R):C:H2'	35:DA:654(S):G:N7	2.13	0.64
40:DF:65:TRP:CZ3	40:DF:75:HIS:HD2	2.16	0.64
1:AA:1260:C:OP1	1:AA:1284:C:H4'	1.98	0.64
1:AA:834:C:H2'	1:AA:835:U:H6	1.63	0.64
3:AC:54:ARG:NH1	3:AC:56:ASP:HB2	2.13	0.64
3:AC:71:ALA:CB	3:AC:106:VAL:HB	2.28	0.64
1:AA:538:G:OP2	12:AL:115:LYS:HG3	1.98	0.64
24:AY:312:ARG:HH21	24:AY:344:LEU:HB2	1.62	0.64
24:AY:342:MET:O	24:AY:346:TRP:HD1	1.81	0.64
26:B1:40:ARG:O	26:B1:40:ARG:HD3	1.97	0.64
35:BA:1021:A:H62	35:BA:1141:U:H3	1.45	0.64
35:BA:2651:C:O2'	35:BA:2652:C:H5'	1.98	0.64
43:BI:31:LEU:H	43:BI:31:LEU:CD1	2.11	0.64
49:BQ:84:GLY:O	49:BQ:85:LYS:HB2	1.97	0.64
58:BZ:81:ARG:HG2	58:BZ:81:ARG:NH1	2.11	0.64
1:CA:1510:U:H2'	1:CA:1511:G:C8	2.33	0.64
1:CA:984:C:H2'	1:CA:985:C:C6	2.32	0.64
3:CC:6:HIS:CD2	3:CC:7:PRO:HD2	2.28	0.64
35:DA:1573:G:H2'	35:DA:1574:C:H5'	1.80	0.64
35:DA:2308:G:O6	35:DA:2310:A:H2'	1.98	0.64
35:DA:2659:G:C2	35:DA:2661:G:C8	2.86	0.64
39:DE:119:ARG:HG2	39:DE:160:TYR:HB2	1.80	0.64
40:DF:63:LYS:HE3	40:DF:67:GLN:HB2	1.80	0.64
40:DF:89:VAL:HG12	40:DF:90:PHE:N	2.11	0.64
45:DK:90:LYS:HZ3	45:DK:90:LYS:HB3	1.63	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
50:DR:55:ALA:HB2	50:DR:79:LEU:HD13	1.77	0.64
58:DZ:93:ASP:OD2	58:DZ:94:GLU:N	2.28	0.64
1:AA:1127:G:H21	1:AA:1147:C:H41	1.45	0.64
1:AA:1277:C:C2'	1:AA:1278:U:H5'	2.28	0.64
1:AA:1505:G:H4'	1:AA:1506:U:H5'	1.80	0.64
1:AA:489:C:H2'	1:AA:490:G:C8	2.33	0.64
1:AA:833:U:H2'	1:AA:834:C:C6	2.34	0.64
10:AJ:75:ILE:HG13	10:AJ:76:ASN:N	2.13	0.64
20:AT:89:ARG:HD2	20:AT:104:LEU:HD11	1.78	0.64
35:BA:720:C:H2'	35:BA:721:C:H6	1.63	0.64
38:BD:182:LEU:O	38:BD:271:ILE:HG13	1.98	0.64
38:BD:35:LYS:HD2	38:BD:35:LYS:O	1.98	0.64
38:BD:70:TRP:CH2	38:BD:150:LYS:HA	2.32	0.64
38:BD:71:ASP:CB	38:BD:103:ARG:HH22	2.11	0.64
54:BV:2:PHE:HB3	54:BV:42:GLY:HA2	1.78	0.64
57:BY:17:SER:OG	57:BY:18:GLY:N	2.30	0.64
58:BZ:165:VAL:HG12	58:BZ:166:SER:H	1.63	0.64
1:CA:489:C:H2'	1:CA:490:G:C8	2.33	0.64
4:CD:18:LYS:HB2	4:CD:33:MET:CG	2.23	0.64
5:CE:33:VAL:HG11	5:CE:109:ILE:HA	1.80	0.64
5:CE:41:VAL:CG2	5:CE:113:ALA:HA	2.28	0.64
11:CK:82:VAL:HB	11:CK:108:ILE:HG13	1.80	0.64
12:CL:89:ARG:HB2	12:CL:89:ARG:HH11	1.62	0.64
19:CS:20:LEU:HA	19:CS:23:ASN:ND2	2.13	0.64
24:CY:138:ARG:HH22	24:CY:337:LEU:CD1	2.11	0.64
31:D6:36:LEU:HD22	31:D6:50:ARG:NH1	2.13	0.64
35:DA:1181:C:O2'	35:DA:1182:A:H5'	1.97	0.64
35:DA:1711:C:O2'	35:DA:1712:C:H5'	1.98	0.64
41:DG:127:GLY:O	41:DG:129:GLY:N	2.31	0.64
42:DH:12:PRO:O	42:DH:13:LYS:HB2	1.98	0.64
51:DS:85:VAL:O	51:DS:106:ARG:HG2	1.97	0.64
1:AA:1015:A:H2'	1:AA:1016:A:C8	2.33	0.63
1:AA:123:C:OP1	1:AA:312:C:H5'	1.98	0.63
2:AB:18:GLY:H	2:AB:42:ILE:HG22	1.63	0.63
4:AD:13:ARG:O	4:AD:15:GLU:N	2.31	0.63
5:AE:76:ILE:HD11	5:AE:142:LEU:CD2	2.27	0.63
35:BA:1709:U:H2'	35:BA:1710:C:C6	2.33	0.63
35:BA:2392:A:H2	35:BA:2424:C:H42	1.43	0.63
35:BA:2808:U:O2'	35:BA:2809:A:H5'	1.97	0.63
43:BI:93:THR:HG23	43:BI:96:ASP:N	2.13	0.63
51:BS:85:VAL:O	51:BS:106:ARG:HG2	1.97	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:2849:U:O4	52:BT:23:ARG:NH2	2.31	0.63
54:BV:38:LEU:C	54:BV:38:LEU:HD23	2.18	0.63
57:BY:10:GLY:C	57:BY:27:VAL:HG22	2.18	0.63
1:CA:1015:A:H2'	1:CA:1016:A:C8	2.34	0.63
1:CA:1288:A:N1	1:CA:1371:G:H1'	2.13	0.63
20:CT:89:ARG:NH2	20:CT:104:LEU:HD21	2.13	0.63
24:CY:224:PRO:HA	24:CY:227:LEU:HB2	1.80	0.63
29:D4:14:ILE:N	29:D4:14:ILE:HD12	2.13	0.63
31:D6:44:ARG:O	31:D6:45:LYS:C	2.37	0.63
33:D8:32:LEU:HD12	35:DA:2391:G:OP1	1.98	0.63
34:D9:9:ARG:HH11	34:D9:9:ARG:HB3	1.63	0.63
35:DA:2317:C:O2'	35:DA:2318:G:H5'	1.97	0.63
35:DA:286:C:O2'	35:DA:287:C:H5'	1.97	0.63
36:DB:15:A:O2'	36:DB:16:G:H5'	1.98	0.63
39:DE:132:HIS:CD2	39:DE:135:HIS:NE2	2.66	0.63
39:DE:175:VAL:HG22	39:DE:177:PRO:HD3	1.80	0.63
57:DY:27:VAL:HG12	57:DY:29:GLU:OE1	1.97	0.63
1:AA:1116:C:C3'	1:AA:1117:G:H5''	2.27	0.63
5:AE:105:VAL:H	5:AE:106:PRO:HD2	1.62	0.63
10:AJ:38:ILE:HG12	10:AJ:71:LEU:O	1.98	0.63
10:AJ:23:ILE:HG23	10:AJ:85:LEU:HD13	1.80	0.63
19:AS:40:ILE:HD11	19:AS:71:LEU:HD23	1.80	0.63
1:AA:1319:A:OP2	19:AS:5:LEU:HD23	1.98	0.63
31:B6:12:GLU:HA	31:B6:23:THR:HA	1.78	0.63
35:BA:271(C):C:H2'	35:BA:271(D):G:H8	1.63	0.63
35:BA:914:C:C2'	35:BA:915:C:H5'	2.26	0.63
37:BC:6:LYS:HG2	37:BC:9:ARG:HB3	1.81	0.63
41:BG:161:THR:HG22	41:BG:162:THR:N	2.13	0.63
47:BO:105:GLU:HA	47:BO:108:GLU:OE1	1.98	0.63
52:BT:89:VAL:C	52:BT:91:ARG:H	1.99	0.63
53:BU:16:LYS:O	53:BU:20:LEU:HD23	1.98	0.63
1:CA:1277:C:C2'	1:CA:1278:U:H5'	2.29	0.63
1:CA:1325:C:H5'	21:CU:15:ARG:HE	1.63	0.63
1:CA:359:U:H2'	1:CA:360:A:H8	1.63	0.63
4:CD:112:VAL:HG12	4:CD:116:GLN:CD	2.18	0.63
8:CH:51:VAL:HG11	8:CH:60:ARG:HB2	1.80	0.63
11:CK:15:ALA:HA	11:CK:76:GLY:O	1.98	0.63
11:CK:27:ASN:OD1	11:CK:55:LYS:HB3	1.98	0.63
24:CY:227:LEU:HD11	24:CY:276:LEU:CD2	2.28	0.63
35:DA:1721:G:H8	35:DA:1741:A:H62	1.46	0.63
35:DA:528:A:C2	35:DA:2042:A:H2'	2.33	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:DF:10:PRO:HA	40:DF:127:GLU:HB3	1.80	0.63
46:DN:48:MET:H	46:DN:48:MET:HE3	1.63	0.63
50:DR:4:LEU:O	50:DR:5:LYS:HD3	1.98	0.63
52:DT:102:ILE:HB	52:DT:110:ILE:CD1	2.28	0.63
54:DV:47:VAL:CG1	54:DV:51:VAL:HA	2.28	0.63
35:DA:480:A:C1'	57:DY:44:ILE:HG21	2.28	0.63
57:DY:68:HIS:ND1	57:DY:70:SER:HB3	2.13	0.63
58:DZ:48:PHE:HE2	58:DZ:71:VAL:HG11	1.63	0.63
1:AA:757:U:H2'	1:AA:758:G:O4'	1.98	0.63
10:AJ:96:ILE:HD13	10:AJ:96:ILE:N	2.12	0.63
7:AG:151:TYR:OH	11:AK:54:ARG:HD3	1.99	0.63
31:B6:36:LEU:HD22	31:B6:50:ARG:NH1	2.13	0.63
35:BA:1332:G:H5''	35:BA:1332:G:H8	1.63	0.63
35:BA:646:A:H2'	35:BA:647:G:O4'	1.99	0.63
35:BA:796:C:H2'	35:BA:797:C:C6	2.33	0.63
43:BI:127:VAL:HG12	43:BI:127:VAL:O	1.97	0.63
58:BZ:163:LEU:HD23	58:BZ:163:LEU:N	2.12	0.63
5:CE:137:GLU:HG3	5:CE:141:GLN:NE2	2.14	0.63
7:CG:78:ARG:HG2	7:CG:79:ARG:H	1.62	0.63
11:CK:21:ILE:HD12	11:CK:21:ILE:N	2.13	0.63
10:CJ:61:GLU:HG2	14:CN:58:LYS:HE2	1.81	0.63
24:CY:117:ILE:HB	24:CY:211:ILE:HG13	1.78	0.63
30:D5:43:HIS:CD2	35:DA:2815:C:O2'	2.51	0.63
35:DA:1021:A:C8	35:DA:1021:A:H3'	2.33	0.63
35:DA:1332:G:H5''	35:DA:1332:G:H8	1.62	0.63
37:DC:23:ILE:HG22	37:DC:187:ALA:HA	1.81	0.63
39:DE:75:VAL:C	39:DE:77:ILE:H	2.00	0.63
41:DG:151:ALA:HB3	41:DG:153:ARG:HH12	1.62	0.63
48:DP:83:VAL:H	48:DP:115:LEU:CD2	2.11	0.63
48:DP:123:LEU:HD12	48:DP:123:LEU:O	1.98	0.63
48:DP:16:ARG:NH1	48:DP:16:ARG:HB2	2.14	0.63
54:DV:2:PHE:CB	54:DV:42:GLY:HA2	2.28	0.63
1:AA:1258:G:H2'	1:AA:1259:C:C6	2.34	0.63
1:AA:1346:A:N1	1:AA:1374:A:H5''	2.14	0.63
1:AA:16:A:O2'	1:AA:17:U:H5'	1.98	0.63
5:AE:110:LEU:O	5:AE:115:VAL:HB	1.97	0.63
7:AG:111:ARG:HB3	7:AG:113:GLU:OE2	1.98	0.63
24:AY:241:GLY:CA	24:AY:244:THR:HG22	2.25	0.63
27:B2:19:VAL:O	27:B2:21:LEU:N	2.31	0.63
31:B6:26:ASN:HD22	31:B6:32:ASN:CG	2.02	0.63
35:BA:1049:C:H2'	35:BA:1050:A:H8	1.63	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:BF:10:PRO:HA	40:BF:127:GLU:HB3	1.81	0.63
41:BG:39:ILE:HD11	41:BG:92:VAL:HG12	1.81	0.63
42:BH:154:PRO:HB3	42:BH:163:TYR:CZ	2.33	0.63
43:BI:91:SER:HB3	43:BI:121:LYS:HB2	1.81	0.63
46:BN:17:ASP:HB2	46:BN:55:VAL:CG1	2.29	0.63
48:BP:50:ARG:HG3	48:BP:51:PHE:N	2.12	0.63
1:CA:828:A:H2'	1:CA:829:G:O4'	1.98	0.63
1:CA:834:C:H2'	1:CA:835:U:H6	1.62	0.63
15:CO:27:VAL:O	15:CO:31:LEU:HD23	1.98	0.63
31:D6:15:GLU:CD	31:D6:18:ARG:HE	2.01	0.63
35:DA:1542:A:H5'	35:DA:1543:C:OP2	1.99	0.63
35:DA:1570:A:H2'	35:DA:1571:A:C8	2.33	0.63
38:DD:32:SER:O	38:DD:36:PRO:HD3	1.98	0.63
39:DE:117:MET:O	39:DE:118:LYS:HB2	1.97	0.63
43:DI:47:LEU:HA	43:DI:50:ARG:CD	2.28	0.63
46:DN:126:PRO:O	46:DN:127:ASP:HB2	1.98	0.63
49:DQ:27:VAL:HG23	49:DQ:137:TYR:CD1	2.32	0.63
49:DQ:76:LYS:HB3	49:DQ:91:GLU:CG	2.29	0.63
52:DT:65:LYS:HA	52:DT:65:LYS:HZ2	1.63	0.63
1:AA:1055:A:H2	3:AC:194:GLY:HA2	1.63	0.63
1:AA:186:C:H2'	1:AA:187:C:H6	1.63	0.63
4:AD:17:VAL:O	4:AD:17:VAL:HG12	1.98	0.63
7:AG:37:ASN:ND2	9:AI:40:LEU:HA	2.12	0.63
19:AS:20:LEU:HA	19:AS:23:ASN:ND2	2.13	0.63
19:AS:40:ILE:HD13	19:AS:62:ILE:HD13	1.80	0.63
19:AS:64:GLU:HG3	19:AS:65:ASN:OD1	1.99	0.63
29:B4:14:ILE:N	29:B4:14:ILE:HD12	2.14	0.63
33:B8:25:MET:O	48:BP:62:LEU:HD21	1.97	0.63
40:BF:117:ARG:NH2	48:BP:5:ASP:N	2.46	0.63
46:BN:120:LEU:C	46:BN:121:LYS:HD2	2.19	0.63
49:BQ:130:LYS:NZ	58:BZ:80:ARG:HD2	2.13	0.63
52:BT:107:ASP:H	52:BT:110:ILE:HG12	1.63	0.63
1:CA:1258:G:H2'	1:CA:1259:C:C6	2.34	0.63
1:CA:1259:C:H42	1:CA:1276:G:H1	1.45	0.63
1:CA:189(K):U:H2'	1:CA:189(L):G:C8	2.33	0.63
1:CA:460:G:O6	1:CA:470:C:H5"	1.98	0.63
4:CD:14:ARG:HA	4:CD:39:PRO:HB3	1.81	0.63
12:CL:23:LYS:O	12:CL:24:VAL:HG23	1.98	0.63
17:CQ:7:THR:CG2	17:CQ:58:GLU:HG2	2.28	0.63
21:CU:9:ARG:HA	21:CU:9:ARG:NH1	2.13	0.63
38:DD:49:ILE:HD11	38:DD:52:ARG:HA	1.81	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:DK:53:VAL:HG23	45:DK:53:VAL:O	1.96	0.63
45:DK:3:LYS:O	45:DK:7:VAL:HG21	1.98	0.63
48:DP:85:LEU:CD2	48:DP:114:ILE:HD11	2.28	0.63
49:DQ:35:VAL:HG11	49:DQ:130:LYS:HE2	1.80	0.63
51:DS:26:LEU:HD12	51:DS:87:PHE:HD1	1.62	0.63
54:DV:2:PHE:O	54:DV:14:VAL:O	2.16	0.63
58:DZ:110:GLY:HA3	58:DZ:174:VAL:HG11	1.79	0.63
1:AA:828:A:H2'	1:AA:829:G:O4'	1.98	0.63
6:AF:3:ARG:HB3	6:AF:93:SER:HB2	1.81	0.63
1:AA:1372:U:H5''	9:AI:71:SER:HB3	1.80	0.63
11:AK:21:ILE:CD1	11:AK:82:VAL:HG13	2.29	0.63
11:AK:21:ILE:N	11:AK:21:ILE:HD12	2.14	0.63
12:AL:90:VAL:O	12:AL:92:ASP:N	2.32	0.63
16:AP:15:PRO:HB2	16:AP:41:PRO:HG3	1.80	0.63
19:AS:5:LEU:HD13	19:AS:6:LYS:H	1.64	0.63
27:B2:28:LYS:O	27:B2:31:GLU:HB2	1.98	0.63
34:B9:9:ARG:CB	34:B9:9:ARG:HH11	2.12	0.63
35:BA:1528(A):A:H2'	35:BA:1529:G:H5''	1.81	0.63
35:BA:2182:G:H2'	35:BA:2183:C:H6	1.60	0.63
35:BA:404:C:H4'	35:BA:405:U:C5'	2.26	0.63
35:BA:893:C:H2'	35:BA:894:C:H6	1.64	0.63
39:BE:2:LYS:HD2	39:BE:95:ILE:CG2	2.29	0.63
41:BG:181:ARG:HG2	41:BG:181:ARG:O	1.99	0.63
43:BI:127:VAL:HG22	43:BI:139:GLN:HA	1.81	0.63
47:BO:69:ILE:HD12	47:BO:69:ILE:N	2.13	0.63
1:CA:1026:G:H3'	1:CA:1027:C:C5'	2.29	0.63
1:CA:1488:G:O2'	1:CA:1489:G:H5'	1.98	0.63
1:CA:538:G:OP2	12:CL:115:LYS:HG3	1.98	0.63
17:CQ:26:GLN:O	17:CQ:27:PHE:HB3	1.98	0.63
24:CY:287:GLU:CA	24:CY:290:LYS:HE3	2.24	0.63
31:D6:20:ASN:OD1	31:D6:49:HIS:NE2	2.23	0.63
35:DA:1639:U:H2'	35:DA:1640:C:H5''	1.80	0.63
35:DA:89:G:OP2	35:DA:90:U:H2'	1.98	0.63
36:DB:87:G:H3'	36:DB:88:C:H5''	1.80	0.63
38:DD:182:LEU:H	38:DD:272:ALA:CB	2.11	0.63
38:DD:35:LYS:O	38:DD:37:LEU:N	2.31	0.63
40:DF:107:LYS:HA	40:DF:107:LYS:NZ	2.14	0.63
40:DF:2:LYS:HD3	40:DF:25:PRO:HG3	1.80	0.63
52:DT:28:VAL:HG22	52:DT:46:GLU:HA	1.81	0.63
57:DY:28:LYS:HB3	57:DY:37:VAL:HB	1.80	0.63
58:DZ:153:SER:HB2	58:DZ:163:LEU:CD1	2.29	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1201:A:H1'	1:AA:1202:G:OP2	1.99	0.63
4:AD:9:CYS:SG	4:AD:31:CYS:O	2.57	0.63
6:AF:79:LEU:HD12	6:AF:88:VAL:CG1	2.28	0.63
2:AB:196:LEU:HA	8:AH:74:PRO:HG3	1.80	0.63
9:AI:56:LEU:HD23	9:AI:56:LEU:O	1.99	0.63
19:AS:6:LYS:HD2	19:AS:6:LYS:N	2.13	0.63
22:AV:5:G:C2'	22:AV:6:G:H5''	2.29	0.63
24:AY:54:ARG:HH21	24:AY:54:ARG:HB3	1.61	0.63
33:B8:33:ASN:H	33:B8:33:ASN:HD22	1.46	0.63
35:BA:2298:A:H2'	35:BA:2299:G:O4'	1.98	0.63
41:BG:102:PHE:O	41:BG:106:LEU:HB3	1.99	0.63
42:BH:84:SER:O	42:BH:85:LYS:HB3	1.99	0.63
45:BK:138:VAL:HG13	45:BK:138:VAL:O	1.98	0.63
45:BK:2:LYS:HE3	45:BK:66:THR:HG21	1.81	0.63
45:BK:93:ARG:HD2	45:BK:93:ARG:O	1.99	0.63
46:BN:126:PRO:O	46:BN:127:ASP:HB2	1.99	0.63
49:BQ:109:VAL:CG1	49:BQ:113:GLN:HB2	2.29	0.63
51:BS:107:GLU:O	51:BS:109:GLY:N	2.32	0.63
57:BY:10:GLY:CA	57:BY:27:VAL:HG13	2.17	0.63
6:CF:75:LEU:O	6:CF:79:LEU:HG	1.99	0.63
8:CH:103:VAL:HG21	8:CH:110:ALA:HB2	1.79	0.63
10:CJ:50:ILE:HA	10:CJ:60:ARG:CB	2.28	0.63
17:CQ:27:PHE:CE1	17:CQ:36:ILE:HD11	2.34	0.63
19:CS:5:LEU:HD13	19:CS:6:LYS:H	1.64	0.63
30:D5:36:CYS:CB	30:D5:49:CYS:SG	2.86	0.63
35:DA:2894:G:H2'	35:DA:2894:G:N3	2.14	0.63
40:DF:40:GLN:NE2	40:DF:182:ASN:HB2	2.14	0.63
41:DG:127:GLY:C	41:DG:129:GLY:H	2.02	0.63
43:DI:51:ILE:C	43:DI:53:ALA:H	2.00	0.63
45:DK:93:ARG:C	45:DK:95:LYS:HE3	2.19	0.63
51:DS:14:VAL:HG12	51:DS:15:ARG:N	2.13	0.63
52:DT:85:LYS:NZ	52:DT:85:LYS:CB	2.57	0.63
53:DU:110:VAL:O	53:DU:114:LYS:HG2	1.99	0.63
1:AA:1054:C:O2	1:AA:1054:C:H3'	1.99	0.63
8:AH:20:TYR:HE2	8:AH:75:ARG:HD2	1.63	0.63
12:AL:102:ARG:HD2	12:AL:108:ALA:O	1.99	0.63
12:AL:25:PRO:C	12:AL:27:LEU:N	2.51	0.63
24:AY:303:ARG:N	24:AY:304:PRO:HD3	2.05	0.63
24:AY:98:LEU:HD23	24:AY:98:LEU:O	1.97	0.63
35:BA:2023:G:H5'	35:BA:2617:C:H4'	1.81	0.63
35:BA:597:U:H4'	48:BP:15:ARG:HH11	1.64	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:BC:7:ARG:HD2	37:BC:7:ARG:O	1.99	0.63
41:BG:54:GLU:O	41:BG:57:ALA:HB3	1.99	0.63
57:BY:61:ILE:HD12	57:BY:62:GLU:N	2.13	0.63
1:CA:1055:A:H2	3:CC:194:GLY:HA2	1.64	0.63
3:CC:52:LEU:HD23	3:CC:52:LEU:N	2.13	0.63
10:CJ:6:ILE:O	10:CJ:71:LEU:HD12	1.99	0.63
10:CJ:96:ILE:HD13	10:CJ:96:ILE:N	2.14	0.63
14:CN:26:ARG:HG3	14:CN:39:LEU:HD22	1.79	0.63
35:DA:1188:U:H4'	54:DV:79:VAL:HG22	1.81	0.63
33:D8:62:LEU:CD1	35:DA:242:G:H5'	2.17	0.63
35:DA:259:G:N2	35:DA:621:A:H8	1.95	0.63
37:DC:46:ALA:O	37:DC:172:ILE:HG22	1.99	0.63
43:DI:82:ARG:HH21	43:DI:146:ALA:N	1.97	0.63
43:DI:50:ARG:O	43:DI:51:ILE:HD13	1.98	0.63
49:DQ:84:GLY:O	49:DQ:85:LYS:HB2	1.97	0.63
53:DU:16:LYS:O	53:DU:20:LEU:CD2	2.47	0.63
56:DX:8:ILE:N	56:DX:8:ILE:HD12	2.14	0.63
58:DZ:70:LEU:HG	58:DZ:91:LEU:HD11	1.80	0.63
1:AA:1095:U:H2'	1:AA:1096:C:C6	2.34	0.63
1:AA:148:G:H2'	1:AA:149:A:H8	1.63	0.63
1:AA:221:C:H2'	1:AA:222:U:H6	1.64	0.63
1:AA:961:U:O2'	1:AA:962:C:H5'	1.99	0.63
5:AE:101:ILE:H	5:AE:101:ILE:HD13	1.63	0.63
14:AN:26:ARG:HG3	14:AN:39:LEU:HD22	1.79	0.63
26:B1:94:LEU:O	26:B1:96:LYS:N	2.32	0.63
29:B4:33:VAL:CG1	41:BG:109:VAL:HG13	2.29	0.63
35:BA:2292:C:O2'	35:BA:2293:C:H5'	1.98	0.63
38:BD:241:PRO:O	38:BD:243:GLY:N	2.31	0.63
41:BG:152:LEU:CD2	41:BG:152:LEU:H	2.05	0.63
42:BH:130:ARG:NH1	42:BH:130:ARG:HB3	2.13	0.63
46:BN:133:GLN:HG2	46:BN:135:PRO:HD3	1.80	0.63
52:BT:28:VAL:HG11	52:BT:46:GLU:OE2	1.98	0.63
35:BA:559:G:H22	53:BU:49:HIS:CD2	2.17	0.63
1:CA:519:C:H2'	1:CA:520:A:H8	1.63	0.63
2:CB:112:VAL:C	2:CB:114:ARG:H	2.01	0.63
6:CF:88:VAL:HG12	6:CF:88:VAL:O	1.98	0.63
24:CY:97:LYS:C	24:CY:99:ASP:H	2.00	0.63
35:DA:1114:G:H2'	35:DA:1115:G:O4'	1.99	0.63
35:DA:1490:A:H5'	35:DA:1491:G:OP2	1.98	0.63
35:DA:2206:G:C2	35:DA:2207:G:H5'	2.34	0.63
35:DA:991:C:H5'	35:DA:991:C:H6	1.64	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:DC:8:TYR:CE1	37:DC:221:PRO:HB3	2.30	0.63
42:DH:19:VAL:HG21	42:DH:43:VAL:O	1.99	0.63
48:DP:48:PRO:HG2	48:DP:49:ARG:H	1.63	0.63
48:DP:62:LEU:N	48:DP:62:LEU:HD23	2.06	0.63
1:AA:999:C:O2'	1:AA:1000:U:H5'	1.99	0.62
10:AJ:33:GLN:H	10:AJ:75:ILE:HD11	1.64	0.62
22:AV:21:A:H2'	22:AV:22:G:H5''	1.80	0.62
28:B3:59:VAL:HG12	28:B3:60:GLU:N	2.13	0.62
35:BA:1854:A:H62	35:BA:1888:G:H8	1.47	0.62
35:BA:528:A:C2	35:BA:2042:A:H2'	2.34	0.62
35:BA:2660:A:H5'	35:BA:2661:G:H21	1.60	0.62
37:BC:225:ILE:HD12	37:BC:225:ILE:O	1.99	0.62
39:BE:132:HIS:CD2	39:BE:135:HIS:NE2	2.67	0.62
48:BP:123:LEU:O	48:BP:123:LEU:HD12	1.99	0.62
48:BP:50:ARG:HG2	48:BP:50:ARG:HH21	1.64	0.62
54:BV:2:PHE:CB	54:BV:42:GLY:HA2	2.29	0.62
57:BY:87:LYS:O	57:BY:88:LYS:HB2	1.99	0.62
1:CA:651:C:O2'	1:CA:652:U:H5'	1.99	0.62
35:DA:1173:G:H5'	35:DA:1174:A:N3	2.14	0.62
35:DA:1796:U:H2'	35:DA:1797:C:C6	2.34	0.62
35:DA:272(J):C:N4	35:DA:363:G:H1	1.90	0.62
39:DE:9:VAL:CG2	39:DE:25:VAL:HB	2.28	0.62
41:DG:64:THR:OG1	41:DG:94:LEU:HD11	1.99	0.62
41:DG:76:SER:OG	41:DG:84:LYS:HG3	1.99	0.62
42:DH:121:ILE:CD1	42:DH:144:VAL:HG21	2.28	0.62
45:DK:137:GLU:HG3	45:DK:138:VAL:N	2.14	0.62
47:DO:105:GLU:HA	47:DO:108:GLU:OE1	1.99	0.62
58:DZ:20:ARG:NH1	58:DZ:20:ARG:HB2	2.08	0.62
1:AA:1212:U:H2'	24:AY:78:GLU:OE2	1.98	0.62
1:AA:192:U:H4'	20:AT:103:GLY:N	2.09	0.62
1:AA:639:G:H2'	1:AA:640:A:H8	1.64	0.62
3:AC:54:ARG:HH12	3:AC:56:ASP:HB2	1.63	0.62
5:AE:137:GLU:HG3	5:AE:141:GLN:HE21	1.64	0.62
9:AI:43:ALA:HA	9:AI:74:ILE:HG21	1.81	0.62
10:AJ:61:GLU:HG2	14:AN:58:LYS:HE2	1.79	0.62
21:AU:9:ARG:HA	21:AU:9:ARG:NH1	2.12	0.62
35:BA:1173:G:H5'	35:BA:1174:A:N3	2.14	0.62
35:BA:1528(A):A:H3'	35:BA:1529:G:H5''	1.81	0.62
35:BA:271(M):G:C5'	43:BI:57:ARG:HH12	2.12	0.62
35:BA:2779:U:H1'	35:BA:2781:A:C5	2.33	0.62
35:BA:2894:G:H2'	35:BA:2894:G:N3	2.12	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:869:G:O2'	35:BA:870:A:H5'	1.98	0.62
37:BC:195:ARG:HH11	37:BC:195:ARG:HG3	1.64	0.62
39:BE:2:LYS:HD2	39:BE:95:ILE:HG23	1.81	0.62
54:BV:81:TYR:C	54:BV:82:ARG:HD2	2.20	0.62
55:BW:82:LEU:HD23	55:BW:84:ARG:NH2	2.13	0.62
57:BY:98:VAL:O	57:BY:99:CYS:SG	2.57	0.62
1:CA:1071:C:H2'	1:CA:1072:G:H8	1.64	0.62
1:CA:1425:U:H2'	1:CA:1426:C:C6	2.33	0.62
16:CP:15:PRO:HB2	16:CP:41:PRO:HG3	1.81	0.62
38:DD:43:ARG:HB3	38:DD:54:ARG:CB	2.27	0.62
40:DF:63:LYS:CE	40:DF:67:GLN:HB2	2.29	0.62
41:DG:67:LYS:CD	41:DG:67:LYS:H	2.07	0.62
43:DI:2:LYS:HB2	43:DI:39:ALA:HB3	1.80	0.62
45:DK:93:ARG:HD2	45:DK:93:ARG:O	1.98	0.62
53:DU:117:GLN:HA	53:DU:117:GLN:NE2	2.11	0.62
57:DY:28:LYS:HB3	57:DY:38:ILE:H	1.64	0.62
35:DA:481:G:OP2	57:DY:47:LYS:HD3	1.98	0.62
58:DZ:8:TYR:O	58:DZ:37:VAL:HB	2.00	0.62
58:DZ:70:LEU:HG	58:DZ:91:LEU:HD21	1.80	0.62
28:B3:6:VAL:HB	28:B3:54:VAL:HG11	1.80	0.62
30:B5:33:CYS:SG	30:B5:36:CYS:HB3	2.39	0.62
33:B8:30:ARG:HA	33:B8:30:ARG:HE	1.64	0.62
34:B9:29:ASN:HD21	34:B9:32:HIS:CE1	2.17	0.62
35:BA:1438:U:O2'	35:BA:1439:A:H5'	1.99	0.62
38:BD:148:GLU:HB2	38:BD:151:LYS:HD2	1.81	0.62
39:BE:132:HIS:O	39:BE:135:HIS:NE2	2.32	0.62
40:BF:132:VAL:CG2	40:BF:133:ASN:H	1.97	0.62
41:BG:134:GLY:C	41:BG:135:LEU:HD12	2.19	0.62
43:BI:62:LYS:CE	43:BI:134:PRO:HD2	2.25	0.62
48:BP:62:LEU:HD22	48:BP:62:LEU:H	1.63	0.62
51:BS:26:LEU:HD23	51:BS:39:ILE:CG1	2.28	0.62
54:BV:22:VAL:O	54:BV:23:GLU:CB	2.46	0.62
5:CE:137:GLU:HG3	5:CE:141:GLN:HE21	1.64	0.62
9:CI:56:LEU:HD23	9:CI:56:LEU:O	1.99	0.62
13:CM:111:LYS:O	13:CM:113:PRO:HD2	1.99	0.62
16:CP:20:VAL:HG21	16:CP:32:TYR:CG	2.34	0.62
26:D1:94:LEU:O	26:D1:96:LYS:N	2.32	0.62
30:D5:57:VAL:HG23	30:D5:58:LEU:N	2.13	0.62
31:D6:17:LYS:O	31:D6:18:ARG:HB3	1.99	0.62
35:DA:1173:G:C3'	35:DA:1174:A:H5'	2.26	0.62
35:DA:2392:A:H2	35:DA:2424:C:H42	1.47	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:2660:A:H5'	35:DA:2661:G:H21	1.60	0.62
35:DA:633:A:H2'	35:DA:634:C:H5'	1.80	0.62
37:DC:7:ARG:HD2	37:DC:7:ARG:O	1.99	0.62
41:DG:106:LEU:HA	41:DG:110:ALA:HB3	1.81	0.62
45:DK:2:LYS:HE3	45:DK:66:THR:HG21	1.81	0.62
46:DN:15:LEU:HD13	46:DN:16:ILE:N	2.14	0.62
48:DP:50:ARG:HG3	48:DP:51:PHE:N	2.13	0.62
51:DS:52:SER:CB	51:DS:55:ALA:HB3	2.29	0.62
57:DY:80:GLY:O	57:DY:81:LYS:HB2	1.98	0.62
1:AA:1452:C:H4'	1:AA:1456:G:H5''	1.81	0.62
1:AA:853:G:H2'	1:AA:854:G:H8	1.63	0.62
2:AB:112:VAL:C	2:AB:114:ARG:H	2.01	0.62
2:AB:44:LEU:HD12	2:AB:44:LEU:N	2.14	0.62
4:AD:112:VAL:HG12	4:AD:116:GLN:CD	2.18	0.62
4:AD:3:ARG:NH2	4:AD:118:ARG:HD3	2.13	0.62
17:AQ:7:THR:CG2	17:AQ:58:GLU:HG2	2.28	0.62
22:AW:15:G:H22	22:AW:59:U:H1'	1.62	0.62
24:AY:13:LEU:HA	24:AY:16:TYR:HB2	1.80	0.62
24:AY:312:ARG:NH2	24:AY:344:LEU:HB2	2.14	0.62
26:B1:46:LEU:CD2	26:B1:61:ARG:HD3	2.29	0.62
31:B6:33:LYS:O	31:B6:34:LEU:HB2	2.00	0.62
35:BA:1570:A:H2'	35:BA:1571:A:C8	2.34	0.62
45:BK:93:ARG:C	45:BK:95:LYS:HE3	2.19	0.62
57:BY:38:ILE:CG2	57:BY:39:VAL:N	2.61	0.62
1:CA:1052:U:H5'	24:CY:319:ASN:ND2	2.15	0.62
1:CA:1227:A:OP2	13:CM:111:LYS:HE2	1.99	0.62
1:CA:503:C:H2'	1:CA:504:C:C6	2.35	0.62
2:CB:213:LEU:O	2:CB:213:LEU:HD23	1.99	0.62
3:CC:91:LEU:HB3	3:CC:99:VAL:HG11	1.81	0.62
19:CS:40:ILE:HD13	19:CS:62:ILE:HD13	1.80	0.62
24:CY:122:PRO:HG3	24:CY:164:ILE:O	1.99	0.62
31:D6:12:GLU:HG3	31:D6:23:THR:HG22	1.80	0.62
35:DA:1021:A:H3'	35:DA:1021:A:H8	1.64	0.62
35:DA:2712:U:O2	35:DA:2712:U:H5'	1.99	0.62
35:DA:2779:U:H1'	35:DA:2781:A:C5	2.34	0.62
37:DC:195:ARG:HH11	37:DC:195:ARG:HG3	1.64	0.62
39:DE:120:TRP:CD2	39:DE:155:LYS:HD3	2.34	0.62
41:DG:60:LEU:O	41:DG:63:ILE:HG23	1.99	0.62
45:DK:7:VAL:HG12	45:DK:58:THR:HG23	1.80	0.62
3:AC:9:GLY:HA2	3:AC:12:LEU:HG	1.80	0.62
4:AD:129:ASN:N	4:AD:129:ASN:ND2	2.47	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:AF:14:LEU:HB3	6:AF:18:GLN:HE21	1.64	0.62
6:AF:88:VAL:HG12	6:AF:88:VAL:O	1.99	0.62
6:AF:8:ILE:HG22	6:AF:9:VAL:N	2.14	0.62
8:AH:20:TYR:HA	8:AH:65:TYR:CE2	2.34	0.62
10:AJ:50:ILE:HA	10:AJ:60:ARG:CB	2.29	0.62
10:AJ:63:PHE:HA	14:AN:59:ALA:H	1.64	0.62
11:AK:15:ALA:HA	11:AK:76:GLY:O	1.98	0.62
20:AT:30:LYS:O	20:AT:30:LYS:HE3	1.99	0.62
21:AU:6:ARG:NE	21:AU:15:ARG:HH12	1.96	0.62
24:AY:232:MET:HB2	35:BA:2555:U:N3	2.14	0.62
31:B6:12:GLU:O	31:B6:51:GLU:HA	1.99	0.62
32:B7:8:ASN:HD22	32:B7:11:LYS:H	1.42	0.62
35:BA:1015:G:O2'	35:BA:1016:G:H5'	2.00	0.62
35:BA:1188:U:H4'	54:BV:79:VAL:HG22	1.81	0.62
35:BA:1568:G:H5''	38:BD:61:LEU:CD2	2.27	0.62
35:BA:1858:G:H2'	35:BA:1883:G:H22	1.65	0.62
35:BA:2206:G:C2	35:BA:2207:G:H5'	2.34	0.62
35:BA:2659:G:C2	35:BA:2661:G:C8	2.87	0.62
35:BA:2761:G:C3'	35:BA:2762:G:H5''	2.30	0.62
40:BF:139:PHE:HB2	40:BF:166:ALA:HB1	1.79	0.62
45:BK:102:GLU:HA	45:BK:105:LEU:HD13	1.79	0.62
46:BN:67:LEU:O	46:BN:68:GLU:HB2	1.99	0.62
1:AA:346:G:OP1	52:BT:41:ARG:NH2	2.32	0.62
54:BV:19:LYS:HG3	54:BV:20:LEU:N	2.14	0.62
58:BZ:134:PRO:CB	58:BZ:137:ILE:HD11	2.27	0.62
58:BZ:57:ILE:N	58:BZ:57:ILE:HD12	2.14	0.62
1:CA:775:G:O2'	1:CA:776:G:H5'	1.99	0.62
2:CB:32:ILE:HD12	2:CB:40:HIS:CD2	2.35	0.62
4:CD:9:CYS:SG	4:CD:31:CYS:O	2.58	0.62
13:CM:34:LEU:HD13	13:CM:41:PRO:HG3	1.81	0.62
24:CY:117:ILE:O	24:CY:210:VAL:HA	1.99	0.62
35:DA:1021:A:H62	35:DA:1141:U:H3	1.45	0.62
35:DA:2298:A:H2'	35:DA:2299:G:O4'	1.99	0.62
42:DH:130:ARG:HB3	42:DH:130:ARG:NH1	2.15	0.62
45:DK:102:GLU:HA	45:DK:105:LEU:HD13	1.81	0.62
48:DP:16:ARG:HD3	48:DP:17:LYS:N	2.15	0.62
55:DW:18:ARG:HG2	55:DW:18:ARG:HH11	1.64	0.62
57:DY:17:SER:HB2	57:DY:71:LYS:CE	2.28	0.62
1:AA:1442:G:C6	1:AA:1442(B):A:H2	2.17	0.62
2:AB:213:LEU:HD23	2:AB:213:LEU:O	2.00	0.62
11:AK:82:VAL:HB	11:AK:108:ILE:HG13	1.80	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:AY:164:ILE:CD1	24:AY:167:ALA:HB2	2.29	0.62
26:B1:75:GLU:OE2	26:B1:75:GLU:HA	1.99	0.62
46:BN:1:MET:HG2	46:BN:2:LYS:H	1.61	0.62
46:BN:89:LYS:NZ	46:BN:89:LYS:HB3	2.15	0.62
50:BR:44:LEU:O	50:BR:48:VAL:HG23	1.98	0.62
51:BS:14:VAL:HG12	51:BS:16:ASN:H	1.65	0.62
51:BS:26:LEU:HD12	51:BS:87:PHE:HD1	1.63	0.62
1:CA:1054:C:O2	1:CA:1054:C:H3'	1.99	0.62
1:CA:114:U:H2'	1:CA:115:G:C8	2.34	0.62
1:CA:833:U:H2'	1:CA:834:C:C6	2.34	0.62
4:CD:88:VAL:O	4:CD:92:VAL:HG23	1.99	0.62
7:CG:87:VAL:HG11	7:CG:154:TYR:O	2.00	0.62
24:CY:135:MET:O	24:CY:138:ARG:HG2	1.98	0.62
24:CY:180:LEU:O	24:CY:210:VAL:HG11	2.00	0.62
33:D8:33:ASN:N	33:D8:33:ASN:HD22	1.96	0.62
35:DA:2052:G:H4'	39:DE:143:ASN:O	2.00	0.62
46:DN:9:VAL:HG12	46:DN:10:GLU:H	1.65	0.62
48:DP:105:LEU:H	48:DP:105:LEU:HD12	1.64	0.62
48:DP:41:ARG:NH1	48:DP:45:LEU:HG	2.14	0.62
51:DS:26:LEU:HD23	51:DS:39:ILE:CG1	2.30	0.62
51:DS:89:ARG:O	51:DS:92:TYR:CB	2.48	0.62
35:DA:2876:G:C4'	52:DT:3:ARG:HE	2.07	0.62
1:AA:383:A:H2'	1:AA:384:G:H5'	1.82	0.62
1:AA:460:G:O6	1:AA:470:C:H5''	1.99	0.62
1:AA:975:A:C4'	1:AA:976:G:H5''	2.26	0.62
4:AD:109:GLY:O	4:AD:111:ALA:N	2.32	0.62
6:AF:45:LEU:C	6:AF:45:LEU:HD23	2.20	0.62
24:AY:290:LYS:HG3	24:AY:291:ARG:N	2.14	0.62
35:BA:1292:U:H2'	35:BA:1293:C:C6	2.35	0.62
35:BA:633:A:H2'	35:BA:634:C:H5'	1.82	0.62
37:BC:46:ALA:O	37:BC:172:ILE:HG22	1.98	0.62
35:BA:779:U:OP1	38:BD:49:ILE:HG22	2.00	0.62
42:BH:74:ASN:HD22	42:BH:138:LYS:HD3	1.64	0.62
45:BK:137:GLU:HG3	45:BK:138:VAL:N	2.14	0.62
58:BZ:8:TYR:O	58:BZ:37:VAL:HB	2.00	0.62
1:CA:1128:C:H1'	1:CA:1146:A:N6	2.10	0.62
1:CA:328:C:H4'	1:CA:329:A:C5'	2.29	0.62
1:CA:639:G:H2'	1:CA:640:A:H8	1.64	0.62
1:CA:950:U:H2'	1:CA:951:G:H8	1.64	0.62
3:CC:71:ALA:CB	3:CC:106:VAL:HB	2.29	0.62
19:CS:18:LYS:O	19:CS:21:GLU:HG2	1.98	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:D6:25:LYS:NZ	35:DA:2284:C:H41	1.98	0.62
31:D6:26:ASN:HD22	31:D6:32:ASN:ND2	1.97	0.62
35:DA:1281:G:H5'	35:DA:1281:G:H8	1.65	0.62
35:DA:2653:U:H5'	35:DA:2654:A:H5''	1.80	0.62
40:DF:185:ASP:HA	40:DF:188:ARG:HG2	1.82	0.62
35:DA:674:G:H1'	40:DF:74:ARG:HD2	1.82	0.62
49:DQ:109:VAL:HG12	49:DQ:113:GLN:HB2	1.82	0.62
54:DV:49:THR:HG22	54:DV:50:PRO:HD3	1.81	0.62
1:AA:1016:A:H2'	1:AA:1017:G:O4'	1.99	0.62
1:AA:556:C:O2'	1:AA:557:G:H5'	2.00	0.62
1:AA:736:C:H2'	1:AA:737:A:H8	1.62	0.62
13:AM:13:LYS:HA	13:AM:44:ARG:HH11	1.65	0.62
13:AM:34:LEU:HD13	13:AM:41:PRO:HG3	1.80	0.62
24:AY:19:ILE:HB	24:AY:20:PRO:CD	2.30	0.62
24:AY:238:GLY:HA2	35:BA:2602:A:C4	2.35	0.62
30:B5:48:GLU:C	30:B5:49:CYS:SG	2.78	0.62
31:B6:45:LYS:HZ2	35:BA:2370:G:N2	1.97	0.62
35:BA:1490:A:H5'	35:BA:1491:G:OP2	2.00	0.62
35:BA:1542:A:H5'	35:BA:1543:C:OP2	2.00	0.62
31:B6:25:LYS:NZ	35:BA:2284:C:H41	1.98	0.62
40:BF:53:THR:HG23	40:BF:55:GLY:N	2.10	0.62
41:BG:19:LEU:HD21	41:BG:171:ALA:CB	2.29	0.62
43:BI:54:GLN:O	43:BI:58:LEU:HB2	1.99	0.62
53:BU:65:ILE:HD11	53:BU:93:LYS:HA	1.80	0.62
1:CA:457:C:H2'	1:CA:458:C:C6	2.35	0.62
3:CC:11:ARG:HB3	3:CC:15:THR:HB	1.82	0.62
19:CS:29:ARG:HD2	19:CS:29:ARG:N	2.15	0.62
26:D1:71:TYR:CE1	43:DI:27:ARG:HD2	2.35	0.62
35:DA:2022:U:O2'	35:DA:2617:C:H5'	2.00	0.62
35:DA:2875:C:O2'	52:DT:5:ALA:HB3	2.00	0.62
38:DD:35:LYS:O	38:DD:35:LYS:HD2	1.99	0.62
42:DH:136:ILE:H	42:DH:136:ILE:HD12	1.65	0.62
42:DH:121:ILE:HD13	42:DH:144:VAL:HG21	1.82	0.62
51:DS:26:LEU:HD12	51:DS:87:PHE:CD1	2.35	0.62
58:DZ:128:VAL:HG21	58:DZ:132:ASN:O	2.00	0.62
8:AH:6:ILE:N	8:AH:6:ILE:HD12	2.15	0.62
13:AM:89:GLY:O	13:AM:93:ARG:HD2	2.00	0.62
14:AN:29:ARG:HG2	14:AN:40:CYS:HB2	1.82	0.62
24:AY:237:PRO:HD3	35:BA:2604:U:P	2.40	0.62
30:B5:35:GLU:O	30:B5:36:CYS:HB3	1.99	0.62
35:BA:142:A:H8	35:BA:1595:G:H21	1.46	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:587:C:C4	48:BP:33:ARG:HG2	2.35	0.62
35:BA:93:G:H2'	35:BA:94:C:C6	2.35	0.62
41:BG:180:PHE:HB3	41:BG:182:LYS:HG3	1.82	0.62
41:BG:5:VAL:HG12	41:BG:6:ALA:H	1.64	0.62
42:BH:97:ARG:O	42:BH:98:LEU:HB2	1.98	0.62
43:BI:131:LYS:HA	43:BI:135:GLU:CG	2.27	0.62
45:BK:91:PRO:O	58:BZ:112:ARG:NH1	2.33	0.62
35:BA:1243:G:O2'	48:BP:9:ASN:HA	2.00	0.62
1:CA:1081:G:H5''	5:CE:18:ARG:HD3	1.80	0.62
1:CA:556:C:O2'	1:CA:557:G:H5'	1.99	0.62
4:CD:18:LYS:HG3	4:CD:31:CYS:SG	2.40	0.62
4:CD:3:ARG:NH2	4:CD:118:ARG:HD3	2.15	0.62
6:CF:79:LEU:HD12	6:CF:88:VAL:CG1	2.30	0.62
17:CQ:45:HIS:HB2	17:CQ:65:ILE:HD13	1.81	0.62
19:CS:40:ILE:HD11	19:CS:71:LEU:HD23	1.80	0.62
1:CA:191:G:C4	20:CT:105:SER:HB3	2.34	0.62
31:D6:12:GLU:O	31:D6:51:GLU:HA	1.99	0.62
33:D8:48:PHE:C	33:D8:49:VAL:HG22	2.20	0.62
35:DA:1049:C:H2'	35:DA:1050:A:H8	1.62	0.62
35:DA:1709:U:H2'	35:DA:1710:C:C6	2.35	0.62
37:DC:6:LYS:HG2	37:DC:9:ARG:HB3	1.81	0.62
47:DO:90:GLN:O	47:DO:91:LEU:HB2	1.97	0.62
48:DP:146:VAL:HG13	48:DP:147:LEU:N	2.15	0.62
47:DO:107:ARG:NH1	52:DT:35:LYS:HD2	2.15	0.62
57:DY:90:LEU:HD12	57:DY:91:GLU:OE2	2.00	0.62
57:DY:96:ILE:HD12	57:DY:99:CYS:CB	2.29	0.62
1:AA:954:G:H21	1:AA:1227:A:N6	1.98	0.62
3:AC:155:GLY:O	3:AC:156:ARG:HB2	1.99	0.62
3:AC:91:LEU:HB3	3:AC:99:VAL:HG11	1.82	0.62
6:AF:60:PHE:C	6:AF:61:LEU:HD12	2.19	0.62
7:AG:87:VAL:HG11	7:AG:154:TYR:O	2.00	0.62
13:AM:115:LYS:C	13:AM:117:VAL:H	2.03	0.62
22:AV:14:A:N6	22:AV:21:A:H2	1.96	0.62
30:B5:57:VAL:HG23	30:B5:58:LEU:N	2.15	0.62
31:B6:12:GLU:HG3	31:B6:23:THR:HG22	1.81	0.62
33:B8:48:PHE:O	33:B8:49:VAL:HG22	2.00	0.62
35:BA:2176:A:H2'	35:BA:2177:C:C6	2.35	0.62
25:B0:4:LYS:HD3	35:BA:2252:G:O6	1.98	0.62
35:BA:2476:A:C2'	35:BA:2477:C:H5''	2.29	0.62
35:BA:654(R):C:H2'	35:BA:654(S):G:N7	2.13	0.62
35:BA:958:U:H6	35:BA:958:U:H5'	1.63	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BB:87:G:H3'	36:BB:88:C:H5''	1.81	0.62
41:BG:15:VAL:O	41:BG:18:GLU:HB3	1.98	0.62
43:BI:71:ILE:HG13	43:BI:72:LEU:N	2.15	0.62
45:BK:19:PRO:HB2	45:BK:21:PRO:HD2	1.82	0.62
45:BK:3:LYS:O	45:BK:7:VAL:HG21	2.00	0.62
51:BS:52:SER:CB	51:BS:55:ALA:HB3	2.30	0.62
35:BA:2867:G:OP2	52:BT:119:LYS:NZ	2.33	0.62
53:BU:90:VAL:HG22	54:BV:39:LEU:HB2	1.82	0.62
58:BZ:4:ARG:NH1	58:BZ:58:VAL:HG11	2.14	0.62
1:CA:1319:A:OP2	19:CS:5:LEU:HD23	1.99	0.62
1:CA:383:A:H2'	1:CA:384:G:H5'	1.81	0.62
3:CC:51:GLY:O	3:CC:53:ALA:N	2.33	0.62
4:CD:106:TYR:CD1	4:CD:113:SER:HA	2.35	0.62
4:CD:129:ASN:N	4:CD:129:ASN:ND2	2.47	0.62
11:CK:110:ASP:O	18:CR:84:LYS:HD2	1.99	0.62
11:CK:21:ILE:CD1	11:CK:82:VAL:HG13	2.30	0.62
24:CY:241:GLY:O	24:CY:242:VAL:C	2.38	0.62
31:D6:46:HIS:CB	31:D6:47:THR:OG1	2.48	0.62
35:DA:1430:C:H2'	35:DA:1431:U:C6	2.34	0.62
40:DF:163:VAL:O	40:DF:166:ALA:HB3	2.00	0.62
45:DK:14:ALA:HB1	45:DK:50:ASP:HA	1.82	0.62
52:DT:38:ASN:HD22	52:DT:39:ARG:N	1.97	0.62
58:DZ:152:ALA:HB1	58:DZ:167:PRO:HB2	1.81	0.62
1:AA:1220:G:H2'	1:AA:1221:G:H8	1.65	0.61
1:AA:191:G:C4	20:AT:105:SER:HB3	2.35	0.61
18:AR:52:PRO:O	18:AR:56:THR:HG23	2.00	0.61
24:AY:276:LEU:O	24:AY:280:LYS:HG3	2.00	0.61
26:B1:86:SER:O	26:B1:90:ILE:HG12	2.00	0.61
33:B8:32:LEU:HD11	35:BA:2391:G:H3'	1.82	0.61
35:BA:1048:A:H62	35:BA:1052:C:N4	1.97	0.61
35:BA:1947:C:H2'	35:BA:1948:G:H5''	1.82	0.61
35:BA:2126:A:H61	35:BA:2163:C:H4'	1.64	0.61
35:BA:2262:U:O2'	35:BA:2263:C:H5'	2.00	0.61
33:B8:30:ARG:CZ	35:BA:2419:U:O4	2.48	0.61
36:BB:5:C:O2'	36:BB:6:C:H5'	2.00	0.61
38:BD:129:ASN:O	38:BD:193:VAL:HG12	2.00	0.61
40:BF:65:TRP:CZ3	40:BF:75:HIS:HD2	2.17	0.61
45:BK:21:PRO:HB2	45:BK:22:PRO:CD	2.26	0.61
48:BP:146:VAL:HG13	48:BP:147:LEU:N	2.14	0.61
49:BQ:76:LYS:HB3	49:BQ:91:GLU:CG	2.30	0.61
1:CA:457:C:H2'	1:CA:458:C:H6	1.65	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:CY:55:LEU:HA	24:CY:58:THR:OG1	2.00	0.61
28:D3:6:VAL:HB	28:D3:54:VAL:HG11	1.82	0.61
35:DA:1654:A:OP1	50:DR:3:HIS:CB	2.47	0.61
24:CY:303:ARG:NH2	35:DA:1914:C:O2'	2.32	0.61
35:DA:2103:C:H42	35:DA:2186:G:H1	1.46	0.61
41:DG:118:ARG:N	41:DG:181:ARG:NH2	2.44	0.61
41:DG:88:ILE:H	41:DG:88:ILE:HD12	1.65	0.61
43:DI:83:ALA:HB2	43:DI:88:ILE:HG23	1.82	0.61
45:DK:115:LEU:CD1	45:DK:123:ALA:HB1	2.30	0.61
46:DN:17:ASP:HB2	46:DN:55:VAL:CG1	2.29	0.61
51:DS:30:ARG:NH2	51:DS:62:LYS:HD2	2.15	0.61
52:DT:107:ASP:H	52:DT:110:ILE:HG12	1.65	0.61
56:DX:3:THR:HA	56:DX:6:ASP:OD2	2.00	0.61
1:AA:538:G:O3'	12:AL:114:LYS:HD2	1.99	0.61
24:AY:322:LYS:HD2	24:AY:329:MET:HG2	1.81	0.61
35:BA:1405:U:H2'	35:BA:1406:U:H6	1.65	0.61
35:BA:1541:G:H4'	35:BA:1542:A:C5'	2.29	0.61
35:BA:304:G:H2'	35:BA:305:U:C6	2.35	0.61
38:BD:4:LYS:HE3	38:BD:20:ASP:HA	1.81	0.61
39:BE:4:ILE:HD13	39:BE:28:ALA:HB1	1.83	0.61
43:BI:126:TYR:O	43:BI:127:VAL:HG23	2.00	0.61
56:BX:3:THR:HA	56:BX:6:ASP:OD2	2.00	0.61
58:BZ:104:PHE:HD1	58:BZ:139:VAL:HB	1.63	0.61
1:CA:15:G:H2'	1:CA:16:A:H8	1.65	0.61
1:CA:221:C:H2'	1:CA:222:U:H6	1.65	0.61
3:CC:173:VAL:O	3:CC:175:LEU:HD12	2.00	0.61
13:CM:115:LYS:C	13:CM:117:VAL:H	2.03	0.61
21:CU:25:LYS:HG2	21:CU:26:LYS:N	2.15	0.61
22:CV:12:U:H3	22:CV:23:A:H61	1.47	0.61
24:CY:234:ALA:HB2	24:CY:247:SER:OG	2.00	0.61
35:DA:1038:C:H42	35:DA:1117:G:H1	1.47	0.61
35:DA:2305:A:H5''	41:DG:134:GLY:HA3	1.80	0.61
35:DA:2691:C:H6	35:DA:2691:C:H5'	1.65	0.61
35:DA:587:C:C4	48:DP:33:ARG:HG2	2.34	0.61
35:DA:1658:C:OP1	39:DE:132:HIS:O	2.16	0.61
39:DE:69:LYS:C	39:DE:71:GLY:H	2.03	0.61
41:DG:82:LEU:CD2	41:DG:83:ARG:H	2.08	0.61
43:DI:9:LEU:N	43:DI:9:LEU:HD12	2.16	0.61
45:DK:18:THR:HA	45:DK:38:VAL:HG12	1.82	0.61
46:DN:9:VAL:HG12	46:DN:10:GLU:N	2.14	0.61
35:DA:661:C:O3'	48:DP:18:ARG:HD2	2.01	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
49:DQ:76:LYS:HB3	49:DQ:91:GLU:HG3	1.81	0.61
56:DX:63:LYS:HB3	56:DX:72:LYS:HG3	1.82	0.61
58:DZ:151:HIS:HA	58:DZ:171:ILE:CG1	2.24	0.61
1:AA:67:C:O2'	1:AA:171:A:H1'	2.01	0.61
8:AH:11:THR:HG23	8:AH:14:ARG:HH12	1.64	0.61
13:AM:9:ILE:HD12	13:AM:9:ILE:N	2.15	0.61
1:AA:192:U:C4'	20:AT:103:GLY:H	2.11	0.61
33:B8:6:THR:CG2	33:B8:63:PRO:HD3	2.31	0.61
35:BA:2660:A:N3	35:BA:2660:A:H2'	2.15	0.61
36:BB:8:U:C5'	36:BB:8:U:H6	2.14	0.61
39:BE:69:LYS:C	39:BE:71:GLY:H	2.02	0.61
52:BT:28:VAL:HG22	52:BT:46:GLU:HA	1.82	0.61
52:BT:65:LYS:HZ2	52:BT:65:LYS:HA	1.65	0.61
1:CA:148:G:H2'	1:CA:149:A:H8	1.64	0.61
1:CA:393:A:O2'	1:CA:394:G:H5'	2.00	0.61
2:CB:164:VAL:O	2:CB:186:ALA:HB1	2.00	0.61
2:CB:24:TRP:CZ3	2:CB:26:PRO:HA	2.35	0.61
2:CB:44:LEU:HD12	2:CB:44:LEU:N	2.15	0.61
9:CI:40:LEU:O	9:CI:42:ARG:N	2.27	0.61
29:D4:11:PRO:O	29:D4:29:PRO:HG3	2.00	0.61
35:DA:2761:G:C3'	35:DA:2762:G:H5''	2.30	0.61
39:DE:55:ASN:HB2	39:DE:72:VAL:CG1	2.30	0.61
46:DN:16:ILE:HG23	46:DN:54:VAL:HG22	1.82	0.61
57:DY:87:LYS:O	57:DY:88:LYS:HB2	2.00	0.61
58:DZ:49:ARG:HH11	58:DZ:49:ARG:CG	2.09	0.61
1:AA:189(K):U:H2'	1:AA:189(L):G:C8	2.34	0.61
3:AC:36:ASP:HB3	3:AC:40:ARG:NH1	2.16	0.61
5:AE:33:VAL:HG11	5:AE:109:ILE:HA	1.82	0.61
10:AJ:5:ARG:HA	10:AJ:73:ASP:OD1	2.01	0.61
12:AL:25:PRO:O	12:AL:27:LEU:N	2.33	0.61
16:AP:18:ARG:HD3	16:AP:35:LYS:HE3	1.81	0.61
24:AY:312:ARG:HD2	24:AY:314:TYR:CZ	2.35	0.61
35:BA:1658:C:OP1	39:BE:132:HIS:O	2.19	0.61
35:BA:174:C:C3'	35:BA:175:G:H5''	2.30	0.61
35:BA:184:C:H2'	35:BA:185:U:C6	2.36	0.61
35:BA:2463:C:O2'	35:BA:2464:C:H5'	2.00	0.61
35:BA:2732:G:C3'	35:BA:2733:A:H5'	2.30	0.61
35:BA:2794:C:H2'	35:BA:2795:G:H8	1.65	0.61
35:BA:673:C:H6	35:BA:673:C:C5'	2.10	0.61
37:BC:6:LYS:HD2	37:BC:6:LYS:C	2.21	0.61
39:BE:120:TRP:CD2	39:BE:155:LYS:HD3	2.34	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:BF:107:LYS:NZ	40:BF:107:LYS:HA	2.15	0.61
42:BH:49:VAL:HG23	42:BH:50:VAL:N	2.14	0.61
35:BA:626:U:C2	48:BP:105:LEU:HG	2.36	0.61
56:BX:12:VAL:HG23	56:BX:13:LEU:N	2.14	0.61
58:BZ:144:LEU:CD1	58:BZ:150:LEU:H	2.13	0.61
1:CA:1029:C:H4'	1:CA:1033:G:N2	2.16	0.61
1:CA:155:C:H2'	1:CA:156:G:H8	1.66	0.61
1:CA:539:A:H2'	1:CA:540:G:C8	2.34	0.61
6:CF:3:ARG:HB3	6:CF:93:SER:HB2	1.81	0.61
8:CH:20:TYR:HA	8:CH:65:TYR:CE2	2.35	0.61
22:CW:55:U:H2'	22:CW:56:C:C5	2.36	0.61
22:CW:19:G:H4'	22:CW:57:G:H22	1.64	0.61
33:D8:33:ASN:H	33:D8:33:ASN:HD22	1.45	0.61
35:DA:1292:U:H2'	35:DA:1293:C:C6	2.35	0.61
35:DA:708:C:H5'	35:DA:709:U:OP2	1.99	0.61
38:DD:142:VAL:HG23	38:DD:192:THR:O	2.01	0.61
41:DG:67:LYS:HD2	41:DG:67:LYS:N	2.15	0.61
43:DI:65:ALA:O	43:DI:69:LYS:N	2.33	0.61
46:DN:128:HIS:CE1	46:DN:134:ARG:HH11	2.19	0.61
48:DP:7:ARG:HB2	48:DP:8:PRO:CD	2.30	0.61
49:DQ:109:VAL:CG1	49:DQ:113:GLN:HB2	2.30	0.61
49:DQ:136:ALA:C	49:DQ:138:ASP:H	2.04	0.61
1:AA:15:G:H2'	1:AA:16:A:H8	1.65	0.61
8:AH:6:ILE:H	8:AH:6:ILE:CD1	2.12	0.61
13:AM:19:LEU:HD22	13:AM:19:LEU:H	1.64	0.61
15:AO:37:ASN:HD22	15:AO:37:ASN:N	1.97	0.61
20:AT:79:ARG:HA	20:AT:82:SER:OG	1.99	0.61
31:B6:50:ARG:O	31:B6:51:GLU:HB3	1.99	0.61
35:BA:1654:A:OP1	50:BR:3:HIS:CB	2.47	0.61
41:BG:136:ARG:HG2	41:BG:136:ARG:HH11	1.64	0.61
41:BG:77:ILE:HG22	41:BG:77:ILE:O	1.99	0.61
48:BP:80:TYR:CZ	48:BP:111:ARG:HD3	2.36	0.61
52:BT:35:LYS:CE	52:BT:41:ARG:HG3	2.31	0.61
35:BA:17:G:H4'	53:BU:25:TRP:CH2	2.35	0.61
57:BY:68:HIS:ND1	57:BY:70:SER:HB3	2.16	0.61
1:CA:1486:G:H2'	1:CA:1487:G:O4'	2.00	0.61
1:CA:533:A:H1'	1:CA:534:U:OP1	2.00	0.61
1:CA:67:C:O2'	1:CA:171:A:H1'	2.00	0.61
2:CB:88:ALA:HB2	2:CB:219:VAL:HG13	1.83	0.61
3:CC:155:GLY:O	3:CC:156:ARG:HB2	1.99	0.61
14:CN:29:ARG:HG2	14:CN:40:CYS:HB2	1.82	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:CU:6:ARG:NE	21:CU:15:ARG:HH12	1.98	0.61
24:CY:241:GLY:C	24:CY:243:ASN:N	2.51	0.61
35:DA:2808:U:O2'	35:DA:2809:A:H5'	1.99	0.61
35:DA:597:U:H4'	48:DP:15:ARG:NH1	2.16	0.61
39:DE:4:ILE:HD13	39:DE:28:ALA:HB1	1.81	0.61
42:DH:83:TYR:HB3	42:DH:134:SER:HA	1.82	0.61
45:DK:109:LYS:HB3	45:DK:109:LYS:NZ	2.15	0.61
52:DT:77:PRO:O	52:DT:78:LEU:HB2	2.00	0.61
57:DY:17:SER:OG	57:DY:18:GLY:N	2.33	0.61
1:AA:533:A:H1'	1:AA:534:U:OP1	1.99	0.61
1:AA:737:A:H2'	1:AA:738:C:H6	1.64	0.61
2:AB:165:VAL:HG23	2:AB:166:ASP:N	2.14	0.61
10:AJ:16:LEU:HD23	10:AJ:94:VAL:CG1	2.30	0.61
13:AM:108:ARG:CZ	13:AM:114:ARG:HG2	2.30	0.61
24:AY:106:LEU:HD13	24:AY:106:LEU:O	2.00	0.61
29:B4:25:TYR:O	29:B4:26:SER:HB3	2.00	0.61
35:BA:1980:G:O2'	35:BA:1982:C:OP2	2.19	0.61
45:BK:115:LEU:CD1	45:BK:123:ALA:HB1	2.31	0.61
51:BS:26:LEU:HD12	51:BS:87:PHE:CD1	2.35	0.61
57:BY:17:SER:HB2	57:BY:71:LYS:CE	2.28	0.61
58:BZ:11:GLU:H	58:BZ:11:GLU:CD	2.04	0.61
1:CA:1321:C:H5'	1:CA:1322:C:C5'	2.30	0.61
1:CA:397:A:H3'	1:CA:397:A:N3	2.15	0.61
5:CE:6:PHE:HB2	5:CE:34:VAL:CG2	2.31	0.61
6:CF:8:ILE:HG22	6:CF:9:VAL:N	2.15	0.61
7:CG:131:LYS:O	7:CG:131:LYS:HG3	2.01	0.61
10:CJ:37:PRO:HA	10:CJ:72:VAL:HG22	1.82	0.61
12:CL:60:LEU:C	12:CL:62:SER:H	2.03	0.61
13:CM:88:ARG:HA	13:CM:98:VAL:CG1	2.22	0.61
26:D1:80:LEU:HD23	26:D1:81:LYS:H	1.66	0.61
27:D2:64:LEU:CD2	27:D2:68:ARG:HD2	2.31	0.61
35:DA:1506:C:H2'	35:DA:1506:C:O2	2.01	0.61
35:DA:1528(A):A:H2'	35:DA:1529:G:H5''	1.81	0.61
35:DA:2126:A:H61	35:DA:2163:C:H4'	1.64	0.61
35:DA:2660:A:H2'	35:DA:2660:A:N3	2.15	0.61
43:DI:129:THR:HG22	43:DI:130:TYR:N	2.16	0.61
47:DO:80:ASP:OD2	52:DT:64:ARG:NH2	2.34	0.61
58:DZ:165:VAL:HG12	58:DZ:166:SER:OG	2.00	0.61
1:AA:1026:G:H3'	1:AA:1027:C:C5'	2.29	0.61
1:AA:1471:G:H2'	1:AA:1472:U:H6	1.64	0.61
1:AA:180:U:H2'	1:AA:181:G:H5''	1.81	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:349:A:O2'	1:AA:350:G:H5'	2.01	0.61
1:AA:537:G:H2'	1:AA:538:G:C8	2.35	0.61
3:AC:11:ARG:HB3	3:AC:15:THR:HB	1.82	0.61
4:AD:106:TYR:CD1	4:AD:113:SER:HA	2.35	0.61
12:AL:23:LYS:O	12:AL:24:VAL:HG23	2.00	0.61
24:AY:129:ALA:HA	24:AY:204:SER:HB3	1.82	0.61
27:B2:50:ILE:C	27:B2:52:ASP:H	2.03	0.61
30:B5:16:ARG:NH1	30:B5:17:ASP:OD1	2.34	0.61
35:BA:1022:G:H22	35:BA:1142(A):A:H2	1.44	0.61
30:B5:3:LYS:HB2	35:BA:747:U:C5	2.35	0.61
38:BD:182:LEU:H	38:BD:272:ALA:CB	2.12	0.61
35:BA:607:U:C5'	40:BF:103:LYS:HE3	2.31	0.61
40:BF:8:GLN:HG2	40:BF:126:VAL:HG12	1.82	0.61
41:BG:73:ALA:HB3	41:BG:87:PRO:HG3	1.81	0.61
42:BH:124:GLU:HB2	42:BH:132:ARG:HG2	1.83	0.61
49:BQ:76:LYS:HB3	49:BQ:91:GLU:HG3	1.82	0.61
49:BQ:132:VAL:CG1	58:BZ:81:ARG:HE	2.12	0.61
1:CA:1442(A):G:C3'	1:CA:1442(B):A:H5'	2.31	0.61
1:CA:538:G:O3'	12:CL:114:LYS:HD2	2.00	0.61
3:CC:104:GLN:CD	3:CC:105:GLU:H	2.04	0.61
10:CJ:26:ALA:CA	10:CJ:29:ARG:HH12	2.13	0.61
12:CL:18:VAL:HG23	12:CL:19:ARG:N	2.13	0.61
12:CL:25:PRO:O	12:CL:27:LEU:N	2.33	0.61
15:CO:8:LYS:O	15:CO:12:ILE:HG13	2.01	0.61
22:CW:61:C:H2'	22:CW:62:C:C6	2.36	0.61
26:D1:19:GLN:HB2	26:D1:35:THR:HG23	1.82	0.61
28:D3:45:GLY:HA3	35:DA:851:U:O2'	2.01	0.61
29:D4:20:ASN:ND2	29:D4:21:VAL:N	2.46	0.61
29:D4:15:ILE:HB	29:D4:31:ILE:O	2.01	0.61
35:DA:2124:G:H2'	35:DA:2125:G:H5'	1.82	0.61
43:DI:78:THR:HA	43:DI:141:LYS:O	2.00	0.61
46:DN:67:LEU:O	46:DN:68:GLU:HB2	1.99	0.61
47:DO:10:VAL:HG21	47:DO:16:ALA:O	2.00	0.61
1:AA:1007:C:H2'	1:AA:1008:C:C6	2.36	0.61
1:AA:1029:C:H4'	1:AA:1033:G:N2	2.15	0.61
1:AA:1285:A:H1'	1:AA:1286:A:OP2	2.01	0.61
1:AA:328:C:H4'	1:AA:329:A:C5'	2.29	0.61
9:AI:40:LEU:C	9:AI:42:ARG:H	2.04	0.61
16:AP:20:VAL:HG21	16:AP:32:TYR:CG	2.36	0.61
19:AS:53:ASN:O	19:AS:77:THR:HG22	2.00	0.61
22:AV:14:A:H61	22:AV:21:A:H2	1.47	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:AY:30:GLU:HB2	45:BK:20:ALA:HB3	1.83	0.61
27:B2:11:GLU:CA	27:B2:14:ARG:HB2	2.22	0.61
31:B6:19:ARG:HG3	31:B6:20:ASN:H	1.66	0.61
33:B8:33:ASN:N	33:B8:33:ASN:HD22	1.96	0.61
35:BA:1430:C:H2'	35:BA:1431:U:C6	2.36	0.61
35:BA:1721:G:C6	35:BA:1739:U:H5'	2.36	0.61
35:BA:2124:G:H2'	35:BA:2125:G:H5'	1.83	0.61
35:BA:2134:A:N6	35:BA:2157:G:H1'	2.16	0.61
35:BA:2308:G:O6	35:BA:2310:A:H2'	2.01	0.61
39:BE:119:ARG:HG2	39:BE:160:TYR:HB2	1.81	0.61
39:BE:33:VAL:HG11	39:BE:89:ASP:HA	1.82	0.61
40:BF:36:VAL:HG11	40:BF:183:VAL:CG1	2.31	0.61
41:BG:113:ARG:O	41:BG:140:ILE:HG22	2.01	0.61
29:B4:25:TYR:CE2	41:BG:2:PRO:HA	2.36	0.61
43:BI:92:VAL:HG13	43:BI:120:ILE:CD1	2.30	0.61
48:BP:16:ARG:HD3	48:BP:17:LYS:N	2.15	0.61
49:BQ:109:VAL:HG12	49:BQ:113:GLN:HB2	1.83	0.61
50:BR:38:VAL:HB	50:BR:39:PRO:HD3	1.83	0.61
56:BX:64:LYS:NZ	56:BX:73:ARG:HH21	1.98	0.61
1:CA:1220:G:H2'	1:CA:1221:G:H8	1.64	0.61
1:CA:522:C:H42	1:CA:528:C:H42	1.48	0.61
9:CI:50:LEU:O	9:CI:53:VAL:HG22	2.01	0.61
24:CY:153:VAL:HG13	24:CY:153:VAL:O	2.01	0.61
35:DA:796:C:H2'	35:DA:797:C:C6	2.36	0.61
38:DD:148:GLU:HB2	38:DD:151:LYS:HD2	1.83	0.61
38:DD:58:HIS:HD2	38:DD:59:LYS:O	1.84	0.61
40:DF:132:VAL:CG2	40:DF:133:ASN:H	1.98	0.61
40:DF:139:PHE:HB2	40:DF:166:ALA:HB1	1.83	0.61
42:DH:124:GLU:HB2	42:DH:132:ARG:HG2	1.82	0.61
46:DN:99:LEU:HD12	46:DN:122:VAL:HG21	1.83	0.61
51:DS:13:ARG:HG3	51:DS:14:VAL:N	2.02	0.61
35:DA:143(A):C:H4'	56:DX:38:GLU:OE2	2.00	0.61
1:AA:1321:C:H5'	1:AA:1322:C:C5'	2.31	0.61
1:AA:1412:C:H2'	1:AA:1413:A:C8	2.36	0.61
1:AA:221:C:H2'	1:AA:222:U:C6	2.36	0.61
1:AA:97:G:O2'	1:AA:98:G:H5''	2.00	0.61
19:AS:46:GLY:H	19:AS:62:ILE:HG23	1.66	0.61
24:AY:292:GLU:O	24:AY:296:LYS:HG3	2.00	0.61
34:B9:9:ARG:HH11	34:B9:9:ARG:HB3	1.64	0.61
35:BA:1292:U:O2'	35:BA:1293:C:H5'	2.01	0.61
41:BG:29:TRP:C	41:BG:33:ARG:HH12	2.04	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:BH:130:ARG:HH11	42:BH:130:ARG:HB3	1.66	0.61
48:BP:16:ARG:HB2	48:BP:16:ARG:NH1	2.15	0.61
49:BQ:15:GLY:O	49:BQ:16:ARG:HG2	2.01	0.61
49:BQ:19:GLY:O	49:BQ:20:ALA:HB3	2.01	0.61
53:BU:92:ARG:O	53:BU:94:ASN:N	2.34	0.61
1:CA:1294:G:H2'	1:CA:1295:G:C8	2.34	0.61
4:CD:14:ARG:HB2	4:CD:40:PRO:HD2	1.83	0.61
8:CH:11:THR:HG23	8:CH:14:ARG:HH12	1.65	0.61
11:CK:58:PRO:HD3	11:CK:89:ALA:HB1	1.83	0.61
27:D2:41:ILE:HD11	27:D2:43:GLN:CB	2.31	0.61
30:D5:37:LYS:HG3	30:D5:37:LYS:O	2.01	0.61
30:D5:3:LYS:HB2	35:DA:747:U:C5	2.36	0.61
41:DG:118:ARG:HD2	41:DG:181:ARG:CD	2.27	0.61
58:DZ:153:SER:HB2	58:DZ:163:LEU:HD11	1.83	0.61
1:AA:457:C:H2'	1:AA:458:C:C6	2.35	0.61
1:AA:775:G:O2'	1:AA:776:G:H5'	2.01	0.61
2:AB:16:HIS:HB3	2:AB:210:SER:CB	2.31	0.61
3:AC:51:GLY:O	3:AC:53:ALA:N	2.34	0.61
24:AY:175:ASN:O	24:AY:179:LEU:HD13	2.00	0.61
24:AY:342:MET:O	24:AY:346:TRP:CD1	2.54	0.61
28:B3:19:GLN:HE22	28:B3:52:HIS:HE1	1.49	0.61
29:B4:15:ILE:HB	29:B4:31:ILE:O	2.01	0.61
35:BA:1721:G:H8	35:BA:1741:A:H62	1.49	0.61
35:BA:197:A:C8	35:BA:197:A:H5'	2.35	0.61
39:BE:59:VAL:HG13	39:BE:60:ASN:N	2.16	0.61
45:BK:84:LEU:HD23	45:BK:84:LEU:H	1.65	0.61
54:BV:18:LEU:HD22	54:BV:19:LYS:H	1.66	0.61
1:CA:100:C:H2'	1:CA:101:A:C8	2.36	0.61
1:CA:221:C:H2'	1:CA:222:U:C6	2.36	0.61
1:CA:69:G:H2'	1:CA:70:G:H8	1.66	0.61
8:CH:6:ILE:H	8:CH:6:ILE:CD1	2.14	0.61
1:CA:136:C:H4'	16:CP:1:MET:HE2	1.82	0.61
25:D0:51:VAL:CG2	25:D0:81:VAL:HG23	2.31	0.61
27:D2:41:ILE:CD1	27:D2:43:GLN:HB2	2.31	0.61
33:D8:2:PRO:HA	35:DA:591:C:O2	2.01	0.61
35:DA:17:G:H4'	53:DU:25:TRP:CH2	2.36	0.61
35:DA:2176:A:H2'	35:DA:2177:C:C6	2.36	0.61
35:DA:774:A:H2	35:DA:787:U:O2'	1.81	0.61
41:DG:16:ARG:HH12	41:DG:28:VAL:HG12	1.64	0.61
41:DG:3:LEU:O	41:DG:4:ASP:HB2	2.00	0.61
43:DI:113:ARG:HB2	43:DI:130:TYR:HE1	1.66	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:DK:23:VAL:O	45:DK:23:VAL:HG12	2.00	0.61
51:DS:89:ARG:HB3	51:DS:92:TYR:HB3	1.82	0.61
52:DT:98:LYS:HB3	52:DT:100:TYR:CE1	2.36	0.61
54:DV:62:LEU:HD21	54:DV:95:LEU:CB	2.25	0.61
4:AD:88:VAL:O	4:AD:92:VAL:HG23	2.01	0.60
1:AA:1081:G:H5'	5:AE:18:ARG:HD3	1.83	0.60
13:AM:111:LYS:O	13:AM:113:PRO:HD2	2.00	0.60
17:AQ:9:VAL:HG11	17:AQ:84:LEU:HD12	1.82	0.60
33:B8:33:ASN:O	33:B8:34:TRP:CB	2.49	0.60
35:BA:1188:U:O2'	35:BA:1189:A:H5'	2.00	0.60
35:BA:143(A):C:H4'	56:BX:38:GLU:OE2	2.01	0.60
35:BA:2564:A:C2	35:BA:2647:U:H4'	2.36	0.60
37:BC:23:ILE:HG22	37:BC:187:ALA:HA	1.81	0.60
45:BK:23:VAL:O	45:BK:23:VAL:HG12	2.00	0.60
52:BT:10:VAL:O	52:BT:13:ARG:HG2	2.01	0.60
1:CA:1030(D):A:H2'	1:CA:1031:G:H5'	1.83	0.60
1:CA:1112:C:C4	3:CC:178:LEU:HD23	2.36	0.60
2:CB:132:LYS:HG3	2:CB:135:GLN:NE2	2.15	0.60
4:CD:109:GLY:O	4:CD:111:ALA:N	2.34	0.60
5:CE:55:VAL:O	5:CE:58:ALA:HB3	2.00	0.60
10:CJ:38:ILE:HG13	10:CJ:71:LEU:HB3	1.83	0.60
33:D8:6:THR:CG2	33:D8:63:PRO:HD3	2.31	0.60
35:DA:1165:U:H2'	35:DA:1166:C:C6	2.36	0.60
35:DA:1243:G:O2'	48:DP:9:ASN:HA	2.00	0.60
35:DA:2262:U:O2'	35:DA:2263:C:H5'	2.01	0.60
33:D8:32:LEU:HD11	35:DA:2391:G:H3'	1.83	0.60
35:DA:654(T):C:H2'	35:DA:654(U):A:C4'	2.30	0.60
38:DD:4:LYS:HE3	38:DD:20:ASP:HA	1.83	0.60
38:DD:27:THR:HG23	38:DD:27:THR:O	2.01	0.60
40:DF:53:THR:HG23	40:DF:55:GLY:N	2.09	0.60
41:DG:125:PHE:HE1	41:DG:180:PHE:HE2	1.47	0.60
36:DB:45:A:C8	41:DG:95:ARG:NH1	2.69	0.60
43:DI:133:HIS:CB	43:DI:134:PRO:CD	2.76	0.60
43:DI:6:LEU:O	43:DI:7:GLU:HB2	2.00	0.60
52:DT:35:LYS:CE	52:DT:41:ARG:HG3	2.31	0.60
1:AA:1436:U:O2'	1:AA:1437:C:H5'	2.01	0.60
1:AA:1497:G:H2'	1:AA:1498:U:H5'	1.82	0.60
1:AA:393:A:O2'	1:AA:394:G:H5'	2.01	0.60
1:AA:519:C:H2'	1:AA:520:A:C8	2.36	0.60
1:AA:590:C:H2'	1:AA:591:U:C6	2.34	0.60
17:AQ:45:HIS:HB2	17:AQ:65:ILE:HD13	1.82	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:AR:25:THR:HG22	18:AR:42:ARG:NH1	2.16	0.60
18:AR:38:GLU:HA	18:AR:41:LYS:HB3	1.84	0.60
22:AW:76:8AN:C4'	22:AW:77:PHA:O	2.43	0.60
27:B2:34:GLU:O	27:B2:38:GLN:HG2	2.01	0.60
35:BA:1114:G:H2'	35:BA:1115:G:O4'	2.01	0.60
35:BA:2052:G:H4'	39:BE:143:ASN:O	2.01	0.60
35:BA:2739:U:O2'	35:BA:2740:A:H5'	2.01	0.60
35:BA:480:A:C1'	57:BY:44:ILE:HG21	2.30	0.60
36:BB:55:U:O2'	36:BB:56:G:H5'	2.01	0.60
39:BE:55:ASN:HB2	39:BE:72:VAL:CG1	2.30	0.60
46:BN:128:HIS:CE1	46:BN:134:ARG:HH11	2.19	0.60
49:BQ:1:MET:O	49:BQ:2:LEU:HB2	2.01	0.60
52:BT:48:ILE:HD12	52:BT:48:ILE:N	2.16	0.60
57:BY:10:GLY:HA2	57:BY:27:VAL:CG1	2.18	0.60
58:BZ:166:SER:HB2	58:BZ:167:PRO:C	2.19	0.60
58:BZ:99:TYR:HA	58:BZ:125:LEU:HA	1.83	0.60
4:CD:117:ALA:O	4:CD:121:VAL:HG23	2.00	0.60
5:CE:76:ILE:HD11	5:CE:142:LEU:CD2	2.28	0.60
10:CJ:6:ILE:HG22	10:CJ:98:ILE:CG1	2.30	0.60
16:CP:74:LEU:O	16:CP:79:VAL:HG23	2.01	0.60
20:CT:82:SER:O	20:CT:86:ARG:HB2	2.01	0.60
20:CT:79:ARG:HA	20:CT:82:SER:OG	2.01	0.60
1:CA:1325:C:H4'	21:CU:17:THR:HG21	1.81	0.60
24:CY:137:LEU:HD12	24:CY:167:ALA:HB1	1.82	0.60
29:D4:14:ILE:HD11	29:D4:24:THR:OG1	2.00	0.60
35:DA:1854:A:H62	35:DA:1888:G:H8	1.49	0.60
35:DA:893:C:H2'	35:DA:894:C:H6	1.63	0.60
38:DD:24:ILE:HD13	38:DD:25:THR:N	2.16	0.60
43:DI:90:GLY:O	43:DI:121:LYS:HD2	2.02	0.60
52:DT:78:LEU:C	52:DT:79:HIS:ND1	2.54	0.60
57:DY:7:VAL:HG21	57:DY:8:LYS:NZ	2.16	0.60
1:AA:1442(B):A:OP1	1:AA:1442(B):A:H4'	2.01	0.60
1:AA:373:A:O2'	1:AA:374:A:H5'	2.02	0.60
1:AA:457:C:H2'	1:AA:458:C:H6	1.65	0.60
2:AB:32:ILE:HD12	2:AB:40:HIS:CD2	2.36	0.60
4:AD:30:LYS:HB3	4:AD:35:ARG:CZ	2.31	0.60
22:AV:32:U:H5'	22:AV:33:U:OP2	2.00	0.60
24:AY:39:TRP:CE3	24:AY:45:ALA:HB1	2.35	0.60
35:BA:1720:U:H2'	35:BA:1721:G:O4'	2.01	0.60
35:BA:2543:G:H2'	35:BA:2544:G:C8	2.37	0.60
24:AY:233:ARG:HD3	35:BA:2573:C:N4	2.16	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:271(U):G:O2'	35:BA:271(V):G:H5'	2.01	0.60
35:BA:654(T):C:H2'	35:BA:654(U):A:C4'	2.31	0.60
35:BA:92:A:H3'	35:BA:93:G:H8	1.67	0.60
39:BE:11:MET:HB2	39:BE:23:VAL:O	2.01	0.60
45:BK:103:GLN:HA	45:BK:106:GLU:OE1	2.01	0.60
45:BK:18:THR:HA	45:BK:38:VAL:HG12	1.83	0.60
52:BT:102:ILE:HB	52:BT:110:ILE:CD1	2.30	0.60
1:CA:1346:A:N1	1:CA:1374:A:H5''	2.16	0.60
1:CA:137:C:H1'	16:CP:63:GLY:HA3	1.84	0.60
1:CA:180:U:H2'	1:CA:181:G:H5''	1.83	0.60
2:CB:18:GLY:HA2	2:CB:42:ILE:HG22	1.83	0.60
4:CD:30:LYS:HB3	4:CD:35:ARG:CZ	2.31	0.60
8:CH:40:ALA:O	8:CH:42:GLU:N	2.35	0.60
9:CI:43:ALA:HA	9:CI:74:ILE:HG21	1.82	0.60
12:CL:82:VAL:HG23	12:CL:106:ASP:OD2	2.01	0.60
18:CR:52:PRO:O	18:CR:56:THR:HG23	2.01	0.60
31:D6:19:ARG:HG3	31:D6:20:ASN:H	1.64	0.60
35:DA:1048:A:H62	35:DA:1052:C:N4	1.99	0.60
35:DA:2591:C:OP2	38:DD:239:ARG:HB3	2.01	0.60
35:DA:2794:C:H2'	35:DA:2795:G:H8	1.66	0.60
35:DA:272(D):G:H1	35:DA:364:C:H42	1.50	0.60
41:DG:130:ASN:HB3	41:DG:160:VAL:HA	1.83	0.60
43:DI:81:VAL:HG11	43:DI:88:ILE:HD13	1.84	0.60
58:DZ:92:SER:O	58:DZ:93:ASP:HB3	2.01	0.60
1:AA:1243:C:N4	1:AA:1294:G:H22	1.98	0.60
1:AA:1435:G:H2'	1:AA:1436:U:H6	1.66	0.60
1:AA:413:G:H1'	1:AA:428:G:N2	2.17	0.60
1:AA:430:A:OP2	4:AD:8:VAL:HG22	2.01	0.60
1:AA:519:C:H2'	1:AA:520:A:H8	1.65	0.60
1:AA:522:C:H42	1:AA:528:C:H42	1.48	0.60
24:AY:150:GLN:O	24:AY:171:VAL:HG13	2.00	0.60
24:AY:8:GLN:NE2	24:AY:95:ALA:HB1	2.17	0.60
26:B1:20:ARG:HG2	26:B1:20:ARG:HH11	1.65	0.60
35:BA:1022:G:N2	35:BA:1142(A):A:C2	2.63	0.60
35:BA:1506:C:O2	35:BA:1506:C:H2'	2.00	0.60
35:BA:1529:G:H21	35:BA:1530:C:H5''	1.64	0.60
35:BA:212:G:O2'	35:BA:213:A:H5'	2.01	0.60
35:BA:2833:G:C3'	35:BA:2834:G:C5'	2.76	0.60
35:BA:953:A:O2'	35:BA:954:G:H5'	2.02	0.60
41:BG:131:TYR:H	41:BG:159:VAL:HG13	1.64	0.60
42:BH:12:PRO:O	42:BH:13:LYS:HB2	2.00	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:BK:17:ALA:HB3	45:BK:41:PHE:CE2	2.37	0.60
48:BP:29:LYS:HD2	48:BP:29:LYS:N	2.16	0.60
48:BP:40:SER:C	48:BP:41:ARG:HE	2.04	0.60
51:BS:13:ARG:HG3	51:BS:14:VAL:N	2.03	0.60
58:BZ:20:ARG:CB	58:BZ:20:ARG:HH11	2.13	0.60
1:CA:543:C:H2'	1:CA:544:G:H8	1.66	0.60
1:CA:923:A:OP1	5:CE:21:ALA:HB2	2.02	0.60
1:CA:1439:C:H5'	20:CT:38:LYS:HZ1	1.66	0.60
22:CV:1:G:H2'	22:CV:2:C:C6	2.35	0.60
22:CV:40:C:H2'	22:CV:41:C:H6	1.65	0.60
30:D5:35:GLU:O	30:D5:36:CYS:HB3	2.00	0.60
35:DA:146:G:O2'	35:DA:147:U:H5'	2.02	0.60
35:DA:2134:A:N6	35:DA:2157:G:H1'	2.16	0.60
35:DA:2184:G:H2'	35:DA:2185:C:C6	2.37	0.60
35:DA:304:G:H2'	35:DA:305:U:C6	2.36	0.60
45:DK:103:GLN:HA	45:DK:106:GLU:OE1	2.01	0.60
53:DU:117:GLN:HE21	53:DU:117:GLN:CA	2.09	0.60
1:AA:1270:C:O2'	1:AA:1271:G:H5'	2.01	0.60
3:AC:6:HIS:CD2	3:AC:7:PRO:HD2	2.28	0.60
6:AF:33:TYR:HE2	6:AF:74:ASP:HB2	1.66	0.60
6:AF:75:LEU:O	6:AF:79:LEU:HG	2.01	0.60
7:AG:148:ASN:C	7:AG:150:ALA:H	2.05	0.60
10:AJ:38:ILE:HG13	10:AJ:71:LEU:HB3	1.82	0.60
17:AQ:12:SER:HB3	17:AQ:20:THR:HB	1.84	0.60
1:AA:1318:A:H1'	19:AS:37:ARG:HH21	1.66	0.60
24:AY:18:ASP:HB3	24:AY:22:LYS:HZ2	1.65	0.60
25:B0:74:ARG:HH11	25:B0:74:ARG:HG3	1.66	0.60
26:B1:71:TYR:C	26:B1:73:LEU:H	2.04	0.60
29:B4:20:ASN:ND2	29:B4:21:VAL:N	2.46	0.60
35:BA:1204:A:N1	35:BA:1241:A:H2	2.00	0.60
35:BA:156:U:H5''	35:BA:158:U:H5	1.67	0.60
35:BA:2732:G:H3'	35:BA:2733:A:C5'	2.32	0.60
43:BI:92:VAL:HG13	43:BI:120:ILE:HB	1.82	0.60
46:BN:99:LEU:HD12	46:BN:122:VAL:HG21	1.81	0.60
52:BT:41:ARG:NH2	52:BT:43:GLN:HG3	2.16	0.60
54:BV:47:VAL:HG12	54:BV:52:VAL:N	2.17	0.60
57:BY:80:GLY:O	57:BY:81:LYS:HB2	2.00	0.60
58:BZ:153:SER:HB3	58:BZ:167:PRO:CB	2.32	0.60
1:CA:1498:U:C5	23:CX:17:U:H5'	2.36	0.60
4:CD:22:LYS:HG3	4:CD:26:CYS:SG	2.41	0.60
6:CF:7:ASN:HD21	18:CR:34:TYR:HE1	1.49	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:CJ:63:PHE:HA	14:CN:59:ALA:H	1.66	0.60
10:CJ:38:ILE:HG12	10:CJ:71:LEU:O	2.00	0.60
24:CY:135:MET:HB3	24:CY:138:ARG:HH12	1.65	0.60
33:D8:49:VAL:O	33:D8:53:PRO:HG3	2.01	0.60
35:DA:2182:G:H2'	35:DA:2183:C:C6	2.36	0.60
26:D1:26:ARG:HH22	35:DA:389:G:H5''	1.65	0.60
41:DG:162:THR:O	41:DG:162:THR:CG2	2.48	0.60
43:DI:5:LEU:C	43:DI:6:LEU:HG	2.21	0.60
45:DK:84:LEU:HD23	45:DK:84:LEU:H	1.66	0.60
58:DZ:153:SER:HG	58:DZ:157:LEU:HD11	1.67	0.60
1:AA:1053:G:N7	1:AA:1200:C:H5''	2.16	0.60
1:AA:1320:C:H2'	1:AA:1321:C:O4'	2.01	0.60
3:AC:173:VAL:O	3:AC:175:LEU:HD12	2.02	0.60
4:AD:26:CYS:HA	4:AD:31:CYS:HA	1.82	0.60
22:AV:21:A:C2'	22:AV:22:G:H5''	2.31	0.60
24:AY:227:LEU:HD22	24:AY:251:VAL:CG1	2.30	0.60
28:B3:45:GLY:HA3	35:BA:851:U:O2'	2.02	0.60
35:BA:1021:A:C8	35:BA:1021:A:H3'	2.36	0.60
35:BA:1038:C:H42	35:BA:1117:G:H1	1.49	0.60
35:BA:2523:G:H2'	35:BA:2524:G:C5'	2.25	0.60
36:BB:15:A:O2'	36:BB:16:G:H5'	2.02	0.60
38:BD:35:LYS:O	38:BD:37:LEU:N	2.34	0.60
41:BG:140:ILE:HD12	41:BG:141:PHE:N	2.16	0.60
46:BN:19:GLU:CG	46:BN:20:GLY:N	2.63	0.60
48:BP:16:ARG:HH11	48:BP:16:ARG:CA	2.15	0.60
51:BS:95:HIS:O	51:BS:98:VAL:HG23	2.02	0.60
52:BT:98:LYS:HB3	52:BT:100:TYR:CE1	2.36	0.60
53:BU:110:VAL:O	53:BU:114:LYS:HG2	2.01	0.60
57:BY:28:LYS:HB3	57:BY:38:ILE:H	1.66	0.60
1:CA:1053:G:N7	1:CA:1200:C:H5''	2.16	0.60
1:CA:254:G:OP1	17:CQ:67:LYS:O	2.19	0.60
1:CA:1291:G:H4'	9:CI:38:GLN:O	2.01	0.60
9:CI:40:LEU:C	9:CI:42:ARG:H	2.05	0.60
13:CM:89:GLY:O	13:CM:93:ARG:HD2	2.02	0.60
24:CY:326:THR:HB	24:CY:347:ALA:HB1	1.83	0.60
24:CY:26:LEU:HB2	24:CY:55:LEU:HD11	1.83	0.60
31:D6:30:THR:HB	31:D6:31:PRO:CD	2.31	0.60
35:DA:1541:G:H4'	35:DA:1542:A:C5'	2.31	0.60
35:DA:27:G:H22	35:DA:512:G:C2'	2.15	0.60
46:DN:133:GLN:HG2	46:DN:134:ARG:N	2.11	0.60
47:DO:115:VAL:HG13	47:DO:121:VAL:HG21	1.82	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:DO:69:ILE:N	47:DO:69:ILE:HD12	2.17	0.60
49:DQ:21:THR:O	49:DQ:22:LYS:HB3	2.00	0.60
1:AA:994:A:N1	1:AA:1047:G:H4'	2.15	0.60
1:AA:1132:C:O2'	1:AA:1133:G:H5'	2.02	0.60
5:AE:10:MET:HA	5:AE:32:VAL:HG22	1.84	0.60
10:AJ:26:ALA:CA	10:AJ:29:ARG:HH12	2.14	0.60
10:AJ:50:ILE:N	10:AJ:50:ILE:HD13	2.07	0.60
17:AQ:82:MET:O	17:AQ:86:GLU:HG2	2.01	0.60
24:AY:343:ASP:HA	24:AY:346:TRP:HB2	1.83	0.60
35:BA:1070:A:H5'	35:BA:1072:C:OP2	2.01	0.60
35:BA:1845:G:H2'	35:BA:1846:G:C5'	2.14	0.60
35:BA:2184:G:H2'	35:BA:2185:C:C6	2.36	0.60
35:BA:2238:G:N3	35:BA:2238:G:H2'	2.17	0.60
35:BA:2327:A:H2'	35:BA:2328:A:C8	2.37	0.60
35:BA:286:C:O2'	35:BA:287:C:H5'	2.02	0.60
35:BA:654(G):C:H2'	35:BA:654(H):G:C8	2.37	0.60
38:BD:13:ARG:NH1	38:BD:16:MET:SD	2.75	0.60
38:BD:27:THR:HG23	38:BD:27:THR:O	2.01	0.60
39:BE:9:VAL:CG2	39:BE:25:VAL:HB	2.29	0.60
43:BI:140:LEU:HD23	43:BI:141:LYS:N	2.17	0.60
45:BK:109:LYS:HB3	45:BK:109:LYS:NZ	2.15	0.60
45:BK:23:VAL:CG1	45:BK:26:ALA:HB3	2.32	0.60
49:BQ:35:VAL:HG11	49:BQ:130:LYS:HE2	1.82	0.60
52:BT:16:ARG:NH1	52:BT:19:LEU:HD21	2.17	0.60
1:CA:1007:C:H2'	1:CA:1008:C:C6	2.36	0.60
1:CA:1188:A:H2'	1:CA:1189:C:O4'	2.02	0.60
1:CA:413:G:H1'	1:CA:428:G:N2	2.16	0.60
1:CA:519:C:H2'	1:CA:520:A:C8	2.36	0.60
2:CB:165:VAL:HG23	2:CB:166:ASP:N	2.14	0.60
4:CD:127:THR:HA	4:CD:132:ARG:HA	1.82	0.60
4:CD:13:ARG:O	4:CD:15:GLU:N	2.32	0.60
7:CG:148:ASN:C	7:CG:150:ALA:H	2.04	0.60
22:CV:77:PHA:N	22:CV:77:PHA:CD2	2.64	0.60
29:D4:10:VAL:HB	29:D4:11:PRO:HD2	1.83	0.60
33:D8:6:THR:CG2	35:DA:243:U:OP1	2.50	0.60
35:DA:1022:G:H22	35:DA:1142(A):A:H2	1.42	0.60
35:DA:1405:U:H2'	35:DA:1406:U:H6	1.65	0.60
35:DA:1590:U:H2'	35:DA:1591:G:C5'	2.16	0.60
35:DA:272(H):C:H2'	35:DA:272(I):U:H5'	1.83	0.60
35:DA:492:A:H2'	35:DA:493:G:O4'	2.02	0.60
36:DB:8:U:C5'	36:DB:8:U:H6	2.14	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:DD:71:ASP:CB	38:DD:103:ARG:HH22	2.13	0.60
41:DG:151:ALA:HB3	41:DG:153:ARG:NH1	2.17	0.60
42:DH:137:ASP:HB3	42:DH:140:LYS:HB2	1.84	0.60
42:DH:19:VAL:HG22	42:DH:24:VAL:HG23	1.83	0.60
51:DS:96:GLY:C	51:DS:98:VAL:H	2.05	0.60
52:DT:38:ASN:ND2	52:DT:39:ARG:H	1.98	0.60
57:DY:88:LYS:NZ	57:DY:93:GLY:CA	2.63	0.60
2:AB:117:GLU:HG2	2:AB:117:GLU:O	2.02	0.60
11:AK:22:HIS:HB3	11:AK:29:ILE:CG2	2.31	0.60
18:AR:53:ARG:C	18:AR:55:ARG:H	2.04	0.60
24:AY:83:GLU:C	24:AY:84:ARG:HD3	2.21	0.60
31:B6:15:GLU:CD	31:B6:18:ARG:HE	2.04	0.60
32:B7:9:ARG:HG3	35:BA:1309:G:OP1	2.01	0.60
35:BA:28:A:N6	35:BA:512:G:H1'	2.17	0.60
1:CA:1201:A:H1'	1:CA:1202:G:OP2	2.02	0.60
1:CA:430:A:OP2	4:CD:8:VAL:HG22	2.01	0.60
4:CD:26:CYS:HA	4:CD:31:CYS:HA	1.84	0.60
10:CJ:5:ARG:HA	10:CJ:73:ASP:OD1	2.01	0.60
16:CP:49:LEU:HD12	16:CP:50:LYS:H	1.66	0.60
17:CQ:82:MET:O	17:CQ:86:GLU:HG2	2.01	0.60
24:CY:239:GLY:O	24:CY:243:ASN:ND2	2.35	0.60
30:D5:35:GLU:O	30:D5:36:CYS:CB	2.49	0.60
35:DA:2524:G:C8	35:DA:2524:G:H5'	2.36	0.60
35:DA:2732:G:H3'	35:DA:2733:A:C5'	2.32	0.60
48:DP:16:ARG:CA	48:DP:16:ARG:HH11	2.15	0.60
49:DQ:62:GLY:HA3	49:DQ:109:VAL:HG23	1.84	0.60
35:DA:1011:G:H5''	53:DU:77:SER:HG	1.65	0.60
58:DZ:111:VAL:HG23	58:DZ:111:VAL:O	2.02	0.60
58:DZ:56:VAL:HG22	58:DZ:70:LEU:HD21	1.83	0.60
5:AE:31:LEU:HD21	5:AE:43:LEU:HD11	1.83	0.60
1:AA:1291:G:H4'	9:AI:38:GLN:O	2.02	0.60
11:AK:92:GLU:HG3	11:AK:96:ARG:HD2	1.82	0.60
14:AN:12:ARG:NH1	14:AN:12:ARG:HB2	2.17	0.60
29:B4:10:VAL:HB	29:B4:11:PRO:HD2	1.84	0.60
35:BA:1173:G:C3'	35:BA:1174:A:H5'	2.27	0.60
35:BA:1885:A:H3'	35:BA:1886:C:C6	2.37	0.60
35:BA:1907:G:O2'	35:BA:1908:C:H5'	2.02	0.60
35:BA:1910:G:O2'	35:BA:1911:U:H5'	2.02	0.60
35:BA:2031:A:C6	35:BA:2498:C:H1'	2.36	0.60
35:BA:272(H):C:H2'	35:BA:272(I):U:H5'	1.83	0.60
35:BA:272(H):C:H1'	35:BA:363(C):G:N2	2.17	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:492:A:H2'	35:BA:493:G:O4'	2.01	0.60
33:B8:2:PRO:HA	35:BA:591:C:O2	2.01	0.60
39:BE:117:MET:O	39:BE:118:LYS:HB2	2.02	0.60
42:BH:121:ILE:HD13	42:BH:144:VAL:HG21	1.83	0.60
43:BI:60:GLU:HG3	43:BI:61:ARG:HD3	1.84	0.60
49:BQ:111:GLU:O	49:BQ:115:MET:HG2	2.01	0.60
49:BQ:118:LEU:HD12	49:BQ:131:ILE:HG23	1.83	0.60
49:BQ:56:ARG:NH1	58:BZ:180:VAL:HG13	2.17	0.60
1:CA:999:C:O2'	1:CA:1000:U:H5'	2.01	0.60
1:CA:1026:G:H3'	1:CA:1027:C:H5'	1.84	0.60
1:CA:1269:A:H5'	21:CU:18:TYR:O	2.02	0.60
1:CA:684:A:H2'	1:CA:685:G:C8	2.37	0.60
1:CA:69:G:H2'	1:CA:70:G:C8	2.36	0.60
17:CQ:67:LYS:HA	17:CQ:70:ARG:HH12	1.66	0.60
20:CT:23:ARG:O	20:CT:27:LYS:HB2	2.01	0.60
24:CY:6:LEU:C	24:CY:8:GLN:H	2.04	0.60
26:D1:82:LEU:H	26:D1:82:LEU:HD23	1.67	0.60
31:D6:19:ARG:HG3	31:D6:20:ASN:N	2.17	0.60
35:DA:2193:G:H5'	35:DA:2193:G:H8	1.67	0.60
35:DA:559:G:H22	53:DU:49:HIS:CD2	2.19	0.60
43:DI:25:TYR:CE1	43:DI:30:LEU:HD21	2.36	0.60
43:DI:6:LEU:HD11	43:DI:36:ALA:HA	1.84	0.60
45:DK:54:PRO:HG3	45:DK:71:THR:O	2.02	0.60
48:DP:114:ILE:HD12	48:DP:115:LEU:N	2.17	0.60
48:DP:23:PRO:HB2	48:DP:33:ARG:HD2	1.84	0.60
51:DS:14:VAL:HG12	51:DS:16:ASN:H	1.66	0.60
58:DZ:77:ASP:O	58:DZ:79:ARG:N	2.35	0.60
1:AA:882:C:O2'	1:AA:883:C:H5'	2.02	0.60
2:AB:96:ARG:N	2:AB:96:ARG:HD2	2.17	0.60
4:AD:8:VAL:HG11	4:AD:115:ARG:NH1	2.17	0.60
4:AD:129:ASN:ND2	4:AD:145:GLU:H	1.99	0.60
12:AL:60:LEU:C	12:AL:62:SER:H	2.05	0.60
1:AA:137:C:H1'	16:AP:63:GLY:HA3	1.84	0.60
22:AV:77:PHA:N	22:AV:77:PHA:CD2	2.63	0.60
35:BA:1181:C:O2'	35:BA:1182:A:H5'	2.01	0.60
35:BA:1209:G:H21	35:BA:1210:A:H62	1.47	0.60
35:BA:2201:C:O2'	35:BA:2202:C:H5'	2.00	0.60
35:BA:89:G:OP2	35:BA:90:U:H2'	2.02	0.60
35:BA:991:C:H6	35:BA:991:C:H5'	1.67	0.60
38:BD:142:VAL:HG23	38:BD:192:THR:C	2.22	0.60
41:BG:106:LEU:HD12	41:BG:110:ALA:CB	2.32	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:BG:111:LEU:HA	41:BG:114:ILE:CD1	2.32	0.60
41:BG:170:ARG:NH2	41:BG:182:LYS:NZ	2.50	0.60
41:BG:41:GLN:HE22	41:BG:153:ARG:HD2	1.67	0.60
42:BH:19:VAL:HG22	42:BH:24:VAL:HG23	1.84	0.60
43:BI:62:LYS:HE2	43:BI:133:HIS:CD2	2.36	0.60
46:BN:133:GLN:HG2	46:BN:134:ARG:N	2.11	0.60
54:BV:19:LYS:CE	54:BV:20:LEU:H	2.15	0.60
58:BZ:126:VAL:HA	58:BZ:163:LEU:HA	1.83	0.60
58:BZ:157:LEU:CD2	58:BZ:163:LEU:HD22	2.32	0.60
58:BZ:53:ILE:HG22	58:BZ:71:VAL:HB	1.84	0.60
1:CA:402:G:O2'	1:CA:403:C:H5'	2.01	0.60
4:CD:173:TRP:CZ3	4:CD:193:ASP:HB3	2.37	0.60
7:CG:78:ARG:HG2	7:CG:79:ARG:N	2.16	0.60
8:CH:20:TYR:HE2	8:CH:75:ARG:HD2	1.66	0.60
13:CM:13:LYS:HA	13:CM:44:ARG:HH11	1.65	0.60
22:CV:73:A:H5'	22:CV:73:A:N3	2.16	0.60
35:DA:174:C:C3'	35:DA:175:G:H5''	2.31	0.60
35:DA:271(C):C:H2'	35:DA:271(D):G:H8	1.65	0.60
27:D2:47:ASN:ND2	35:DA:94(A):G:H21	2.00	0.60
38:DD:165:ILE:HD13	38:DD:175:LEU:CD2	2.32	0.60
39:DE:24:THR:HG22	39:DE:186:GLY:CA	2.30	0.60
39:DE:60:ASN:OD1	39:DE:62:PRO:HD2	2.02	0.60
41:DG:113:ARG:O	41:DG:140:ILE:HG13	2.02	0.60
45:DK:17:ALA:HB3	45:DK:41:PHE:HE2	1.67	0.60
49:DQ:15:GLY:O	49:DQ:16:ARG:HG2	2.02	0.60
50:DR:38:VAL:HB	50:DR:39:PRO:HD3	1.84	0.60
1:AA:100:C:H2'	1:AA:101:A:C8	2.37	0.59
1:AA:397:A:H5'	1:AA:398:C:OP1	2.02	0.59
1:AA:503:C:H2'	1:AA:504:C:C6	2.35	0.59
3:AC:104:GLN:CD	3:AC:105:GLU:H	2.05	0.59
3:AC:175:LEU:HD21	3:AC:201:TYR:CE2	2.36	0.59
4:AD:58:LEU:HD23	4:AD:62:GLN:HG2	1.84	0.59
10:AJ:6:ILE:O	10:AJ:71:LEU:HD12	2.01	0.59
21:AU:25:LYS:HG2	21:AU:26:LYS:N	2.16	0.59
25:B0:11:ARG:O	25:B0:14:ARG:NH2	2.35	0.59
30:B5:37:LYS:HG3	30:B5:37:LYS:O	2.01	0.59
35:BA:1884:A:H2'	35:BA:1885:A:C5'	2.27	0.59
35:BA:2093:G:O5'	43:BI:24:GLY:HA3	2.02	0.59
35:BA:576:U:H2'	35:BA:577:G:C8	2.37	0.59
35:BA:2306:C:N3	41:BG:43:LEU:HA	2.17	0.59
42:BH:83:TYR:HB3	42:BH:134:SER:HA	1.84	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:BI:62:LYS:HG2	43:BI:133:HIS:CD2	2.36	0.59
48:BP:32:THR:CG2	48:BP:37:GLY:HA2	2.32	0.59
51:BS:95:HIS:CG	51:BS:96:GLY:N	2.70	0.59
1:CA:1438:G:H2'	1:CA:1439:C:C6	2.37	0.59
1:CA:373:A:O2'	1:CA:374:A:H5'	2.01	0.59
1:CA:433:C:H2'	1:CA:434:U:C6	2.37	0.59
3:CC:73:PRO:O	3:CC:76:VAL:HG13	2.02	0.59
4:CD:13:ARG:NH1	4:CD:38:TYR:O	2.34	0.59
13:CM:108:ARG:N	13:CM:108:ARG:HD2	2.17	0.59
13:CM:123:ALA:HB1	24:CY:162:ALA:HB2	1.82	0.59
19:CS:19:VAL:O	19:CS:22:LEU:HB2	2.02	0.59
26:D1:45:ASN:C	26:D1:45:ASN:HD22	2.03	0.59
35:DA:156:U:H5''	35:DA:158:U:H5	1.66	0.59
35:DA:1910:G:O2'	35:DA:1911:U:H5'	2.02	0.59
35:DA:2098:U:H2'	35:DA:2099:U:O4'	2.02	0.59
35:DA:2732:G:C3'	35:DA:2733:A:H5'	2.31	0.59
39:DE:34:VAL:HG13	39:DE:48:GLN:HE21	1.66	0.59
41:DG:88:ILE:N	41:DG:88:ILE:HD12	2.17	0.59
43:DI:109:ILE:HG13	43:DI:130:TYR:OH	2.02	0.59
45:DK:23:VAL:CG1	45:DK:26:ALA:HB3	2.30	0.59
52:DT:51:ARG:HG2	52:DT:52:ILE:N	2.17	0.59
2:AB:235:SER:HG	2:AB:236:TYR:HD1	1.49	0.59
7:AG:78:ARG:HG2	7:AG:79:ARG:N	2.16	0.59
10:AJ:6:ILE:HG22	10:AJ:98:ILE:CG1	2.30	0.59
16:AP:74:LEU:O	16:AP:79:VAL:HG23	2.02	0.59
19:AS:29:ARG:HD2	19:AS:30:LEU:N	2.15	0.59
30:B5:35:GLU:O	30:B5:36:CYS:CB	2.50	0.59
35:BA:1573:G:H2'	35:BA:1574:C:H5'	1.83	0.59
39:BE:175:VAL:HG22	39:BE:177:PRO:HD3	1.83	0.59
35:BA:597:U:H4'	48:BP:15:ARG:NH1	2.17	0.59
53:BU:66:ASN:HD21	53:BU:76:TYR:H	1.49	0.59
1:CA:1137:C:H4'	1:CA:1138:G:N2	2.17	0.59
1:CA:1432:G:OP1	52:DT:107:ASP:HB2	2.02	0.59
1:CA:1442(A):G:H3'	1:CA:1442(B):A:H5'	1.84	0.59
1:CA:590:C:H2'	1:CA:591:U:C6	2.33	0.59
2:CB:8:LYS:HD3	2:CB:217:ARG:NH1	2.17	0.59
7:CG:36:LYS:HB2	7:CG:36:LYS:NZ	2.17	0.59
17:CQ:76:LEU:HD12	17:CQ:77:VAL:H	1.66	0.59
24:CY:128:GLU:HG2	24:CY:204:SER:OG	2.03	0.59
24:CY:196:ASP:OD1	24:CY:200:ARG:HB2	2.02	0.59
24:CY:214:VAL:HG13	24:CY:215:ASP:N	2.17	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:D1:44:PRO:HB2	26:D1:46:LEU:CD1	2.32	0.59
30:D5:48:GLU:C	30:D5:49:CYS:SG	2.81	0.59
35:DA:2168:G:N2	35:DA:2170:A:H3'	2.17	0.59
35:DA:2238:G:N3	35:DA:2238:G:H2'	2.16	0.59
35:DA:548:A:C3'	35:DA:549:G:H5'	2.32	0.59
35:DA:887:A:H1'	35:DA:889:C:N3	2.17	0.59
38:DD:165:ILE:HD13	38:DD:175:LEU:HD21	1.83	0.59
38:DD:24:ILE:CG2	38:DD:25:THR:H	2.11	0.59
45:DK:132:ARG:NH1	45:DK:132:ARG:HB3	2.18	0.59
46:DN:89:LYS:HB3	46:DN:89:LYS:NZ	2.17	0.59
48:DP:7:ARG:HA	48:DP:7:ARG:CZ	2.31	0.59
46:DN:2:LYS:HZ3	53:DU:95:LEU:HD21	1.62	0.59
58:DZ:137:ILE:HD11	58:DZ:158:PRO:HG2	1.83	0.59
1:AA:1026:G:H3'	1:AA:1027:C:H5'	1.84	0.59
1:AA:397:A:N3	1:AA:397:A:H3'	2.16	0.59
2:AB:88:ALA:HB2	2:AB:219:VAL:HG13	1.83	0.59
4:AD:126:ILE:HD12	4:AD:126:ILE:N	2.17	0.59
4:AD:100:ARG:CZ	4:AD:137:SER:HA	2.32	0.59
4:AD:14:ARG:HB2	4:AD:40:PRO:HD2	1.84	0.59
6:AF:68:PRO:CG	6:AF:71:ARG:HG3	2.32	0.59
10:AJ:16:LEU:HD13	10:AJ:70:ARG:HD2	1.84	0.59
11:AK:107:SER:C	11:AK:108:ILE:HD12	2.22	0.59
13:AM:126:LYS:N	24:AY:160:PRO:HG2	2.16	0.59
17:AQ:74:LEU:HD12	17:AQ:75:ARG:HG2	1.84	0.59
27:B2:16:LEU:O	27:B2:17:SER:HB3	2.00	0.59
35:BA:887:A:H1'	35:BA:889:C:N3	2.18	0.59
35:BA:969:U:H2'	35:BA:970:C:C6	2.38	0.59
39:BE:11:MET:HE3	39:BE:24:THR:HB	1.85	0.59
42:BH:109:PHE:C	42:BH:111:HIS:H	2.05	0.59
42:BH:137:ASP:HB3	42:BH:140:LYS:HB2	1.84	0.59
43:BI:12:LEU:N	43:BI:12:LEU:HD23	2.17	0.59
46:BN:16:ILE:HG23	46:BN:54:VAL:HG22	1.83	0.59
46:BN:35:ARG:O	46:BN:37:LYS:N	2.34	0.59
46:BN:55:VAL:HG22	46:BN:56:ASN:N	2.18	0.59
47:BO:98:VAL:HG13	47:BO:117:LEU:HB3	1.84	0.59
49:BQ:35:VAL:CG1	49:BQ:130:LYS:HE2	2.33	0.59
52:BT:78:LEU:C	52:BT:79:HIS:ND1	2.56	0.59
58:BZ:150:LEU:HD23	58:BZ:151:HIS:N	2.18	0.59
1:CA:1285:A:H1'	1:CA:1286:A:OP2	2.01	0.59
1:CA:194:C:C2'	1:CA:195:A:H5''	2.31	0.59
3:CC:70:VAL:O	3:CC:105:GLU:HA	2.02	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CC:75:VAL:O	3:CC:83:ARG:HG2	2.02	0.59
7:CG:129:GLU:OE2	7:CG:131:LYS:HE2	2.02	0.59
10:CJ:16:LEU:HD23	10:CJ:94:VAL:CG1	2.31	0.59
16:CP:43:LYS:HA	16:CP:48:TRP:HB3	1.84	0.59
30:D5:57:VAL:C	30:D5:58:LEU:HD12	2.22	0.59
35:DA:603:A:H4'	35:DA:604:G:O5'	2.02	0.59
36:DB:94:C:H2'	36:DB:95:C:H6	1.68	0.59
38:DD:166:GLN:HE21	38:DD:166:GLN:CA	2.15	0.59
35:DA:607:U:C5'	40:DF:103:LYS:HE3	2.32	0.59
41:DG:81:LYS:O	41:DG:82:LEU:O	2.20	0.59
45:DK:4:VAL:HG22	45:DK:5:VAL:N	2.12	0.59
48:DP:80:TYR:CZ	48:DP:111:ARG:HD3	2.36	0.59
48:DP:71:VAL:HG13	48:DP:72:PRO:CD	2.33	0.59
54:DV:46:VAL:CG1	54:DV:47:VAL:N	2.65	0.59
1:AA:1169:A:H2'	1:AA:1170:A:C8	2.37	0.59
1:AA:1264:C:H2'	1:AA:1265:G:H8	1.66	0.59
1:AA:402:G:O2'	1:AA:403:C:H5'	2.02	0.59
1:AA:950:U:H2'	1:AA:951:G:C8	2.36	0.59
2:AB:24:TRP:CZ3	2:AB:26:PRO:HA	2.37	0.59
10:AJ:37:PRO:HA	10:AJ:72:VAL:HG22	1.83	0.59
22:AV:39:U:H2'	22:AV:40:C:H6	1.66	0.59
22:AW:6:G:N2	22:AW:7:A:H62	2.01	0.59
24:AY:223:LYS:C	24:AY:225:GLU:H	2.06	0.59
24:AY:54:ARG:C	24:AY:56:ARG:H	2.04	0.59
27:B2:48:HIS:CE1	35:BA:96:G:C4'	2.86	0.59
35:BA:422:A:H2'	35:BA:423:A:C8	2.38	0.59
37:BC:41:THR:CG2	37:BC:175:PRO:HB2	2.32	0.59
38:BD:11:PRO:C	38:BD:13:ARG:H	2.05	0.59
38:BD:201:HIS:O	38:BD:204:ILE:HG12	2.02	0.59
41:BG:40:ASN:ND2	41:BG:41:GLN:N	2.50	0.59
41:BG:73:ALA:CB	41:BG:87:PRO:HG3	2.32	0.59
42:BH:19:VAL:HG21	42:BH:43:VAL:O	2.01	0.59
46:BN:123:TYR:OH	46:BN:130:HIS:HE1	1.84	0.59
35:BA:252:G:P	48:BP:50:ARG:HH11	2.25	0.59
47:BO:80:ASP:OD2	52:BT:64:ARG:NH2	2.34	0.59
1:CA:1161:C:H2'	1:CA:1162:C:C6	2.37	0.59
1:CA:16:A:O2'	1:CA:17:U:H5'	2.02	0.59
1:CA:377:G:OP1	16:CP:3:LYS:HD2	2.01	0.59
2:CB:20:GLU:HB2	2:CB:190:THR:OG1	2.01	0.59
3:CC:36:ASP:HB3	3:CC:40:ARG:NH1	2.15	0.59
4:CD:126:ILE:HD12	4:CD:126:ILE:N	2.17	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:CD:121:VAL:O	4:CD:134:ASP:HA	2.02	0.59
10:CJ:87:THR:C	10:CJ:89:ASP:H	2.06	0.59
19:CS:63:THR:HG22	19:CS:66:MET:SD	2.42	0.59
19:CS:66:MET:HA	19:CS:69:HIS:HD2	1.68	0.59
22:CV:20:U:H5'	22:CV:21:A:OP2	2.03	0.59
35:DA:1204:A:N1	35:DA:1241:A:H2	2.00	0.59
35:DA:1292:U:O2'	35:DA:1293:C:H5'	2.03	0.59
35:DA:2543:G:H2'	35:DA:2544:G:C8	2.38	0.59
35:DA:94:C:H5'	35:DA:94(A):G:OP2	2.03	0.59
43:DI:60:GLU:C	43:DI:62:LYS:H	2.06	0.59
47:DO:4:PRO:O	47:DO:5:GLN:CB	2.51	0.59
48:DP:40:SER:C	48:DP:41:ARG:HE	2.04	0.59
52:DT:41:ARG:NH2	52:DT:43:GLN:HG3	2.17	0.59
53:DU:66:ASN:HD21	53:DU:76:TYR:H	1.47	0.59
57:DY:38:ILE:HG23	57:DY:39:VAL:N	2.17	0.59
2:AB:172:ILE:H	2:AB:172:ILE:CD1	1.95	0.59
3:AC:70:VAL:O	3:AC:105:GLU:HA	2.01	0.59
3:AC:75:VAL:O	3:AC:83:ARG:HG2	2.02	0.59
7:AG:131:LYS:HG3	7:AG:131:LYS:O	2.01	0.59
19:AS:29:ARG:HD2	19:AS:29:ARG:N	2.15	0.59
21:AU:2:GLY:C	21:AU:4:GLY:H	2.06	0.59
27:B2:4:SER:HA	27:B2:7:ARG:NH1	2.15	0.59
35:BA:272(H):C:H2'	35:BA:272(I):U:H5'	1.83	0.59
35:BA:2811:G:OP1	39:BE:60:ASN:HB2	2.03	0.59
37:BC:184:GLU:O	37:BC:185:LYS:HE3	2.03	0.59
48:BP:7:ARG:HB2	48:BP:8:PRO:CD	2.32	0.59
58:BZ:19:ARG:HH12	58:BZ:84:GLU:HA	1.67	0.59
1:CA:1132:C:O2'	1:CA:1133:G:H5'	2.02	0.59
2:CB:18:GLY:H	2:CB:42:ILE:CG2	2.15	0.59
14:CN:12:ARG:NH1	14:CN:14:PRO:HD3	2.18	0.59
16:CP:28:ARG:NH1	16:CP:28:ARG:HG2	2.17	0.59
23:CX:19:U:O2	24:CY:126:GLY:HA3	2.02	0.59
24:CY:180:LEU:O	24:CY:210:VAL:HG21	2.02	0.59
31:D6:14:THR:O	31:D6:49:HIS:CB	2.45	0.59
31:D6:32:ASN:O	31:D6:33:LYS:HB2	2.03	0.59
35:DA:1070:A:H5'	35:DA:1072:C:OP2	2.02	0.59
35:DA:1265:A:OP1	35:DA:1265:A:H8	1.86	0.59
35:DA:1438:U:O2'	35:DA:1439:A:H5'	2.02	0.59
35:DA:1689:A:N6	35:DA:1698:A:H2	1.80	0.59
35:DA:1865:G:H5'	35:DA:1866:C:OP2	2.03	0.59
35:DA:394:A:O2'	35:DA:395:U:H5'	2.02	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:61:G:H1	35:DA:94:C:N4	1.99	0.59
38:DD:201:HIS:O	38:DD:204:ILE:HG12	2.02	0.59
38:DD:239:ARG:HG2	38:DD:239:ARG:HH21	1.68	0.59
38:DD:71:ASP:HB2	38:DD:103:ARG:NH2	2.17	0.59
39:DE:86:PRO:O	39:DE:88:GLY:N	2.35	0.59
39:DE:2:LYS:HD2	39:DE:95:ILE:HG23	1.83	0.59
42:DH:84:SER:O	42:DH:85:LYS:HB3	2.02	0.59
46:DN:43:THR:HB	46:DN:46:VAL:HG12	1.84	0.59
46:DN:55:VAL:HG22	46:DN:56:ASN:N	2.17	0.59
48:DP:124:LYS:HD3	48:DP:143:GLY:HA3	1.83	0.59
47:DO:77:ILE:HD11	52:DT:72:VAL:CG1	2.32	0.59
54:DV:18:LEU:HD22	54:DV:19:LYS:H	1.68	0.59
1:AA:1381:U:H5	1:AA:1382:C:C4	2.20	0.59
1:AA:194:C:C2'	1:AA:195:A:H5''	2.32	0.59
1:AA:512:U:H2'	1:AA:513:C:H6	1.68	0.59
1:AA:936:C:H2'	1:AA:937:A:C8	2.37	0.59
2:AB:218:ALA:O	2:AB:222:ILE:HG12	2.03	0.59
6:AF:1:MET:HB3	6:AF:66:GLU:HG2	1.85	0.59
11:AK:58:PRO:HD3	11:AK:89:ALA:HB1	1.84	0.59
13:AM:58:GLU:C	13:AM:60:VAL:H	2.06	0.59
20:AT:23:ARG:O	20:AT:27:LYS:HB2	2.02	0.59
24:AY:119:THR:HG23	24:AY:166:TYR:CE1	2.37	0.59
31:B6:17:LYS:O	31:B6:18:ARG:HB3	2.01	0.59
35:BA:2537:U:H2'	35:BA:2538:C:C6	2.37	0.59
40:BF:7:TYR:HD2	40:BF:16:GLY:H	1.50	0.59
52:BT:45:PHE:HE2	52:BT:63:VAL:HB	1.68	0.59
52:BT:77:PRO:O	52:BT:78:LEU:HB2	2.02	0.59
58:BZ:103:ARG:O	58:BZ:138:GLU:HA	2.02	0.59
1:CA:522:C:N4	1:CA:528:C:H42	2.01	0.59
1:CA:97:G:O2'	1:CA:98:G:H5''	2.01	0.59
8:CH:6:ILE:HD12	8:CH:6:ILE:N	2.17	0.59
10:CJ:16:LEU:HD13	10:CJ:70:ARG:HD2	1.83	0.59
12:CL:6:THR:H	12:CL:9:GLN:NE2	1.99	0.59
18:CR:25:THR:HG22	18:CR:42:ARG:NH1	2.18	0.59
22:CW:31:A:H2'	22:CW:32:U:H5'	1.85	0.59
33:D8:30:ARG:HA	33:D8:30:ARG:HE	1.68	0.59
35:DA:1419:A:O2'	35:DA:1420:U:H5''	2.03	0.59
35:DA:1720:U:H2'	35:DA:1721:G:O4'	2.02	0.59
35:DA:2292:C:O2'	35:DA:2293:C:H5'	2.01	0.59
35:DA:654(G):C:H2'	35:DA:654(H):G:C8	2.37	0.59
35:DA:779:U:OP1	38:DD:49:ILE:HG22	2.01	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:969:U:H2'	35:DA:970:C:C6	2.37	0.59
41:DG:73:ALA:HB3	41:DG:87:PRO:HG2	1.83	0.59
45:DK:55:VAL:HG13	45:DK:69:THR:HA	1.85	0.59
35:DA:626:U:C2	48:DP:105:LEU:HG	2.36	0.59
48:DP:101:VAL:HG12	48:DP:106:LEU:HB3	1.84	0.59
56:DX:64:LYS:NZ	56:DX:73:ARG:HH21	1.99	0.59
58:DZ:139:VAL:HG21	58:DZ:155:LEU:HD12	1.84	0.59
1:AA:1030:C:C2'	1:AA:1030(A):G:H5'	2.32	0.59
1:AA:1188:A:H2'	1:AA:1189:C:O4'	2.01	0.59
1:AA:1305:G:OP1	21:AU:2:GLY:HA3	2.02	0.59
2:AB:20:GLU:HB2	2:AB:190:THR:OG1	2.03	0.59
5:AE:41:VAL:CG2	5:AE:113:ALA:HA	2.32	0.59
5:AE:6:PHE:HD1	5:AE:63:ARG:NH1	2.01	0.59
22:AW:68:C:H2'	22:AW:69:G:C8	2.35	0.59
30:B5:57:VAL:C	30:B5:58:LEU:HD12	2.23	0.59
35:BA:1665:A:H4'	47:BO:67:LYS:HB2	1.85	0.59
35:BA:2098:U:H2'	35:BA:2099:U:O4'	2.03	0.59
35:BA:315:G:H2'	35:BA:316:C:C6	2.37	0.59
41:BG:17:PRO:HA	41:BG:20:ILE:CD1	2.31	0.59
43:BI:92:VAL:CG1	43:BI:120:ILE:HD12	2.32	0.59
45:BK:131:ALA:HA	45:BK:136:VAL:CG2	2.32	0.59
47:BO:64:ARG:O	47:BO:82:ASN:HA	2.03	0.59
35:BA:2875:C:O2'	52:BT:5:ALA:HB3	2.02	0.59
57:BY:96:ILE:HD12	57:BY:99:CYS:CB	2.33	0.59
58:BZ:166:SER:H	58:BZ:167:PRO:HA	1.67	0.59
1:CA:954:G:H21	1:CA:1227:A:N6	1.98	0.59
1:CA:950:U:H2'	1:CA:951:G:C8	2.38	0.59
13:CM:108:ARG:CZ	13:CM:114:ARG:HG2	2.32	0.59
1:CA:1318:A:H1'	19:CS:37:ARG:HH21	1.65	0.59
24:CY:99:ASP:O	24:CY:103:HIS:HB2	2.03	0.59
30:D5:51:TYR:HD2	30:D5:52:TYR:HH	1.45	0.59
35:DA:1188:U:O2'	35:DA:1189:A:H5'	2.02	0.59
32:D7:9:ARG:HG3	35:DA:1309:G:OP1	2.02	0.59
35:DA:272(H):C:H2'	35:DA:272(I):U:H5''	1.84	0.59
37:DC:41:THR:CG2	37:DC:175:PRO:HB2	2.32	0.59
39:DE:77:ILE:HG22	39:DE:78:LEU:HG	1.83	0.59
42:DH:90:LYS:O	42:DH:94:TYR:HB2	2.03	0.59
43:DI:128:LEU:H	43:DI:128:LEU:HD22	1.68	0.59
45:DK:19:PRO:HB2	45:DK:21:PRO:HD2	1.83	0.59
46:DN:56:ASN:H	46:DN:125:GLY:HA3	1.68	0.59
48:DP:56:SER:C	48:DP:57:THR:HG1	2.06	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1161:C:H2'	1:AA:1162:C:C6	2.38	0.59
1:AA:1505:G:C5'	1:AA:1506:U:H5''	2.30	0.59
1:AA:156:G:O2'	1:AA:157:G:H5'	2.03	0.59
1:AA:477:A:O2'	1:AA:479:C:H5'	2.02	0.59
1:AA:673:G:H2'	1:AA:674:G:H8	1.60	0.59
1:AA:69:G:H2'	1:AA:70:G:C8	2.37	0.59
2:AB:8:LYS:HD3	2:AB:217:ARG:NH1	2.18	0.59
4:AD:14:ARG:HA	4:AD:39:PRO:HB3	1.85	0.59
4:AD:65:ARG:HD2	4:AD:72:GLU:HA	1.84	0.59
7:AG:129:GLU:OE2	7:AG:131:LYS:HE2	2.02	0.59
7:AG:36:LYS:NZ	7:AG:36:LYS:HB2	2.18	0.59
8:AH:51:VAL:CG1	8:AH:60:ARG:HB2	2.33	0.59
10:AJ:44:VAL:HG12	10:AJ:46:ARG:HD2	1.84	0.59
10:AJ:48:THR:HA	10:AJ:62:HIS:CB	2.32	0.59
13:AM:82:MET:HB2	13:AM:93:ARG:CZ	2.32	0.59
13:AM:88:ARG:CA	13:AM:98:VAL:HG11	2.24	0.59
15:AO:82:ILE:HG12	15:AO:87:ILE:HG13	1.84	0.59
27:B2:47:ASN:ND2	35:BA:94(A):G:N3	2.50	0.59
35:BA:1021:A:H8	35:BA:1021:A:H3'	1.68	0.59
35:BA:2136:C:N4	35:BA:2155:G:H22	2.01	0.59
45:BK:12:LEU:HD13	45:BK:41:PHE:CE1	2.38	0.59
45:BK:17:ALA:HB3	45:BK:41:PHE:HE2	1.66	0.59
51:BS:89:ARG:HB3	51:BS:92:TYR:HB3	1.83	0.59
47:BO:107:ARG:NH1	52:BT:35:LYS:HD2	2.18	0.59
54:BV:2:PHE:O	54:BV:14:VAL:O	2.21	0.59
58:BZ:150:LEU:O	58:BZ:151:HIS:HB3	2.02	0.59
58:BZ:153:SER:H	58:BZ:167:PRO:HB2	1.66	0.59
58:BZ:175:VAL:HB	58:BZ:176:PRO:HD2	1.85	0.59
1:CA:1423:G:P	47:DO:49:ARG:HH12	2.25	0.59
1:CA:477:A:O2'	1:CA:479:C:H5'	2.03	0.59
1:CA:975:A:H5'	1:CA:975:A:H8	1.68	0.59
4:CD:128:VAL:HG12	4:CD:129:ASN:ND2	2.18	0.59
4:CD:100:ARG:CZ	4:CD:137:SER:HA	2.33	0.59
10:CJ:48:THR:HA	10:CJ:62:HIS:CB	2.33	0.59
12:CL:102:ARG:HD2	12:CL:108:ALA:O	2.03	0.59
12:CL:47:LYS:C	12:CL:47:LYS:HD2	2.23	0.59
19:CS:53:ASN:O	19:CS:77:THR:HG22	2.01	0.59
1:CA:1305:G:OP1	21:CU:2:GLY:HA3	2.02	0.59
31:D6:42:TRP:HA	31:D6:42:TRP:CE3	2.37	0.59
35:DA:93:G:H2'	35:DA:94:C:C6	2.37	0.59
38:DD:120:GLY:O	38:DD:131:LEU:HB3	2.03	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:DD:182:LEU:N	38:DD:272:ALA:HB3	2.18	0.59
41:DG:114:ILE:O	41:DG:115:ARG:C	2.40	0.59
43:DI:77:LEU:HD12	43:DI:101:LEU:CD2	2.32	0.59
45:DK:17:ALA:HB3	45:DK:41:PHE:CE2	2.37	0.59
35:DA:2415:G:O3'	48:DP:66:GLY:HA3	2.02	0.59
49:DQ:16:ARG:CB	49:DQ:18:LYS:HZ3	2.11	0.59
50:DR:7:GLY:C	50:DR:8:ARG:NE	2.56	0.59
55:DW:8:ARG:HG3	55:DW:8:ARG:NH1	2.18	0.59
57:DY:2:ARG:O	57:DY:4:LYS:N	2.36	0.59
1:AA:1137:C:H4'	1:AA:1138:G:N2	2.17	0.59
1:AA:37:U:O2'	1:AA:38:G:H5'	2.03	0.59
1:AA:975:A:H5'	1:AA:975:A:H8	1.68	0.59
3:AC:187:ALA:C	3:AC:188:LEU:HD22	2.23	0.59
10:AJ:87:THR:C	10:AJ:89:ASP:H	2.06	0.59
24:AY:132:TRP:CE2	24:AY:189:LEU:HB2	2.38	0.59
1:AA:1054:C:H41	24:AY:201:ARG:HB2	1.66	0.59
24:AY:241:GLY:HA2	24:AY:244:THR:CG2	2.27	0.59
31:B6:19:ARG:HG3	31:B6:20:ASN:N	2.18	0.59
35:BA:1265:A:OP1	35:BA:1265:A:H8	1.86	0.59
35:BA:2193:G:H8	35:BA:2193:G:H5'	1.68	0.59
35:BA:654(S):G:C5	35:BA:654(T):C:N4	2.71	0.59
36:BB:75:G:H22	58:BZ:73:GLN:HE21	1.51	0.59
39:BE:60:ASN:OD1	39:BE:62:PRO:HD2	2.02	0.59
45:BK:8:VAL:HG23	45:BK:57:ILE:HB	1.85	0.59
46:BN:15:LEU:HD13	46:BN:16:ILE:N	2.17	0.59
48:BP:18:ARG:HH11	48:BP:18:ARG:HB3	1.67	0.59
48:BP:58:THR:O	48:BP:61:ARG:CZ	2.50	0.59
49:BQ:67:ARG:HH11	49:BQ:67:ARG:HG2	1.68	0.59
54:BV:38:LEU:HD22	54:BV:52:VAL:HG22	1.83	0.59
58:BZ:184:ALA:O	58:BZ:185:GLU:HB2	2.02	0.59
1:CA:1030:C:C2'	1:CA:1030(A):G:H5'	2.32	0.59
1:CA:1270:C:O2'	1:CA:1271:G:H5'	2.02	0.59
1:CA:191:G:H1'	20:CT:105:SER:CB	2.33	0.59
1:CA:349:A:O2'	1:CA:350:G:H5'	2.03	0.59
3:CC:77:ILE:O	3:CC:83:ARG:HB3	2.03	0.59
5:CE:10:MET:HA	5:CE:32:VAL:HG22	1.84	0.59
10:CJ:90:LEU:N	10:CJ:91:PRO:HD3	2.18	0.59
13:CM:9:ILE:N	13:CM:9:ILE:HD12	2.17	0.59
17:CQ:52:LYS:H	17:CQ:52:LYS:HD2	1.67	0.59
18:CR:19:LYS:O	18:CR:20:ALA:HB2	2.02	0.59
24:CY:252:VAL:HG22	24:CY:259:THR:HB	1.84	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D4:14:ILE:HA	29:D4:31:ILE:HB	1.84	0.59
35:DA:2867:G:OP2	52:DT:119:LYS:NZ	2.35	0.59
36:DB:5:C:O2'	36:DB:6:C:H5'	2.02	0.59
39:DE:33:VAL:HG11	39:DE:89:ASP:HA	1.84	0.59
42:DH:74:ASN:HD22	42:DH:138:LYS:HD3	1.68	0.59
45:DK:84:LEU:HD22	45:DK:97:GLY:HA3	1.83	0.59
45:DK:93:ARG:H	58:DZ:112:ARG:NH1	2.01	0.59
56:DX:12:VAL:HG23	56:DX:13:LEU:N	2.13	0.59
2:AB:172:ILE:HD12	2:AB:172:ILE:N	2.03	0.59
19:AS:66:MET:HA	19:AS:69:HIS:HD2	1.67	0.59
22:AV:51:U:H2'	22:AV:52:G:H8	1.66	0.59
24:AY:341:LEU:CD2	24:AY:344:LEU:HD11	2.33	0.59
26:B1:27:GLU:OE2	26:B1:28:GLY:N	2.35	0.59
27:B2:43:GLN:O	27:B2:44:LEU:HB2	2.03	0.59
27:B2:57:ILE:O	27:B2:61:LEU:HG	2.03	0.59
29:B4:14:ILE:HA	29:B4:31:ILE:HB	1.85	0.59
31:B6:26:ASN:HD22	31:B6:32:ASN:ND2	2.00	0.59
33:B8:23:VAL:HG12	33:B8:46:ARG:NH1	2.18	0.59
35:BA:146:G:O2'	35:BA:147:U:H5'	2.02	0.59
35:BA:2161:C:H2'	35:BA:2162:G:H8	1.68	0.59
35:BA:654(S):G:H2'	35:BA:654(T):C:C4	2.38	0.59
36:BB:94:C:H2'	36:BB:95:C:H6	1.68	0.59
38:BD:71:ASP:HB2	38:BD:103:ARG:NH2	2.15	0.59
38:BD:118:VAL:HG22	38:BD:119:ALA:H	1.67	0.59
41:BG:139:LEU:HD12	41:BG:140:ILE:N	2.18	0.59
35:BA:2414:G:H21	48:BP:67:MET:CE	2.16	0.59
57:BY:7:VAL:HG21	57:BY:8:LYS:NZ	2.18	0.59
1:CA:1281:U:H4'	1:CA:1282:C:OP2	2.03	0.59
1:CA:156:G:O2'	1:CA:157:G:H5'	2.02	0.59
1:CA:336:C:H2'	1:CA:337:C:H6	1.67	0.59
2:CB:69:LEU:HD23	2:CB:159:PRO:HG2	1.85	0.59
5:CE:6:PHE:HD1	5:CE:63:ARG:NH1	2.00	0.59
6:CF:33:TYR:HE2	6:CF:74:ASP:HB2	1.68	0.59
7:CG:60:LYS:HD2	7:CG:60:LYS:N	2.18	0.59
14:CN:12:ARG:HB2	14:CN:12:ARG:NH1	2.17	0.59
17:CQ:74:LEU:HD12	17:CQ:75:ARG:HG2	1.84	0.59
7:CG:79:ARG:NH2	23:CX:14:A:H61	1.99	0.59
24:CY:13:LEU:O	24:CY:17:LEU:HG	2.03	0.59
13:CM:125:ARG:HD2	24:CY:165:ASP:CB	2.33	0.59
27:D2:64:LEU:HD23	27:D2:68:ARG:HD2	1.85	0.59
35:DA:2728:U:O2'	35:DA:2729:G:H5'	2.03	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:869:G:O2'	35:DA:870:A:H5'	2.02	0.59
37:DC:184:GLU:O	37:DC:185:LYS:HE3	2.02	0.59
43:DI:1:MET:O	43:DI:20:ASP:HA	2.03	0.59
43:DI:71:ILE:HG13	43:DI:72:LEU:CD2	2.33	0.59
43:DI:77:LEU:HD12	43:DI:101:LEU:HD22	1.85	0.59
45:DK:8:VAL:HG23	45:DK:57:ILE:HB	1.83	0.59
52:DT:83:ILE:HG13	52:DT:84:GLN:HG2	1.84	0.59
55:DW:82:LEU:HD23	55:DW:84:ARG:NH2	2.17	0.59
58:DZ:80:ARG:NE	58:DZ:80:ARG:HA	2.16	0.59
1:AA:1333:A:H2'	1:AA:1334:G:O4'	2.03	0.58
1:AA:522:C:N4	1:AA:528:C:H42	2.01	0.58
1:AA:543:C:H2'	1:AA:544:G:H8	1.67	0.58
3:AC:119:ARG:HG3	3:AC:119:ARG:HH11	1.68	0.58
1:AA:1112:C:C4	3:AC:178:LEU:HD23	2.38	0.58
3:AC:73:PRO:O	3:AC:76:VAL:HG13	2.03	0.58
7:AG:118:VAL:HG23	7:AG:119:ARG:H	1.67	0.58
10:AJ:90:LEU:N	10:AJ:91:PRO:HD3	2.18	0.58
12:AL:82:VAL:HG23	12:AL:106:ASP:OD2	2.03	0.58
13:AM:88:ARG:HA	13:AM:98:VAL:CG1	2.24	0.58
14:AN:12:ARG:NH1	14:AN:14:PRO:HD3	2.18	0.58
35:BA:2036:C:H5'	35:BA:2036:C:H6	1.67	0.58
41:BG:111:LEU:HB2	41:BG:112:PRO:HD3	1.85	0.58
51:BS:96:GLY:O	51:BS:98:VAL:N	2.29	0.58
57:BY:90:LEU:HD12	57:BY:91:GLU:OE2	2.03	0.58
1:CA:1496:C:H2'	1:CA:1497:G:O4'	2.01	0.58
1:CA:737:A:H2'	1:CA:738:C:H6	1.67	0.58
3:CC:53:ALA:HB2	3:CC:115:LEU:CD2	2.32	0.58
17:CQ:9:VAL:HG11	17:CQ:84:LEU:HD12	1.84	0.58
31:D6:33:LYS:O	31:D6:34:LEU:HB2	2.01	0.58
38:DD:43:ARG:HD2	38:DD:44:ASN:OD1	2.02	0.58
41:DG:95:ARG:O	41:DG:96:ARG:O	2.21	0.58
42:DH:17:VAL:HG11	42:DH:50:VAL:HG21	1.85	0.58
47:DO:87:ILE:CG2	47:DO:91:LEU:HA	2.33	0.58
49:DQ:118:LEU:HD12	49:DQ:131:ILE:HG23	1.84	0.58
51:DS:13:ARG:CG	51:DS:14:VAL:N	2.64	0.58
54:DV:81:TYR:C	54:DV:82:ARG:HD2	2.23	0.58
1:AA:552:U:O2'	1:AA:553:A:H5'	2.03	0.58
1:AA:692:U:H5	11:AK:26:ASN:HD22	1.50	0.58
3:AC:116:VAL:O	3:AC:119:ARG:HB3	2.03	0.58
8:AH:14:ARG:O	8:AH:18:ARG:HD3	2.03	0.58
1:AA:878:G:H5'	8:AH:89:PRO:CG	2.33	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:AY:123:GLY:HA3	24:AY:305:ILE:CG2	2.29	0.58
35:BA:1541:G:H1'	35:BA:1542:A:C4	2.38	0.58
35:BA:603:A:H4'	35:BA:604:G:O5'	2.02	0.58
37:BC:181:PHE:HD2	37:BC:185:LYS:HB3	1.68	0.58
38:BD:166:GLN:CA	38:BD:166:GLN:HE21	2.15	0.58
40:BF:185:ASP:HA	40:BF:188:ARG:HG2	1.85	0.58
42:BH:30:LYS:HG3	42:BH:80:SER:N	2.18	0.58
43:BI:62:LYS:HZ3	43:BI:134:PRO:HG2	1.67	0.58
45:BK:112:MET:N	45:BK:113:PRO:CD	2.59	0.58
45:BK:54:PRO:HG3	45:BK:71:THR:O	2.03	0.58
45:BK:84:LEU:HD22	45:BK:97:GLY:HA3	1.83	0.58
46:BN:43:THR:HB	46:BN:46:VAL:HG12	1.85	0.58
49:BQ:136:ALA:C	49:BQ:138:ASP:H	2.06	0.58
56:BX:7:VAL:HB	56:BX:8:ILE:HD12	1.85	0.58
1:CA:137:C:H1'	16:CP:63:GLY:CA	2.34	0.58
1:CA:1422:G:O3'	47:DO:49:ARG:NH1	2.36	0.58
2:CB:96:ARG:N	2:CB:96:ARG:HD2	2.18	0.58
18:CR:53:ARG:C	18:CR:55:ARG:H	2.05	0.58
1:CA:1439:C:H5'	20:CT:38:LYS:NZ	2.17	0.58
22:CV:50:U:H2'	22:CV:51:U:O4'	2.02	0.58
22:CV:55:U:N3	22:CV:57:G:H5''	2.18	0.58
31:D6:26:ASN:ND2	31:D6:32:ASN:HD21	2.01	0.58
35:DA:1885:A:H3'	35:DA:1886:C:C6	2.38	0.58
37:DC:6:LYS:C	37:DC:6:LYS:HD2	2.22	0.58
36:DB:45:A:H1'	41:DG:95:ARG:HH22	1.68	0.58
43:DI:113:ARG:HB2	43:DI:130:TYR:CE1	2.37	0.58
45:DK:131:ALA:HA	45:DK:136:VAL:CG2	2.33	0.58
50:DR:47:PHE:O	50:DR:51:LEU:HD13	2.02	0.58
54:DV:19:LYS:CE	54:DV:20:LEU:H	2.15	0.58
2:AB:236:TYR:HA	2:AB:239:VAL:CG2	2.33	0.58
9:AI:50:LEU:O	9:AI:53:VAL:HG22	2.02	0.58
12:AL:24:VAL:HG22	12:AL:97:ARG:HB3	1.84	0.58
13:AM:90:LEU:HD13	13:AM:94:ARG:NH2	2.18	0.58
14:AN:24:CYS:HB2	14:AN:29:ARG:HB3	1.86	0.58
24:AY:120:ILE:HG22	24:AY:133:ALA:HB1	1.85	0.58
24:AY:19:ILE:HG12	24:AY:62:PHE:CD1	2.38	0.58
27:B2:40:SER:C	27:B2:42:GLY:H	2.07	0.58
35:BA:363(A):A:H2'	35:BA:363(A):A:N3	2.18	0.58
35:BA:394:A:O2'	35:BA:395:U:H5'	2.03	0.58
38:BD:26:LYS:O	38:BD:27:THR:HB	2.04	0.58
39:BE:77:ILE:HG22	39:BE:78:LEU:HG	1.84	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:BH:24:VAL:CG1	42:BH:35:VAL:HB	2.33	0.58
45:BK:18:THR:H	45:BK:19:PRO:CD	2.16	0.58
46:BN:89:LYS:O	46:BN:93:THR:HG22	2.03	0.58
36:BB:92:C:OP1	49:BQ:19:GLY:HA3	2.02	0.58
52:BT:65:LYS:HE3	52:BT:66:VAL:H	1.68	0.58
57:BY:96:ILE:CG2	57:BY:97:ARG:H	2.06	0.58
1:CA:1030:C:H5	1:CA:1033:G:N1	2.01	0.58
1:CA:107:G:C2'	1:CA:108:G:H5'	2.33	0.58
1:CA:1152:A:H5''	10:CJ:13:HIS:HD2	1.67	0.58
1:CA:1169:A:H2'	1:CA:1170:A:C8	2.38	0.58
7:CG:118:VAL:HG23	7:CG:119:ARG:H	1.67	0.58
11:CK:22:HIS:HB3	11:CK:29:ILE:CG2	2.33	0.58
13:CM:126:LYS:N	24:CY:161:GLU:N	2.50	0.58
18:CR:38:GLU:HA	18:CR:41:LYS:HB3	1.84	0.58
35:DA:1022:G:N2	35:DA:1142(A):A:C2	2.62	0.58
35:DA:1177:A:H5''	35:DA:1178:C:O5'	2.04	0.58
35:DA:2136:C:N4	35:DA:2155:G:H22	2.01	0.58
35:DA:2463:C:O2'	35:DA:2464:C:H5'	2.02	0.58
41:DG:126:ASP:O	41:DG:128:ARG:NE	2.36	0.58
45:DK:12:LEU:HD13	45:DK:41:PHE:CE1	2.38	0.58
48:DP:16:ARG:O	48:DP:16:ARG:NH1	2.35	0.58
49:DQ:111:GLU:O	49:DQ:115:MET:HG2	2.03	0.58
49:DQ:35:VAL:CG1	49:DQ:130:LYS:HE2	2.33	0.58
51:DS:95:HIS:O	51:DS:98:VAL:HG23	2.04	0.58
52:DT:65:LYS:HE3	52:DT:66:VAL:H	1.68	0.58
53:DU:95:LEU:HD13	54:DV:4:ILE:HG23	1.85	0.58
55:DW:8:ARG:HG3	55:DW:8:ARG:HH11	1.68	0.58
1:AA:1030:C:H5	1:AA:1033:G:N1	2.01	0.58
1:AA:1269:A:H5'	21:AU:18:TYR:O	2.03	0.58
1:AA:377:G:OP1	16:AP:3:LYS:HD2	2.04	0.58
1:AA:594:G:H1	1:AA:645:C:H42	1.51	0.58
1:AA:707:C:O2'	1:AA:708:C:H5'	2.03	0.58
2:AB:164:VAL:O	2:AB:186:ALA:HB1	2.02	0.58
3:AC:53:ALA:HB2	3:AC:115:LEU:CD2	2.33	0.58
4:AD:127:THR:HA	4:AD:132:ARG:HA	1.85	0.58
4:AD:32:ALA:C	4:AD:35:ARG:HG3	2.23	0.58
5:AE:6:PHE:HB2	5:AE:34:VAL:CG2	2.32	0.58
24:AY:191:ARG:NE	24:AY:194:PRO:HD3	2.19	0.58
24:AY:209:GLU:HG2	24:AY:303:ARG:CZ	2.33	0.58
27:B2:45:SER:O	27:B2:46:GLN:NE2	2.37	0.58
31:B6:30:THR:HB	31:B6:31:PRO:CD	2.31	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:B8:32:LEU:HD12	35:BA:2391:G:OP1	2.03	0.58
35:BA:1278:A:O3'	50:BR:34:ILE:HD12	2.03	0.58
35:BA:2648:C:O2'	35:BA:2649:U:H5'	2.04	0.58
39:BE:69:LYS:O	39:BE:71:GLY:N	2.35	0.58
41:BG:60:LEU:O	41:BG:64:THR:HG22	2.03	0.58
41:BG:95:ARG:HH11	41:BG:95:ARG:HG2	1.69	0.58
43:BI:132:PRO:HG2	43:BI:133:HIS:ND1	2.18	0.58
48:BP:125:VAL:HG23	48:BP:125:VAL:O	2.02	0.58
50:BR:10:LEU:HD22	50:BR:17:ARG:HD2	1.84	0.58
1:CA:1053:G:C3'	1:CA:1054:C:H5'	2.34	0.58
1:CA:1218:C:H2'	1:CA:1219:U:C6	2.38	0.58
2:CB:117:GLU:HG2	2:CB:117:GLU:O	2.03	0.58
2:CB:172:ILE:HD12	2:CB:172:ILE:N	2.05	0.58
3:CC:53:ALA:O	3:CC:54:ARG:HB2	2.04	0.58
6:CF:45:LEU:HD23	6:CF:45:LEU:C	2.24	0.58
7:CG:22:LEU:HD23	7:CG:22:LEU:O	2.03	0.58
21:CU:2:GLY:C	21:CU:4:GLY:H	2.05	0.58
24:CY:120:ILE:HG23	24:CY:133:ALA:HB1	1.84	0.58
24:CY:272:LYS:O	24:CY:276:LEU:HG	2.04	0.58
24:CY:76:MET:CE	24:CY:88:LYS:HE2	2.33	0.58
29:D4:27:THR:C	29:D4:28:LYS:HG2	2.24	0.58
32:D7:24:THR:HG23	32:D7:27:GLY:HA3	1.85	0.58
35:DA:1721:G:H5'	35:DA:1722:A:OP2	2.04	0.58
35:DA:2832:U:H4'	35:DA:2833:G:H5''	1.86	0.58
35:DA:654(S):G:H2'	35:DA:654(T):C:C4	2.38	0.58
42:DH:109:PHE:C	42:DH:111:HIS:H	2.07	0.58
49:DQ:97:VAL:HG21	49:DQ:103:MET:HE2	1.85	0.58
52:DT:8:LYS:O	52:DT:11:GLU:HB3	2.03	0.58
35:DA:2876:G:H4'	52:DT:3:ARG:CD	2.32	0.58
56:DX:12:VAL:HG12	56:DX:27:THR:HG23	1.85	0.58
58:DZ:146:ILE:O	58:DZ:174:VAL:O	2.21	0.58
1:AA:369:C:O2'	1:AA:370:C:H5'	2.04	0.58
1:AA:512:U:H2'	1:AA:513:C:C6	2.38	0.58
2:AB:119:GLU:C	2:AB:121:LEU:H	2.06	0.58
4:AD:18:LYS:HE2	4:AD:31:CYS:HB2	1.86	0.58
4:AD:13:ARG:NH1	4:AD:38:TYR:O	2.37	0.58
9:AI:31:GLN:NE2	9:AI:36:TYR:HA	2.18	0.58
12:AL:47:LYS:C	12:AL:47:LYS:HD2	2.23	0.58
13:AM:108:ARG:N	13:AM:108:ARG:HD2	2.18	0.58
1:AA:134:A:H61	16:AP:25:ARG:NH1	2.02	0.58
17:AQ:67:LYS:HA	17:AQ:70:ARG:HH12	1.69	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:AR:19:LYS:O	18:AR:20:ALA:HB2	2.03	0.58
19:AS:6:LYS:CG	19:AS:7:LYS:HE3	2.24	0.58
26:B1:41:ARG:HH22	35:BA:1365:A:C5'	2.15	0.58
35:BA:1396:U:H2'	35:BA:1396:U:O2	2.02	0.58
35:BA:2869:G:H2'	35:BA:2870:C:H6	1.69	0.58
39:BE:92:THR:O	39:BE:95:ILE:HG12	2.04	0.58
40:BF:167:ALA:HB1	40:BF:173:VAL:HG11	1.86	0.58
40:BF:177:ALA:HB1	40:BF:178:PRO:HD2	1.86	0.58
43:BI:133:HIS:CB	43:BI:134:PRO:CD	2.80	0.58
48:BP:114:ILE:HD12	48:BP:115:LEU:N	2.18	0.58
51:BS:96:GLY:C	51:BS:98:VAL:H	2.06	0.58
58:BZ:19:ARG:HA	58:BZ:23:LYS:O	2.04	0.58
1:CA:1281:U:H5'	1:CA:1282:C:C5	2.38	0.58
1:CA:1320:C:H2'	1:CA:1321:C:O4'	2.03	0.58
2:CB:142:LEU:HD23	2:CB:142:LEU:O	2.03	0.58
9:CI:31:GLN:NE2	9:CI:36:TYR:HA	2.18	0.58
13:CM:82:MET:HB2	13:CM:93:ARG:CZ	2.32	0.58
13:CM:3:ARG:HG2	13:CM:9:ILE:HD11	1.85	0.58
22:CV:50:U:H3	22:CV:64:A:H61	1.50	0.58
22:CV:9:A:H8	22:CV:11:C:N4	2.02	0.58
24:CY:189:LEU:O	24:CY:203:THR:HA	2.03	0.58
24:CY:52:ALA:O	24:CY:55:LEU:HB2	2.03	0.58
35:DA:1113:U:H2'	35:DA:1114:G:C8	2.39	0.58
26:D1:45:ASN:HD21	35:DA:2090:G:H21	1.51	0.58
35:DA:2148:G:H2'	35:DA:2149:G:H8	1.68	0.58
35:DA:654(B):C:H2'	35:DA:654(C):G:N7	2.18	0.58
38:DD:142:VAL:HG23	38:DD:192:THR:C	2.23	0.58
39:DE:24:THR:HG23	39:DE:184:VAL:CG2	2.34	0.58
42:DH:30:LYS:HG3	42:DH:80:SER:N	2.19	0.58
42:DH:24:VAL:CG1	42:DH:35:VAL:HB	2.33	0.58
49:DQ:67:ARG:HG2	49:DQ:67:ARG:HH11	1.67	0.58
52:DT:16:ARG:NH1	52:DT:19:LEU:HD21	2.16	0.58
45:DK:93:ARG:H	58:DZ:112:ARG:CZ	2.16	0.58
2:AB:36:ARG:O	2:AB:37:ASN:HB3	2.03	0.58
8:AH:40:ALA:O	8:AH:42:GLU:N	2.36	0.58
13:AM:91:ARG:CB	13:AM:98:VAL:HG22	2.34	0.58
15:AO:82:ILE:HD13	15:AO:82:ILE:C	2.23	0.58
22:AV:71:G:C2'	22:AV:72:C:H5''	2.33	0.58
29:B4:27:THR:C	29:B4:28:LYS:HG2	2.23	0.58
35:BA:2691:C:H5'	35:BA:2691:C:H6	1.68	0.58
38:BD:118:VAL:HG22	38:BD:119:ALA:N	2.19	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:BD:43:ARG:HD2	38:BD:44:ASN:OD1	2.04	0.58
41:BG:66:GLN:HB3	41:BG:92:VAL:HG21	1.85	0.58
43:BI:116:LEU:HD12	43:BI:117:GLU:H	1.68	0.58
43:BI:115:ALA:HB3	43:BI:128:LEU:HD12	1.85	0.58
47:BO:87:ILE:CG2	47:BO:91:LEU:HA	2.33	0.58
49:BQ:62:GLY:HA3	49:BQ:109:VAL:HG23	1.83	0.58
1:CA:994:A:N1	1:CA:1047:G:H4'	2.18	0.58
1:CA:1134:G:C2'	1:CA:1135:U:H5'	2.34	0.58
2:CB:236:TYR:HA	2:CB:239:VAL:CG2	2.34	0.58
22:CV:20:U:C5	22:CV:21:A:H1'	2.39	0.58
29:D4:25:TYR:O	29:D4:26:SER:HB3	2.02	0.58
35:DA:1721:G:C6	35:DA:1739:U:H5'	2.38	0.58
35:DA:274:G:N3	35:DA:274:G:H2'	2.18	0.58
36:DB:55:U:O2'	36:DB:56:G:H5'	2.03	0.58
39:DE:134:ILE:HD12	39:DE:134:ILE:C	2.24	0.58
40:DF:3:GLU:HA	40:DF:24:LEU:CB	2.33	0.58
29:D4:26:SER:HB3	41:DG:105:LYS:HE2	1.85	0.58
41:DG:71:THR:CG2	41:DG:89:GLY:HA3	2.33	0.58
42:DH:44:VAL:O	42:DH:45:VAL:C	2.41	0.58
43:DI:82:ARG:HB2	43:DI:82:ARG:NH1	2.19	0.58
45:DK:18:THR:H	45:DK:19:PRO:CD	2.16	0.58
51:DS:56:LEU:O	51:DS:56:LEU:HD23	2.04	0.58
52:DT:48:ILE:HD12	52:DT:48:ILE:N	2.17	0.58
1:AA:1058:G:H2'	1:AA:1059:C:C6	2.39	0.58
1:AA:1281:U:H4'	1:AA:1282:C:OP2	2.04	0.58
1:AA:1410:G:H2'	1:AA:1411:C:C6	2.38	0.58
1:AA:867:G:O2'	1:AA:868:C:H5'	2.02	0.58
2:AB:132:LYS:HG3	2:AB:135:GLN:NE2	2.18	0.58
4:AD:28:SER:O	4:AD:30:LYS:N	2.36	0.58
1:AA:523:A:N6	12:AL:53:ARG:HH12	2.02	0.58
19:AS:10:PHE:HZ	19:AS:70:LYS:NZ	2.00	0.58
24:AY:211:ILE:CG2	24:AY:299:ARG:HG2	2.28	0.58
25:B0:16:SER:OG	35:BA:2261:C:H3'	2.03	0.58
35:BA:2524:G:C8	35:BA:2524:G:H5'	2.38	0.58
35:BA:2580:U:H5'	39:BE:131:ALA:HB2	1.85	0.58
35:BA:2728:U:O2'	35:BA:2729:G:H5'	2.04	0.58
35:BA:626:U:H5''	35:BA:627:A:H5'	1.85	0.58
48:BP:101:VAL:HG12	48:BP:106:LEU:HB3	1.84	0.58
55:BW:18:ARG:HG2	55:BW:18:ARG:HH11	1.68	0.58
57:BY:2:ARG:O	57:BY:4:LYS:N	2.37	0.58
1:CA:1234:C:O2'	1:CA:1235:U:H5'	2.03	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:358:U:H2'	1:CA:359:U:C6	2.39	0.58
1:CA:882:C:O2'	1:CA:883:C:H5'	2.04	0.58
2:CB:16:HIS:HB3	2:CB:210:SER:CB	2.33	0.58
2:CB:18:GLY:N	2:CB:42:ILE:HG22	2.19	0.58
6:CF:68:PRO:CG	6:CF:71:ARG:HG3	2.31	0.58
10:CJ:44:VAL:HG12	10:CJ:46:ARG:HD2	1.85	0.58
19:CS:29:ARG:HD2	19:CS:30:LEU:N	2.15	0.58
22:CW:16:U:N3	22:CW:18:G:H2'	2.18	0.58
24:CY:61:THR:HG21	24:CY:101:LEU:CD1	2.29	0.58
24:CY:270:LYS:NZ	25:D0:5:LYS:HD3	2.18	0.58
26:D1:3:LYS:HG2	26:D1:4:VAL:H	1.69	0.58
33:D8:23:VAL:HG12	33:D8:46:ARG:NH1	2.18	0.58
35:DA:218:A:C2	35:DA:235:U:H4'	2.39	0.58
35:DA:2811:G:OP1	39:DE:60:ASN:HB2	2.03	0.58
41:DG:116:ASP:O	41:DG:117:PHE:HB3	2.03	0.58
41:DG:39:ILE:HD12	41:DG:40:ASN:N	2.18	0.58
42:DH:88:LEU:HD12	42:DH:90:LYS:CE	2.33	0.58
1:AA:1030(D):A:H2'	1:AA:1031:G:H5'	1.84	0.58
1:AA:1327:C:H2'	1:AA:1328:C:C6	2.39	0.58
1:AA:433:C:H2'	1:AA:434:U:C6	2.38	0.58
1:AA:542:G:P	4:AD:10:ARG:HH22	2.26	0.58
1:AA:93:G:O2'	1:AA:96:U:H5'	2.04	0.58
3:AC:148:GLY:HA3	3:AC:172:ARG:O	2.04	0.58
4:AD:173:TRP:CZ3	4:AD:193:ASP:HB3	2.38	0.58
11:AK:29:ILE:CG1	11:AK:44:SER:HB3	2.31	0.58
25:B0:51:VAL:CG2	25:B0:81:VAL:HG23	2.34	0.58
30:B5:56:LYS:HG3	30:B5:59:GLU:OE2	2.04	0.58
31:B6:32:ASN:O	31:B6:33:LYS:HB2	2.03	0.58
35:BA:1771:C:HO2'	35:BA:1786:A:H8	1.51	0.58
35:BA:529:A:H62	35:BA:2041:U:H3	1.52	0.58
35:BA:2223:G:C2'	35:BA:2224:G:H5'	2.34	0.58
35:BA:94:C:H5'	35:BA:94(A):G:OP2	2.04	0.58
38:BD:168:ARG:HG3	38:BD:168:ARG:HH11	1.69	0.58
38:BD:210:GLY:O	38:BD:212:SER:N	2.34	0.58
39:BE:24:THR:HG23	39:BE:184:VAL:CG2	2.33	0.58
40:BF:140:LEU:HD13	40:BF:170:LEU:HD21	1.86	0.58
40:BF:3:GLU:HA	40:BF:24:LEU:CB	2.34	0.58
41:BG:18:GLU:O	41:BG:21:ARG:HB3	2.04	0.58
41:BG:61:ALA:HB2	41:BG:68:PRO:HD3	1.85	0.58
42:BH:88:LEU:HD12	42:BH:90:LYS:CE	2.33	0.58
45:BK:14:ALA:HB1	45:BK:50:ASP:HA	1.84	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
49:BQ:21:THR:O	49:BQ:22:LYS:HB3	2.04	0.58
55:BW:1:MET:CE	55:BW:2:GLU:H	2.17	0.58
58:BZ:146:ILE:HG13	58:BZ:147:GLY:N	2.18	0.58
2:CB:218:ALA:O	2:CB:222:ILE:HG12	2.03	0.58
12:CL:24:VAL:HG22	12:CL:97:ARG:HB3	1.86	0.58
12:CL:38:THR:OG1	12:CL:39:VAL:HG23	2.04	0.58
15:CO:82:ILE:C	15:CO:82:ILE:HD13	2.24	0.58
22:CW:77:PHA:HB2	26:D1:33:LYS:HZ1	1.67	0.58
24:CY:236:GLY:O	24:CY:237:PRO:O	2.21	0.58
26:D1:74:VAL:O	26:D1:77:ALA:HB3	2.04	0.58
35:DA:1142(A):A:O2'	35:DA:1143:A:H3'	2.03	0.58
35:DA:1858:G:H2'	35:DA:1883:G:H22	1.66	0.58
35:DA:2031:A:C6	35:DA:2498:C:H1'	2.38	0.58
35:DA:2580:U:H4'	39:DE:130:GLY:HA2	1.85	0.58
35:DA:588:U:H2'	35:DA:589:C:C6	2.38	0.58
37:DC:52:PRO:HG2	37:DC:53:ARG:HD3	1.85	0.58
39:DE:67:PHE:O	39:DE:70:ALA:HB2	2.03	0.58
45:DK:111:LYS:HB3	45:DK:115:LEU:HD11	1.86	0.58
51:DS:95:HIS:CG	51:DS:96:GLY:N	2.71	0.58
52:DT:53:ARG:CB	52:DT:53:ARG:NH1	2.67	0.58
53:DU:91:ASP:O	53:DU:95:LEU:HB2	2.04	0.58
58:DZ:114:GLY:O	58:DZ:177:PRO:HD3	2.04	0.58
1:AA:336:C:H2'	1:AA:337:C:H6	1.69	0.58
1:AA:69:G:H2'	1:AA:70:G:H8	1.67	0.58
2:AB:52:GLU:O	2:AB:56:ARG:HG2	2.04	0.58
3:AC:134:ILE:HG23	3:AC:151:VAL:HB	1.86	0.58
4:AD:53:ASP:O	4:AD:57:ARG:HD3	2.03	0.58
7:AG:17:VAL:HG12	7:AG:18:TYR:CD1	2.38	0.58
24:AY:23:GLU:O	24:AY:26:LEU:HG	2.04	0.58
24:AY:319:ASN:OD1	24:AY:333:PRO:HD2	2.04	0.58
35:BA:1509(B):A:H2'	35:BA:1510:G:C8	2.39	0.58
35:BA:1748:G:C8	35:BA:1748:G:H5'	2.39	0.58
35:BA:1865:G:H5'	35:BA:1866:C:OP2	2.04	0.58
35:BA:2182:G:H2'	35:BA:2183:C:C6	2.37	0.58
35:BA:2655:G:H1'	35:BA:2656:U:H5	1.68	0.58
41:BG:122:PRO:HG3	41:BG:182:LYS:HA	1.84	0.58
41:BG:96:ARG:CG	41:BG:97:ASP:H	2.09	0.58
45:BK:99:ILE:O	45:BK:138:VAL:HA	2.04	0.58
52:BT:51:ARG:HG2	52:BT:52:ILE:N	2.19	0.58
52:BT:28:VAL:HB	52:BT:88:ILE:HG12	1.86	0.58
56:BX:72:LYS:N	56:BX:72:LYS:HD2	2.18	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CB:36:ARG:O	2:CB:37:ASN:HB3	2.04	0.58
3:CC:116:VAL:O	3:CC:119:ARG:HB3	2.04	0.58
3:CC:16:ARG:HB2	3:CC:16:ARG:HH11	1.66	0.58
3:CC:187:ALA:C	3:CC:188:LEU:HD22	2.24	0.58
8:CH:12:ARG:HH12	8:CH:27:PRO:CD	2.17	0.58
17:CQ:3:LYS:HD2	17:CQ:60:ILE:HD11	1.86	0.58
19:CS:46:GLY:N	19:CS:62:ILE:HG23	2.19	0.58
19:CS:46:GLY:H	19:CS:62:ILE:HG23	1.67	0.58
24:CY:312:ARG:HE	24:CY:344:LEU:CD1	2.16	0.58
24:CY:57:ARG:HA	24:CY:60:ASP:OD1	2.03	0.58
30:D5:43:HIS:HD2	35:DA:2815:C:O2'	1.87	0.58
31:D6:39:TYR:O	31:D6:47:THR:O	2.22	0.58
35:DA:1101:U:O2'	35:DA:1102:C:H5'	2.04	0.58
25:D0:16:SER:OG	35:DA:2261:C:H3'	2.03	0.58
35:DA:2801(A):A:C4'	35:DA:2802:G:H5'	2.10	0.58
35:DA:363(A):A:N3	35:DA:363(A):A:H2'	2.19	0.58
35:DA:612:C:C3'	35:DA:613:G:H5''	2.34	0.58
38:DD:131:LEU:CD1	38:DD:136:ILE:HG12	2.33	0.58
41:DG:77:ILE:CG2	41:DG:80:PHE:H	2.16	0.58
24:CY:33:LEU:HD12	45:DK:25:PRO:HG3	1.85	0.58
45:DK:59:ILE:HD12	45:DK:59:ILE:N	2.19	0.58
45:DK:95:LYS:HG3	45:DK:137:GLU:N	2.19	0.58
45:DK:99:ILE:O	45:DK:138:VAL:HA	2.04	0.58
48:DP:146:VAL:CG2	48:DP:147:LEU:H	1.95	0.58
50:DR:2:ARG:CB	50:DR:5:LYS:HZ3	2.15	0.58
50:DR:7:GLY:C	50:DR:8:ARG:HE	2.07	0.58
53:DU:90:VAL:HG22	54:DV:39:LEU:HB2	1.85	0.58
1:AA:1234:C:O2'	1:AA:1235:U:H5'	2.04	0.58
1:AA:66:G:H4'	1:AA:173:U:C5	2.39	0.58
2:AB:140:HIS:O	2:AB:144:ARG:HG2	2.04	0.58
10:AJ:3:LYS:O	10:AJ:100:THR:HG23	2.04	0.58
11:AK:67:ASP:OD1	11:AK:71:LYS:HE3	2.04	0.58
12:AL:75:HIS:HD2	12:AL:77:LEU:HB2	1.68	0.58
24:AY:326:THR:OG1	24:AY:328:LEU:HD13	2.04	0.58
26:B1:6:GLU:O	26:B1:7:ILE:HD12	2.03	0.58
35:BA:1150:C:O2'	35:BA:1151:G:H5'	2.04	0.58
35:BA:221:A:H4'	35:BA:222:A:O5'	2.04	0.58
35:BA:548:A:C3'	35:BA:549:G:H5'	2.33	0.58
40:BF:123:LEU:HD12	40:BF:124:LEU:N	2.18	0.58
47:BO:13:ASN:C	47:BO:15:GLY:H	2.08	0.58
47:BO:13:ASN:ND2	47:BO:97:ARG:HB2	2.18	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:1952:A:C6	47:BO:22:ILE:HD12	2.39	0.58
1:AA:1422:G:O3'	47:BO:49:ARG:NH1	2.36	0.58
47:BO:77:ILE:HD11	52:BT:72:VAL:CG1	2.34	0.58
48:BP:58:THR:O	48:BP:58:THR:HG22	2.03	0.58
48:BP:7:ARG:HA	48:BP:7:ARG:CZ	2.33	0.58
49:BQ:19:GLY:HA3	58:BZ:79:ARG:HH12	1.69	0.58
52:BT:30:VAL:HG22	52:BT:84:GLN:O	2.03	0.58
52:BT:27:THR:HA	52:BT:87:ASP:HB2	1.85	0.58
52:BT:8:LYS:O	52:BT:11:GLU:HB3	2.03	0.58
35:BA:143:G:H4'	56:BX:35:THR:HG21	1.86	0.58
56:BX:63:LYS:HB3	56:BX:72:LYS:HG3	1.84	0.58
57:BY:88:LYS:NZ	57:BY:93:GLY:CA	2.66	0.58
1:CA:1383:C:H2'	1:CA:1384:C:H6	1.69	0.58
1:CA:625:G:H2'	1:CA:626:U:C6	2.39	0.58
1:CA:673:G:H2'	1:CA:674:G:H8	1.61	0.58
2:CB:17:PHE:H	2:CB:17:PHE:HD2	1.52	0.58
11:CK:92:GLU:HG3	11:CK:96:ARG:HD2	1.84	0.58
25:D0:74:ARG:HH11	25:D0:74:ARG:HG3	1.67	0.58
26:D1:45:ASN:HD21	26:D1:47:GLN:HE21	1.51	0.58
35:DA:1054:A:C2'	35:DA:1055:G:H5''	2.34	0.58
35:DA:2036:C:H5'	35:DA:2036:C:H6	1.69	0.58
34:D9:31:LYS:NZ	35:DA:2478:A:OP1	2.36	0.58
35:DA:626:U:H5''	35:DA:627:A:H5'	1.86	0.58
35:DA:654(S):G:C5	35:DA:654(T):C:N4	2.71	0.58
36:DB:40:U:H3'	36:DB:41:U:H5''	1.86	0.58
35:DA:2591:C:OP1	38:DD:239:ARG:HG2	2.04	0.58
46:DN:35:ARG:O	46:DN:37:LYS:N	2.36	0.58
35:DA:956:G:OP2	49:DQ:14:ARG:NH2	2.36	0.58
1:AA:1194:U:H2'	1:AA:1195:C:C6	2.39	0.57
1:AA:501:C:H2'	1:AA:502:G:C8	2.39	0.57
1:AA:625:G:H2'	1:AA:626:U:C6	2.39	0.57
5:AE:36:ASP:OD2	5:AE:40:ARG:HB2	2.04	0.57
7:AG:60:LYS:HD2	7:AG:60:LYS:N	2.18	0.57
17:AQ:26:GLN:O	17:AQ:27:PHE:HB3	2.04	0.57
20:AT:24:LEU:HD13	20:AT:24:LEU:C	2.24	0.57
22:AV:68:C:O2'	22:AV:69:G:H5'	2.04	0.57
22:AW:17:C:H2'	22:AW:17:C:O2	2.02	0.57
7:AG:84:ASN:HB2	22:AW:38:A:H61	1.67	0.57
13:AM:125:ARG:CA	24:AY:159:GLY:HA3	2.33	0.57
25:B0:25:ARG:HH11	25:B0:25:ARG:HG2	1.68	0.57
26:B1:58:ILE:HD11	26:B1:60:PHE:CE2	2.39	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:1113:U:H2'	35:BA:1114:G:C8	2.39	0.57
35:BA:2208:A:H1'	35:BA:2219:G:C5	2.39	0.57
35:BA:2022:U:O2'	35:BA:2617:C:H5'	2.04	0.57
35:BA:274:G:H2'	35:BA:274:G:N3	2.19	0.57
35:BA:614(A):U:H4'	35:BA:614(B):G:H5''	1.85	0.57
35:BA:259:G:N2	35:BA:621:A:H8	1.96	0.57
35:BA:943:U:OP2	48:BP:38:GLN:CD	2.42	0.57
38:BD:120:GLY:O	38:BD:131:LEU:HB3	2.04	0.57
39:BE:59:VAL:CG2	39:BE:63:LEU:HG	2.34	0.57
40:BF:163:VAL:O	40:BF:166:ALA:HB3	2.04	0.57
45:BK:132:ARG:NH1	45:BK:132:ARG:HB3	2.18	0.57
47:BO:10:VAL:HG21	47:BO:16:ALA:O	2.03	0.57
51:BS:87:PHE:HB2	51:BS:106:ARG:NE	2.09	0.57
52:BT:53:ARG:NH1	52:BT:53:ARG:CB	2.67	0.57
53:BU:91:ASP:OD1	53:BU:96:ALA:CB	2.52	0.57
57:BY:28:LYS:HA	57:BY:39:VAL:H	1.68	0.57
57:BY:2:ARG:HD3	57:BY:3:VAL:HG23	1.85	0.57
1:CA:376:G:O2'	1:CA:377:G:H5'	2.03	0.57
1:CA:637:G:H2'	1:CA:638:G:H8	1.69	0.57
2:CB:162:ILE:HD11	2:CB:184:VAL:HG22	1.86	0.57
2:CB:7:VAL:C	2:CB:217:ARG:HH22	2.07	0.57
4:CD:9:CYS:HB3	4:CD:32:ALA:HB2	1.86	0.57
4:CD:8:VAL:HG11	4:CD:115:ARG:NH1	2.19	0.57
16:CP:43:LYS:C	16:CP:45:THR:H	2.07	0.57
22:CV:26:A:N6	22:CV:44:G:H1	2.00	0.57
24:CY:150:GLN:HE21	24:CY:172:LYS:HZ1	1.48	0.57
29:D4:30:GLU:O	29:D4:31:ILE:HD13	2.04	0.57
35:DA:2161:C:H2'	35:DA:2162:G:H8	1.68	0.57
22:CW:56:C:C4	35:DA:2169:A:H2	2.22	0.57
35:DA:185:U:H4'	35:DA:218:A:H4'	1.86	0.57
26:D1:50:ARG:HH21	35:DA:2199:A:H5'	1.68	0.57
35:DA:2208:A:H1'	35:DA:2219:G:C5	2.38	0.57
35:DA:2564:A:C2	35:DA:2647:U:H4'	2.39	0.57
38:DD:131:LEU:HD13	38:DD:136:ILE:CG1	2.33	0.57
38:DD:65:ILE:O	38:DD:65:ILE:HD13	2.03	0.57
39:DE:69:LYS:O	39:DE:71:GLY:N	2.37	0.57
39:DE:69:LYS:C	39:DE:71:GLY:N	2.58	0.57
39:DE:92:THR:O	39:DE:95:ILE:HG12	2.04	0.57
46:DN:128:HIS:CE1	46:DN:134:ARG:HD3	2.39	0.57
48:DP:18:ARG:HH11	48:DP:18:ARG:HB3	1.65	0.57
50:DR:2:ARG:HB2	50:DR:5:LYS:HE2	1.86	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
51:DS:87:PHE:HB2	51:DS:106:ARG:NE	2.08	0.57
51:DS:96:GLY:O	51:DS:98:VAL:N	2.29	0.57
57:DY:28:LYS:HA	57:DY:39:VAL:H	1.69	0.57
1:AA:1218:C:H2'	1:AA:1219:U:C6	2.39	0.57
1:AA:237:C:H4'	17:AQ:25:ARG:HH12	1.69	0.57
1:AA:521:G:H4'	12:AL:73:GLU:HG2	1.86	0.57
2:AB:126:GLU:HA	2:AB:129:GLU:HG2	1.87	0.57
2:AB:16:HIS:HB3	2:AB:210:SER:HA	1.86	0.57
3:AC:60:ALA:O	3:AC:61:ALA:HB2	2.03	0.57
4:AD:100:ARG:NH1	4:AD:137:SER:HA	2.18	0.57
4:AD:22:LYS:HG3	4:AD:26:CYS:SG	2.44	0.57
4:AD:9:CYS:HB3	4:AD:32:ALA:HB2	1.85	0.57
1:AA:137:C:H1'	16:AP:63:GLY:CA	2.33	0.57
19:AS:22:LEU:HA	19:AS:27:GLU:CD	2.25	0.57
24:AY:10:LEU:O	24:AY:14:ARG:HG3	2.03	0.57
33:B8:6:THR:HB	33:B8:63:PRO:HG3	1.86	0.57
35:BA:1056:G:H4'	35:BA:1085:A:H2	1.69	0.57
35:BA:1485:G:H1'	35:BA:1505:C:N4	2.18	0.57
35:BA:2168:G:N2	35:BA:2170:A:H3'	2.19	0.57
35:BA:2869:G:H2'	35:BA:2870:C:C6	2.39	0.57
35:BA:852:G:O2'	35:BA:853:G:H5'	2.04	0.57
37:BC:184:GLU:O	37:BC:188:ASP:HB2	2.04	0.57
37:BC:185:LYS:O	37:BC:189:ASN:HB2	2.04	0.57
38:BD:25:THR:HG22	38:BD:26:LYS:N	2.19	0.57
40:BF:192:LEU:HD22	40:BF:194:MET:HG3	1.86	0.57
41:BG:67:LYS:H	41:BG:67:LYS:HD2	1.67	0.57
44:BJ:56:UNK:CB	44:BJ:83:UNK:HA	2.34	0.57
53:BU:92:ARG:CZ	54:BV:11:GLN:H	2.17	0.57
53:BU:95:LEU:HD13	54:BV:4:ILE:HG23	1.85	0.57
58:BZ:150:LEU:C	58:BZ:150:LEU:HD23	2.25	0.57
58:BZ:95:PRO:HA	58:BZ:129:SER:HA	1.86	0.57
58:BZ:97:GLU:O	58:BZ:98:MET:HB3	2.04	0.57
1:CA:1381:U:H5	1:CA:1382:C:C4	2.21	0.57
2:CB:119:GLU:C	2:CB:121:LEU:H	2.07	0.57
4:AD:172:PRO:HD3	6:CF:21:LEU:HD11	1.86	0.57
7:CG:87:VAL:HG21	7:CG:154:TYR:HB3	1.86	0.57
8:CH:5:PRO:O	8:CH:8:ASP:HB3	2.04	0.57
7:CG:37:ASN:ND2	9:CI:40:LEU:HA	2.14	0.57
1:CA:1059:C:O2	10:CJ:53:PRO:HG3	2.04	0.57
1:CA:692:U:H5	11:CK:26:ASN:HD22	1.53	0.57
1:CA:237:C:H4'	17:CQ:25:ARG:HH12	1.69	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:CW:70:G:H2'	22:CW:71:G:H8	1.69	0.57
24:CY:269:ILE:HD12	49:DQ:80:GLU:HG3	1.84	0.57
35:DA:272(H):C:H1'	35:DA:363(C):G:N2	2.19	0.57
40:DF:24:LEU:HD13	40:DF:118:ALA:HB1	1.86	0.57
52:DT:36:GLU:HG2	52:DT:36:GLU:O	2.04	0.57
52:DT:88:ILE:HG22	52:DT:89:VAL:HG22	1.85	0.57
54:DV:38:LEU:HD22	54:DV:52:VAL:HG22	1.86	0.57
58:DZ:121:HIS:HB2	58:DZ:171:ILE:HA	1.86	0.57
1:AA:1053:G:C3'	1:AA:1054:C:H5'	2.34	0.57
1:AA:1281:U:H5'	1:AA:1282:C:C5	2.39	0.57
1:AA:376:G:O2'	1:AA:377:G:H5'	2.05	0.57
1:AA:663:A:O2'	1:AA:664:G:H5'	2.05	0.57
1:AA:684:A:H2'	1:AA:685:G:C8	2.39	0.57
1:AA:783:C:O2'	1:AA:784:C:H5'	2.03	0.57
4:AD:128:VAL:HG12	4:AD:129:ASN:ND2	2.19	0.57
7:AG:22:LEU:HD23	7:AG:22:LEU:O	2.04	0.57
12:AL:110:VAL:CG2	12:AL:120:TYR:HB3	2.34	0.57
12:AL:45:PRO:HG3	12:AL:53:ARG:HD3	1.87	0.57
13:AM:119:GLY:HA2	22:AV:29:G:OP1	2.05	0.57
13:AM:14:ARG:HA	13:AM:43:THR:O	2.04	0.57
14:AN:25:VAL:HG23	14:AN:38:GLY:O	2.04	0.57
19:AS:22:LEU:HA	19:AS:27:GLU:OE2	2.04	0.57
22:AV:72:C:C2'	22:AV:73:A:H5''	2.34	0.57
22:AV:72:C:H3'	22:AV:73:A:C5'	2.30	0.57
35:BA:1961:C:C2'	35:BA:1962:C:H5'	2.35	0.57
35:BA:2196:C:O2'	35:BA:2197:U:H5'	2.03	0.57
35:BA:2199:A:H5'	35:BA:2200:C:OP2	2.04	0.57
35:BA:2061:G:H5''	35:BA:2503:A:C2	2.39	0.57
48:BP:85:LEU:CD2	48:BP:114:ILE:HD11	2.32	0.57
35:BA:956:G:OP2	49:BQ:14:ARG:NH2	2.37	0.57
50:BR:7:GLY:C	50:BR:8:ARG:NE	2.57	0.57
51:BS:26:LEU:HD23	51:BS:39:ILE:HG13	1.86	0.57
51:BS:56:LEU:O	51:BS:56:LEU:HD23	2.04	0.57
1:CA:107:G:H2'	1:CA:108:G:H5'	1.86	0.57
1:CA:1203:C:H2'	1:CA:1204:A:C8	2.40	0.57
1:CA:1327:C:H2'	1:CA:1328:C:C6	2.39	0.57
13:CM:65:LYS:CE	13:CM:69:GLU:HG3	2.34	0.57
24:CY:238:GLY:HA2	35:DA:2602:A:N3	2.20	0.57
1:CA:1212:U:H2'	24:CY:78:GLU:OE2	2.03	0.57
35:DA:1015:G:O2'	35:DA:1016:G:H5'	2.04	0.57
35:DA:1541:G:H1'	35:DA:1542:A:C4	2.39	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:2787:C:O2	39:DE:61:ARG:NH1	2.38	0.57
35:DA:614(A):U:H4'	35:DA:614(B):G:H5''	1.86	0.57
35:DA:66:C:H2'	35:DA:67:U:H6	1.70	0.57
37:DC:184:GLU:O	37:DC:188:ASP:HB2	2.03	0.57
37:DC:185:LYS:O	37:DC:189:ASN:HB2	2.04	0.57
48:DP:50:ARG:NH2	48:DP:50:ARG:HG2	2.20	0.57
51:DS:34:HIS:HB3	51:DS:53:SER:CB	2.30	0.57
52:DT:10:VAL:O	52:DT:13:ARG:HG2	2.03	0.57
57:DY:98:VAL:O	57:DY:99:CYS:SG	2.62	0.57
1:AA:1228:C:H2'	1:AA:1229:A:H8	1.68	0.57
1:AA:6:G:H4'	1:AA:298:A:H4'	1.86	0.57
2:AB:18:GLY:H	2:AB:42:ILE:CG2	2.17	0.57
2:AB:7:VAL:C	2:AB:217:ARG:HH22	2.07	0.57
2:AB:80:ILE:CD1	2:AB:80:ILE:H	2.14	0.57
3:AC:53:ALA:O	3:AC:54:ARG:HB2	2.04	0.57
8:AH:30:ARG:CB	8:AH:30:ARG:HH11	2.16	0.57
9:AI:3:GLN:OE1	9:AI:20:ARG:NH2	2.37	0.57
16:AP:49:LEU:HD12	16:AP:50:LYS:H	1.68	0.57
35:BA:1011:G:H5''	53:BU:77:SER:HG	1.68	0.57
35:BA:2148:G:H2'	35:BA:2149:G:H8	1.68	0.57
22:AW:77:PHA:HD2	35:BA:249:C:P	2.44	0.57
35:BA:272(D):G:H1	35:BA:364:C:H42	1.51	0.57
38:BD:182:LEU:N	38:BD:272:ALA:HB3	2.19	0.57
41:BG:155:MET:O	41:BG:155:MET:HG3	2.04	0.57
45:BK:105:LEU:HA	45:BK:108:ALA:HB2	1.86	0.57
45:BK:4:VAL:HG22	45:BK:5:VAL:N	2.10	0.57
46:BN:19:GLU:CG	46:BN:20:GLY:H	2.18	0.57
47:BO:35:VAL:HG11	47:BO:103:ALA:CB	2.31	0.57
48:BP:124:LYS:HD3	48:BP:143:GLY:HA3	1.86	0.57
51:BS:17:ARG:O	51:BS:20:ARG:HG2	2.05	0.57
1:AA:1432:G:OP1	52:BT:107:ASP:HB2	2.04	0.57
1:CA:1288:A:O2'	1:CA:1289:A:H5'	2.04	0.57
1:CA:1499:A:H1'	1:CA:1520:G:C5'	2.35	0.57
1:CA:475:G:H2'	1:CA:476:G:C8	2.38	0.57
1:CA:939:G:H5''	7:CG:102:ARG:CZ	2.33	0.57
4:CD:28:SER:O	4:CD:30:LYS:N	2.37	0.57
13:CM:91:ARG:CB	13:CM:98:VAL:HG22	2.34	0.57
24:CY:229:ILE:HG23	24:CY:251:VAL:HG12	1.85	0.57
24:CY:326:THR:CB	24:CY:347:ALA:HB1	2.35	0.57
25:D0:25:ARG:HH11	25:D0:25:ARG:HG2	1.69	0.57
33:D8:51:ALA:N	33:D8:53:PRO:HD2	2.19	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:1175:U:C4'	35:DA:1176:G:H5'	2.34	0.57
35:DA:1209:G:H21	35:DA:1210:A:H62	1.52	0.57
24:CY:303:ARG:NH2	35:DA:1914:C:C2'	2.60	0.57
35:DA:221:A:H4'	35:DA:222:A:O5'	2.04	0.57
35:DA:422:A:H2'	35:DA:423:A:C8	2.39	0.57
35:DA:500:G:N2	35:DA:502:A:H3'	2.19	0.57
35:DA:92:A:H3'	35:DA:93:G:H8	1.69	0.57
37:DC:181:PHE:HD2	37:DC:185:LYS:HB3	1.68	0.57
39:DE:51:PHE:CD1	39:DE:52:LEU:N	2.72	0.57
43:DI:5:LEU:O	43:DI:6:LEU:HG	2.03	0.57
45:DK:137:GLU:HG3	45:DK:138:VAL:H	1.69	0.57
48:DP:58:THR:O	48:DP:61:ARG:CD	2.51	0.57
51:DS:17:ARG:O	51:DS:20:ARG:HG2	2.05	0.57
51:DS:26:LEU:HD23	51:DS:39:ILE:HG13	1.85	0.57
54:DV:14:VAL:HB	54:DV:96:ILE:HG13	1.86	0.57
57:DY:28:LYS:HZ2	57:DY:37:VAL:HG11	1.69	0.57
57:DY:27:VAL:O	57:DY:29:GLU:OE1	2.22	0.57
1:AA:148:G:H2'	1:AA:149:A:C8	2.39	0.57
1:AA:475:G:H2'	1:AA:476:G:C8	2.39	0.57
4:AD:18:LYS:HB2	4:AD:33:MET:CG	2.26	0.57
13:AM:65:LYS:CE	13:AM:69:GLU:HG3	2.34	0.57
15:AO:8:LYS:O	15:AO:12:ILE:HG13	2.04	0.57
20:AT:82:SER:O	20:AT:86:ARG:HB2	2.03	0.57
22:AV:28:G:H1	22:AV:42:C:N4	2.02	0.57
31:B6:16:CYS:O	31:B6:17:LYS:HB2	2.04	0.57
33:B8:33:ASN:HA	33:B8:36:LYS:HD3	1.87	0.57
35:BA:2661:G:H2'	35:BA:2662:A:N3	2.20	0.57
35:BA:426:C:O2'	35:BA:427:U:H5'	2.04	0.57
35:BA:61:G:H1	35:BA:94:C:N4	1.99	0.57
39:BE:69:LYS:C	39:BE:71:GLY:N	2.58	0.57
41:BG:109:VAL:CG1	41:BG:142:PRO:HD3	2.35	0.57
45:BK:44:ALA:O	45:BK:48:MET:HG2	2.04	0.57
47:BO:4:PRO:O	47:BO:5:GLN:CB	2.51	0.57
48:BP:23:PRO:HB2	48:BP:33:ARG:HD2	1.86	0.57
50:BR:7:GLY:C	50:BR:8:ARG:HE	2.08	0.57
51:BS:28:VAL:HG13	51:BS:99:LYS:NZ	2.19	0.57
53:BU:16:LYS:O	53:BU:20:LEU:CD2	2.52	0.57
54:BV:47:VAL:CG1	54:BV:51:VAL:HA	2.33	0.57
58:BZ:104:PHE:HB3	58:BZ:141:VAL:HG21	1.86	0.57
1:CA:165:C:H2'	1:CA:166:G:H8	1.69	0.57
1:CA:66:G:H4'	1:CA:173:U:C5	2.39	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CB:80:ILE:H	2:CB:80:ILE:CD1	2.16	0.57
3:CC:134:ILE:HG23	3:CC:151:VAL:HB	1.87	0.57
5:CE:12:LEU:C	5:CE:12:LEU:HD22	2.25	0.57
14:CN:25:VAL:HG23	14:CN:38:GLY:O	2.03	0.57
24:CY:241:GLY:O	24:CY:243:ASN:N	2.38	0.57
25:D0:30:VAL:HG12	25:D0:66:VAL:HG22	1.86	0.57
31:D6:33:LYS:CA	31:D6:33:LYS:HE2	2.35	0.57
35:DA:1374:G:H2'	35:DA:1375:C:C6	2.38	0.57
35:DA:2312:U:O2'	41:DG:71:THR:HG21	2.04	0.57
35:DA:2850:A:OP2	35:DA:2866:U:C5	2.55	0.57
35:DA:304:G:H2'	35:DA:305:U:H6	1.69	0.57
35:DA:548:A:C2'	35:DA:549:G:H5'	2.35	0.57
39:DE:5:LEU:HB2	39:DE:51:PHE:CD2	2.40	0.57
42:DH:148:ILE:O	42:DH:151:ILE:HG12	2.04	0.57
43:DI:109:ILE:HD11	43:DI:130:TYR:CE2	2.40	0.57
45:DK:105:LEU:HA	45:DK:108:ALA:HB2	1.86	0.57
35:DA:1665:A:H4'	47:DO:67:LYS:HB2	1.86	0.57
35:DA:252:G:P	48:DP:50:ARG:HH11	2.27	0.57
48:DP:99:LEU:HD23	48:DP:99:LEU:O	2.04	0.57
49:DQ:1:MET:O	49:DQ:2:LEU:HB2	2.03	0.57
52:DT:57:PHE:O	52:DT:59:THR:N	2.37	0.57
56:DX:44:GLU:HG2	56:DX:51:VAL:HG23	1.85	0.57
1:AA:1519:A:H2'	1:AA:1520:G:H5'	1.87	0.57
1:AA:180:U:H2'	1:AA:181:G:C5'	2.34	0.57
1:AA:189(A):C:H2'	1:AA:189(B):C:C6	2.39	0.57
1:AA:191:G:H1'	20:AT:105:SER:CB	2.35	0.57
1:AA:651:C:O2'	1:AA:652:U:H5'	2.05	0.57
2:AB:18:GLY:HA2	2:AB:42:ILE:HG22	1.85	0.57
5:AE:12:LEU:HD22	5:AE:12:LEU:C	2.25	0.57
2:AB:178:ARG:HD2	8:AH:71:GLY:C	2.24	0.57
16:AP:43:LYS:HA	16:AP:48:TRP:HB3	1.84	0.57
19:AS:63:THR:HG22	19:AS:66:MET:SD	2.44	0.57
22:AW:16:U:H3'	22:AW:17:C:C5'	2.23	0.57
22:AW:38:A:H2'	22:AW:39:U:H5''	1.86	0.57
35:BA:1078:U:C5'	45:BK:132:ARG:HH12	2.18	0.57
35:BA:1109:C:H2'	35:BA:1110:G:H5'	1.87	0.57
35:BA:2485:G:H5''	49:BQ:46:GLN:NE2	2.20	0.57
43:BI:102:SER:O	43:BI:103:ARG:HG3	2.04	0.57
43:BI:108:THR:C	43:BI:109:ILE:HD12	2.24	0.57
45:BK:55:VAL:HG13	45:BK:69:THR:HA	1.85	0.57
46:BN:62:VAL:HG22	46:BN:66:LYS:HD2	1.86	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
48:BP:115:LEU:HA	48:BP:134:ALA:CB	2.34	0.57
49:BQ:27:VAL:HG12	49:BQ:105:GLU:OE2	2.05	0.57
52:BT:13:ARG:CA	52:BT:13:ARG:CZ	2.68	0.57
54:BV:39:LEU:HA	54:BV:47:VAL:CG1	2.35	0.57
56:BX:12:VAL:HG12	56:BX:27:THR:HG23	1.86	0.57
58:BZ:119:GLU:HG3	58:BZ:122:ARG:HD3	1.87	0.57
1:CA:1296:C:H5'	1:CA:1297:C:OP2	2.05	0.57
1:CA:594:G:H1	1:CA:645:C:H42	1.51	0.57
1:CA:624:C:H4'	16:CP:10:GLY:HA2	1.85	0.57
2:CB:72:GLY:HA2	2:CB:165:VAL:HG22	1.87	0.57
8:CH:40:ALA:C	8:CH:42:GLU:N	2.58	0.57
17:CQ:51:TYR:CD2	17:CQ:57:VAL:HG11	2.40	0.57
24:CY:116:ALA:HA	24:CY:212:PRO:HA	1.85	0.57
27:D2:16:LEU:O	27:D2:17:SER:CB	2.52	0.57
31:D6:45:LYS:C	31:D6:47:THR:HG23	2.23	0.57
35:DA:1485:G:H1'	35:DA:1505:C:N4	2.18	0.57
35:DA:2485:G:H5''	49:DQ:46:GLN:NE2	2.19	0.57
35:DA:1826:G:C4'	38:DD:242:ARG:HH21	2.10	0.57
38:DD:30:GLU:CB	38:DD:35:LYS:HE3	2.35	0.57
41:DG:39:ILE:HG13	41:DG:92:VAL:CG1	2.33	0.57
50:DR:10:LEU:HD22	50:DR:17:ARG:HD2	1.87	0.57
51:DS:99:LYS:O	51:DS:101:LEU:N	2.37	0.57
57:DY:59:GLY:O	57:DY:60:PHE:HB2	2.03	0.57
1:AA:1128:C:C1'	1:AA:1146:A:H61	2.13	0.57
1:AA:1144:G:H21	1:AA:1146:A:H62	1.51	0.57
2:AB:114:ARG:HD3	2:AB:114:ARG:O	2.05	0.57
2:AB:69:LEU:HD23	2:AB:159:PRO:HG2	1.86	0.57
2:AB:17:PHE:H	2:AB:17:PHE:HD2	1.53	0.57
2:AB:178:ARG:HD2	8:AH:71:GLY:O	2.05	0.57
12:AL:117:ARG:NH2	12:AL:124:LYS:HB2	2.19	0.57
12:AL:27:LEU:HB2	12:AL:33:ARG:HD2	1.86	0.57
24:AY:305:ILE:O	24:AY:305:ILE:CG2	2.53	0.57
24:AY:76:MET:HE3	24:AY:88:LYS:HE2	1.87	0.57
24:AY:75:LEU:HD23	24:AY:87:LEU:HD22	1.87	0.57
26:B1:89:GLU:CA	26:B1:92:LYS:HB3	2.30	0.57
31:B6:13:CYS:O	31:B6:21:TYR:HA	2.05	0.57
35:BA:2189:U:H3'	35:BA:2190:G:H5''	1.87	0.57
38:BD:133:LEU:HB3	38:BD:173:VAL:HG11	1.86	0.57
39:BE:86:PRO:O	39:BE:88:GLY:N	2.37	0.57
42:BH:97:ARG:O	42:BH:125:VAL:HG21	2.05	0.57
47:BO:115:VAL:HG13	47:BO:121:VAL:HG21	1.86	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
48:BP:56:SER:C	48:BP:57:THR:HG1	2.08	0.57
52:BT:88:ILE:HG22	52:BT:89:VAL:HG22	1.87	0.57
58:BZ:41:LEU:HD11	58:BZ:82:ARG:HH21	1.69	0.57
1:CA:888:G:H4'	1:CA:1488:G:O2'	2.04	0.57
1:CA:148:G:H2'	1:CA:149:A:C8	2.40	0.57
1:CA:397:A:H5'	1:CA:398:C:OP1	2.05	0.57
1:CA:512:U:H2'	1:CA:513:C:C6	2.40	0.57
1:CA:663:A:O2'	1:CA:664:G:H5'	2.04	0.57
2:CB:121:LEU:O	2:CB:127:ILE:HD11	2.04	0.57
5:CE:36:ASP:OD2	5:CE:40:ARG:HB2	2.05	0.57
12:CL:27:LEU:HB2	12:CL:33:ARG:HD2	1.85	0.57
12:CL:53:ARG:NH1	12:CL:53:ARG:HG2	2.18	0.57
16:CP:45:THR:HG22	16:CP:47:ASP:N	2.18	0.57
20:CT:75:ASN:ND2	20:CT:75:ASN:N	2.53	0.57
26:D1:41:ARG:HH22	35:DA:1365:A:H5'	1.70	0.57
35:DA:142:A:H8	35:DA:1595:G:H21	1.49	0.57
35:DA:528:A:N1	35:DA:2042:A:H2'	2.19	0.57
35:DA:2201:C:O2'	35:DA:2202:C:H5'	2.04	0.57
35:DA:2562:U:C2'	35:DA:2563:U:H5'	2.35	0.57
30:D5:29:THR:HG21	35:DA:2814:C:O2'	2.05	0.57
39:DE:173:VAL:O	39:DE:174:ASP:HB2	2.04	0.57
39:DE:96:PHE:HA	39:DE:100:GLU:OE1	2.03	0.57
40:DF:153:SER:HB2	40:DF:189:THR:HG22	1.87	0.57
41:DG:47:LYS:HG3	41:DG:48:GLU:H	1.70	0.57
35:DA:2415:G:H4'	48:DP:67:MET:N	2.19	0.57
52:DT:30:VAL:HG22	52:DT:84:GLN:O	2.05	0.57
53:DU:91:ASP:OD1	53:DU:96:ALA:CB	2.52	0.57
54:DV:47:VAL:O	54:DV:49:THR:O	2.21	0.57
1:AA:1466:C:O2'	1:AA:1467:G:H5'	2.04	0.57
1:AA:155:C:H2'	1:AA:156:G:H8	1.68	0.57
1:AA:265:G:O3'	17:AQ:66:SER:HA	2.05	0.57
1:AA:637:G:H2'	1:AA:638:G:H8	1.70	0.57
2:AB:162:ILE:HD11	2:AB:184:VAL:HG22	1.85	0.57
4:AD:121:VAL:O	4:AD:134:ASP:HA	2.05	0.57
15:AO:36:ILE:HG23	15:AO:56:LEU:HD11	1.85	0.57
19:AS:46:GLY:N	19:AS:62:ILE:HG23	2.19	0.57
24:AY:30:GLU:HA	24:AY:33:LEU:HD12	1.86	0.57
35:BA:1316:U:H2'	35:BA:1317:A:H8	1.69	0.57
35:BA:185:U:H4'	35:BA:218:A:H4'	1.86	0.57
39:BE:108:SER:O	39:BE:162:ALA:HA	2.05	0.57
43:BI:78:THR:OG1	43:BI:141:LYS:HB2	2.05	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:2875:C:H4'	52:BT:5:ALA:HB2	1.86	0.57
52:BT:61:PHE:CE2	52:BT:76:PHE:HB2	2.40	0.57
54:BV:14:VAL:HB	54:BV:96:ILE:HG13	1.87	0.57
1:CA:1264:C:H2'	1:CA:1265:G:H8	1.66	0.57
1:CA:1305:G:H22	1:CA:1331:G:H1'	1.69	0.57
1:CA:63:C:H42	1:CA:104:G:H1	1.52	0.57
3:CC:186:PHE:CZ	3:CC:188:LEU:HD11	2.39	0.57
4:CD:65:ARG:HD2	4:CD:72:GLU:HA	1.85	0.57
7:CG:120:ILE:HD12	7:CG:120:ILE:N	2.19	0.57
8:CH:120:THR:OG1	8:CH:123:GLU:HG3	2.05	0.57
9:CI:17:VAL:HG21	9:CI:81:ILE:N	2.20	0.57
15:CO:39:LEU:HD12	15:CO:56:LEU:HB2	1.86	0.57
24:CY:112:ALA:HB1	24:CY:178:GLY:CA	2.35	0.57
24:CY:181:SER:N	24:CY:182:PRO:HD2	2.19	0.57
24:CY:184:ALA:HB2	24:CY:210:VAL:HG23	1.87	0.57
24:CY:182:PRO:CG	24:CY:345:ILE:HG23	2.31	0.57
24:CY:76:MET:HG3	24:CY:88:LYS:HE2	1.87	0.57
35:DA:1280:G:C3'	35:DA:1281:G:H5''	2.35	0.57
35:DA:1509(B):A:H2'	35:DA:1510:G:C8	2.40	0.57
35:DA:176:G:O2'	35:DA:177:G:H5'	2.04	0.57
35:DA:1884:A:H2'	35:DA:1885:A:C5'	2.29	0.57
36:DB:52:A:O2'	36:DB:53:A:C8	2.58	0.57
39:DE:118:LYS:H	39:DE:121:ASN:H	1.53	0.57
35:DA:2580:U:H5'	39:DE:131:ALA:HB2	1.87	0.57
42:DH:130:ARG:HB3	42:DH:130:ARG:HH11	1.68	0.57
48:DP:88:LEU:H	48:DP:88:LEU:CD1	2.15	0.57
49:DQ:19:GLY:O	49:DQ:20:ALA:HB3	2.03	0.57
52:DT:13:ARG:CZ	52:DT:13:ARG:CA	2.67	0.57
52:DT:20:PRO:HD2	52:DT:85:LYS:HB2	1.87	0.57
58:DZ:120:ILE:HG22	58:DZ:121:HIS:N	2.20	0.57
1:AA:1059:C:O2	10:AJ:53:PRO:HG3	2.04	0.57
1:AA:1128:C:H4'	9:AI:16:ARG:HH12	1.70	0.57
1:AA:1134:G:C2'	1:AA:1135:U:H5'	2.34	0.57
1:AA:1229:A:OP2	13:AM:114:ARG:HD3	2.05	0.57
1:AA:1305:G:H22	1:AA:1331:G:H1'	1.69	0.57
1:AA:424:G:H2'	1:AA:425:G:C8	2.30	0.57
1:AA:939:G:H5''	7:AG:102:ARG:CZ	2.33	0.57
5:AE:12:LEU:CD1	5:AE:31:LEU:HB3	2.35	0.57
9:AI:17:VAL:HG21	9:AI:81:ILE:N	2.20	0.57
16:AP:43:LYS:C	16:AP:45:THR:H	2.07	0.57
17:AQ:59:ILE:HG23	17:AQ:72:ARG:O	2.05	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:AS:19:VAL:O	19:AS:22:LEU:HB2	2.04	0.57
22:AW:57:G:H2'	22:AW:58:A:H5'	1.87	0.57
25:B0:68:GLU:HG3	25:B0:80:HIS:HB2	1.87	0.57
28:B3:19:GLN:NE2	28:B3:52:HIS:HE1	2.02	0.57
35:BA:2317:C:H2'	35:BA:2318:G:H5'	1.86	0.57
35:BA:271(E):U:H2'	35:BA:271(F):C:C6	2.40	0.57
36:BB:106:G:O2'	36:BB:107:G:H5'	2.04	0.57
43:BI:10:GLU:O	43:BI:12:LEU:HD23	2.05	0.57
45:BK:59:ILE:HD12	45:BK:59:ILE:N	2.20	0.57
45:BK:95:LYS:HG3	45:BK:137:GLU:N	2.19	0.57
58:BZ:104:PHE:HB3	58:BZ:141:VAL:CG2	2.35	0.57
1:CA:1005:A:H2'	1:CA:1006:C:H5'	1.87	0.57
1:CA:1194:U:H2'	1:CA:1195:C:C6	2.39	0.57
1:CA:552:U:O2'	1:CA:553:A:H5'	2.05	0.57
1:CA:707:C:O2'	1:CA:708:C:H5'	2.05	0.57
2:CB:140:HIS:O	2:CB:144:ARG:HG2	2.05	0.57
1:CA:532:A:H61	3:CC:156:ARG:HH12	1.50	0.57
4:CD:100:ARG:NH1	4:CD:137:SER:HA	2.19	0.57
4:CD:18:LYS:HE2	4:CD:31:CYS:HB2	1.85	0.57
8:CH:51:VAL:CG1	8:CH:60:ARG:HB2	2.34	0.57
13:CM:118:ALA:HB1	13:CM:119:GLY:N	2.20	0.57
24:CY:77:GLU:HB2	24:CY:84:ARG:HG2	1.86	0.57
35:DA:1150:C:O2'	35:DA:1151:G:H5'	2.05	0.57
44:DJ:56:UNK:CB	44:DJ:83:UNK:HA	2.35	0.57
45:DK:44:ALA:O	45:DK:48:MET:HG2	2.04	0.57
46:DN:123:TYR:OH	46:DN:130:HIS:HE1	1.87	0.57
48:DP:8:PRO:C	48:DP:10:PRO:HD3	2.25	0.57
58:DZ:24:LEU:HD23	58:DZ:25:PRO:O	2.05	0.57
1:AA:107:G:C2'	1:AA:108:G:H5'	2.35	0.57
1:AA:1296:C:H5'	1:AA:1297:C:OP2	2.05	0.57
1:AA:1472:U:H2'	1:AA:1473:A:C8	2.40	0.57
1:AA:189(C):C:O2'	1:AA:189(D):C:H5'	2.05	0.57
1:AA:477:A:H2'	1:AA:479:C:H6	1.70	0.57
7:AG:87:VAL:HG21	7:AG:154:TYR:HB3	1.87	0.57
22:AW:72:C:H2'	22:AW:73:A:O4'	2.05	0.57
31:B6:42:TRP:CE3	31:B6:42:TRP:HA	2.39	0.57
35:BA:1175:U:C4'	35:BA:1176:G:H5'	2.34	0.57
35:BA:1419:A:O2'	35:BA:1420:U:H5''	2.05	0.57
35:BA:1441:G:O2'	35:BA:1442:G:H5'	2.04	0.57
35:BA:1494:A:C3'	35:BA:1495:A:H5''	2.34	0.57
35:BA:2199:A:H3'	35:BA:2200:C:H6	1.70	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:2632:A:O2'	39:BE:61:ARG:NH2	2.38	0.57
35:BA:2660:A:C2	35:BA:2661:G:H4'	2.40	0.57
39:BE:59:VAL:O	39:BE:62:PRO:HD2	2.05	0.57
39:BE:67:PHE:O	39:BE:70:ALA:HB2	2.05	0.57
41:BG:42:GLY:O	41:BG:44:GLY:N	2.38	0.57
41:BG:8:LYS:NZ	41:BG:96:ARG:HH21	2.02	0.57
45:BK:122:ALA:HA	45:BK:125:ARG:NE	2.19	0.57
35:BA:1058:G:H21	45:BK:126:MET:CE	2.18	0.57
46:BN:73:THR:CG2	46:BN:82:LEU:HD11	2.35	0.57
1:CA:1058:G:H2'	1:CA:1059:C:C6	2.39	0.57
1:CA:1097:C:O2'	1:CA:1098:C:H5'	2.05	0.57
3:CC:119:ARG:HG3	3:CC:119:ARG:HH11	1.70	0.57
4:CD:53:ASP:O	4:CD:57:ARG:HD3	2.05	0.57
9:CI:111:ARG:HG2	9:CI:112:LYS:N	2.19	0.57
13:CM:49:THR:O	13:CM:53:VAL:HG23	2.05	0.57
13:CM:69:GLU:HA	13:CM:70:LEU:N	2.20	0.57
24:CY:29:LEU:HG	24:CY:51:GLU:HB2	1.85	0.57
26:D1:67:ILE:N	26:D1:68:PRO:HD2	2.20	0.57
31:D6:16:CYS:O	31:D6:17:LYS:HB2	2.05	0.57
31:D6:26:ASN:ND2	31:D6:32:ASN:ND2	2.52	0.57
31:D6:33:LYS:HA	31:D6:33:LYS:HE2	1.87	0.57
33:D8:48:PHE:O	33:D8:49:VAL:HG22	2.04	0.57
35:DA:529:A:H62	35:DA:2041:U:H3	1.52	0.57
35:DA:2099:U:H2'	35:DA:2099:U:O2	2.04	0.57
37:DC:49:GLY:HA2	37:DC:211:ARG:NH2	2.20	0.57
41:DG:121:ASN:ND2	41:DG:122:PRO:HD2	2.17	0.57
41:DG:86:MET:O	41:DG:87:PRO:O	2.22	0.57
46:DN:19:GLU:CG	46:DN:20:GLY:N	2.63	0.57
35:DA:2875:C:H4'	52:DT:5:ALA:HB2	1.87	0.57
57:DY:2:ARG:HD3	57:DY:3:VAL:HG23	1.87	0.57
57:DY:89:PHE:C	57:DY:90:LEU:HD23	2.25	0.57
1:AA:1203:C:H2'	1:AA:1204:A:C8	2.39	0.56
1:AA:314:C:O2'	1:AA:315:A:H5'	2.05	0.56
1:AA:977:A:H2'	1:AA:978:A:H5'	1.87	0.56
11:AK:24:SER:O	11:AK:26:ASN:N	2.38	0.56
21:AU:6:ARG:HE	21:AU:15:ARG:HH12	1.52	0.56
24:AY:244:THR:HA	35:BA:2573:C:N4	2.19	0.56
24:AY:315:VAL:HG11	24:AY:320:TYR:CE1	2.39	0.56
24:AY:179:LEU:O	24:AY:345:ILE:HD13	2.05	0.56
35:BA:1374:G:H2'	35:BA:1375:C:C6	2.40	0.56
35:BA:2111:C:H1'	35:BA:2118:U:O4'	2.05	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:359:A:H2'	35:BA:360:G:O4'	2.05	0.56
36:BB:52:A:O2'	36:BB:53:A:C8	2.57	0.56
40:BF:170:LEU:HD23	40:BF:172:TRP:CZ2	2.40	0.56
40:BF:20:LEU:HB3	40:BF:23:ASP:OD2	2.05	0.56
41:BG:118:ARG:HG3	41:BG:118:ARG:HH11	1.69	0.56
41:BG:87:PRO:O	41:BG:88:ILE:HD13	2.04	0.56
52:BT:38:ASN:ND2	52:BT:39:ARG:H	2.02	0.56
54:BV:21:ARG:HB3	54:BV:91:TYR:HB2	1.86	0.56
49:BQ:62:GLY:O	58:BZ:178:GLU:HG2	2.05	0.56
58:BZ:56:VAL:HG12	58:BZ:57:ILE:N	2.20	0.56
1:CA:1001(A):G:H2'	1:CA:1002:G:O4'	2.05	0.56
1:CA:1220:G:H2'	1:CA:1221:G:C8	2.40	0.56
1:CA:186:C:H2'	1:CA:187:C:C6	2.39	0.56
1:CA:189(A):C:H2'	1:CA:189(B):C:C6	2.40	0.56
1:CA:189(C):C:O2'	1:CA:189(D):C:H5'	2.04	0.56
1:CA:46:G:O2'	1:CA:365:U:H1'	2.05	0.56
1:CA:936:C:H2'	1:CA:937:A:C8	2.40	0.56
1:CA:93:G:O2'	1:CA:96:U:H5'	2.05	0.56
3:CC:150:LYS:HE2	3:CC:152:ILE:HD11	1.87	0.56
4:CD:58:LEU:HD23	4:CD:62:GLN:HG2	1.86	0.56
7:CG:12:LEU:CD1	7:CG:25:ALA:HB2	2.35	0.56
17:CQ:12:SER:HB3	17:CQ:20:THR:HB	1.85	0.56
22:CV:18:G:H21	22:CV:58:A:H5'	1.70	0.56
22:CW:64:A:H2'	22:CW:65:G:C8	2.39	0.56
24:CY:233:ARG:HB2	35:DA:2555:U:O2	2.04	0.56
24:CY:6:LEU:O	24:CY:8:GLN:N	2.38	0.56
24:CY:98:LEU:HD23	24:CY:98:LEU:O	2.05	0.56
27:D2:28:LYS:HD3	27:D2:56:GLN:HE21	1.70	0.56
31:D6:15:GLU:OE1	31:D6:43:CYS:SG	2.63	0.56
35:DA:1058:G:H21	45:DK:126:MET:CE	2.18	0.56
35:DA:1537:G:H2'	35:DA:1538:G:H8	1.70	0.56
35:DA:2660:A:C2	35:DA:2661:G:H4'	2.39	0.56
35:DA:2789:C:H1'	35:DA:2892:A:H2	1.69	0.56
35:DA:951:C:O2'	35:DA:952:G:H5'	2.05	0.56
41:DG:138:GLN:C	41:DG:140:ILE:H	2.08	0.56
42:DH:153:LYS:H	42:DH:153:LYS:CD	2.17	0.56
46:DN:1:MET:C	46:DN:2:LYS:HG3	2.26	0.56
47:DO:35:VAL:HG11	47:DO:103:ALA:CB	2.31	0.56
35:DA:662:G:OP1	48:DP:18:ARG:HD2	2.04	0.56
58:DZ:103:ARG:O	58:DZ:138:GLU:HA	2.05	0.56
1:AA:1026:G:N3	1:AA:1026:G:H2'	2.20	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1033:G:H2'	1:AA:1034:G:H5'	1.86	0.56
1:AA:998:G:O2'	1:AA:999:C:H5'	2.04	0.56
2:AB:136:VAL:HG13	2:AB:140:HIS:ND1	2.20	0.56
24:AY:237:PRO:HD3	35:BA:2604:U:OP2	2.05	0.56
24:AY:238:GLY:HA3	24:AY:242:VAL:CB	2.29	0.56
24:AY:333:PRO:HG2	24:AY:334:GLU:H	1.71	0.56
24:AY:90:GLU:C	24:AY:91:LEU:HD22	2.25	0.56
34:B9:9:ARG:HB3	34:B9:9:ARG:NH1	2.20	0.56
35:BA:1280:G:C3'	35:BA:1281:G:H5''	2.34	0.56
35:BA:2604:U:O2'	35:BA:2605:U:H5'	2.05	0.56
35:BA:548:A:C2'	35:BA:549:G:H5'	2.36	0.56
35:BA:654(B):C:H2'	35:BA:654(C):G:N7	2.20	0.56
35:BA:94(A):G:H2'	35:BA:95:G:O4'	2.06	0.56
38:BD:239:ARG:HH21	38:BD:239:ARG:HG2	1.70	0.56
39:BE:119:ARG:HD2	39:BE:120:TRP:CE2	2.40	0.56
39:BE:51:PHE:CD1	39:BE:52:LEU:N	2.73	0.56
40:BF:178:PRO:HB2	40:BF:201:VAL:HG11	1.86	0.56
40:BF:18:ARG:HH21	40:BF:20:LEU:HD11	1.70	0.56
41:BG:112:PRO:C	41:BG:114:ILE:H	2.08	0.56
41:BG:86:MET:O	41:BG:86:MET:HG2	2.04	0.56
42:BH:44:VAL:O	42:BH:45:VAL:C	2.42	0.56
42:BH:90:LYS:O	42:BH:94:TYR:HB2	2.04	0.56
43:BI:88:ILE:HB	43:BI:121:LYS:O	2.04	0.56
45:BK:99:ILE:HG23	45:BK:103:GLN:HB3	1.86	0.56
48:BP:88:LEU:CD1	48:BP:88:LEU:H	2.17	0.56
49:BQ:12:GLN:HE21	49:BQ:73:PRO:HD3	1.70	0.56
53:BU:91:ASP:O	53:BU:95:LEU:HB2	2.05	0.56
1:CA:1411:C:O2'	1:CA:1412:C:H5'	2.05	0.56
1:CA:542:G:P	4:CD:10:ARG:HH22	2.27	0.56
4:CD:129:ASN:HD21	4:CD:145:GLU:N	2.03	0.56
8:CH:30:ARG:CB	8:CH:30:ARG:HH11	2.17	0.56
19:CS:22:LEU:HA	19:CS:27:GLU:CD	2.26	0.56
24:CY:106:LEU:C	24:CY:106:LEU:HD23	2.24	0.56
25:D0:68:GLU:HG3	25:D0:80:HIS:HB2	1.87	0.56
26:D1:56:GLN:HE22	26:D1:85:LEU:HD23	1.69	0.56
28:D3:19:GLN:HE22	28:D3:52:HIS:HE1	1.53	0.56
29:D4:34:GLU:CD	29:D4:34:GLU:H	2.09	0.56
30:D5:48:GLU:O	30:D5:49:CYS:SG	2.63	0.56
35:DA:2884:U:C2'	35:DA:2885:C:H5'	2.35	0.56
41:DG:111:LEU:HB2	41:DG:112:PRO:HD3	1.86	0.56
36:DB:57:A:H1'	41:DG:29:TRP:HB2	1.86	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:DI:14:ASP:O	43:DI:15:VAL:O	2.22	0.56
45:DK:122:ALA:HA	45:DK:125:ARG:NE	2.19	0.56
52:DT:27:THR:HA	52:DT:87:ASP:HB2	1.87	0.56
57:DY:28:LYS:HZ2	57:DY:72:VAL:HG21	1.70	0.56
3:AC:156:ARG:HD3	3:AC:194:GLY:HA3	1.86	0.56
5:AE:47:LYS:N	5:AE:47:LYS:HD3	2.20	0.56
8:AH:51:VAL:HG11	8:AH:60:ARG:HD3	1.87	0.56
10:AJ:29:ARG:HH11	10:AJ:29:ARG:HG2	1.70	0.56
12:AL:42:THR:OG1	12:AL:52:LEU:HB3	2.06	0.56
24:AY:19:ILE:HB	24:AY:20:PRO:HD3	1.88	0.56
24:AY:77:GLU:CG	24:AY:84:ARG:HG2	2.36	0.56
27:B2:39:ALA:HA	27:B2:45:SER:OG	2.05	0.56
35:BA:1766:U:H2'	35:BA:1767:C:H6	1.69	0.56
35:BA:271(C):C:H2'	35:BA:271(D):G:C8	2.39	0.56
37:BC:195:ARG:NH1	37:BC:195:ARG:HG3	2.21	0.56
41:BG:105:LYS:HZ3	41:BG:143:GLU:CG	2.18	0.56
41:BG:175:LEU:O	41:BG:176:LEU:HG	2.04	0.56
43:BI:92:VAL:HG23	43:BI:96:ASP:HB3	1.86	0.56
48:BP:29:LYS:HB3	48:BP:34:GLY:N	2.17	0.56
56:BX:71:GLY:C	56:BX:72:LYS:HD2	2.25	0.56
56:BX:54:VAL:HG22	56:BX:81:VAL:HG12	1.87	0.56
58:BZ:9:TYR:CE2	58:BZ:61:LEU:HD13	2.40	0.56
1:CA:1033:G:H2'	1:CA:1034:G:H5'	1.86	0.56
1:CA:1228:C:H2'	1:CA:1229:A:H8	1.70	0.56
1:CA:1399:C:C2	1:CA:1502:A:N6	2.73	0.56
1:CA:243:A:H4'	1:CA:244:U:C5'	2.35	0.56
1:CA:356:A:H2'	1:CA:357:G:H8	1.68	0.56
1:CA:477:A:H2'	1:CA:479:C:H6	1.70	0.56
1:CA:539:A:H2'	1:CA:540:G:H8	1.70	0.56
1:CA:545:C:O2'	1:CA:546:G:H5'	2.04	0.56
1:CA:688:G:H2'	1:CA:689:C:H6	1.69	0.56
4:CD:133:VAL:HG12	4:CD:135:LEU:H	1.70	0.56
6:CF:17:SER:O	6:CF:21:LEU:HD23	2.05	0.56
7:CG:17:VAL:HG12	7:CG:18:TYR:CD1	2.40	0.56
11:CK:29:ILE:CG1	11:CK:44:SER:HB3	2.34	0.56
13:CM:30:ALA:C	13:CM:32:GLU:H	2.09	0.56
22:CW:49:C:H3'	22:CW:50:U:H6	1.69	0.56
24:CY:330:ARG:HG2	24:CY:332:ASP:OD1	2.05	0.56
24:CY:61:THR:C	24:CY:63:ARG:H	2.09	0.56
33:D8:33:ASN:O	33:D8:34:TRP:CB	2.51	0.56
34:D9:9:ARG:NH1	34:D9:9:ARG:HB3	2.19	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:1771:C:HO2'	35:DA:1786:A:H8	1.51	0.56
35:DA:2023:G:H5'	35:DA:2617:C:H4'	1.86	0.56
35:DA:2807:G:H3'	35:DA:2808:U:H5''	1.87	0.56
35:DA:332:A:H4'	35:DA:333:G:OP1	2.04	0.56
40:DF:67:GLN:O	40:DF:67:GLN:CG	2.41	0.56
40:DF:7:TYR:HD2	40:DF:16:GLY:H	1.53	0.56
42:DH:41:MET:CG	42:DH:42:ARG:N	2.49	0.56
43:DI:127:VAL:HG22	43:DI:139:GLN:HA	1.88	0.56
52:DT:28:VAL:HG13	52:DT:46:GLU:CA	2.33	0.56
55:DW:10:VAL:O	55:DW:11:ARG:CB	2.54	0.56
1:AA:1499:A:H1'	1:AA:1520:G:H5'	1.87	0.56
2:AB:145:LEU:CD1	2:AB:149:LEU:HD12	2.34	0.56
9:AI:19:LEU:O	9:AI:20:ARG:HG3	2.04	0.56
13:AM:49:THR:O	13:AM:53:VAL:HG23	2.05	0.56
13:AM:3:ARG:HG2	13:AM:9:ILE:HD11	1.87	0.56
15:AO:39:LEU:HD12	15:AO:56:LEU:HB2	1.86	0.56
26:B1:3:LYS:HB2	26:B1:61:ARG:HH21	1.71	0.56
27:B2:47:ASN:HD22	35:BA:94(A):G:N2	1.95	0.56
31:B6:33:LYS:HE2	31:B6:33:LYS:CA	2.35	0.56
35:BA:2807:G:H3'	35:BA:2808:U:H5''	1.87	0.56
35:BA:32:C:O2'	35:BA:33:U:H5'	2.06	0.56
35:BA:904:C:C6	35:BA:904:C:H5'	2.25	0.56
36:BB:40:U:H3'	36:BB:41:U:H5''	1.87	0.56
39:BE:24:THR:HG22	39:BE:186:GLY:CA	2.34	0.56
35:BA:1064:C:O2'	45:BK:89:HIS:HA	2.05	0.56
48:BP:8:PRO:C	48:BP:10:PRO:HD3	2.25	0.56
50:BR:4:LEU:O	50:BR:5:LYS:HD3	2.04	0.56
1:CA:1144:G:H21	1:CA:1146:A:H62	1.53	0.56
1:CA:1333:A:H2'	1:CA:1334:G:O4'	2.05	0.56
1:CA:1452:C:H5'	1:CA:1456:G:C5	2.40	0.56
3:CC:112:SER:HB3	3:CC:115:LEU:HD12	1.88	0.56
3:CC:46:GLU:O	3:CC:47:LEU:HB2	2.05	0.56
10:CJ:24:VAL:HG22	10:CJ:72:VAL:HG11	1.87	0.56
13:CM:58:GLU:C	13:CM:60:VAL:H	2.07	0.56
13:CM:90:LEU:HD13	13:CM:94:ARG:NH2	2.20	0.56
25:D0:11:ARG:O	25:D0:14:ARG:NH2	2.38	0.56
30:D5:58:LEU:N	30:D5:58:LEU:HD12	2.20	0.56
35:DA:1173:G:H5'	35:DA:1174:A:C2	2.40	0.56
35:DA:1494:A:C3'	35:DA:1495:A:H5''	2.35	0.56
35:DA:2074:U:H2'	35:DA:2075:U:C6	2.40	0.56
35:DA:2666:C:H5'	35:DA:2667:C:OP2	2.05	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:673:C:H6	35:DA:673:C:C5'	2.14	0.56
38:DD:263:ARG:HB2	38:DD:263:ARG:NH1	2.21	0.56
39:DE:11:MET:HE3	39:DE:24:THR:HB	1.87	0.56
41:DG:118:ARG:H	41:DG:181:ARG:CZ	2.17	0.56
43:DI:64:GLU:HA	43:DI:64:GLU:OE2	2.04	0.56
43:DI:88:ILE:C	43:DI:90:GLY:N	2.58	0.56
52:DT:129:ARG:HG3	52:DT:129:ARG:O	2.05	0.56
54:DV:89:GLN:OE1	54:DV:89:GLN:HA	2.06	0.56
57:DY:42:VAL:CG1	57:DY:65:ALA:HB3	2.35	0.56
57:DY:52:SER:N	57:DY:53:PRO:HD2	2.20	0.56
58:DZ:99:TYR:CE2	58:DZ:125:LEU:HD12	2.41	0.56
58:DZ:28:MET:O	58:DZ:34:ASN:HA	2.05	0.56
58:DZ:81:ARG:NH1	58:DZ:81:ARG:HB3	2.02	0.56
1:AA:165:C:H2'	1:AA:166:G:H8	1.69	0.56
1:AA:243:A:H4'	1:AA:244:U:C5'	2.34	0.56
2:AB:102:LEU:N	2:AB:102:LEU:HD12	2.20	0.56
8:AH:120:THR:OG1	8:AH:123:GLU:HG3	2.06	0.56
10:AJ:44:VAL:CG1	10:AJ:46:ARG:HD2	2.35	0.56
12:AL:18:VAL:HG23	12:AL:19:ARG:N	2.13	0.56
22:AW:52:G:H2'	22:AW:53:G:C8	2.40	0.56
30:B5:29:THR:HG21	35:BA:2814:C:O2'	2.06	0.56
35:BA:2233:U:H2'	35:BA:2234:G:C8	2.41	0.56
40:BF:9:ILE:O	40:BF:9:ILE:HG22	2.05	0.56
41:BG:105:LYS:HZ3	41:BG:143:GLU:HG3	1.70	0.56
42:BH:78:GLY:HA2	42:BH:82:GLY:HA3	1.88	0.56
53:BU:92:ARG:HD2	54:BV:11:GLN:HB2	1.87	0.56
35:BA:310:A:OP1	57:BY:17:SER:O	2.23	0.56
1:CA:1457:G:H2'	1:CA:1458:G:H8	1.70	0.56
19:CS:22:LEU:HA	19:CS:27:GLU:OE2	2.05	0.56
1:CA:192:U:C4'	20:CT:103:GLY:H	2.11	0.56
21:CU:6:ARG:HE	21:CU:15:ARG:HH12	1.54	0.56
22:CV:25:C:H2'	22:CV:26:A:C8	2.40	0.56
24:CY:81:ALA:HB3	24:CY:84:ARG:HB2	1.87	0.56
26:D1:56:GLN:HG3	26:D1:87:PRO:CD	2.35	0.56
35:DA:1064:C:O2'	45:DK:89:HIS:HA	2.06	0.56
35:DA:1771:C:H1'	35:DA:1786:A:C8	2.41	0.56
35:DA:271(C):C:H2'	35:DA:271(D):G:C8	2.41	0.56
42:DH:78:GLY:HA2	42:DH:82:GLY:HA3	1.88	0.56
43:DI:51:ILE:C	43:DI:53:ALA:N	2.56	0.56
43:DI:8:PRO:HA	43:DI:14:ASP:H	1.71	0.56
45:DK:20:ALA:N	45:DK:21:PRO:CD	2.68	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1005:A:H2'	1:AA:1006:C:H5'	1.86	0.56
1:AA:1288:A:O2'	1:AA:1289:A:H5'	2.06	0.56
1:AA:625:G:H2'	1:AA:626:U:H6	1.70	0.56
2:AB:142:LEU:HD23	2:AB:142:LEU:O	2.05	0.56
1:AA:532:A:H61	3:AC:193:TYR:HB3	1.71	0.56
7:AG:12:LEU:CD1	7:AG:25:ALA:HB2	2.34	0.56
8:AH:29:SER:HB3	8:AH:32:LYS:CG	2.36	0.56
10:AJ:57:LYS:HG3	10:AJ:57:LYS:O	2.06	0.56
13:AM:124:PRO:HB3	24:AY:158:PRO:CB	2.36	0.56
13:AM:125:ARG:HA	24:AY:160:PRO:HD2	1.87	0.56
17:AQ:51:TYR:CD2	17:AQ:57:VAL:HG11	2.40	0.56
24:AY:142:ARG:O	24:AY:146:ARG:HG3	2.05	0.56
24:AY:277:LYS:HE2	24:AY:280:LYS:HZ2	1.70	0.56
27:B2:16:LEU:O	27:B2:20:GLU:HB3	2.05	0.56
35:BA:1149:G:H2'	35:BA:1150:C:C6	2.41	0.56
35:BA:1448:G:H5'	35:BA:1449:A:OP1	2.04	0.56
35:BA:2666:C:H3'	35:BA:2667:C:C6	2.41	0.56
38:BD:30:GLU:CB	38:BD:35:LYS:HE3	2.34	0.56
39:BE:203:LYS:O	39:BE:203:LYS:HD2	2.06	0.56
39:BE:93:VAL:HG21	39:BE:180:ASN:HA	1.87	0.56
42:BH:13:LYS:O	42:BH:15:VAL:HG13	2.05	0.56
43:BI:95:LYS:O	43:BI:99:GLU:HB2	2.06	0.56
45:BK:20:ALA:N	45:BK:21:PRO:CD	2.68	0.56
55:BW:12:ILE:HB	55:BW:42:ARG:HH12	1.69	0.56
57:BY:95:LYS:CG	57:BY:100:ALA:HA	2.24	0.56
57:BY:39:VAL:HG12	57:BY:40:GLU:N	2.15	0.56
1:CA:562:C:H4'	1:CA:563:A:O5'	2.06	0.56
1:CA:865:A:H5'	1:CA:1078:U:C4	2.40	0.56
7:CG:102:ARG:HG2	7:CG:106:GLN:NE2	2.17	0.56
8:CH:14:ARG:O	8:CH:18:ARG:HD3	2.04	0.56
9:CI:4:TYR:CB	9:CI:19:LEU:HB2	2.35	0.56
1:CA:521:G:H4'	12:CL:73:GLU:HG2	1.86	0.56
13:CM:125:ARG:HA	24:CY:159:GLY:HA3	1.87	0.56
1:CA:390:C:O3'	16:CP:28:ARG:NH2	2.39	0.56
17:CQ:45:HIS:O	17:CQ:73:VAL:HG23	2.05	0.56
19:CS:33:THR:HG23	19:CS:51:VAL:HA	1.88	0.56
22:CW:50:U:C4'	22:CW:65:G:H22	2.10	0.56
34:D9:29:ASN:HD21	34:D9:32:HIS:CE1	2.24	0.56
35:DA:1038:C:C3'	35:DA:1039:G:H5''	2.35	0.56
35:DA:1078:U:C5'	45:DK:132:ARG:HH12	2.17	0.56
35:DA:2108:C:O2'	35:DA:2109:U:H5'	2.05	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:904:C:C6	35:DA:904:C:H5'	2.25	0.56
38:DD:25:THR:HG22	38:DD:26:LYS:N	2.20	0.56
39:DE:59:VAL:HG13	39:DE:60:ASN:N	2.16	0.56
40:DF:67:GLN:O	40:DF:68:LYS:CB	2.52	0.56
43:DI:58:LEU:HD23	43:DI:58:LEU:C	2.25	0.56
44:DJ:70:UNK:O	44:DJ:71:UNK:CB	2.53	0.56
45:DK:99:ILE:HG23	45:DK:103:GLN:HB3	1.88	0.56
48:DP:115:LEU:HA	48:DP:134:ALA:CB	2.35	0.56
48:DP:125:VAL:O	48:DP:125:VAL:HG23	2.05	0.56
47:DO:107:ARG:HH12	52:DT:35:LYS:HD2	1.68	0.56
52:DT:50:ILE:HA	52:DT:99:LEU:CD1	2.36	0.56
56:DX:7:VAL:HB	56:DX:8:ILE:HD12	1.87	0.56
56:DX:54:VAL:HG22	56:DX:81:VAL:HG12	1.88	0.56
3:AC:77:ILE:O	3:AC:83:ARG:HB3	2.05	0.56
28:B3:19:GLN:HE22	28:B3:52:HIS:CE1	2.23	0.56
35:BA:2099:U:O2	35:BA:2099:U:H2'	2.05	0.56
35:BA:539:G:H2'	35:BA:540:C:H6	1.70	0.56
38:BD:132:PRO:HD3	38:BD:190:TYR:CZ	2.41	0.56
41:BG:86:MET:N	41:BG:87:PRO:CD	2.69	0.56
45:BK:106:GLU:O	45:BK:109:LYS:HG2	2.05	0.56
45:BK:111:LYS:HB3	45:BK:115:LEU:HD11	1.86	0.56
48:BP:50:ARG:HG3	48:BP:51:PHE:H	1.70	0.56
51:BS:18:ILE:C	51:BS:20:ARG:H	2.08	0.56
58:BZ:157:LEU:HB3	58:BZ:161:VAL:HB	1.86	0.56
1:CA:1004:A:H62	1:CA:1034:G:H8	1.53	0.56
1:CA:369:C:O2'	1:CA:370:C:H5'	2.06	0.56
4:CD:32:ALA:C	4:CD:35:ARG:HG3	2.25	0.56
11:CK:67:ASP:OD1	11:CK:71:LYS:HE3	2.06	0.56
12:CL:90:VAL:O	12:CL:90:VAL:HG12	2.06	0.56
24:CY:269:ILE:HD12	49:DQ:80:GLU:CG	2.34	0.56
24:CY:279:LEU:HD23	24:CY:283:LEU:HD11	1.88	0.56
25:D0:53:MET:HA	25:D0:58:THR:O	2.05	0.56
30:D5:36:CYS:SG	30:D5:48:GLU:O	2.63	0.56
35:DA:143:G:H4'	56:DX:35:THR:HG21	1.88	0.56
35:DA:2199:A:H3'	35:DA:2200:C:H6	1.70	0.56
35:DA:2376:A:O2'	51:DS:108:GLY:HA2	2.05	0.56
35:DA:539:G:H2'	35:DA:540:C:H6	1.71	0.56
38:DD:133:LEU:HB3	38:DD:173:VAL:HG11	1.87	0.56
39:DE:119:ARG:HD2	39:DE:120:TRP:CE2	2.40	0.56
40:DF:101:LEU:HD12	40:DF:102:PRO:CD	2.35	0.56
40:DF:18:ARG:HH21	40:DF:20:LEU:HD11	1.71	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:DG:76:SER:OG	41:DG:83:ARG:HB3	2.05	0.56
42:DH:13:LYS:O	42:DH:15:VAL:HG13	2.05	0.56
43:DI:79:ILE:HD11	43:DI:100:ALA:CB	2.35	0.56
46:DN:62:VAL:HG22	46:DN:66:LYS:HD2	1.88	0.56
48:DP:64:LYS:C	48:DP:64:LYS:HD3	2.26	0.56
52:DT:45:PHE:HE2	52:DT:63:VAL:HB	1.68	0.56
53:DU:92:ARG:O	53:DU:94:ASN:N	2.39	0.56
58:DZ:103:ARG:HG3	58:DZ:103:ARG:HH11	1.70	0.56
58:DZ:166:SER:N	58:DZ:167:PRO:HA	2.20	0.56
1:AA:107:G:H2'	1:AA:108:G:H5'	1.88	0.56
3:AC:186:PHE:CZ	3:AC:188:LEU:HD11	2.40	0.56
3:AC:71:ALA:CA	3:AC:106:VAL:HB	2.36	0.56
4:AD:161:ASN:O	4:AD:162:LEU:HG	2.06	0.56
8:AH:12:ARG:HH12	8:AH:27:PRO:CD	2.18	0.56
13:AM:125:ARG:HD2	24:AY:165:ASP:CG	2.26	0.56
18:AR:31:LEU:N	18:AR:31:LEU:HD23	2.18	0.56
27:B2:69:ARG:O	27:B2:70:GLN:HB3	2.06	0.56
29:B4:14:ILE:HB	29:B4:22:ILE:HB	1.87	0.56
35:BA:1050:A:H61	35:BA:1109:C:H6	1.54	0.56
35:BA:279:C:H42	35:BA:361:G:H1	1.54	0.56
35:BA:2591:C:OP1	38:BD:239:ARG:HG2	2.06	0.56
39:BE:32:PRO:HB3	39:BE:69:LYS:HE2	1.88	0.56
41:BG:23:PHE:CE1	41:BG:168:GLU:HA	2.40	0.56
43:BI:72:LEU:O	43:BI:74:ASN:N	2.38	0.56
44:BJ:28:UNK:HA	44:BJ:84:UNK:N	2.21	0.56
49:BQ:42:ILE:N	49:BQ:42:ILE:HD12	2.21	0.56
53:BU:117:GLN:CA	53:BU:117:GLN:HE21	2.10	0.56
54:BV:18:LEU:CG	54:BV:19:LYS:H	2.19	0.56
54:BV:47:VAL:O	54:BV:49:THR:O	2.24	0.56
58:BZ:163:LEU:H	58:BZ:163:LEU:CD2	2.18	0.56
1:CA:424:G:H2'	1:CA:425:G:C8	2.30	0.56
1:CA:946:A:H2'	1:CA:947:G:C8	2.40	0.56
4:CD:23:GLY:O	4:CD:27:TYR:HD1	1.88	0.56
4:CD:49:ARG:CA	4:CD:49:ARG:HE	2.17	0.56
4:CD:74:GLN:HA	4:CD:77:ASN:ND2	2.15	0.56
8:CH:51:VAL:HG11	8:CH:60:ARG:HD3	1.86	0.56
14:CN:24:CYS:HB2	14:CN:29:ARG:HB3	1.87	0.56
15:CO:56:LEU:O	15:CO:60:VAL:HG23	2.06	0.56
15:CO:82:ILE:HG12	15:CO:87:ILE:HG13	1.88	0.56
22:CW:29:G:H2'	22:CW:30:G:H8	1.70	0.56
35:DA:1446:C:O2'	35:DA:1447:G:H5'	2.04	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:1907:G:O2'	35:DA:1908:C:H5'	2.05	0.56
35:DA:1925:C:O2'	35:DA:1926:U:H5'	2.06	0.56
35:DA:2201:C:H2'	35:DA:2202:C:C6	2.41	0.56
40:DF:25:PRO:O	40:DF:26:ALA:C	2.44	0.56
41:DG:46:ALA:HB3	41:DG:88:ILE:HG12	1.87	0.56
47:DO:98:VAL:HG13	47:DO:117:LEU:HB3	1.86	0.56
48:DP:18:ARG:HH11	48:DP:18:ARG:CB	2.18	0.56
1:AA:545:C:O2'	1:AA:546:G:H5'	2.06	0.56
2:AB:86:GLU:C	2:AB:88:ALA:H	2.08	0.56
4:AD:30:LYS:C	4:AD:32:ALA:N	2.55	0.56
5:AE:146:ALA:O	5:AE:149:GLU:HG2	2.05	0.56
7:AG:148:ASN:N	7:AG:148:ASN:HD22	2.02	0.56
10:AJ:20:ALA:O	10:AJ:24:VAL:HG23	2.04	0.56
10:AJ:16:LEU:HD23	10:AJ:94:VAL:HG13	1.88	0.56
22:AW:38:A:C2'	22:AW:39:U:H5''	2.35	0.56
22:AW:51:U:H5'	22:AW:52:G:OP2	2.06	0.56
24:AY:223:LYS:O	24:AY:225:GLU:N	2.31	0.56
35:BA:1142(A):A:O2'	35:BA:1143:A:H3'	2.06	0.56
35:BA:1316:U:H2'	35:BA:1317:A:C8	2.41	0.56
35:BA:1817:G:H2'	35:BA:1818:U:H5'	1.88	0.56
35:BA:203:C:H3'	35:BA:204:A:H5''	1.87	0.56
35:BA:2666:C:H5''	35:BA:2667:C:C5	2.39	0.56
40:BF:164:ARG:HG2	40:BF:164:ARG:NH1	2.20	0.56
41:BG:28:VAL:O	41:BG:31:VAL:HG12	2.05	0.56
41:BG:91:ARG:C	41:BG:91:ARG:HD2	2.26	0.56
50:BR:92:GLY:N	50:BR:94:TYR:CE2	2.74	0.56
47:BO:107:ARG:HH12	52:BT:35:LYS:HD2	1.71	0.56
57:BY:89:PHE:C	57:BY:90:LEU:HD23	2.27	0.56
1:CA:1033:G:C2'	1:CA:1034:G:H5'	2.36	0.56
1:CA:1073:U:H2'	1:CA:1074:G:C8	2.41	0.56
1:CA:6:G:H4'	1:CA:298:A:H4'	1.88	0.56
2:CB:47:THR:HG22	2:CB:51:LEU:HD11	1.88	0.56
5:CE:144:THR:O	5:CE:148:VAL:HG23	2.06	0.56
8:CH:120:THR:HG23	8:CH:123:GLU:OE1	2.06	0.56
10:CJ:3:LYS:O	10:CJ:100:THR:HG23	2.05	0.56
10:CJ:29:ARG:HH11	10:CJ:29:ARG:HG2	1.69	0.56
18:CR:87:ARG:NH1	18:CR:87:ARG:HB3	2.20	0.56
24:CY:344:LEU:H	24:CY:344:LEU:CD2	2.17	0.56
29:D4:12:ALA:CB	29:D4:29:PRO:HA	2.36	0.56
35:DA:1026:U:O2'	35:DA:1027:A:H5'	2.05	0.56
35:DA:1654:A:P	50:DR:3:HIS:HB2	2.45	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:1718:G:O2'	35:DA:1719:G:H5'	2.05	0.56
35:DA:1980:G:O2'	35:DA:1982:C:OP2	2.22	0.56
35:DA:2162:G:O2'	35:DA:2163:C:H5'	2.06	0.56
35:DA:2312:U:H2'	35:DA:2313:C:C5'	2.34	0.56
35:DA:2389:G:H5''	35:DA:2390:U:O4'	2.06	0.56
35:DA:935:C:H2'	35:DA:936:C:H6	1.71	0.56
38:DD:26:LYS:O	38:DD:27:THR:HB	2.05	0.56
38:DD:35:LYS:C	38:DD:37:LEU:H	2.10	0.56
39:DE:5:LEU:HB2	39:DE:51:PHE:HD2	1.70	0.56
41:DG:63:ILE:HD12	41:DG:141:PHE:CG	2.41	0.56
43:DI:7:GLU:N	43:DI:15:VAL:HG12	2.20	0.56
44:DJ:80:UNK:O	44:DJ:82:UNK:N	2.38	0.56
46:DN:18:ALA:HB1	46:DN:21:LYS:CB	2.34	0.56
47:DO:64:ARG:O	47:DO:82:ASN:HA	2.06	0.56
52:DT:30:VAL:HG21	52:DT:84:GLN:H	1.70	0.56
52:DT:87:ASP:O	52:DT:87:ASP:OD2	2.24	0.56
54:DV:38:LEU:CD2	54:DV:38:LEU:C	2.74	0.56
58:DZ:165:VAL:CG1	58:DZ:167:PRO:HA	2.30	0.56
1:AA:1073:U:H2'	1:AA:1074:G:H8	1.71	0.56
1:AA:418:C:H2'	1:AA:419:C:H6	1.71	0.56
1:AA:474:G:H2'	1:AA:475:G:H8	1.71	0.56
2:AB:121:LEU:O	2:AB:127:ILE:HD11	2.06	0.56
4:AD:199:ASN:HD22	4:AD:202:LEU:HG	1.70	0.56
18:AR:87:ARG:NH1	18:AR:87:ARG:HB3	2.21	0.56
35:BA:1408:C:H2'	35:BA:1409:C:C6	2.40	0.56
30:B5:43:HIS:CD2	35:BA:2815:C:O2'	2.59	0.56
35:BA:2832:U:H4'	35:BA:2833:G:H5''	1.87	0.56
38:BD:131:LEU:HD13	38:BD:136:ILE:CG1	2.36	0.56
38:BD:58:HIS:HD2	38:BD:59:LYS:O	1.87	0.56
41:BG:180:PHE:CD1	41:BG:182:LYS:HE3	2.41	0.56
43:BI:92:VAL:HG13	43:BI:120:ILE:CB	2.36	0.56
49:BQ:12:GLN:HG2	49:BQ:73:PRO:HD2	1.88	0.56
35:BA:2849:U:OP2	52:BT:95:ARG:NH1	2.39	0.56
35:BA:996:A:H4'	53:BU:92:ARG:HE	1.71	0.56
1:CA:134:A:H61	16:CP:25:ARG:NH1	2.04	0.56
1:CA:254:G:O2'	1:CA:255:G:H5'	2.06	0.56
1:CA:512:U:H2'	1:CA:513:C:H6	1.69	0.56
1:CA:708:C:H2'	1:CA:709:G:H8	1.71	0.56
8:CH:84:ARG:O	8:CH:135:CYS:HB2	2.06	0.56
10:CJ:38:ILE:HG13	10:CJ:38:ILE:O	2.06	0.56
13:CM:125:ARG:HD3	24:CY:130:CYS:SG	2.46	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:CP:75:ARG:HH11	16:CP:75:ARG:HG3	1.71	0.56
24:CY:50:GLN:O	24:CY:53:ALA:HB3	2.05	0.56
29:D4:26:SER:OG	29:D4:27:THR:N	2.39	0.56
31:D6:15:GLU:CD	31:D6:18:ARG:NE	2.59	0.56
35:DA:2189:U:H3'	35:DA:2190:G:H5''	1.87	0.56
35:DA:2632:A:O2'	39:DE:61:ARG:NH2	2.39	0.56
40:DF:9:ILE:HG22	40:DF:9:ILE:O	2.05	0.56
42:DH:156:ALA:HB3	42:DH:159:GLU:HB3	1.87	0.56
44:DJ:28:UNK:HA	44:DJ:84:UNK:N	2.21	0.56
53:DU:74:LEU:N	53:DU:74:LEU:HD12	2.20	0.56
56:DX:72:LYS:HD2	56:DX:72:LYS:N	2.20	0.56
1:AA:1383:C:H2'	1:AA:1384:C:H6	1.70	0.56
1:AA:186:C:H2'	1:AA:187:C:C6	2.41	0.56
1:AA:523:A:H61	12:AL:53:ARG:HH12	1.53	0.56
4:AD:119:GLN:HG2	4:AD:123:HIS:CD2	2.41	0.56
9:AI:5:TYR:HD2	9:AI:18:PHE:CE2	2.24	0.56
10:AJ:98:ILE:O	10:AJ:99:LYS:HD3	2.06	0.56
1:AA:390:C:O3'	16:AP:28:ARG:NH2	2.39	0.56
17:AQ:76:LEU:HD12	17:AQ:77:VAL:H	1.71	0.56
24:AY:106:LEU:HD23	24:AY:349:LEU:CD1	2.35	0.56
24:AY:266:ARG:HG3	25:B0:3:HIS:CD2	2.41	0.56
28:B3:4:LEU:O	28:B3:36:VAL:HA	2.05	0.56
29:B4:12:ALA:CB	29:B4:29:PRO:HA	2.35	0.56
29:B4:13:ARG:HG2	29:B4:13:ARG:HH11	1.71	0.56
30:B5:58:LEU:HD12	30:B5:58:LEU:N	2.20	0.56
31:B6:33:LYS:HA	31:B6:33:LYS:HE2	1.87	0.56
35:BA:1771:C:H1'	35:BA:1786:A:C8	2.41	0.56
35:BA:2562:U:C2'	35:BA:2563:U:H5'	2.36	0.56
37:BC:52:PRO:HG2	37:BC:53:ARG:HD3	1.87	0.56
39:BE:5:LEU:HB2	39:BE:51:PHE:CD2	2.41	0.56
41:BG:31:VAL:CG2	41:BG:32:PRO:HD2	2.36	0.56
41:BG:38:VAL:HG11	41:BG:91:ARG:HD3	1.88	0.56
46:BN:18:ALA:HB1	46:BN:21:LYS:CB	2.36	0.56
46:BN:1:MET:C	46:BN:2:LYS:HG3	2.25	0.56
47:BO:69:ILE:HD13	47:BO:77:ILE:HG23	1.88	0.56
52:BT:30:VAL:HG21	52:BT:84:GLN:H	1.71	0.56
57:BY:52:SER:N	57:BY:53:PRO:HD2	2.21	0.56
45:BK:94:GLU:HB3	58:BZ:112:ARG:HH21	1.71	0.56
58:BZ:120:ILE:HG22	58:BZ:121:HIS:N	2.20	0.56
1:CA:180:U:H2'	1:CA:181:G:C5'	2.35	0.56
1:CA:37:U:O2'	1:CA:38:G:H5'	2.06	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:96:U:O2'	1:CA:97:G:H8	1.89	0.56
2:CB:126:GLU:HA	2:CB:129:GLU:HG2	1.87	0.56
2:CB:86:GLU:C	2:CB:88:ALA:H	2.08	0.56
12:CL:24:VAL:HG12	12:CL:24:VAL:O	2.04	0.56
13:CM:123:ALA:HB1	24:CY:161:GLU:O	2.05	0.56
24:CY:26:LEU:C	24:CY:26:LEU:HD12	2.27	0.56
27:D2:71:ASN:OD1	27:D2:71:ASN:O	2.24	0.56
29:D4:14:ILE:HG23	29:D4:31:ILE:HG21	1.88	0.56
35:DA:1045:A:H3'	35:DA:1045:A:N3	2.21	0.56
35:DA:1050:A:H61	35:DA:1109:C:H6	1.53	0.56
35:DA:1517:G:O2'	35:DA:1518:U:H5'	2.05	0.56
35:DA:2115:G:H2'	35:DA:2116:G:H5''	1.88	0.56
35:DA:307:G:H21	35:DA:330:A:H62	1.54	0.56
36:DB:8:U:H6	36:DB:8:U:H5'	1.71	0.56
38:DD:34:VAL:O	38:DD:64:ILE:CG2	2.53	0.56
39:DE:203:LYS:HD2	39:DE:203:LYS:O	2.05	0.56
40:DF:157:VAL:HA	40:DF:176:LEU:O	2.06	0.56
40:DF:205:ARG:O	40:DF:205:ARG:HG2	2.06	0.56
40:DF:20:LEU:HB3	40:DF:23:ASP:OD2	2.06	0.56
40:DF:36:VAL:HG11	40:DF:183:VAL:CG1	2.35	0.56
41:DG:54:GLU:C	41:DG:56:ALA:H	2.08	0.56
46:DN:125:GLY:HA2	46:DN:126:PRO:O	2.06	0.56
52:DT:38:ASN:CG	52:DT:39:ARG:H	2.08	0.56
54:DV:35:LEU:HB2	54:DV:57:VAL:HG13	1.86	0.56
58:DZ:49:ARG:NH1	58:DZ:49:ARG:HG2	2.10	0.56
1:AA:358:U:H2'	1:AA:359:U:C6	2.41	0.55
1:AA:646:U:H2'	1:AA:647:C:C6	2.42	0.55
2:AB:18:GLY:N	2:AB:42:ILE:HG22	2.20	0.55
2:AB:204:ASN:ND2	2:AB:206:ASP:H	2.03	0.55
4:AD:23:GLY:O	4:AD:27:TYR:HD1	1.88	0.55
8:AH:122:ARG:CZ	8:AH:122:ARG:HB2	2.36	0.55
10:AJ:49:VAL:O	10:AJ:60:ARG:HB2	2.07	0.55
10:AJ:81:THR:C	10:AJ:83:GLU:H	2.10	0.55
35:BA:2112:G:OP1	35:BA:2112:G:O4'	2.24	0.55
35:BA:2389:G:H5''	35:BA:2390:U:O4'	2.06	0.55
35:BA:2580:U:H4'	39:BE:130:GLY:HA2	1.87	0.55
35:BA:661:C:O3'	48:BP:18:ARG:HD2	2.06	0.55
41:BG:136:ARG:NH1	41:BG:136:ARG:HG2	2.21	0.55
42:BH:92:ILE:HG22	42:BH:93:GLY:N	2.21	0.55
35:BA:2415:G:O3'	48:BP:66:GLY:HA3	2.06	0.55
48:BP:99:LEU:O	48:BP:99:LEU:HD23	2.05	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
57:BY:86:ARG:HG2	57:BY:87:LYS:N	2.21	0.55
58:BZ:163:LEU:HD12	58:BZ:165:VAL:HG23	1.88	0.55
1:CA:1343:G:H1'	9:CI:121:ARG:HH12	1.72	0.55
1:CA:523:A:N6	12:CL:53:ARG:HH12	2.04	0.55
2:CB:36:ARG:HH11	2:CB:36:ARG:HG2	1.71	0.55
4:CD:126:ILE:HG22	4:CD:127:THR:H	1.70	0.55
8:CH:19:VAL:CG2	8:CH:21:LYS:HE2	2.36	0.55
10:CJ:20:ALA:O	10:CJ:24:VAL:HG23	2.05	0.55
10:CJ:81:THR:C	10:CJ:83:GLU:H	2.09	0.55
15:CO:36:ILE:HG23	15:CO:56:LEU:HD11	1.87	0.55
13:CM:86:CYS:HB2	19:CS:73:GLU:HG2	1.89	0.55
22:CW:38:A:H2'	22:CW:39:U:C5'	2.35	0.55
28:D3:8:LEU:HD13	28:D3:31:LEU:CD2	2.20	0.55
32:D7:35:ARG:HD3	35:DA:54:G:O2'	2.06	0.55
35:DA:1270:C:H5''	35:DA:1271:G:O5'	2.07	0.55
35:DA:1396:U:H2'	35:DA:1396:U:O2	2.05	0.55
35:DA:1945:G:H2'	35:DA:1946:U:C6	2.41	0.55
35:DA:2553:G:H2'	35:DA:2554:U:O4'	2.07	0.55
35:DA:943:U:OP2	48:DP:38:GLN:CD	2.45	0.55
45:DK:106:GLU:O	45:DK:109:LYS:HG2	2.06	0.55
49:DQ:12:GLN:HG2	49:DQ:73:PRO:HD2	1.87	0.55
51:DS:28:VAL:HG13	51:DS:99:LYS:NZ	2.21	0.55
1:AA:1004:A:H62	1:AA:1034:G:H8	1.53	0.55
1:AA:1220:G:H2'	1:AA:1221:G:C8	2.41	0.55
1:AA:1476:G:H2'	1:AA:1477:C:H6	1.71	0.55
1:AA:390:C:H2'	1:AA:391:G:H8	1.71	0.55
1:AA:879:C:O2'	1:AA:880:C:H5'	2.06	0.55
3:AC:167:TRP:O	3:AC:168:ALA:HB3	2.07	0.55
8:AH:82:HIS:CE1	8:AH:84:ARG:HB2	2.41	0.55
17:AQ:52:LYS:HD2	17:AQ:52:LYS:H	1.70	0.55
24:AY:220:VAL:HG12	24:AY:222:LEU:CD2	2.37	0.55
31:B6:26:ASN:ND2	31:B6:32:ASN:ND2	2.54	0.55
35:BA:1173:G:H5'	35:BA:1174:A:C2	2.41	0.55
35:BA:2861:G:O2'	35:BA:2862:G:H5'	2.06	0.55
35:BA:2591:C:OP2	38:BD:239:ARG:HB3	2.06	0.55
40:BF:205:ARG:O	40:BF:205:ARG:HG2	2.06	0.55
43:BI:120:ILE:O	43:BI:122:GLU:N	2.38	0.55
48:BP:41:ARG:CA	48:BP:41:ARG:HE	2.20	0.55
48:BP:92:GLU:HG3	48:BP:93:GLY:H	1.70	0.55
57:BY:59:GLY:O	57:BY:60:PHE:HB2	2.05	0.55
1:CA:998:G:O2'	1:CA:999:C:H5'	2.06	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CB:145:LEU:CD1	2:CB:149:LEU:HD12	2.36	0.55
2:CB:16:HIS:HB3	2:CB:210:SER:HA	1.87	0.55
1:CA:1060:C:C5	3:CC:2:GLY:HA3	2.40	0.55
4:CD:119:GLN:HG2	4:CD:123:HIS:CD2	2.41	0.55
5:CE:50:GLU:HB3	5:CE:53:LEU:HD12	1.88	0.55
6:CF:1:MET:HB3	6:CF:66:GLU:HG2	1.87	0.55
9:CI:3:GLN:OE1	9:CI:20:ARG:NH2	2.39	0.55
10:CJ:49:VAL:O	10:CJ:60:ARG:HB2	2.06	0.55
24:CY:172:LYS:O	24:CY:176:ALA:HB2	2.06	0.55
24:CY:46:ARG:NE	24:CY:46:ARG:O	2.40	0.55
35:DA:1149:G:H2'	35:DA:1150:C:C6	2.41	0.55
35:DA:2327:A:H2'	35:DA:2328:A:C8	2.40	0.55
36:DB:29:A:H2'	36:DB:30:C:O4'	2.05	0.55
37:DC:191:ARG:HH11	37:DC:191:ARG:HG3	1.71	0.55
40:DF:164:ARG:HG2	40:DF:164:ARG:NH1	2.20	0.55
41:DG:71:THR:HG22	41:DG:89:GLY:C	2.27	0.55
46:DN:89:LYS:O	46:DN:93:THR:HG22	2.05	0.55
50:DR:98:LEU:O	50:DR:113:LEU:HD23	2.06	0.55
53:DU:92:ARG:HD2	54:DV:11:GLN:HB2	1.89	0.55
35:DA:143:G:H1'	56:DX:37:THR:CG2	2.36	0.55
1:AA:1436:U:H2'	1:AA:1437:C:O4'	2.07	0.55
1:AA:137:C:N4	1:AA:226:G:H1	1.93	0.55
1:AA:627:G:O2'	1:AA:628:G:H5'	2.07	0.55
2:AB:135:GLN:O	2:AB:139:LYS:HG2	2.06	0.55
2:AB:167:PRO:HG3	2:AB:188:ALA:CB	2.37	0.55
4:AD:133:VAL:HG12	4:AD:135:LEU:H	1.70	0.55
5:AE:147:ASP:HA	5:AE:150:ARG:NH1	2.21	0.55
9:AI:111:ARG:HG2	9:AI:112:LYS:N	2.19	0.55
26:B1:4:VAL:HG23	26:B1:11:ARG:HB3	1.88	0.55
35:BA:271(G):C:O2'	35:BA:271(H):G:H5'	2.06	0.55
35:BA:2794:C:H42	35:BA:2801(A):A:N6	2.04	0.55
39:BE:87:GLU:C	39:BE:89:ASP:H	2.10	0.55
40:BF:9:ILE:HG23	40:BF:11:VAL:O	2.06	0.55
41:BG:15:VAL:HG21	41:BG:175:LEU:O	2.07	0.55
43:BI:76:THR:HG21	43:BI:141:LYS:HE3	1.87	0.55
46:BN:56:ASN:H	46:BN:125:GLY:HA3	1.68	0.55
51:BS:34:HIS:CE1	51:BS:54:LEU:HB2	2.41	0.55
52:BT:38:ASN:HD22	52:BT:39:ARG:N	2.01	0.55
1:CA:16:A:N1	1:CA:919:A:H2	2.05	0.55
1:CA:445:G:H2'	1:CA:446:G:H8	1.71	0.55
1:CA:501:C:H2'	1:CA:502:G:C8	2.41	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:628:G:H2'	1:CA:629:G:C8	2.41	0.55
1:CA:692:U:OP1	11:CK:124:LYS:HE2	2.06	0.55
2:CB:19:HIS:O	2:CB:20:GLU:O	2.24	0.55
2:CB:22:LYS:HE2	2:CB:22:LYS:CA	2.26	0.55
5:CE:12:LEU:CD1	5:CE:31:LEU:HB3	2.36	0.55
5:CE:11:ILE:HG22	5:CE:12:LEU:N	2.21	0.55
10:CJ:44:VAL:CG1	10:CJ:46:ARG:HD2	2.36	0.55
12:CL:45:PRO:HG3	12:CL:53:ARG:HD3	1.88	0.55
13:CM:99:ARG:HB2	13:CM:101:GLN:NE2	2.22	0.55
15:CO:82:ILE:HG23	15:CO:83:GLU:H	1.70	0.55
11:CK:111:ASP:HA	18:CR:84:LYS:HD2	1.88	0.55
22:CW:16:U:C6	22:CW:18:G:H5''	2.41	0.55
24:CY:144:ALA:HB1	24:CY:149:PHE:HB2	1.89	0.55
35:DA:1292:U:H2'	35:DA:1293:C:H6	1.70	0.55
35:DA:1441:G:O2'	35:DA:1442:G:H5'	2.05	0.55
35:DA:1857:G:O2'	35:DA:1885:A:N6	2.40	0.55
38:DD:11:PRO:C	38:DD:13:ARG:H	2.06	0.55
38:DD:66:ASP:OD2	38:DD:69:ARG:HG2	2.06	0.55
39:DE:87:GLU:C	39:DE:89:ASP:H	2.09	0.55
41:DG:127:GLY:C	41:DG:129:GLY:N	2.59	0.55
42:DH:13:LYS:CA	42:DH:13:LYS:HE2	2.23	0.55
46:DN:17:ASP:OD2	46:DN:19:GLU:HB3	2.07	0.55
57:DY:8:LYS:HB2	57:DY:28:LYS:NZ	2.21	0.55
57:DY:42:VAL:CB	57:DY:65:ALA:HB3	2.37	0.55
58:DZ:4:ARG:HB3	58:DZ:60:GLU:OE1	2.06	0.55
1:AA:1097:C:H2'	1:AA:1098:C:H6	1.71	0.55
1:AA:1442(B):A:N3	1:AA:1442(B):A:H2'	2.22	0.55
1:AA:605:U:H2'	1:AA:606:G:O4'	2.07	0.55
3:AC:52:LEU:CD2	3:AC:52:LEU:H	2.18	0.55
7:AG:120:ILE:HD12	7:AG:120:ILE:N	2.21	0.55
8:AH:5:PRO:O	8:AH:8:ASP:HB3	2.06	0.55
12:AL:27:LEU:C	12:AL:29:GLY:H	2.09	0.55
13:AM:112:GLY:O	13:AM:113:PRO:HG2	2.06	0.55
16:AP:75:ARG:HG3	16:AP:75:ARG:HH11	1.70	0.55
22:AV:72:C:H2'	22:AV:73:A:H5''	1.88	0.55
22:AW:25:C:H2'	22:AW:26:A:C8	2.38	0.55
24:AY:109:PHE:HB2	24:AY:112:ALA:CB	2.36	0.55
24:AY:156:LEU:C	24:AY:156:LEU:HD23	2.27	0.55
24:AY:187:HIS:NE2	24:AY:311:ILE:HD11	2.22	0.55
24:AY:282:ARG:HB2	24:AY:282:ARG:NH2	2.21	0.55
24:AY:295:LEU:HD13	24:AY:295:LEU:O	2.06	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:1528(A):A:C2'	35:BA:1529:G:H5''	2.36	0.55
35:BA:621:A:H2'	35:BA:622:G:C5'	2.36	0.55
38:BD:186:HIS:CD2	38:BD:188:GLU:HB2	2.41	0.55
42:BH:156:ALA:HB3	42:BH:159:GLU:HB3	1.88	0.55
42:BH:53:GLU:HA	42:BH:53:GLU:OE1	2.04	0.55
44:BJ:72:UNK:C	44:BJ:74:UNK:N	2.68	0.55
50:BR:2:ARG:CD	50:BR:5:LYS:HZ1	2.20	0.55
51:BS:99:LYS:O	51:BS:101:LEU:N	2.38	0.55
1:CA:926:G:N2	1:CA:1505:G:H2'	2.22	0.55
2:CB:18:GLY:CA	2:CB:42:ILE:HG22	2.36	0.55
3:CC:156:ARG:HD3	3:CC:194:GLY:HA3	1.88	0.55
4:CD:199:ASN:HD22	4:CD:202:LEU:HG	1.71	0.55
9:CI:19:LEU:O	9:CI:20:ARG:HG3	2.05	0.55
16:CP:17:TYR:N	16:CP:17:TYR:CD1	2.74	0.55
1:CA:255:G:H1'	17:CQ:16:GLN:HE21	1.71	0.55
20:CT:57:ARG:NH1	20:CT:102:GLY:HA3	2.21	0.55
22:CV:66:U:H2'	22:CV:67:C:O4'	2.07	0.55
24:CY:205:PHE:HE2	24:CY:310:GLN:NE2	2.05	0.55
24:CY:227:LEU:HD11	24:CY:276:LEU:HD22	1.86	0.55
24:CY:251:VAL:HG23	24:CY:279:LEU:HD12	1.87	0.55
26:D1:61:ARG:HG3	26:D1:61:ARG:HH11	1.70	0.55
30:D5:7:PRO:HG2	35:DA:2016:U:O2	2.06	0.55
35:DA:2122:U:H2'	35:DA:2123:G:H8	1.71	0.55
35:DA:2779:U:H1'	35:DA:2781:A:C6	2.42	0.55
35:DA:28:A:N6	35:DA:512:G:H1'	2.21	0.55
40:DF:9:ILE:HG23	40:DF:11:VAL:O	2.07	0.55
47:DO:111:PHE:HB3	47:DO:114:ILE:HD13	1.89	0.55
48:DP:143:GLY:O	48:DP:144:GLU:HB2	2.07	0.55
51:DS:18:ILE:C	51:DS:20:ARG:H	2.09	0.55
54:DV:21:ARG:HB3	54:DV:91:TYR:HB2	1.88	0.55
57:DY:88:LYS:CE	57:DY:93:GLY:HA3	2.37	0.55
57:DY:90:LEU:HD12	57:DY:91:GLU:HG2	1.88	0.55
1:AA:1033:G:C2'	1:AA:1034:G:H5'	2.37	0.55
1:AA:1172:C:H2'	1:AA:1173:G:C8	2.41	0.55
1:AA:368:U:OP1	43:DI:91:SER:CB	2.55	0.55
1:AA:688:G:H2'	1:AA:689:C:H6	1.71	0.55
1:AA:96:U:O2'	1:AA:97:G:H8	1.90	0.55
2:AB:72:GLY:HA2	2:AB:165:VAL:HG22	1.88	0.55
2:AB:204:ASN:HD22	2:AB:206:ASP:H	1.54	0.55
2:AB:93:VAL:HG21	2:AB:97:TRP:CD1	2.42	0.55
3:AC:73:PRO:C	3:AC:76:VAL:HG22	2.27	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:537:G:H5''	12:AL:113:ARG:NH1	2.22	0.55
13:AM:69:GLU:HA	13:AM:70:LEU:N	2.21	0.55
15:AO:6:GLU:N	15:AO:6:GLU:OE1	2.39	0.55
15:AO:82:ILE:HG23	15:AO:83:GLU:H	1.72	0.55
23:AX:14:A:H2	23:AX:15:A:H62	1.51	0.55
25:B0:68:GLU:CG	25:B0:80:HIS:HB2	2.37	0.55
31:B6:26:ASN:ND2	31:B6:32:ASN:HD21	2.03	0.55
35:BA:1131:G:O6	35:BA:2040:C:H1'	2.06	0.55
35:BA:2074:U:H2'	35:BA:2075:U:C6	2.41	0.55
35:BA:2779:U:H1'	35:BA:2781:A:C6	2.42	0.55
35:BA:66:C:H2'	35:BA:67:U:H6	1.70	0.55
36:BB:66:A:H61	36:BB:108:U:H2'	1.71	0.55
36:BB:40:U:C2	36:BB:43:C:H5''	2.41	0.55
39:BE:96:PHE:HA	39:BE:100:GLU:OE1	2.07	0.55
40:BF:101:LEU:HD12	40:BF:102:PRO:CD	2.37	0.55
45:BK:82:ALA:HB1	45:BK:98:ARG:H	1.72	0.55
46:BN:30:ILE:O	46:BN:34:LEU:HD22	2.06	0.55
48:BP:64:LYS:C	48:BP:64:LYS:HD3	2.26	0.55
49:BQ:14:ARG:HG2	49:BQ:41:TRP:CH2	2.41	0.55
58:BZ:125:LEU:HD22	58:BZ:164:ALA:HB3	1.86	0.55
1:CA:1040:U:H2'	1:CA:1041:A:C8	2.42	0.55
1:CA:1128:C:H4'	9:CI:16:ARG:HH12	1.71	0.55
1:CA:165:C:H2'	1:CA:166:G:C8	2.42	0.55
1:CA:15:G:H2'	1:CA:16:A:C8	2.41	0.55
1:CA:637:G:H2'	1:CA:638:G:C8	2.42	0.55
2:CB:11:LEU:C	2:CB:213:LEU:HD11	2.27	0.55
4:CD:126:ILE:CG2	4:CD:127:THR:N	2.69	0.55
10:CJ:58:ASP:O	10:CJ:59:SER:C	2.45	0.55
12:CL:75:HIS:HD2	12:CL:77:LEU:HB2	1.72	0.55
13:CM:54:VAL:O	13:CM:58:GLU:HG2	2.07	0.55
1:CA:626:U:H5''	16:CP:38:TYR:CD2	2.42	0.55
22:CW:55:U:O2'	22:CW:56:C:H5	1.90	0.55
22:CW:6:G:N2	22:CW:7:A:H62	2.05	0.55
22:CW:70:G:H4'	22:CW:71:G:OP1	2.06	0.55
24:CY:306:GLU:HG3	24:CY:307:TRP:H	1.69	0.55
26:D1:8:SER:OG	26:D1:10:LYS:HG3	2.06	0.55
31:D6:39:TYR:O	31:D6:46:HIS:CD2	2.58	0.55
33:D8:33:ASN:HA	33:D8:36:LYS:HD3	1.87	0.55
35:DA:2604:U:O2'	35:DA:2605:U:H5'	2.07	0.55
35:DA:996:A:OP2	53:DU:92:ARG:NH2	2.39	0.55
40:DF:192:LEU:HD22	40:DF:194:MET:HG3	1.88	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:DH:29:PRO:HD2	42:DH:79:VAL:O	2.05	0.55
35:DA:748:G:C8	55:DW:89:ALA:HB1	2.42	0.55
58:DZ:154:ASP:N	58:DZ:154:ASP:OD2	2.38	0.55
1:AA:1053:G:C6	1:AA:1199:U:H2'	2.41	0.55
1:AA:1097:C:O2'	1:AA:1098:C:H5'	2.05	0.55
1:AA:254:G:O2'	1:AA:255:G:H5'	2.07	0.55
1:AA:560:U:O2'	1:AA:561:U:OP2	2.20	0.55
1:AA:76:C:H42	1:AA:93:G:H1	1.53	0.55
2:AB:19:HIS:O	2:AB:20:GLU:O	2.24	0.55
2:AB:219:VAL:O	2:AB:222:ILE:HB	2.05	0.55
2:AB:93:VAL:HG11	2:AB:97:TRP:HD1	1.72	0.55
7:AG:29:LYS:HB2	7:AG:105:VAL:HG21	1.89	0.55
8:AH:20:TYR:HD1	8:AH:65:TYR:CD2	2.25	0.55
1:AA:1152:A:H5''	10:AJ:13:HIS:HD2	1.70	0.55
12:AL:24:VAL:O	12:AL:24:VAL:HG12	2.07	0.55
12:AL:53:ARG:NH1	12:AL:92:ASP:OD2	2.39	0.55
12:AL:65:GLU:HG2	12:AL:65:GLU:O	2.07	0.55
13:AM:118:ALA:HB1	13:AM:119:GLY:N	2.22	0.55
19:AS:28:LYS:NZ	19:AS:29:ARG:NH2	2.54	0.55
19:AS:33:THR:HG23	19:AS:51:VAL:HA	1.88	0.55
22:AV:53:G:O2'	22:AV:54:U:H5'	2.06	0.55
35:BA:1453:U:H5'	50:BR:63:ARG:NE	2.21	0.55
35:BA:1721:G:H5'	35:BA:1722:A:OP2	2.05	0.55
35:BA:743:G:O2'	35:BA:744:G:H5'	2.06	0.55
27:B2:48:HIS:HE2	35:BA:96:G:H4'	1.68	0.55
40:BF:29:ASN:ND2	40:BF:32:LEU:HB2	2.22	0.55
41:BG:110:ALA:HB1	41:BG:140:ILE:HD13	1.88	0.55
41:BG:44:GLY:HA2	41:BG:88:ILE:HB	1.87	0.55
42:BH:29:PRO:HD2	42:BH:79:VAL:O	2.07	0.55
54:BV:59:ALA:HB2	54:BV:96:ILE:HD13	1.89	0.55
1:CA:1042:G:O2'	1:CA:1043:C:H5'	2.07	0.55
1:CA:1463:C:O2'	1:CA:1464:G:H5'	2.07	0.55
1:CA:783:C:O2'	1:CA:784:C:H5'	2.07	0.55
3:CC:52:LEU:H	3:CC:52:LEU:CD2	2.18	0.55
31:D6:28:ARG:CA	31:D6:32:ASN:HD22	2.14	0.55
33:D8:6:THR:HB	33:D8:63:PRO:HG3	1.87	0.55
35:DA:2666:C:H5''	35:DA:2667:C:C5	2.40	0.55
35:DA:27:G:N2	35:DA:512:G:O2'	2.40	0.55
37:DC:21:TYR:HB2	37:DC:225:ILE:HG22	1.89	0.55
40:DF:70:THR:HG22	40:DF:72:ARG:HG2	1.89	0.55
41:DG:33:ARG:HG3	41:DG:33:ARG:HH11	1.72	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:DI:50:ARG:C	43:DI:51:ILE:HD13	2.26	0.55
45:DK:20:ALA:H	45:DK:21:PRO:HD3	1.72	0.55
46:DN:9:VAL:HG21	46:DN:48:MET:HB2	1.87	0.55
48:DP:92:GLU:HG3	48:DP:93:GLY:H	1.70	0.55
58:DZ:72:ARG:NH2	58:DZ:97:GLU:O	2.37	0.55
1:AA:1027:C:H2'	1:AA:1028:C:C6	2.41	0.55
1:AA:300:A:H2'	1:AA:301:G:O4'	2.07	0.55
1:AA:539:A:H2'	1:AA:540:G:H8	1.69	0.55
1:AA:624:C:H2'	1:AA:625:G:C8	2.35	0.55
2:AB:223:ILE:HG12	2:AB:226:ARG:CZ	2.37	0.55
4:AD:49:ARG:HE	4:AD:49:ARG:CA	2.16	0.55
6:AF:17:SER:O	6:AF:21:LEU:HD23	2.06	0.55
12:AL:24:VAL:CG2	12:AL:97:ARG:HB3	2.37	0.55
24:AY:189:LEU:HD21	24:AY:191:ARG:CG	2.36	0.55
24:AY:40:ASN:O	24:AY:42:PRO:HD3	2.06	0.55
35:BA:1042:G:H2'	35:BA:1042:G:N3	2.21	0.55
35:BA:1270:C:H5''	35:BA:1271:G:O5'	2.07	0.55
35:BA:768:G:O2'	35:BA:1379:A:N6	2.40	0.55
35:BA:528:A:N1	35:BA:2042:A:H2'	2.21	0.55
35:BA:2335:A:O2'	35:BA:2336:A:H5''	2.07	0.55
35:BA:2787:C:O2	39:BE:61:ARG:NH1	2.38	0.55
35:BA:648:G:O2'	35:BA:649:G:H5'	2.07	0.55
44:BJ:55:UNK:O	44:BJ:57:UNK:N	2.40	0.55
45:BK:104:VAL:O	45:BK:107:ILE:HG22	2.07	0.55
35:BA:1063:G:C4'	45:BK:134:MET:HG2	2.32	0.55
52:BT:28:VAL:HG13	52:BT:46:GLU:CA	2.33	0.55
57:BY:31:LEU:HD22	57:BY:31:LEU:N	2.22	0.55
57:BY:42:VAL:CG1	57:BY:65:ALA:HB3	2.36	0.55
49:BQ:130:LYS:HZ2	58:BZ:80:ARG:HD2	1.71	0.55
1:CA:710:G:O2'	1:CA:711:G:H5'	2.06	0.55
2:CB:135:GLN:O	2:CB:139:LYS:HG2	2.06	0.55
5:CE:146:ALA:O	5:CE:149:GLU:HG2	2.06	0.55
12:CL:117:ARG:NH2	12:CL:124:LYS:HB2	2.22	0.55
1:CA:1229:A:OP2	13:CM:114:ARG:HD3	2.06	0.55
19:CS:39:THR:HG22	19:CS:40:ILE:N	2.22	0.55
24:CY:321:VAL:HG23	24:CY:333:PRO:HA	1.88	0.55
24:CY:323:ASP:CB	24:CY:326:THR:HG22	2.32	0.55
27:D2:43:GLN:O	27:D2:45:SER:N	2.40	0.55
28:D3:19:GLN:HE22	28:D3:52:HIS:CE1	2.25	0.55
31:D6:41:PRO:HD2	31:D6:46:HIS:HB3	1.70	0.55
35:DA:1056:G:H4'	35:DA:1085:A:H2	1.70	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:1495:A:N3	35:DA:1496:A:C2	2.75	0.55
35:DA:1504:C:O2'	35:DA:1505:C:C5'	2.55	0.55
35:DA:1131:G:O6	35:DA:2040:C:H1'	2.06	0.55
35:DA:2655:G:H1'	35:DA:2656:U:H5	1.71	0.55
35:DA:271(G):C:O2'	35:DA:271(H):G:H5'	2.07	0.55
35:DA:654(T):C:N4	35:DA:654(U):A:N3	2.55	0.55
36:DB:40:U:C2	36:DB:43:C:H5''	2.42	0.55
38:DD:32:SER:CA	38:DD:35:LYS:HZ1	2.20	0.55
39:DE:181:LEU:HD21	52:DT:7:ILE:CG2	2.37	0.55
40:DF:140:LEU:HD13	40:DF:170:LEU:HD21	1.87	0.55
41:DG:121:ASN:ND2	41:DG:122:PRO:N	2.54	0.55
43:DI:15:VAL:C	43:DI:17:GLN:H	2.10	0.55
43:DI:91:SER:O	43:DI:92:VAL:CG1	2.54	0.55
50:DR:2:ARG:HB2	50:DR:5:LYS:HZ3	1.72	0.55
50:DR:4:LEU:C	50:DR:5:LYS:HG2	2.27	0.55
52:DT:28:VAL:HB	52:DT:88:ILE:HG12	1.89	0.55
54:DV:38:LEU:HD23	54:DV:39:LEU:N	2.22	0.55
57:DY:44:ILE:HG22	57:DY:45:VAL:N	2.18	0.55
58:DZ:44:PHE:C	58:DZ:44:PHE:CD1	2.80	0.55
58:DZ:63:ASP:CB	58:DZ:65:GLN:HG3	2.37	0.55
1:AA:1004:A:H5'	1:AA:1005:A:OP1	2.07	0.55
1:AA:116:A:H8	1:AA:116:A:O5'	1.90	0.55
1:AA:15:G:H2'	1:AA:16:A:C8	2.42	0.55
2:AB:47:THR:HG22	2:AB:51:LEU:HD11	1.89	0.55
2:AB:76:GLN:O	2:AB:208:ILE:HG23	2.07	0.55
3:AC:46:GLU:O	3:AC:47:LEU:HB2	2.06	0.55
6:AF:97:PHE:HB2	18:AR:32:ARG:HH11	1.72	0.55
7:AG:73:MET:HA	7:AG:91:VAL:HG23	1.88	0.55
1:AA:692:U:OP1	11:AK:124:LYS:HE2	2.06	0.55
12:AL:38:THR:OG1	12:AL:39:VAL:HG23	2.05	0.55
22:AW:40:C:H5'	22:AW:40:C:H6	1.72	0.55
24:AY:137:LEU:HD21	24:AY:169:ILE:HD11	1.88	0.55
24:AY:27:LYS:O	24:AY:31:ARG:HB2	2.07	0.55
25:B0:48:GLY:HA3	25:B0:80:HIS:ND1	2.22	0.55
35:BA:1054:A:C2'	35:BA:1055:G:H5''	2.33	0.55
35:BA:1077:A:O2'	35:BA:1078:U:H5'	2.07	0.55
35:BA:2300:G:O2'	35:BA:2301:C:H5'	2.07	0.55
35:BA:2543:G:H21	35:BA:2646:C:H5''	1.72	0.55
35:BA:27:G:N2	35:BA:512:G:O2'	2.40	0.55
35:BA:654(T):C:N4	35:BA:654(U):A:N3	2.55	0.55
35:BA:80:G:O2'	35:BA:81:G:H5'	2.07	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
54:BV:89:GLN:OE1	54:BV:89:GLN:HA	2.07	0.55
1:CA:1224:G:H4'	13:CM:102:ARG:NH1	2.22	0.55
2:CB:102:LEU:HD12	2:CB:102:LEU:N	2.21	0.55
2:CB:76:GLN:O	2:CB:208:ILE:HG23	2.07	0.55
3:CC:148:GLY:HA3	3:CC:172:ARG:O	2.07	0.55
3:CC:20:SER:HB2	3:CC:40:ARG:NH2	2.22	0.55
8:CH:91:ARG:CG	8:CH:91:ARG:HH11	2.19	0.55
15:CO:37:ASN:N	15:CO:37:ASN:ND2	2.55	0.55
30:D5:51:TYR:CD2	30:D5:52:TYR:CZ	2.93	0.55
34:D9:15:LYS:HE2	34:D9:17:ILE:HD11	1.89	0.55
35:DA:1109:C:H2'	35:DA:1110:G:H5'	1.88	0.55
35:DA:2111:C:H1'	35:DA:2118:U:O4'	2.07	0.55
35:DA:2352:A:H2'	35:DA:2353:G:O4'	2.07	0.55
35:DA:2068:U:N3	35:DA:2430:A:C2	2.53	0.55
37:DC:195:ARG:NH1	37:DC:195:ARG:HG3	2.21	0.55
39:DE:52:LEU:O	39:DE:74:PRO:HB3	2.05	0.55
41:DG:113:ARG:HE	41:DG:113:ARG:N	2.03	0.55
41:DG:48:GLU:CD	41:DG:49:ASP:N	2.60	0.55
42:DH:158:HIS:HE1	42:DH:169:VAL:O	1.90	0.55
42:DH:92:ILE:HG22	42:DH:93:GLY:N	2.20	0.55
43:DI:121:LYS:O	43:DI:122:GLU:HG2	2.05	0.55
54:DV:18:LEU:CG	54:DV:19:LYS:H	2.19	0.55
54:DV:18:LEU:O	54:DV:19:LYS:O	2.24	0.55
58:DZ:126:VAL:HB	58:DZ:162:GLU:O	2.07	0.55
1:AA:356:A:H2'	1:AA:357:G:H8	1.71	0.55
4:AD:126:ILE:CG2	4:AD:127:THR:N	2.70	0.55
4:AD:15:GLU:HA	4:AD:15:GLU:OE1	2.07	0.55
6:AF:7:ASN:HD21	18:AR:34:TYR:HE1	1.53	0.55
12:AL:58:VAL:O	12:AL:60:LEU:HD22	2.07	0.55
13:AM:30:ALA:C	13:AM:32:GLU:H	2.11	0.55
13:AM:65:LYS:HB2	13:AM:69:GLU:O	2.07	0.55
13:AM:83:ASP:OD2	13:AM:84:ILE:N	2.40	0.55
16:AP:64:ALA:O	16:AP:65:GLN:C	2.46	0.55
19:AS:22:LEU:HD13	19:AS:27:GLU:CB	2.37	0.55
22:AV:44:G:C2'	22:AV:45:U:H5'	2.37	0.55
24:AY:235:SER:HB3	24:AY:263:GLN:HE22	1.72	0.55
22:AV:76:8AN:O2'	24:AY:240:GLN:HB2	2.07	0.55
29:B4:18:CYS:SG	29:B4:35:VAL:HA	2.46	0.55
31:B6:25:LYS:HZ1	35:BA:2284:C:N4	2.05	0.55
34:B9:17:ILE:HB	34:B9:26:ILE:HD13	1.88	0.55
35:BA:2789:C:H1'	35:BA:2892:A:H2	1.71	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BB:29:A:H2'	36:BB:30:C:O4'	2.07	0.55
39:BE:52:LEU:HD23	39:BE:76:ARG:HB2	1.89	0.55
40:BF:187:VAL:HG12	40:BF:187:VAL:O	2.06	0.55
41:BG:41:GLN:NE2	41:BG:153:ARG:HD2	2.22	0.55
45:BK:137:GLU:HG3	45:BK:138:VAL:H	1.69	0.55
45:BK:57:ILE:HG22	45:BK:58:THR:N	2.22	0.55
48:BP:16:ARG:O	48:BP:16:ARG:NH1	2.37	0.55
48:BP:23:PRO:O	48:BP:33:ARG:CZ	2.55	0.55
48:BP:32:THR:O	48:BP:33:ARG:CB	2.54	0.55
54:BV:19:LYS:HZ3	54:BV:20:LEU:H	1.52	0.55
54:BV:35:LEU:HB2	54:BV:57:VAL:HG13	1.89	0.55
1:CA:1073:U:H2'	1:CA:1074:G:H8	1.71	0.55
1:CA:1169:A:H2'	1:CA:1170:A:H8	1.72	0.55
1:CA:1519:A:C3'	1:CA:1520:G:H5'	2.36	0.55
1:CA:76:C:H42	1:CA:93:G:H1	1.54	0.55
1:CA:867:G:O2'	1:CA:868:C:H5'	2.06	0.55
2:CB:162:ILE:HD13	2:CB:177:ALA:CB	2.36	0.55
2:CB:204:ASN:ND2	2:CB:206:ASP:H	2.05	0.55
4:CD:55:ALA:O	4:CD:59:ARG:HG2	2.07	0.55
5:CE:147:ASP:O	5:CE:151:LEU:HG	2.07	0.55
9:CI:79:LEU:HD11	9:CI:83:ARG:HH21	1.72	0.55
13:CM:112:GLY:HA2	13:CM:113:PRO:CD	2.36	0.55
19:CS:22:LEU:HD13	19:CS:27:GLU:HB2	1.89	0.55
28:D3:35:ARG:HE	28:D3:37:LEU:HD21	1.71	0.55
35:DA:1748:G:H5'	35:DA:1748:G:C8	2.39	0.55
35:DA:2476:A:N3	35:DA:2477:C:H5''	2.22	0.55
35:DA:94(A):G:H2'	35:DA:95:G:O4'	2.06	0.55
39:DE:59:VAL:O	39:DE:62:PRO:HD2	2.06	0.55
40:DF:170:LEU:HD23	40:DF:172:TRP:CZ2	2.42	0.55
40:DF:3:GLU:C	40:DF:24:LEU:HG	2.27	0.55
42:DH:41:MET:HE3	42:DH:42:ARG:N	2.21	0.55
58:DZ:8:TYR:CD1	58:DZ:8:TYR:N	2.75	0.55
1:AA:1001(A):G:H2'	1:AA:1002:G:O4'	2.06	0.55
1:AA:1073:U:H2'	1:AA:1074:G:C8	2.41	0.55
1:AA:1144:G:H21	1:AA:1146:A:N6	2.05	0.55
2:AB:11:LEU:C	2:AB:213:LEU:HD11	2.27	0.55
3:AC:7:PRO:O	3:AC:11:ARG:HG2	2.07	0.55
3:AC:34:LEU:HD23	3:AC:34:LEU:C	2.28	0.55
8:AH:120:THR:HG23	8:AH:123:GLU:OE1	2.06	0.55
9:AI:112:LYS:HA	9:AI:119:ALA:HB2	1.89	0.55
16:AP:28:ARG:HG2	16:AP:28:ARG:NH1	2.22	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:AY:158:PRO:O	24:AY:165:ASP:HB2	2.06	0.55
29:B4:26:SER:OG	29:B4:27:THR:N	2.40	0.55
35:BA:1534:U:H2'	35:BA:1535:A:O4'	2.06	0.55
35:BA:218:A:C2	35:BA:235:U:H4'	2.41	0.55
35:BA:252:G:OP2	48:BP:50:ARG:NH1	2.36	0.55
35:BA:792:G:H5''	35:BA:793:A:H5'	1.89	0.55
35:BA:882:G:N2	35:BA:895:U:H3	2.04	0.55
27:B2:2:LYS:HG2	35:BA:97:C:H5''	1.87	0.55
37:BC:7:ARG:HH12	37:BC:11:LEU:HD11	1.71	0.55
37:BC:46:ALA:H	37:BC:172:ILE:HG22	1.72	0.55
39:BE:118:LYS:H	39:BE:121:ASN:H	1.54	0.55
39:BE:78:LEU:C	39:BE:79:ARG:HD2	2.28	0.55
41:BG:47:LYS:HD3	41:BG:51:ARG:HH11	1.71	0.55
42:BH:148:ILE:O	42:BH:151:ILE:HG12	2.06	0.55
42:BH:97:ARG:CG	42:BH:98:LEU:H	2.14	0.55
43:BI:77:LEU:HD13	43:BI:140:LEU:HD12	1.87	0.55
45:BK:108:ALA:HB1	45:BK:120:LEU:CG	2.37	0.55
46:BN:128:HIS:CE1	46:BN:134:ARG:HD3	2.41	0.55
48:BP:30:THR:O	48:BP:31:ALA:C	2.46	0.55
35:BA:2415:G:H4'	48:BP:67:MET:N	2.22	0.55
57:BY:51:VAL:HB	57:BY:53:PRO:HD2	1.89	0.55
58:BZ:165:VAL:HG13	58:BZ:169:GLU:CB	2.36	0.55
58:BZ:4:ARG:NE	58:BZ:58:VAL:HG21	2.22	0.55
1:CA:1226:C:H4'	1:CA:1227:A:OP1	2.07	0.55
1:CA:1424:C:O2'	1:CA:1425:U:H5'	2.07	0.55
2:CB:97:TRP:HZ2	2:CB:102:LEU:HD13	1.71	0.55
2:CB:136:VAL:HG13	2:CB:140:HIS:ND1	2.21	0.55
1:CA:1190:G:OP1	3:CC:5:ILE:HG23	2.07	0.55
3:CC:60:ALA:O	3:CC:61:ALA:HB2	2.05	0.55
13:CM:14:ARG:HA	13:CM:43:THR:O	2.06	0.55
13:CM:83:ASP:OD2	13:CM:84:ILE:N	2.37	0.55
24:CY:185:GLY:HA3	24:CY:311:ILE:CG2	2.37	0.55
25:D0:68:GLU:CG	25:D0:80:HIS:HB2	2.37	0.55
35:DA:1042:G:N3	35:DA:1042:G:H2'	2.22	0.55
35:DA:1884:A:C3'	35:DA:1885:A:H5''	2.37	0.55
35:DA:359:A:H2'	35:DA:360:G:O4'	2.06	0.55
38:DD:270:ILE:O	38:DD:271:ILE:HG23	2.07	0.55
39:DE:6:GLY:HA2	39:DE:51:PHE:CE2	2.41	0.55
40:DF:178:PRO:HB2	40:DF:201:VAL:HG11	1.88	0.55
42:DH:53:GLU:HA	42:DH:53:GLU:OE1	2.07	0.55
44:DJ:57:UNK:O	44:DJ:58:UNK:C	2.55	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:DK:3:LYS:O	45:DK:7:VAL:HG11	2.07	0.55
52:DT:61:PHE:CE2	52:DT:76:PHE:HB2	2.42	0.55
55:DW:1:MET:CE	55:DW:2:GLU:H	2.19	0.55
57:DY:2:ARG:CZ	57:DY:3:VAL:HG23	2.37	0.55
57:DY:62:GLU:CD	57:DY:63:LYS:O	2.46	0.55
58:DZ:158:PRO:HB2	58:DZ:161:VAL:CG2	2.36	0.55
1:AA:1116:C:H2'	1:AA:1117:G:C5'	2.29	0.54
1:AA:1343:G:H1'	9:AI:121:ARG:HH12	1.73	0.54
1:AA:163:C:O2'	1:AA:164:U:H5'	2.06	0.54
1:AA:377:G:H2'	1:AA:378:G:C8	2.40	0.54
1:AA:692:U:O2	1:AA:694:A:C8	2.60	0.54
1:AA:81:U:H2'	1:AA:82:U:C6	2.43	0.54
1:AA:9:G:H2'	1:AA:10:A:H8	1.71	0.54
5:AE:12:LEU:HD13	5:AE:31:LEU:HB3	1.88	0.54
9:AI:45:ALA:HA	9:AI:48:GLU:OE1	2.07	0.54
20:AT:57:ARG:NH1	20:AT:102:GLY:HA3	2.22	0.54
24:AY:189:LEU:HA	24:AY:314:TYR:O	2.07	0.54
24:AY:50:GLN:C	24:AY:50:GLN:NE2	2.60	0.54
26:B1:6:GLU:C	26:B1:7:ILE:HD12	2.27	0.54
31:B6:19:ARG:O	31:B6:20:ASN:O	2.25	0.54
35:BA:2681:C:H5	35:BA:2725:A:N6	1.97	0.54
43:BI:62:LYS:HG2	43:BI:133:HIS:CE1	2.41	0.54
43:BI:1:MET:HG3	43:BI:23:PRO:HG3	1.88	0.54
43:BI:6:LEU:HA	43:BI:15:VAL:HB	1.87	0.54
45:BK:84:LEU:N	45:BK:84:LEU:HD23	2.21	0.54
1:CA:484:G:H4'	1:CA:485:G:O5'	2.08	0.54
1:CA:744:C:H2'	1:CA:745:C:C6	2.42	0.54
6:CF:97:PHE:HB2	18:CR:32:ARG:HH11	1.72	0.54
1:CA:644:G:H5'	8:CH:92:ARG:NH2	2.22	0.54
10:CJ:57:LYS:HG3	10:CJ:57:LYS:O	2.06	0.54
12:CL:119:LYS:HB2	12:CL:120:TYR:HD1	1.72	0.54
15:CO:67:LEU:HD11	15:CO:87:ILE:HD12	1.89	0.54
29:D4:18:CYS:SG	29:D4:35:VAL:HA	2.47	0.54
31:D6:19:ARG:O	31:D6:20:ASN:O	2.24	0.54
35:DA:1846:G:H8	35:DA:1846:G:H5'	1.72	0.54
35:DA:2196:C:O2'	35:DA:2197:U:H5'	2.06	0.54
24:CY:240:GLN:N	35:DA:2585:U:H5	2.06	0.54
35:DA:271(U):G:O2'	35:DA:271(V):G:H5'	2.07	0.54
35:DA:2869:G:H2'	35:DA:2870:C:C6	2.42	0.54
35:DA:330:A:HO2'	35:DA:331:A:H8	1.55	0.54
41:DG:136:ARG:O	41:DG:154:GLY:HA2	2.07	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
49:DQ:43:THR:HB	49:DQ:45:GLN:HE21	1.72	0.54
57:DY:95:LYS:HG2	57:DY:96:ILE:N	2.21	0.54
1:AA:102:G:H2'	1:AA:103:C:C6	2.43	0.54
1:AA:321:A:H62	1:AA:328:C:HO2'	1.54	0.54
1:AA:644:G:H5'	8:AH:92:ARG:NH2	2.21	0.54
2:AB:162:ILE:HD13	2:AB:177:ALA:CB	2.37	0.54
2:AB:204:ASN:C	2:AB:204:ASN:HD22	2.09	0.54
3:AC:58:GLU:HB2	3:AC:65:ALA:HB3	1.90	0.54
7:AG:64:GLN:NE2	7:AG:68:ASN:HD21	2.05	0.54
22:AW:77:PHA:CD2	35:BA:249:C:OP2	2.55	0.54
24:AY:115:ASN:HD21	24:AY:213:GLU:CD	2.11	0.54
25:B0:53:MET:HA	25:B0:58:THR:O	2.07	0.54
27:B2:5:GLU:O	27:B2:8:LYS:HB2	2.07	0.54
35:BA:1543:C:C3'	35:BA:1544:A:H5''	2.34	0.54
35:BA:1952:A:C5	47:BO:22:ILE:HD12	2.43	0.54
35:BA:2108:C:O2'	35:BA:2109:U:H5'	2.06	0.54
35:BA:2322:A:H2'	35:BA:2323:G:O4'	2.07	0.54
37:BC:21:TYR:HB2	37:BC:225:ILE:HG22	1.88	0.54
38:BD:263:ARG:NH1	38:BD:263:ARG:HB2	2.21	0.54
39:BE:64:LYS:C	39:BE:66:HIS:N	2.58	0.54
40:BF:40:GLN:HE22	40:BF:182:ASN:HB2	1.71	0.54
40:BF:7:TYR:HB3	40:BF:16:GLY:N	2.21	0.54
41:BG:37:VAL:HB	41:BG:99:MET:HG3	1.90	0.54
44:BJ:70:UNK:O	44:BJ:71:UNK:CB	2.55	0.54
44:BJ:80:UNK:O	44:BJ:82:UNK:N	2.39	0.54
45:BK:20:ALA:H	45:BK:21:PRO:HD3	1.72	0.54
46:BN:48:MET:H	46:BN:48:MET:CE	2.19	0.54
52:BT:38:ASN:CG	52:BT:39:ARG:H	2.09	0.54
52:BT:57:PHE:O	52:BT:59:THR:N	2.40	0.54
53:BU:92:ARG:HB3	54:BV:11:GLN:NE2	2.23	0.54
35:BA:143:G:H1'	56:BX:37:THR:CG2	2.37	0.54
57:BY:2:ARG:CZ	57:BY:3:VAL:HG23	2.37	0.54
58:BZ:19:ARG:HH12	58:BZ:84:GLU:CA	2.19	0.54
1:CA:1053:G:C6	1:CA:1199:U:H2'	2.42	0.54
1:CA:135:C:H2'	1:CA:136:C:H5'	1.89	0.54
1:CA:638:G:O2'	1:CA:639:G:H5'	2.08	0.54
2:CB:52:GLU:O	2:CB:56:ARG:HG2	2.07	0.54
2:CB:93:VAL:HG21	2:CB:97:TRP:CD1	2.41	0.54
3:CC:167:TRP:O	3:CC:168:ALA:HB3	2.07	0.54
8:CH:29:SER:HB3	8:CH:32:LYS:CG	2.37	0.54
10:CJ:90:LEU:N	10:CJ:91:PRO:CD	2.70	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:537:G:H5''	12:CL:113:ARG:NH1	2.21	0.54
16:CP:64:ALA:O	16:CP:65:GLN:C	2.46	0.54
24:CY:106:LEU:C	24:CY:108:ASN:H	2.11	0.54
26:D1:7:ILE:HG22	26:D1:8:SER:N	2.22	0.54
35:DA:2112:G:OP1	35:DA:2112:G:O4'	2.25	0.54
35:DA:2122:U:H2'	35:DA:2123:G:C8	2.42	0.54
35:DA:882:G:H22	35:DA:894:C:H42	1.55	0.54
38:DD:168:ARG:HG3	38:DD:168:ARG:HH11	1.70	0.54
41:DG:154:GLY:O	41:DG:155:MET:HB3	2.06	0.54
48:DP:64:LYS:O	48:DP:66:GLY:N	2.40	0.54
51:DS:36:TYR:N	51:DS:36:TYR:CD1	2.75	0.54
52:DT:41:ARG:O	52:DT:42:ILE:O	2.25	0.54
57:DY:51:VAL:HB	57:DY:53:PRO:HD2	1.88	0.54
58:DZ:175:VAL:HB	58:DZ:176:PRO:HD2	1.89	0.54
1:AA:1008:C:H42	1:AA:1021:G:H1	1.55	0.54
1:AA:1042:G:O2'	1:AA:1043:C:H5'	2.07	0.54
1:AA:559:A:H4'	1:AA:560:U:H5''	1.90	0.54
1:AA:963:G:N2	10:AJ:55:LYS:HZ2	2.04	0.54
2:AB:36:ARG:N	2:AB:36:ARG:HD2	2.22	0.54
2:AB:70:PHE:HA	2:AB:163:PHE:O	2.08	0.54
3:AC:112:SER:HB3	3:AC:115:LEU:HD12	1.88	0.54
4:AD:152:SER:HA	4:AD:155:LEU:CD1	2.37	0.54
10:AJ:38:ILE:O	10:AJ:38:ILE:HG13	2.06	0.54
11:AK:126:ARG:HB3	11:AK:126:ARG:NH1	2.22	0.54
1:AA:1316:G:O2'	14:AN:18:VAL:HG11	2.07	0.54
24:AY:13:LEU:HD23	24:AY:16:TYR:CD2	2.41	0.54
26:B1:60:PHE:CD1	26:B1:91:LYS:HE3	2.43	0.54
29:B4:22:ILE:N	29:B4:22:ILE:HD12	2.22	0.54
31:B6:19:ARG:NH1	31:B6:19:ARG:HG2	2.22	0.54
35:BA:1045:A:H3'	35:BA:1045:A:N3	2.22	0.54
35:BA:1210:A:H5''	35:BA:1212:G:O4'	2.07	0.54
35:BA:1537:G:H2'	35:BA:1538:G:H8	1.70	0.54
35:BA:1718:G:O2'	35:BA:1719:G:H5'	2.06	0.54
35:BA:1945:G:H2'	35:BA:1946:U:C6	2.42	0.54
35:BA:2291:U:H2'	35:BA:2292:C:C6	2.43	0.54
35:BA:2315:G:H2'	35:BA:2316:C:H6	1.72	0.54
35:BA:2416:C:OP1	48:BP:64:LYS:O	2.25	0.54
35:BA:332:A:H4'	35:BA:333:G:OP1	2.06	0.54
35:BA:558:G:P	46:BN:111:PRO:HD2	2.47	0.54
35:BA:612:C:C3'	35:BA:613:G:H5''	2.36	0.54
40:BF:25:PRO:O	40:BF:26:ALA:C	2.46	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:BG:39:ILE:HD12	41:BG:60:LEU:HD21	1.88	0.54
45:BK:48:MET:SD	45:BK:69:THR:HG21	2.47	0.54
47:BO:111:PHE:HB3	47:BO:114:ILE:HD13	1.89	0.54
48:BP:17:LYS:O	48:BP:18:ARG:C	2.46	0.54
35:BA:2873:A:C2	50:BR:6:SER:HB2	2.42	0.54
51:BS:14:VAL:HG12	51:BS:15:ARG:N	2.20	0.54
52:BT:129:ARG:O	52:BT:129:ARG:HG3	2.07	0.54
52:BT:36:GLU:HG2	52:BT:36:GLU:O	2.05	0.54
54:BV:1:MET:SD	54:BV:42:GLY:HA3	2.47	0.54
55:BW:12:ILE:HB	55:BW:42:ARG:NH1	2.22	0.54
57:BY:13:VAL:HG22	57:BY:73:ARG:O	2.07	0.54
1:CA:1427:U:H2'	1:CA:1428:A:H8	1.72	0.54
1:CA:314:C:O2'	1:CA:315:A:H5'	2.06	0.54
1:CA:328:C:HO2'	1:CA:329:A:P	2.29	0.54
2:CB:114:ARG:HD3	2:CB:114:ARG:O	2.07	0.54
2:CB:15:VAL:HG23	2:CB:16:HIS:CE1	2.42	0.54
4:CD:25:ARG:NH1	4:CD:30:LYS:HB2	2.23	0.54
5:CE:72:GLN:O	5:CE:75:THR:HG22	2.08	0.54
7:CG:148:ASN:HD22	7:CG:148:ASN:N	2.02	0.54
19:CS:28:LYS:NZ	19:CS:29:ARG:NH2	2.55	0.54
22:CW:70:G:H2'	22:CW:71:G:C8	2.42	0.54
24:CY:107:LEU:O	24:CY:107:LEU:HD23	2.07	0.54
24:CY:118:LEU:HD21	24:CY:210:VAL:HG22	1.88	0.54
27:D2:29:LYS:HG2	27:D2:57:ILE:HD13	1.88	0.54
28:D3:4:LEU:O	28:D3:36:VAL:HA	2.08	0.54
35:DA:1408:C:H2'	35:DA:1409:C:C6	2.42	0.54
35:DA:2199:A:H5'	35:DA:2200:C:OP2	2.08	0.54
35:DA:2317:C:H2'	35:DA:2318:G:H5'	1.89	0.54
35:DA:271(E):U:H2'	35:DA:271(F):C:C6	2.42	0.54
35:DA:620:G:N3	35:DA:620:G:H5''	2.23	0.54
36:DB:86:G:H1	36:DB:91:C:N4	2.03	0.54
39:DE:11:MET:HB2	39:DE:23:VAL:O	2.07	0.54
40:DF:21:ALA:C	40:DF:23:ASP:N	2.61	0.54
46:DN:131:GLN:HE21	46:DN:134:ARG:NH2	2.06	0.54
46:DN:42:TRP:CZ3	46:DN:48:MET:HE1	2.42	0.54
52:DT:13:ARG:CA	52:DT:13:ARG:NH1	2.71	0.54
47:DO:104:ARG:HH21	52:DT:33:LYS:HE2	1.72	0.54
57:DY:7:VAL:CG2	57:DY:8:LYS:HZ2	2.21	0.54
57:DY:8:LYS:HD3	57:DY:28:LYS:HZ3	1.70	0.54
1:AA:1256:A:H5'	1:AA:1257:U:OP1	2.07	0.54
1:AA:744:C:H2'	1:AA:745:C:C6	2.43	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:773:G:O3'	38:BD:202:LYS:NZ	2.34	0.54
2:AB:222:ILE:O	2:AB:226:ARG:HB2	2.08	0.54
3:AC:119:ARG:HH21	3:AC:140:ARG:HE	1.56	0.54
5:AE:105:VAL:HB	5:AE:106:PRO:HD3	1.89	0.54
5:AE:144:THR:O	5:AE:148:VAL:HG23	2.07	0.54
8:AH:84:ARG:O	8:AH:135:CYS:HB2	2.07	0.54
9:AI:4:TYR:CB	9:AI:19:LEU:HB2	2.35	0.54
24:AY:75:LEU:H	24:AY:75:LEU:HD22	1.71	0.54
31:B6:43:CYS:SG	31:B6:43:CYS:O	2.64	0.54
33:B8:62:LEU:HD13	35:BA:242:G:C5'	2.16	0.54
35:BA:1101:U:O2'	35:BA:1102:C:H5'	2.06	0.54
35:BA:2115:G:H2'	35:BA:2116:G:H5''	1.87	0.54
22:AW:77:PHA:C	35:BA:2395:C:H1'	2.36	0.54
35:BA:2666:C:H5'	35:BA:2667:C:OP2	2.08	0.54
35:BA:310:A:P	57:BY:18:GLY:HA2	2.47	0.54
35:BA:588:U:H2'	35:BA:589:C:C6	2.42	0.54
35:BA:898:C:C2'	35:BA:899:A:H5'	2.37	0.54
39:BE:173:VAL:O	39:BE:174:ASP:HB2	2.07	0.54
41:BG:16:ARG:O	41:BG:20:ILE:HG13	2.07	0.54
45:BK:9:LYS:O	45:BK:9:LYS:HG3	2.08	0.54
47:BO:87:ILE:HG22	47:BO:88:ASN:O	2.07	0.54
35:BA:662:G:OP1	48:BP:18:ARG:HD2	2.06	0.54
48:BP:80:TYR:CE1	48:BP:111:ARG:HD3	2.42	0.54
48:BP:97:PRO:C	48:BP:99:LEU:H	2.11	0.54
52:BT:83:ILE:HG13	52:BT:84:GLN:HG2	1.89	0.54
55:BW:8:ARG:HH11	55:BW:8:ARG:HG3	1.71	0.54
1:CA:922:G:H2'	1:CA:923:A:C8	2.42	0.54
2:CB:167:PRO:HG3	2:CB:188:ALA:CB	2.37	0.54
2:CB:44:LEU:H	2:CB:44:LEU:HD12	1.72	0.54
15:CO:82:ILE:HG23	15:CO:83:GLU:N	2.22	0.54
22:CW:76:8AN:C4'	22:CW:77:PHA:O	2.54	0.54
24:CY:152:GLU:O	24:CY:169:ILE:HG23	2.07	0.54
30:D5:56:LYS:HG3	30:D5:59:GLU:OE2	2.06	0.54
31:D6:15:GLU:CD	31:D6:47:THR:HB	2.28	0.54
35:DA:1528(A):A:C2'	35:DA:1529:G:H5''	2.37	0.54
35:DA:1534:U:H2'	35:DA:1535:A:O4'	2.06	0.54
35:DA:1766:U:H2'	35:DA:1767:C:H6	1.71	0.54
35:DA:2674:G:H2'	35:DA:2675:A:C8	2.42	0.54
35:DA:2818:G:O2'	35:DA:2819:G:H5'	2.06	0.54
35:DA:2869:G:H2'	35:DA:2870:C:H6	1.72	0.54
35:DA:279:C:H42	35:DA:361:G:H1	1.54	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:882:G:N2	35:DA:895:U:H3	2.05	0.54
42:DH:24:VAL:HG12	42:DH:35:VAL:HB	1.88	0.54
45:DK:108:ALA:HB1	45:DK:120:LEU:CG	2.36	0.54
46:DN:5:VAL:HG13	46:DN:5:VAL:O	2.08	0.54
51:DS:34:HIS:CE1	51:DS:54:LEU:HB2	2.42	0.54
1:AA:63:C:H42	1:AA:104:G:H1	1.55	0.54
1:AA:562:C:H4'	1:AA:563:A:O5'	2.06	0.54
1:AA:674:G:H2'	1:AA:675:A:C8	2.39	0.54
1:AA:826:C:H2'	1:AA:827:U:C6	2.42	0.54
4:AD:18:LYS:HE2	4:AD:31:CYS:CB	2.38	0.54
9:AI:64:THR:HG22	9:AI:64:THR:O	2.07	0.54
10:AJ:24:VAL:HG22	10:AJ:72:VAL:HG11	1.90	0.54
12:AL:89:ARG:HH11	12:AL:89:ARG:CB	2.20	0.54
19:AS:20:LEU:HA	19:AS:23:ASN:HD22	1.71	0.54
24:AY:272:LYS:O	24:AY:276:LEU:HG	2.06	0.54
35:BA:1171:G:H3'	35:BA:1173:G:C4'	2.37	0.54
34:B9:31:LYS:NZ	35:BA:2478:A:OP1	2.40	0.54
13:AM:93:ARG:CG	35:BA:888:C:OP1	2.56	0.54
35:BA:1902:C:H5'	38:BD:246:PRO:HD3	1.88	0.54
45:BK:16:LYS:N	45:BK:16:LYS:HD3	2.23	0.54
50:BR:107:ASP:C	50:BR:107:ASP:OD2	2.45	0.54
35:BA:2376:A:O2'	51:BS:108:GLY:HA2	2.07	0.54
52:BT:87:ASP:O	52:BT:87:ASP:OD2	2.26	0.54
54:BV:82:ARG:HD2	54:BV:82:ARG:N	2.23	0.54
55:BW:8:ARG:NH1	55:BW:8:ARG:HG3	2.21	0.54
1:CA:102:G:H2'	1:CA:103:C:C6	2.43	0.54
1:CA:1082:G:O2'	1:CA:1083:U:H5'	2.07	0.54
1:CA:272:C:H2'	1:CA:273:A:C8	2.43	0.54
1:CA:625:G:H2'	1:CA:626:U:H6	1.70	0.54
2:CB:164:VAL:HG12	2:CB:165:VAL:N	2.23	0.54
3:CC:7:PRO:O	3:CC:11:ARG:HG2	2.08	0.54
3:CC:130:VAL:O	3:CC:134:ILE:HG13	2.07	0.54
3:CC:73:PRO:C	3:CC:76:VAL:HG22	2.28	0.54
3:CC:83:ARG:O	3:CC:86:VAL:HG22	2.08	0.54
7:CG:45:ASP:O	7:CG:49:ILE:HG12	2.08	0.54
7:CG:73:MET:HA	7:CG:91:VAL:HG23	1.90	0.54
12:CL:89:ARG:CB	12:CL:89:ARG:HH11	2.20	0.54
13:CM:126:LYS:N	24:CY:161:GLU:H	2.06	0.54
13:CM:96:LEU:HB3	13:CM:97:PRO:HD2	1.88	0.54
24:CY:124:ALA:O	24:CY:129:ALA:HB2	2.08	0.54
24:CY:283:LEU:O	24:CY:287:GLU:HB2	2.07	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:CY:41:ASP:CB	24:CY:44:ALA:HB3	2.35	0.54
35:DA:1331:A:HO2'	35:DA:1332:G:H8	1.56	0.54
35:DA:2322:A:H2'	35:DA:2323:G:O4'	2.07	0.54
35:DA:621:A:H2'	35:DA:622:G:C5'	2.35	0.54
40:DF:177:ALA:HB1	40:DF:178:PRO:HD2	1.89	0.54
47:DO:87:ILE:HG22	47:DO:88:ASN:O	2.08	0.54
50:DR:11:ASN:O	50:DR:12:ARG:HB2	2.07	0.54
51:DS:35:ILE:O	51:DS:35:ILE:HG23	2.08	0.54
57:DY:31:LEU:HD22	57:DY:31:LEU:N	2.23	0.54
1:AA:1034:G:H2'	1:AA:1035:A:C5	2.43	0.54
1:AA:710:G:O2'	1:AA:711:G:H5'	2.07	0.54
17:AQ:45:HIS:O	17:AQ:73:VAL:HG23	2.08	0.54
31:B6:12:GLU:HB3	31:B6:21:TYR:HD2	1.71	0.54
35:BA:2876:G:H4'	52:BT:3:ARG:HD3	1.89	0.54
35:BA:500:G:N2	35:BA:502:A:H3'	2.22	0.54
37:BC:49:GLY:HA2	37:BC:211:ARG:NH2	2.21	0.54
39:BE:14:ILE:HG12	39:BE:21:VAL:HG23	1.90	0.54
39:BE:167:VAL:HG22	39:BE:170:LEU:HD11	1.90	0.54
35:BA:2810:A:H1'	39:BE:61:ARG:HH12	1.72	0.54
39:BE:72:VAL:O	39:BE:72:VAL:HG12	2.08	0.54
41:BG:26:GLN:O	41:BG:27:ASN:HB2	2.05	0.54
48:BP:18:ARG:HH11	48:BP:18:ARG:CB	2.19	0.54
52:BT:29:ARG:HD3	52:BT:86:ILE:HG22	1.90	0.54
46:BN:2:LYS:HZ1	54:BV:12:TYR:HA	1.72	0.54
55:BW:1:MET:HE3	55:BW:2:GLU:H	1.70	0.54
1:CA:1026:G:N3	1:CA:1026:G:H2'	2.21	0.54
1:CA:1027:C:H2'	1:CA:1028:C:C6	2.42	0.54
1:CA:980:C:H3'	1:CA:981:U:C6	2.43	0.54
2:CB:204:ASN:HD22	2:CB:204:ASN:C	2.11	0.54
3:CC:71:ALA:CA	3:CC:106:VAL:HB	2.37	0.54
9:CI:26:VAL:HG13	9:CI:61:ALA:O	2.07	0.54
9:CI:43:ALA:C	9:CI:45:ALA:H	2.11	0.54
11:CK:24:SER:O	11:CK:26:ASN:N	2.41	0.54
13:CM:112:GLY:O	13:CM:113:PRO:HG2	2.07	0.54
15:CO:7:GLU:O	15:CO:10:LYS:HB3	2.08	0.54
18:CR:31:LEU:HD23	18:CR:31:LEU:N	2.17	0.54
24:CY:50:GLN:C	24:CY:50:GLN:HE21	2.11	0.54
27:D2:24:LEU:O	27:D2:24:LEU:HD12	2.07	0.54
35:DA:141:A:C8	35:DA:1408:C:O2'	2.36	0.54
35:DA:2033:A:H4'	35:DA:2034:U:OP1	2.08	0.54
35:DA:2300:G:O2'	35:DA:2301:C:H5'	2.08	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:2481:G:O2'	35:DA:2482:G:P	2.65	0.54
35:DA:363(A):A:C2	35:DA:363(B):G:C5	2.96	0.54
36:DB:106:G:O2'	36:DB:107:G:H5'	2.07	0.54
38:DD:122:ASP:CG	38:DD:123:ALA:H	2.11	0.54
38:DD:209:ALA:C	38:DD:210:GLY:O	2.44	0.54
40:DF:160:ASN:ND2	40:DF:162:LEU:H	2.06	0.54
45:DK:5:VAL:O	45:DK:6:ALA:HB2	2.07	0.54
48:DP:115:LEU:HD23	48:DP:115:LEU:N	2.23	0.54
48:DP:41:ARG:HE	48:DP:41:ARG:CA	2.19	0.54
1:AA:1007:C:H2'	1:AA:1008:C:C5	2.42	0.54
1:AA:1086:U:H2'	1:AA:1087:G:H8	1.73	0.54
1:AA:1224:G:H4'	13:AM:102:ARG:NH1	2.22	0.54
1:AA:1242:C:H5''	21:AU:10:ARG:HH12	1.72	0.54
1:AA:1457:G:O2'	1:AA:1458:G:H5'	2.07	0.54
1:AA:1524:C:H2'	1:AA:1525:G:C8	2.42	0.54
1:AA:708:C:H2'	1:AA:709:G:H8	1.72	0.54
1:AA:881:G:P	12:AL:12:ARG:HH22	2.31	0.54
2:AB:158:LEU:HD22	2:AB:182:ILE:HD11	1.90	0.54
3:AC:47:LEU:HD11	3:AC:68:VAL:HG11	1.89	0.54
4:AD:33:MET:C	4:AD:35:ARG:N	2.61	0.54
4:AD:55:ALA:O	4:AD:59:ARG:HG2	2.08	0.54
5:AE:101:ILE:CD1	5:AE:119:LEU:HD23	2.35	0.54
5:AE:50:GLU:HB3	5:AE:53:LEU:HD12	1.90	0.54
7:AG:69:VAL:CG1	7:AG:100:ALA:HA	2.38	0.54
9:AI:43:ALA:C	9:AI:45:ALA:H	2.11	0.54
17:AQ:3:LYS:HD2	17:AQ:60:ILE:HD11	1.89	0.54
24:AY:36:PRO:HD3	45:BK:29:GLN:CA	2.36	0.54
27:B2:13:ALA:HA	27:B2:16:LEU:CG	2.32	0.54
29:B4:30:GLU:O	29:B4:31:ILE:HD13	2.08	0.54
29:B4:34:GLU:O	41:BG:113:ARG:HD2	2.07	0.54
35:BA:1177:A:H5''	35:BA:1178:C:O5'	2.06	0.54
35:BA:1590:U:C3'	35:BA:1591:G:H5''	2.38	0.54
35:BA:1884:A:C3'	35:BA:1885:A:H5''	2.37	0.54
35:BA:2122:U:H2'	35:BA:2123:G:C8	2.43	0.54
35:BA:2162:G:O2'	35:BA:2163:C:H5'	2.06	0.54
33:B8:6:THR:CG2	35:BA:243:U:OP1	2.53	0.54
35:BA:2884:U:C2'	35:BA:2885:C:H5'	2.38	0.54
35:BA:903:C:O2'	35:BA:904:C:H5''	2.08	0.54
40:BF:3:GLU:C	40:BF:24:LEU:HG	2.28	0.54
41:BG:63:ILE:HG22	41:BG:143:GLU:CG	2.38	0.54
41:BG:159:VAL:HG13	41:BG:159:VAL:O	2.07	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:BI:123:LEU:HG	43:BI:142:VAL:CG1	2.36	0.54
45:BK:5:VAL:O	45:BK:6:ALA:HB2	2.07	0.54
47:BO:114:ILE:HD12	47:BO:114:ILE:N	2.22	0.54
52:BT:50:ILE:HA	52:BT:99:LEU:CD1	2.37	0.54
58:BZ:35:ARG:HH21	58:BZ:36:LYS:HG2	1.73	0.54
1:CA:1128:C:C1'	1:CA:1146:A:H61	2.13	0.54
1:CA:203:U:H4'	1:CA:216:G:C4	2.43	0.54
1:CA:41:G:H2'	1:CA:42:G:H8	1.73	0.54
3:CC:58:GLU:HB2	3:CC:65:ALA:HB3	1.89	0.54
4:CD:129:ASN:HD21	4:CD:145:GLU:H	1.55	0.54
7:CG:118:VAL:HG23	7:CG:119:ARG:N	2.23	0.54
8:CH:11:THR:HA	8:CH:14:ARG:NH1	2.22	0.54
10:CJ:57:LYS:HE3	10:CJ:60:ARG:HH22	1.72	0.54
15:CO:6:GLU:N	15:CO:6:GLU:OE1	2.40	0.54
16:CP:19:ILE:HD11	16:CP:39:TYR:HB2	1.88	0.54
17:CQ:76:LEU:HD12	17:CQ:77:VAL:N	2.21	0.54
19:CS:36:ARG:HB2	19:CS:72:GLY:CA	2.38	0.54
22:CW:12:U:H3	22:CW:23:A:H61	1.55	0.54
30:D5:54:GLY:O	30:D5:56:LYS:HD3	2.08	0.54
33:D8:25:MET:SD	48:DP:64:LYS:HD2	2.48	0.54
31:D6:19:ARG:HH21	35:DA:2401:U:C5'	2.21	0.54
35:DA:2584:U:H2'	35:DA:2585:U:H2'	1.90	0.54
35:DA:676:A:H2	35:DA:802:A:N6	2.04	0.54
35:DA:852:G:O2'	35:DA:853:G:H5'	2.07	0.54
36:DB:77:U:P	58:DZ:19:ARG:HH21	2.31	0.54
38:DD:62:TYR:HA	38:DD:87:ASN:HD21	1.73	0.54
40:DF:83:PHE:O	40:DF:84:VAL:HB	2.07	0.54
36:DB:41:U:C5	41:DG:69:ALA:HB1	2.43	0.54
48:DP:101:VAL:C	48:DP:103:ALA:H	2.11	0.54
48:DP:101:VAL:CG2	48:DP:102:ARG:N	2.71	0.54
35:DA:2414:G:H21	48:DP:67:MET:CE	2.21	0.54
48:DP:97:PRO:C	48:DP:99:LEU:H	2.11	0.54
1:AA:1104:G:H4'	2:AB:111:ARG:NH1	2.23	0.54
1:AA:1123:A:H4'	10:AJ:36:GLY:HA3	1.90	0.54
1:AA:383:A:H2'	1:AA:384:G:O4'	2.07	0.54
2:AB:75:LYS:HD3	2:AB:78:GLN:NE2	2.23	0.54
4:AD:18:LYS:HG3	4:AD:31:CYS:SG	2.47	0.54
8:AH:103:VAL:CG2	8:AH:110:ALA:HB2	2.37	0.54
8:AH:109:ILE:HG12	8:AH:110:ALA:N	2.23	0.54
9:AI:4:TYR:HE1	9:AI:21:PRO:HD3	1.73	0.54
10:AJ:90:LEU:N	10:AJ:91:PRO:CD	2.70	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:AM:105:THR:O	13:AM:106:ASN:C	2.46	0.54
15:AO:82:ILE:HG23	15:AO:83:GLU:N	2.22	0.54
24:AY:287:GLU:O	24:AY:290:LYS:HG2	2.07	0.54
35:BA:136:G:O2'	35:BA:137:C:H5'	2.08	0.54
35:BA:155:U:C2'	35:BA:156:U:H5'	2.35	0.54
35:BA:2737:G:H2'	35:BA:2738:A:H8	1.72	0.54
35:BA:2845:G:O2'	35:BA:2846:G:H5'	2.07	0.54
35:BA:882:G:H22	35:BA:894:C:H42	1.55	0.54
38:BD:35:LYS:N	38:BD:36:PRO:CD	2.71	0.54
42:BH:158:HIS:HE1	42:BH:169:VAL:O	1.90	0.54
42:BH:17:VAL:HG11	42:BH:50:VAL:HG21	1.89	0.54
43:BI:120:ILE:HG22	43:BI:121:LYS:N	2.22	0.54
52:BT:32:TYR:CE2	52:BT:81:PRO:HB2	2.43	0.54
58:BZ:71:VAL:HG22	58:BZ:88:PHE:CE2	2.42	0.54
1:CA:233:C:O2'	1:CA:234:C:H5'	2.07	0.54
1:CA:692:U:O2	1:CA:694:A:C8	2.61	0.54
1:CA:878:G:H5'	8:CH:89:PRO:CG	2.35	0.54
1:CA:977:A:H2'	1:CA:978:A:H5'	1.89	0.54
4:CD:33:MET:C	4:CD:35:ARG:N	2.61	0.54
5:CE:147:ASP:HA	5:CE:150:ARG:NH1	2.22	0.54
1:CA:921:U:O2	5:CE:19:MET:HB2	2.08	0.54
12:CL:119:LYS:O	12:CL:120:TYR:HB2	2.07	0.54
22:CV:53:G:H2'	22:CV:54:U:H6	1.72	0.54
22:CW:19:G:H8	22:CW:20:U:C5	2.23	0.54
24:CY:313:SER:OG	24:CY:324:HIS:HE1	1.91	0.54
27:D2:50:ILE:C	27:D2:52:ASP:N	2.61	0.54
27:D2:64:LEU:C	27:D2:64:LEU:HD23	2.28	0.54
30:D5:16:ARG:NH2	35:DA:517:C:OP1	2.41	0.54
33:D8:61:LEU:HD12	33:D8:62:LEU:HD12	1.90	0.54
35:DA:1961:C:C2'	35:DA:1962:C:H5'	2.38	0.54
35:DA:2661:G:H2'	35:DA:2662:A:N3	2.21	0.54
38:DD:186:HIS:CD2	38:DD:188:GLU:HB2	2.43	0.54
39:DE:132:HIS:CD2	39:DE:135:HIS:CE1	2.96	0.54
39:DE:14:ILE:HG12	39:DE:21:VAL:HG23	1.89	0.54
35:DA:2308:G:N2	41:DG:79:ASN:ND2	2.54	0.54
46:DN:48:MET:CE	46:DN:48:MET:H	2.20	0.54
53:DU:92:ARG:CZ	54:DV:11:GLN:H	2.20	0.54
1:AA:1005:A:C2'	1:AA:1006:C:H5'	2.38	0.54
1:AA:1226:C:H4'	1:AA:1227:A:OP1	2.08	0.54
1:AA:167:G:O2'	1:AA:168:G:H5'	2.08	0.54
1:AA:46:G:O2'	1:AA:365:U:H1'	2.07	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:484:G:H4'	1:AA:485:G:O5'	2.07	0.54
1:AA:637:G:H2'	1:AA:638:G:C8	2.42	0.54
2:AB:36:ARG:HG2	2:AB:36:ARG:HH11	1.72	0.54
11:AK:22:HIS:HB3	11:AK:29:ILE:HG22	1.89	0.54
16:AP:51:VAL:O	16:AP:53:VAL:N	2.41	0.54
18:AR:50:ILE:HD12	18:AR:70:ILE:HG21	1.89	0.54
24:AY:311:ILE:HB	24:AY:325:ARG:HE	1.73	0.54
31:B6:19:ARG:HH21	35:BA:2401:U:C5'	2.21	0.54
35:BA:1961:C:O2'	35:BA:1962:C:H5'	2.07	0.54
30:B5:7:PRO:HG2	35:BA:2016:U:O2	2.08	0.54
35:BA:2198:A:H5'	43:BI:33:ARG:HH22	1.73	0.54
36:BB:8:U:H5'	36:BB:8:U:H6	1.72	0.54
38:BD:35:LYS:C	38:BD:37:LEU:H	2.11	0.54
39:BE:6:GLY:HA2	39:BE:51:PHE:CE2	2.42	0.54
40:BF:18:ARG:HG2	40:BF:19:GLU:N	2.23	0.54
46:BN:17:ASP:OD2	46:BN:19:GLU:HB3	2.08	0.54
46:BN:9:VAL:HG21	46:BN:48:MET:HB2	1.89	0.54
57:BY:38:ILE:HG23	57:BY:39:VAL:N	2.23	0.54
58:BZ:51:ALA:O	58:BZ:52:SER:CB	2.55	0.54
1:CA:1203:C:H2'	1:CA:1204:A:H8	1.73	0.54
1:CA:1256:A:H5'	1:CA:1257:U:OP1	2.08	0.54
1:CA:265:G:O3'	17:CQ:66:SER:HA	2.08	0.54
1:CA:627:G:O2'	1:CA:628:G:H5'	2.07	0.54
2:CB:222:ILE:O	2:CB:226:ARG:HB2	2.08	0.54
7:CG:69:VAL:CG1	7:CG:100:ALA:HA	2.38	0.54
13:CM:125:ARG:CA	24:CY:159:GLY:HA3	2.38	0.54
24:CY:25:ARG:O	24:CY:29:LEU:HB2	2.07	0.54
27:D2:12:GLU:O	27:D2:15:LYS:HG2	2.08	0.54
35:DA:1496:A:C8	35:DA:1577:C:O2'	2.61	0.54
35:DA:1503:U:H2'	35:DA:1504:C:C6	2.43	0.54
35:DA:1536:C:H2'	35:DA:1537:G:O4'	2.08	0.54
35:DA:1478:G:HO2'	35:DA:1558:A:H2	1.55	0.54
35:DA:155:U:C2'	35:DA:156:U:H5'	2.36	0.54
35:DA:310:A:P	57:DY:18:GLY:HA2	2.48	0.54
35:DA:32:C:O2'	35:DA:33:U:H5'	2.08	0.54
38:DD:13:ARG:NH1	38:DD:16:MET:SD	2.80	0.54
40:DF:24:LEU:O	40:DF:115:ALA:HB1	2.08	0.54
35:DA:674:G:O2'	40:DF:74:ARG:HD3	2.07	0.54
41:DG:129:GLY:O	41:DG:130:ASN:O	2.25	0.54
47:DO:114:ILE:HD12	47:DO:114:ILE:N	2.23	0.54
48:DP:23:PRO:O	48:DP:33:ARG:CZ	2.55	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
52:DT:38:ASN:C	52:DT:38:ASN:HD22	2.11	0.54
56:DX:12:VAL:CG2	56:DX:13:LEU:H	2.10	0.54
36:DB:92:C:H5'	58:DZ:79:ARG:HH22	1.71	0.54
2:AB:18:GLY:CA	2:AB:42:ILE:HG22	2.38	0.54
4:AD:132:ARG:HG2	4:AD:132:ARG:NH1	2.22	0.54
4:AD:26:CYS:O	4:AD:31:CYS:HB2	2.07	0.54
5:AE:27:ARG:HG2	5:AE:28:PHE:N	2.22	0.54
9:AI:48:GLU:N	9:AI:49:PRO:HD2	2.23	0.54
9:AI:79:LEU:HD11	9:AI:83:ARG:HH21	1.72	0.54
19:AS:22:LEU:HD13	19:AS:27:GLU:HB2	1.88	0.54
24:AY:118:LEU:HD21	24:AY:210:VAL:HG22	1.88	0.54
24:AY:322:LYS:CD	24:AY:329:MET:HG2	2.38	0.54
28:B3:19:GLN:NE2	28:B3:52:HIS:CE1	2.76	0.54
33:B8:22:VAL:HG12	33:B8:49:VAL:HG21	1.90	0.54
26:B1:41:ARG:NH2	35:BA:1365:A:H5'	2.20	0.54
35:BA:150:C:H2'	35:BA:151:C:H6	1.71	0.54
35:BA:1591:G:H5'	35:BA:1591:G:H8	1.72	0.54
38:BD:248:SER:HB2	38:BD:249:PRO:HD2	1.89	0.54
39:BE:197:ILE:HD11	39:BE:199:ARG:HE	1.73	0.54
40:BF:24:LEU:HD13	40:BF:118:ALA:HB1	1.90	0.54
51:BS:35:ILE:HG23	51:BS:35:ILE:O	2.08	0.54
52:BT:41:ARG:NH2	52:BT:43:GLN:HA	2.23	0.54
53:BU:95:LEU:HD12	54:BV:11:GLN:HB2	1.90	0.54
58:BZ:129:SER:HB2	58:BZ:130:PRO:HD2	1.89	0.54
58:BZ:144:LEU:HD11	58:BZ:150:LEU:H	1.72	0.54
58:BZ:185:GLU:O	58:BZ:187:ALA:N	2.40	0.54
1:CA:1086:U:H2'	1:CA:1087:G:H8	1.74	0.54
1:CA:473:G:H2'	1:CA:474:G:C8	2.43	0.54
1:CA:605:U:H2'	1:CA:606:G:O4'	2.07	0.54
2:CB:36:ARG:N	2:CB:36:ARG:HD2	2.22	0.54
5:CE:27:ARG:HG2	5:CE:28:PHE:N	2.22	0.54
6:CF:84:ASN:O	6:CF:86:ARG:HG3	2.08	0.54
8:CH:109:ILE:HG12	8:CH:110:ALA:N	2.22	0.54
19:CS:36:ARG:HB2	19:CS:72:GLY:HA2	1.90	0.54
24:CY:136:LEU:HD11	24:CY:187:HIS:CB	2.38	0.54
24:CY:224:PRO:HA	24:CY:227:LEU:HD12	1.90	0.54
24:CY:223:LYS:C	24:CY:225:GLU:N	2.61	0.54
26:D1:57:GLU:O	26:D1:58:ILE:CG2	2.53	0.54
29:D4:14:ILE:HB	29:D4:22:ILE:HB	1.90	0.54
35:DA:1607:C:H4'	35:DA:1608:A:O5'	2.07	0.54
35:DA:2201:C:H2'	35:DA:2202:C:H6	1.71	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:2272:U:H5''	35:DA:2273:A:OP1	2.08	0.54
35:DA:2314:C:O2'	35:DA:2315:G:H5'	2.08	0.54
35:DA:2476:A:C2'	35:DA:2477:C:H5''	2.34	0.54
35:DA:2666:C:H3'	35:DA:2667:C:C6	2.43	0.54
35:DA:272(J):C:H3'	35:DA:274:G:C5'	2.33	0.54
39:DE:52:LEU:HD23	39:DE:76:ARG:HB2	1.89	0.54
43:DI:33:ARG:HG2	43:DI:33:ARG:HH11	1.72	0.54
43:DI:6:LEU:CD1	43:DI:36:ALA:HA	2.38	0.54
45:DK:48:MET:SD	45:DK:69:THR:HG21	2.48	0.54
45:DK:84:LEU:N	45:DK:84:LEU:HD23	2.23	0.54
48:DP:112:LEU:H	48:DP:128:HIS:CD2	2.25	0.54
52:DT:106:SER:HA	52:DT:110:ILE:CG1	2.38	0.54
53:DU:34:LYS:HE2	53:DU:34:LYS:HA	1.90	0.54
57:DY:86:ARG:HG2	57:DY:87:LYS:N	2.23	0.54
1:AA:192:U:C4'	20:AT:103:GLY:N	2.71	0.53
1:AA:243:A:O2'	1:AA:244:U:OP2	2.25	0.53
1:AA:487:A:H2'	1:AA:488:C:O4'	2.07	0.53
1:AA:946:A:H2'	1:AA:947:G:C8	2.42	0.53
2:AB:139:LYS:O	2:AB:143:GLU:HG3	2.08	0.53
12:AL:110:VAL:HG21	12:AL:120:TYR:HB3	1.90	0.53
15:AO:56:LEU:O	15:AO:60:VAL:HG23	2.07	0.53
24:AY:181:SER:N	24:AY:182:PRO:CD	2.69	0.53
24:AY:319:ASN:HD21	24:AY:334:GLU:CG	2.20	0.53
25:B0:30:VAL:HG12	25:B0:66:VAL:HG22	1.90	0.53
28:B3:35:ARG:HE	28:B3:37:LEU:HD21	1.72	0.53
35:BA:1846:G:H5'	35:BA:1846:G:H8	1.72	0.53
35:BA:1925:C:O2'	35:BA:1926:U:H5'	2.07	0.53
35:BA:2201:C:H2'	35:BA:2202:C:C6	2.42	0.53
35:BA:2206:G:N2	35:BA:2207:G:H4'	2.23	0.53
38:BD:124:PRO:HG2	38:BD:129:ASN:ND2	2.22	0.53
38:BD:66:ASP:OD2	38:BD:69:ARG:HG2	2.08	0.53
39:BE:132:HIS:CD2	39:BE:135:HIS:CE1	2.96	0.53
41:BG:38:VAL:HG22	41:BG:93:THR:HG23	1.88	0.53
41:BG:87:PRO:C	41:BG:88:ILE:HD13	2.28	0.53
42:BH:153:LYS:H	42:BH:153:LYS:CD	2.14	0.53
48:BP:58:THR:O	48:BP:61:ARG:CD	2.56	0.53
52:BT:106:SER:HA	52:BT:110:ILE:CG1	2.38	0.53
54:BV:5:VAL:HG23	54:BV:37:VAL:O	2.08	0.53
56:BX:44:GLU:HG2	56:BX:51:VAL:HG23	1.89	0.53
1:CA:309:G:O2'	1:CA:310:G:H5'	2.08	0.53
1:CA:323:U:H2'	1:CA:324:G:O4'	2.08	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:591:U:H2'	1:CA:592:G:C8	2.43	0.53
1:CA:879:C:O2'	1:CA:880:C:H5'	2.08	0.53
1:CA:975:A:C4'	1:CA:976:G:H5''	2.27	0.53
2:CB:219:VAL:O	2:CB:222:ILE:HB	2.07	0.53
5:CE:47:LYS:N	5:CE:47:LYS:HD3	2.23	0.53
6:CF:16:GLN:O	6:CF:20:ALA:HB2	2.08	0.53
7:CG:64:GLN:NE2	7:CG:68:ASN:HD21	2.05	0.53
8:CH:58:TYR:O	8:CH:59:LEU:HD23	2.07	0.53
8:CH:82:HIS:CE1	8:CH:84:ARG:HB2	2.43	0.53
12:CL:110:VAL:CG2	12:CL:120:TYR:HB3	2.37	0.53
16:CP:19:ILE:HD12	16:CP:19:ILE:N	2.22	0.53
17:CQ:66:SER:O	17:CQ:70:ARG:NH1	2.41	0.53
19:CS:22:LEU:HD13	19:CS:27:GLU:CB	2.38	0.53
22:CV:74:C:OP2	24:CY:266:ARG:NH1	2.41	0.53
24:CY:138:ARG:NH2	24:CY:337:LEU:HB3	2.23	0.53
30:D5:52:TYR:CD1	30:D5:52:TYR:C	2.81	0.53
31:D6:43:CYS:O	31:D6:43:CYS:SG	2.66	0.53
31:D6:45:LYS:O	31:D6:47:THR:HG23	2.08	0.53
35:DA:1314:C:H6	35:DA:1314:C:H5'	1.73	0.53
35:DA:212:G:O2'	35:DA:213:A:H5'	2.08	0.53
35:DA:2543:G:H21	35:DA:2646:C:H5''	1.73	0.53
35:DA:2788:C:O2'	35:DA:2809:A:N3	2.37	0.53
35:DA:675:A:OP1	40:DF:63:LYS:HE2	2.08	0.53
35:DA:817:C:O2'	35:DA:839:U:H5''	2.08	0.53
35:DA:2132:U:H3	37:DC:6:LYS:CB	2.20	0.53
39:DE:59:VAL:CG2	39:DE:63:LEU:HG	2.38	0.53
39:DE:64:LYS:C	39:DE:66:HIS:N	2.59	0.53
40:DF:7:TYR:HB3	40:DF:16:GLY:N	2.22	0.53
41:DG:32:PRO:O	41:DG:172:LEU:HD22	2.08	0.53
42:DH:115:VAL:HG11	42:DH:148:ILE:CD1	2.39	0.53
42:DH:80:SER:O	42:DH:81:GLU:HB2	2.08	0.53
43:DI:112:LYS:HD2	43:DI:112:LYS:N	2.12	0.53
43:DI:15:VAL:O	43:DI:17:GLN:N	2.40	0.53
44:DJ:55:UNK:O	44:DJ:57:UNK:N	2.41	0.53
46:DN:57:ALA:O	46:DN:58:ASP:C	2.46	0.53
52:DT:25:GLY:HA2	52:DT:92:GLY:CA	2.13	0.53
53:DU:76:TYR:OH	53:DU:93:LYS:HE3	2.07	0.53
57:DY:32:PRO:C	57:DY:34:LYS:N	2.60	0.53
1:AA:1143:G:H2'	1:AA:1144:G:H8	1.71	0.53
1:AA:445:G:H2'	1:AA:446:G:H8	1.72	0.53
1:AA:918:A:H2'	1:AA:919:A:C8	2.43	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AB:164:VAL:HG12	2:AB:165:VAL:N	2.23	0.53
4:AD:129:ASN:HD21	4:AD:145:GLU:N	2.06	0.53
13:AM:14:ARG:NH2	13:AM:16:ASP:OD1	2.42	0.53
19:AS:51:VAL:O	19:AS:58:VAL:HG22	2.08	0.53
1:AA:1223:C:P	19:AS:78:ARG:HH21	2.31	0.53
22:AV:6:G:O2'	22:AV:7:A:H5'	2.08	0.53
31:B6:46:HIS:HB2	31:B6:47:THR:OG1	2.09	0.53
34:B9:18:ARG:HE	35:BA:1034:G:H5'	1.73	0.53
35:BA:1446:C:O2'	35:BA:1447:G:H5'	2.09	0.53
35:BA:1719:G:C2'	35:BA:1720:U:H5'	2.39	0.53
35:BA:2132:U:H3	37:BC:6:LYS:CB	2.22	0.53
35:BA:2154:G:O2'	35:BA:2155:G:H5'	2.08	0.53
35:BA:2171:A:H4'	35:BA:2172:U:O5'	2.08	0.53
27:B2:61:LEU:HD12	35:BA:72:U:O4'	2.09	0.53
35:BA:74:A:H4'	35:BA:75:G:O5'	2.09	0.53
35:BA:951:C:O2'	35:BA:952:G:H5'	2.08	0.53
40:BF:70:THR:HG22	40:BF:72:ARG:HG2	1.90	0.53
41:BG:143:GLU:CD	41:BG:143:GLU:H	2.11	0.53
41:BG:43:LEU:HG	41:BG:45:GLU:OE1	2.08	0.53
48:BP:143:GLY:O	48:BP:144:GLU:HB2	2.07	0.53
47:BO:104:ARG:HH21	52:BT:33:LYS:HE2	1.72	0.53
1:CA:1005:A:C2'	1:CA:1006:C:H5'	2.38	0.53
1:CA:1007:C:H2'	1:CA:1008:C:C5	2.43	0.53
1:CA:1227:A:H2'	1:CA:1228:C:O5'	2.08	0.53
1:CA:81:U:H2'	1:CA:82:U:C6	2.43	0.53
2:CB:204:ASN:HD22	2:CB:206:ASP:H	1.55	0.53
5:CE:19:MET:O	5:CE:20:GLN:HB2	2.08	0.53
5:CE:68:GLU:O	5:CE:70:PRO:HD3	2.08	0.53
11:CK:22:HIS:HB3	11:CK:29:ILE:HG22	1.90	0.53
12:CL:58:VAL:O	12:CL:60:LEU:HD22	2.08	0.53
20:CT:84:LEU:O	20:CT:88:VAL:HG23	2.08	0.53
24:CY:111:HIS:CE1	24:CY:214:VAL:HB	2.42	0.53
24:CY:76:MET:HE2	24:CY:88:LYS:HE2	1.90	0.53
35:DA:1754:C:OP1	52:DT:96:ARG:NH1	2.41	0.53
35:DA:2171:A:H4'	35:DA:2172:U:O5'	2.09	0.53
35:DA:2223:G:C2'	35:DA:2224:G:H5'	2.38	0.53
35:DA:2335:A:O2'	35:DA:2336:A:H5''	2.07	0.53
35:DA:2884:U:H2'	35:DA:2885:C:C5'	2.38	0.53
45:DK:104:VAL:O	45:DK:107:ILE:HG22	2.09	0.53
45:DK:57:ILE:HG22	45:DK:58:THR:N	2.22	0.53
47:DO:114:ILE:HD12	47:DO:114:ILE:H	1.73	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
48:DP:17:LYS:O	48:DP:19:VAL:CG2	2.56	0.53
24:CY:269:ILE:HB	49:DQ:80:GLU:OE2	2.07	0.53
56:DX:71:GLY:C	56:DX:72:LYS:HD2	2.28	0.53
1:AA:980:C:H3'	1:AA:981:U:C6	2.43	0.53
2:AB:44:LEU:HD12	2:AB:44:LEU:H	1.71	0.53
7:AG:69:VAL:HG21	7:AG:104:LEU:HD21	1.90	0.53
9:AI:4:TYR:HA	9:AI:88:TYR:CE1	2.43	0.53
11:AK:61:ALA:CB	11:AK:90:GLY:HA3	2.39	0.53
12:AL:104:VAL:O	12:AL:107:ALA:HB3	2.08	0.53
13:AM:90:LEU:C	13:AM:92:HIS:N	2.61	0.53
16:AP:19:ILE:HD11	16:AP:39:TYR:HB2	1.90	0.53
19:AS:36:ARG:HB2	19:AS:72:GLY:CA	2.38	0.53
19:AS:36:ARG:HB2	19:AS:72:GLY:HA2	1.90	0.53
24:AY:323:ASP:HB3	24:AY:326:THR:HG22	1.90	0.53
35:BA:1053:C:N4	35:BA:1107:G:H21	2.07	0.53
35:BA:1131:G:HO2'	35:BA:1132:A:H8	1.55	0.53
35:BA:145:G:H2'	35:BA:146:G:C5'	2.31	0.53
35:BA:1935:G:H1'	35:BA:1964:G:N2	2.23	0.53
35:BA:1997:G:O2'	35:BA:1998:G:H5'	2.08	0.53
35:BA:2122:U:H2'	35:BA:2123:G:H8	1.73	0.53
35:BA:2201:C:H2'	35:BA:2202:C:H6	1.74	0.53
35:BA:2314:C:O2'	35:BA:2315:G:H5'	2.07	0.53
35:BA:2801(A):A:O4'	35:BA:2802:G:H2'	2.08	0.53
38:BD:65:ILE:HD11	38:BD:67:PHE:CE1	2.42	0.53
40:BF:117:ARG:HH21	40:BF:187:VAL:HA	1.73	0.53
40:BF:21:ALA:C	40:BF:23:ASP:N	2.62	0.53
40:BF:65:TRP:HZ3	40:BF:73:ALA:O	1.91	0.53
41:BG:135:LEU:N	41:BG:135:LEU:HD12	2.24	0.53
41:BG:140:ILE:C	41:BG:140:ILE:HD12	2.29	0.53
41:BG:49:ASP:O	41:BG:50:ALA:HB3	2.07	0.53
43:BI:28:ASN:C	43:BI:32:PRO:HG2	2.29	0.53
43:BI:81:VAL:HG21	43:BI:88:ILE:HD13	1.90	0.53
47:BO:104:ARG:HE	52:BT:33:LYS:CE	2.21	0.53
48:BP:101:VAL:C	48:BP:103:ALA:H	2.11	0.53
53:BU:90:VAL:CG2	54:BV:39:LEU:HB2	2.38	0.53
58:BZ:184:ALA:O	58:BZ:185:GLU:CB	2.57	0.53
1:CA:1015:A:H2'	1:CA:1016:A:H8	1.73	0.53
1:CA:1097:C:H2'	1:CA:1098:C:H6	1.73	0.53
1:CA:1104:G:H4'	2:CB:111:ARG:NH1	2.23	0.53
1:CA:300:A:H2'	1:CA:301:G:O4'	2.07	0.53
1:CA:458:C:N4	1:CA:474:G:H1	2.07	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:939:G:H2'	1:CA:940:C:C6	2.44	0.53
2:CB:163:PHE:HA	2:CB:185:ILE:O	2.08	0.53
2:CB:167:PRO:HG2	2:CB:192:SER:OG	2.09	0.53
2:CB:75:LYS:HD3	2:CB:78:GLN:NE2	2.24	0.53
5:CE:12:LEU:HD13	5:CE:31:LEU:HB3	1.90	0.53
12:CL:27:LEU:C	12:CL:29:GLY:H	2.11	0.53
15:CO:70:LEU:HD11	15:CO:77:ARG:HG3	1.90	0.53
18:CR:53:ARG:NH1	18:CR:60:ALA:HA	2.24	0.53
24:CY:52:ALA:HA	24:CY:55:LEU:HD13	1.89	0.53
28:D3:19:GLN:NE2	28:D3:52:HIS:HE1	2.06	0.53
30:D5:55:ARG:O	30:D5:56:LYS:HD3	2.09	0.53
31:D6:41:PRO:HG3	31:D6:46:HIS:HA	1.89	0.53
35:DA:1077:A:O2'	35:DA:1078:U:H5'	2.07	0.53
35:DA:150:C:H2'	35:DA:151:C:H6	1.74	0.53
35:DA:2154:G:O2'	35:DA:2155:G:H5'	2.08	0.53
35:DA:530:G:C5	35:DA:2022:U:H5''	2.43	0.53
35:DA:648:G:O2'	35:DA:649:G:H5'	2.09	0.53
36:DB:66:A:H61	36:DB:108:U:H2'	1.73	0.53
39:DE:93:VAL:HG21	39:DE:180:ASN:HA	1.90	0.53
40:DF:117:ARG:HH21	40:DF:187:VAL:HA	1.74	0.53
41:DG:118:ARG:H	41:DG:181:ARG:HH21	1.51	0.53
41:DG:165:THR:OG1	41:DG:168:GLU:HG2	2.08	0.53
41:DG:85:GLY:C	41:DG:87:PRO:CD	2.69	0.53
45:DK:112:MET:N	45:DK:113:PRO:CD	2.58	0.53
46:DN:89:LYS:HB3	46:DN:89:LYS:HZ2	1.72	0.53
48:DP:32:THR:CG2	48:DP:37:GLY:HA2	2.36	0.53
48:DP:48:PRO:O	48:DP:49:ARG:C	2.47	0.53
49:DQ:42:ILE:N	49:DQ:42:ILE:HD12	2.23	0.53
35:DA:1654:A:P	50:DR:3:HIS:CB	2.96	0.53
52:DT:29:ARG:HD3	52:DT:86:ILE:HG22	1.89	0.53
53:DU:61:TRP:CH2	53:DU:94:ASN:HB2	2.44	0.53
55:DW:83:LYS:HD3	55:DW:95:ILE:HD12	1.91	0.53
57:DY:2:ARG:C	57:DY:4:LYS:N	2.62	0.53
35:DA:482:A:H4'	57:DY:47:LYS:HE2	1.91	0.53
57:DY:7:VAL:HG21	57:DY:8:LYS:HZ2	1.73	0.53
1:AA:769:G:H4'	1:AA:1513:A:H4'	1.90	0.53
6:AF:79:LEU:HD12	6:AF:88:VAL:HG13	1.89	0.53
11:AK:111:ASP:HA	18:AR:84:LYS:HD2	1.88	0.53
13:AM:112:GLY:HA2	13:AM:113:PRO:CD	2.36	0.53
14:AN:7:ILE:O	14:AN:11:LYS:HG2	2.08	0.53
20:AT:104:LEU:HD23	20:AT:105:SER:N	2.23	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:AW:47:U:C2'	22:AW:48:C:H5'	2.39	0.53
24:AY:344:LEU:HD23	24:AY:344:LEU:H	1.73	0.53
28:B3:8:LEU:HB2	28:B3:28:LEU:HD13	1.91	0.53
29:B4:34:GLU:CD	29:B4:34:GLU:H	2.11	0.53
32:B7:8:ASN:HD22	32:B7:8:ASN:C	2.10	0.53
35:BA:1204:A:N1	35:BA:1241:A:C2	2.76	0.53
35:BA:935:C:H2'	35:BA:936:C:H6	1.73	0.53
37:BC:6:LYS:C	37:BC:8:TYR:N	2.61	0.53
38:BD:122:ASP:CG	38:BD:123:ALA:H	2.10	0.53
43:BI:69:LYS:O	43:BI:73:GLU:HB2	2.08	0.53
45:BK:12:LEU:HB3	45:BK:13:PRO:HD2	1.91	0.53
54:BV:18:LEU:O	54:BV:19:LYS:O	2.26	0.53
56:BX:50:LYS:HB3	56:BX:84:ALA:CB	2.38	0.53
1:CA:1381:U:H5	1:CA:1382:C:C5	2.27	0.53
1:CA:1478:C:O2'	1:CA:1479:C:H5'	2.08	0.53
1:CA:170:U:O2'	1:CA:171:A:H5'	2.08	0.53
1:CA:192:U:H2'	1:CA:193:C:H6	1.71	0.53
1:CA:390:C:H2'	1:CA:391:G:H8	1.71	0.53
1:CA:599:C:H4'	8:CH:130:GLY:HA3	1.90	0.53
1:CA:639:G:O2'	1:CA:640:A:H5'	2.08	0.53
1:CA:646:U:H2'	1:CA:647:C:C6	2.43	0.53
1:CA:674:G:H2'	1:CA:675:A:C8	2.39	0.53
3:CC:179:ARG:HH21	3:CC:207:VAL:HG22	1.72	0.53
4:CD:18:LYS:HE2	4:CD:31:CYS:CB	2.38	0.53
12:CL:58:VAL:O	12:CL:65:GLU:HA	2.08	0.53
20:CT:104:LEU:HD23	20:CT:105:SER:N	2.23	0.53
22:CV:51:U:H2'	22:CV:52:G:H8	1.69	0.53
22:CW:56:C:N3	22:CW:57:G:N7	2.56	0.53
24:CY:17:LEU:O	24:CY:20:PRO:HD2	2.08	0.53
35:DA:1026:U:C2'	35:DA:1027:A:H5'	2.38	0.53
35:DA:1541:G:H1'	35:DA:1542:A:C6	2.43	0.53
35:DA:2679:A:O2'	35:DA:2680:C:H5'	2.08	0.53
35:DA:643:A:O2'	35:DA:644:A:H5'	2.08	0.53
37:DC:194:ILE:O	37:DC:198:GLU:HG3	2.09	0.53
48:DP:92:GLU:HG3	48:DP:93:GLY:N	2.24	0.53
51:DS:85:VAL:HG22	51:DS:106:ARG:HB2	1.90	0.53
1:AA:881:G:OP2	12:AL:12:ARG:NH2	2.41	0.53
2:AB:25:ASN:O	2:AB:27:LYS:N	2.42	0.53
3:AC:150:LYS:HE2	3:AC:152:ILE:HD11	1.88	0.53
3:AC:16:ARG:HH11	3:AC:16:ARG:HB2	1.71	0.53
5:AE:76:ILE:CG1	5:AE:77:PRO:HD2	2.39	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:AF:45:LEU:HD11	6:AF:57:GLN:OE1	2.08	0.53
13:AM:54:VAL:O	13:AM:58:GLU:HG2	2.08	0.53
15:AO:70:LEU:HD11	15:AO:77:ARG:HG3	1.90	0.53
16:AP:67:THR:HB	16:AP:70:ALA:HB3	1.89	0.53
24:AY:270:LYS:HD3	25:B0:5:LYS:HD3	1.91	0.53
33:B8:25:MET:SD	48:BP:64:LYS:HD2	2.48	0.53
35:BA:1054:A:H2'	35:BA:1055:G:C5'	2.38	0.53
35:BA:1292:U:H2'	35:BA:1293:C:H6	1.73	0.53
35:BA:528:A:H2	35:BA:2043:C:H5'	1.74	0.53
35:BA:654(O):G:H2'	35:BA:654(P):C:C6	2.43	0.53
38:BD:65:ILE:HD11	38:BD:67:PHE:CD1	2.43	0.53
39:BE:134:ILE:HD12	39:BE:134:ILE:C	2.28	0.53
39:BE:24:THR:CG2	39:BE:184:VAL:HG23	2.39	0.53
41:BG:170:ARG:NH2	41:BG:182:LYS:HZ3	2.07	0.53
45:BK:3:LYS:O	45:BK:7:VAL:HG11	2.08	0.53
46:BN:131:GLN:HE21	46:BN:134:ARG:NH2	2.07	0.53
48:BP:81:GLN:NE2	48:BP:106:LEU:HA	2.24	0.53
50:BR:7:GLY:O	50:BR:8:ARG:CB	2.54	0.53
52:BT:25:GLY:HA2	52:BT:92:GLY:CA	2.14	0.53
1:CA:1086:U:H2'	1:CA:1087:G:O4'	2.09	0.53
1:CA:383:A:H2'	1:CA:384:G:O4'	2.08	0.53
1:CA:865:A:C2	1:CA:918:A:H4'	2.44	0.53
3:CC:107:GLN:NE2	3:CC:107:GLN:H	2.06	0.53
1:CA:1060:C:C4	3:CC:2:GLY:HA3	2.43	0.53
4:CD:31:CYS:C	4:CD:33:MET:N	2.62	0.53
4:CD:47:ARG:NE	4:CD:49:ARG:HH22	2.05	0.53
5:CE:93:PRO:HG2	8:CH:105:ARG:NH2	2.23	0.53
8:CH:45:ILE:O	8:CH:45:ILE:HG13	2.07	0.53
12:CL:104:VAL:O	12:CL:107:ALA:HB3	2.09	0.53
15:CO:63:ARG:NH1	15:CO:87:ILE:HG21	2.23	0.53
24:CY:120:ILE:CG2	24:CY:133:ALA:HB1	2.39	0.53
24:CY:154:VAL:HG12	24:CY:154:VAL:O	2.09	0.53
24:CY:209:GLU:OE2	24:CY:303:ARG:HD2	2.04	0.53
24:CY:49:SER:OG	35:DA:1067:A:H1'	2.08	0.53
34:D9:17:ILE:HB	34:D9:26:ILE:HD13	1.90	0.53
35:DA:1171:G:H3'	35:DA:1173:G:C4'	2.37	0.53
35:DA:1532:C:H2'	35:DA:1533:G:O4'	2.09	0.53
35:DA:1658:C:OP1	39:DE:132:HIS:CE1	2.62	0.53
35:DA:2801(A):A:O4'	35:DA:2802:G:H2'	2.08	0.53
38:DD:65:ILE:HD11	38:DD:67:PHE:CD1	2.43	0.53
43:DI:93:THR:O	43:DI:97:ILE:HG13	2.09	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:CY:36:PRO:HB3	45:DK:29:GLN:HB3	1.90	0.53
46:DN:46:VAL:O	46:DN:47:ALA:CB	2.56	0.53
50:DR:67:LEU:HD21	50:DR:76:VAL:HG11	1.89	0.53
58:DZ:51:ALA:HB3	58:DZ:57:ILE:HD11	1.89	0.53
1:AA:1060:C:C5	3:AC:2:GLY:HA3	2.43	0.53
1:AA:385:C:O2'	1:AA:386:C:H5'	2.09	0.53
2:AB:67:THR:HG21	2:AB:155:LEU:CD1	2.38	0.53
3:AC:20:SER:HB2	3:AC:40:ARG:NH2	2.24	0.53
5:AE:105:VAL:HB	5:AE:106:PRO:CD	2.39	0.53
8:AH:45:ILE:O	8:AH:45:ILE:HG13	2.08	0.53
11:AK:79:SER:CB	11:AK:106:LYS:HE3	2.39	0.53
15:AO:37:ASN:ND2	15:AO:37:ASN:N	2.57	0.53
17:AQ:65:ILE:O	17:AQ:66:SER:HB3	2.08	0.53
18:AR:53:ARG:NH1	18:AR:60:ALA:HA	2.23	0.53
24:AY:231:VAL:HG11	24:AY:268:GLN:OE1	2.09	0.53
26:B1:20:ARG:HA	26:B1:33:LYS:O	2.08	0.53
34:B9:4:ARG:NH1	35:BA:2477:C:C4	2.77	0.53
35:BA:530:G:C5	35:BA:2022:U:H5''	2.44	0.53
35:BA:2842:G:O2'	35:BA:2843:G:H5'	2.09	0.53
35:BA:448:U:H1'	40:BF:84:VAL:HG13	1.91	0.53
35:BA:720:C:H2'	35:BA:721:C:C6	2.44	0.53
38:BD:28:GLU:N	38:BD:29:PRO:HD2	2.23	0.53
39:BE:202:LYS:O	39:BE:203:LYS:HB3	2.08	0.53
41:BG:116:ASP:O	41:BG:117:PHE:CB	2.57	0.53
43:BI:77:LEU:HD13	43:BI:140:LEU:CD1	2.39	0.53
45:BK:84:LEU:HB3	45:BK:96:VAL:HG23	1.89	0.53
48:BP:48:PRO:O	48:BP:49:ARG:C	2.47	0.53
49:BQ:132:VAL:HG21	58:BZ:81:ARG:HH21	1.73	0.53
51:BS:19:LYS:O	51:BS:20:ARG:NH2	2.41	0.53
52:BT:13:ARG:CA	52:BT:13:ARG:NH1	2.72	0.53
54:BV:18:LEU:CD2	54:BV:19:LYS:H	2.22	0.53
56:BX:12:VAL:CG1	56:BX:27:THR:HG23	2.37	0.53
57:BY:8:LYS:HB2	57:BY:28:LYS:NZ	2.23	0.53
1:CA:487:A:H2'	1:CA:488:C:O4'	2.08	0.53
1:CA:918:A:H2'	1:CA:919:A:C8	2.43	0.53
4:CD:152:SER:HA	4:CD:155:LEU:CD1	2.38	0.53
7:CG:29:LYS:HB2	7:CG:105:VAL:HG21	1.89	0.53
10:CJ:16:LEU:HD23	10:CJ:94:VAL:HG13	1.90	0.53
16:CP:3:LYS:O	16:CP:21:VAL:HA	2.08	0.53
35:DA:1061:U:O4'	35:DA:1070:A:H1'	2.08	0.53
35:DA:1221:C:H2'	35:DA:1221(A):C:H6	1.74	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:1603:A:C8	35:DA:1603:A:H5'	2.43	0.53
35:DA:1952:A:C6	47:DO:22:ILE:HD12	2.43	0.53
35:DA:203:C:H3'	35:DA:204:A:H5''	1.89	0.53
35:DA:2690:C:OP2	50:DR:14:SER:HB3	2.09	0.53
35:DA:2794:C:H42	35:DA:2801(A):A:N6	2.04	0.53
35:DA:2861:G:O2'	35:DA:2862:G:H5'	2.09	0.53
35:DA:545:C:H2'	35:DA:547:A:O4'	2.09	0.53
35:DA:654(O):G:H2'	35:DA:654(P):C:C6	2.44	0.53
35:DA:953:A:O2'	35:DA:954:G:H5'	2.08	0.53
37:DC:7:ARG:HH12	37:DC:11:LEU:HD11	1.72	0.53
38:DD:111:LEU:HD13	38:DD:112:GLN:H	1.73	0.53
38:DD:132:PRO:HD3	38:DD:190:TYR:CZ	2.43	0.53
42:DH:41:MET:CE	42:DH:42:ARG:N	2.71	0.53
45:DK:87:GLY:O	45:DK:88:ALA:HB2	2.08	0.53
48:DP:17:LYS:O	48:DP:18:ARG:C	2.47	0.53
48:DP:32:THR:O	48:DP:33:ARG:CB	2.56	0.53
48:DP:58:THR:O	48:DP:61:ARG:CZ	2.57	0.53
50:DR:12:ARG:HB3	50:DR:16:HIS:HB3	1.90	0.53
1:AA:1203:C:H2'	1:AA:1204:A:H8	1.72	0.53
2:AB:97:TRP:HZ2	2:AB:102:LEU:HD13	1.71	0.53
2:AB:223:ILE:HG12	2:AB:226:ARG:NH2	2.23	0.53
4:AD:126:ILE:HG22	4:AD:127:THR:H	1.72	0.53
6:AF:16:GLN:O	6:AF:20:ALA:HB2	2.09	0.53
6:AF:84:ASN:O	6:AF:86:ARG:HG3	2.08	0.53
8:AH:19:VAL:CG2	8:AH:21:LYS:HE2	2.36	0.53
12:AL:50:SER:O	12:AL:51:ALA:HB2	2.09	0.53
17:AQ:10:VAL:HG13	17:AQ:19:VAL:HB	1.90	0.53
18:AR:56:THR:CB	18:AR:58:LEU:HD13	2.36	0.53
24:AY:153:VAL:O	24:AY:153:VAL:HG13	2.09	0.53
24:AY:76:MET:CE	24:AY:88:LYS:HE2	2.39	0.53
30:B5:59:GLU:O	30:B5:60:VAL:HG23	2.08	0.53
35:BA:2068:U:N3	35:BA:2430:A:C2	2.54	0.53
35:BA:272(J):C:H3'	35:BA:274:G:C5'	2.32	0.53
35:BA:654(V):A:H2'	35:BA:655:A:C8	2.43	0.53
37:BC:186:LEU:O	37:BC:190:ILE:HG12	2.09	0.53
39:BE:179:GLU:HB3	39:BE:181:LEU:HD22	1.91	0.53
43:BI:31:LEU:N	43:BI:31:LEU:CD1	2.64	0.53
45:BK:15:GLY:H	45:BK:45:THR:HG21	1.74	0.53
45:BK:95:LYS:HG3	45:BK:136:VAL:CA	2.39	0.53
46:BN:89:LYS:HZ2	46:BN:89:LYS:HB3	1.72	0.53
47:BO:114:ILE:HD12	47:BO:114:ILE:H	1.73	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:1008:C:H42	1:CA:1021:G:H1	1.55	0.53
1:CA:1034:G:H2'	1:CA:1035:A:C5	2.43	0.53
1:CA:1118:C:H5'	9:CI:104:ARG:HD2	1.90	0.53
1:CA:1223:C:P	19:CS:78:ARG:HH21	2.31	0.53
1:CA:829:G:O2'	1:CA:830:G:H5'	2.08	0.53
8:CH:122:ARG:CZ	8:CH:122:ARG:HB2	2.37	0.53
9:CI:18:PHE:HD1	9:CI:62:TYR:CD2	2.26	0.53
9:CI:45:ALA:HA	9:CI:48:GLU:OE1	2.08	0.53
9:CI:4:TYR:HA	9:CI:88:TYR:CE1	2.44	0.53
10:CJ:33:GLN:N	10:CJ:75:ILE:HD11	2.24	0.53
12:CL:47:LYS:HE2	12:CL:48:PRO:HD3	1.89	0.53
12:CL:50:SER:O	12:CL:51:ALA:HB2	2.09	0.53
1:CA:1316:G:O2'	14:CN:18:VAL:HG11	2.08	0.53
14:CN:7:ILE:O	14:CN:11:LYS:HG2	2.08	0.53
24:CY:268:GLN:O	24:CY:272:LYS:HG3	2.09	0.53
30:D5:2:ALA:O	30:D5:3:LYS:HD2	2.09	0.53
34:D9:18:ARG:HE	35:DA:1034:G:H5'	1.73	0.53
35:DA:1803:A:H4'	38:DD:259:THR:HG23	1.89	0.53
35:DA:2243:U:H2'	35:DA:2244:U:C6	2.43	0.53
35:DA:2481:G:HO2'	35:DA:2482:G:P	2.32	0.53
35:DA:2737:G:H2'	35:DA:2738:A:H8	1.74	0.53
35:DA:2762:G:H2'	35:DA:2763:G:H5'	1.91	0.53
35:DA:2873:A:C2	50:DR:6:SER:HB2	2.43	0.53
35:DA:74:A:H4'	35:DA:75:G:O5'	2.07	0.53
38:DD:248:SER:HB2	38:DD:249:PRO:HD2	1.91	0.53
38:DD:25:THR:CG2	38:DD:26:LYS:N	2.72	0.53
42:DH:97:ARG:O	42:DH:125:VAL:HG21	2.07	0.53
43:DI:109:ILE:HG13	43:DI:130:TYR:CZ	2.43	0.53
43:DI:58:LEU:HA	43:DI:61:ARG:NH2	2.24	0.53
45:DK:16:LYS:N	45:DK:16:LYS:HD3	2.24	0.53
45:DK:60:TYR:O	45:DK:61:ALA:HB3	2.08	0.53
51:DS:101:LEU:HD12	51:DS:101:LEU:C	2.29	0.53
53:DU:54:LYS:O	53:DU:58:ARG:HG3	2.09	0.53
57:DY:96:ILE:CG2	57:DY:97:ARG:H	2.04	0.53
58:DZ:128:VAL:HG22	58:DZ:129:SER:H	1.73	0.53
1:AA:1086:U:H2'	1:AA:1087:G:O4'	2.09	0.53
1:AA:135:C:H2'	1:AA:136:C:H5'	1.89	0.53
1:AA:203:U:H4'	1:AA:216:G:C4	2.43	0.53
1:AA:47:C:H5''	1:AA:365:U:C6	2.44	0.53
1:AA:383:A:H2'	1:AA:384:G:C5'	2.39	0.53
1:AA:541:G:H2'	1:AA:542:G:H8	1.74	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:679:C:O2'	1:AA:680:C:H5'	2.09	0.53
7:AG:118:VAL:HG23	7:AG:119:ARG:N	2.23	0.53
10:AJ:63:PHE:HD1	14:AN:58:LYS:HG2	1.74	0.53
20:AT:75:ASN:N	20:AT:75:ASN:ND2	2.54	0.53
22:AV:66:U:H2'	22:AV:67:C:C6	2.43	0.53
24:AY:336:VAL:C	24:AY:338:ASP:H	2.11	0.53
24:AY:77:GLU:CB	24:AY:84:ARG:HG2	2.39	0.53
30:B5:33:CYS:CB	30:B5:40:LYS:HE3	2.38	0.53
30:B5:55:ARG:O	30:B5:56:LYS:HD3	2.07	0.53
33:B8:33:ASN:N	33:B8:36:LYS:HD2	2.23	0.53
35:BA:1532:C:H2'	35:BA:1533:G:O4'	2.09	0.53
35:BA:1786:A:C2	35:BA:2606:C:H1'	2.44	0.53
35:BA:2096:U:H2'	35:BA:2097:C:C6	2.44	0.53
35:BA:2183:C:O2'	35:BA:2184:G:H5'	2.08	0.53
35:BA:2584:U:H2'	35:BA:2585:U:H2'	1.90	0.53
35:BA:27:G:N2	35:BA:512:G:C2'	2.72	0.53
35:BA:614(C):A:C5	40:BF:180:GLY:HA3	2.43	0.53
35:BA:654(S):G:H2'	35:BA:654(T):C:C2	2.44	0.53
38:BD:238:GLY:O	38:BD:239:ARG:O	2.27	0.53
35:BA:1902:C:HO2'	38:BD:244:ARG:HB2	1.73	0.53
38:BD:25:THR:CG2	38:BD:26:LYS:N	2.72	0.53
39:BE:5:LEU:HB2	39:BE:51:PHE:HD2	1.74	0.53
39:BE:89:ASP:CG	39:BE:90:THR:N	2.61	0.53
35:BA:2315:G:H21	41:BG:128:ARG:NE	2.06	0.53
42:BH:41:MET:CE	42:BH:42:ARG:N	2.71	0.53
43:BI:93:THR:CG2	43:BI:96:ASP:HB2	2.39	0.53
48:BP:92:GLU:HG3	48:BP:93:GLY:N	2.23	0.53
57:BY:95:LYS:HG2	57:BY:96:ILE:N	2.23	0.53
1:CA:474:G:H2'	1:CA:475:G:H8	1.70	0.53
1:CA:84:U:O2'	1:CA:88:A:H5'	2.09	0.53
2:CB:19:HIS:CG	2:CB:20:GLU:H	2.26	0.53
3:CC:92:ALA:HA	3:CC:95:THR:HB	1.90	0.53
1:CA:545:C:H5''	4:CD:72:GLU:HG2	1.91	0.53
6:CF:79:LEU:HD12	6:CF:88:VAL:HG13	1.91	0.53
9:CI:5:TYR:HD2	9:CI:18:PHE:CE2	2.26	0.53
10:CJ:98:ILE:O	10:CJ:99:LYS:HD3	2.08	0.53
12:CL:110:VAL:HG21	12:CL:120:TYR:HB3	1.91	0.53
13:CM:19:LEU:HD22	13:CM:19:LEU:N	2.24	0.53
19:CS:9:VAL:O	19:CS:11:VAL:N	2.41	0.53
23:CX:15:A:H5''	23:CX:15:A:C4	2.44	0.53
24:CY:139:MET:HE3	24:CY:341:LEU:HD21	1.91	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:CY:156:LEU:HD23	24:CY:157:THR:N	2.24	0.53
24:CY:33:LEU:HB2	45:DK:25:PRO:CG	2.39	0.53
26:D1:19:GLN:CB	26:D1:35:THR:HG23	2.38	0.53
35:DA:1204:A:H2	35:DA:1241:A:N1	2.06	0.53
35:DA:491:G:O2'	35:DA:492:A:H5'	2.09	0.53
35:DA:898:C:C2'	35:DA:899:A:H5'	2.38	0.53
38:DD:28:GLU:N	38:DD:29:PRO:HD2	2.24	0.53
44:DJ:72:UNK:C	44:DJ:74:UNK:N	2.68	0.53
45:DK:130:SER:O	45:DK:134:MET:HE2	2.08	0.53
48:DP:81:GLN:NE2	48:DP:106:LEU:HA	2.24	0.53
49:DQ:67:ARG:NH1	49:DQ:67:ARG:HG2	2.24	0.53
54:DV:1:MET:SD	54:DV:42:GLY:HA3	2.48	0.53
1:AA:1015:A:H2'	1:AA:1016:A:H8	1.73	0.53
1:AA:1169:A:H2'	1:AA:1170:A:H8	1.72	0.53
1:AA:192:U:H2'	1:AA:193:C:H6	1.73	0.53
1:AA:323:U:H2'	1:AA:324:G:O4'	2.09	0.53
1:AA:437:U:H2'	1:AA:438:G:O4'	2.08	0.53
1:AA:638:G:O2'	1:AA:639:G:H5'	2.09	0.53
1:AA:793:U:H5'	1:AA:794:A:O5'	2.09	0.53
2:AB:167:PRO:HG3	2:AB:188:ALA:HB2	1.91	0.53
3:AC:186:PHE:CE2	3:AC:188:LEU:HD21	2.44	0.53
7:AG:16:LEU:O	7:AG:17:VAL:HG23	2.09	0.53
16:AP:17:TYR:N	16:AP:17:TYR:CD1	2.75	0.53
16:AP:51:VAL:HG11	16:AP:74:LEU:HD23	1.89	0.53
1:AA:1318:A:H4'	19:AS:10:PHE:HB2	1.91	0.53
20:AT:43:LEU:HB3	20:AT:48:LYS:HB2	1.91	0.53
20:AT:84:LEU:O	20:AT:88:VAL:HG23	2.08	0.53
22:AW:29:G:H2'	22:AW:30:G:H8	1.74	0.53
24:AY:189:LEU:C	24:AY:189:LEU:HD23	2.30	0.53
24:AY:218:VAL:HG13	24:AY:218:VAL:O	2.09	0.53
24:AY:315:VAL:HG13	24:AY:320:TYR:O	2.09	0.53
35:BA:1026:U:O2'	35:BA:1027:A:H5'	2.08	0.53
35:BA:1536:C:H2'	35:BA:1537:G:O4'	2.08	0.53
35:BA:1881:C:H2'	35:BA:1881:C:O2	2.09	0.53
35:BA:195:A:C8	35:BA:197:A:OP1	2.62	0.53
35:BA:2679:A:O2'	35:BA:2680:C:H5'	2.09	0.53
37:BC:191:ARG:HH11	37:BC:191:ARG:HG3	1.74	0.53
37:BC:197:LEU:C	37:BC:199:ALA:H	2.13	0.53
38:BD:209:ALA:C	38:BD:210:GLY:O	2.46	0.53
35:BA:674:G:O2'	40:BF:74:ARG:HD3	2.09	0.53
41:BG:117:PHE:HE1	41:BG:120:LEU:HD23	1.74	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:BI:82:ARG:HG3	43:BI:82:ARG:HH11	1.74	0.53
46:BN:125:GLY:HA2	46:BN:126:PRO:O	2.09	0.53
48:BP:98:GLU:O	48:BP:101:VAL:HG22	2.09	0.53
57:BY:88:LYS:CE	57:BY:93:GLY:HA3	2.39	0.53
58:BZ:144:LEU:HD11	58:BZ:150:LEU:CB	2.35	0.53
1:CA:116:A:O5'	1:CA:116:A:H8	1.91	0.53
1:CA:163:C:O2'	1:CA:164:U:H5'	2.09	0.53
1:CA:751:U:C2'	1:CA:752:G:H5'	2.39	0.53
2:CB:185:ILE:HG22	2:CB:199:TYR:CB	2.32	0.53
2:CB:80:ILE:HD12	2:CB:80:ILE:N	2.20	0.53
3:CC:186:PHE:CZ	3:CC:188:LEU:HD21	2.44	0.53
1:CA:237:C:H4'	17:CQ:25:ARG:NH1	2.24	0.53
35:DA:1053:C:N4	35:DA:1107:G:H21	2.06	0.53
35:DA:2233:U:H2'	35:DA:2234:G:C8	2.44	0.53
35:DA:2537:U:H2'	35:DA:2538:C:C6	2.44	0.53
38:DD:166:GLN:HE21	38:DD:166:GLN:N	2.07	0.53
38:DD:211:ARG:HD3	38:DD:214:TRP:CZ3	2.42	0.53
43:DI:75:LEU:HD23	43:DI:105:HIS:CG	2.44	0.53
48:DP:125:VAL:O	48:DP:145:PRO:HD2	2.07	0.53
50:DR:99:LYS:CB	50:DR:99:LYS:NZ	2.67	0.53
53:DU:101:ARG:O	53:DU:102:GLU:HG2	2.09	0.53
55:DW:1:MET:HE3	55:DW:2:GLU:H	1.74	0.53
58:DZ:150:LEU:O	58:DZ:151:HIS:HB3	2.08	0.53
1:AA:1060:C:H2'	1:AA:1061:G:H8	1.73	0.53
1:AA:1151:A:HO2'	1:AA:1152:A:H8	1.57	0.53
1:AA:1227:A:H2'	1:AA:1228:C:O5'	2.09	0.53
1:AA:345:C:H5'	52:BT:41:ARG:HD3	1.91	0.53
1:AA:583:A:H2'	1:AA:584:G:O4'	2.09	0.53
1:AA:628:G:H2'	1:AA:629:G:C8	2.43	0.53
1:AA:84:U:O2'	1:AA:88:A:H5'	2.09	0.53
4:AD:31:CYS:O	4:AD:32:ALA:HB3	2.09	0.53
4:AD:74:GLN:HA	4:AD:77:ASN:ND2	2.16	0.53
5:AE:100:VAL:HG23	5:AE:100:VAL:O	2.09	0.53
13:AM:79:LYS:O	13:AM:82:MET:HB3	2.09	0.53
15:AO:81:LEU:HD11	15:AO:85:LEU:HD12	1.91	0.53
19:AS:9:VAL:O	19:AS:11:VAL:N	2.42	0.53
30:B5:52:TYR:CD1	30:B5:52:TYR:C	2.82	0.53
35:BA:2360:A:O2'	35:BA:2361:A:P	2.66	0.53
35:BA:271(F):C:H2'	35:BA:271(G):C:C6	2.44	0.53
35:BA:2850:A:OP2	35:BA:2866:U:C5	2.56	0.53
30:B5:16:ARG:NH2	35:BA:517:C:OP1	2.42	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:BD:111:LEU:HD13	38:BD:112:GLN:N	2.25	0.53
38:BD:46:GLN:OE1	38:BD:46:GLN:N	2.42	0.53
40:BF:157:VAL:HA	40:BF:176:LEU:O	2.09	0.53
22:AV:56:C:H1'	41:BG:76:SER:CB	2.38	0.53
42:BH:156:ALA:O	42:BH:157:TYR:C	2.48	0.53
42:BH:83:TYR:CD2	42:BH:83:TYR:N	2.77	0.53
35:BA:1063:G:H5''	45:BK:75:SER:HB3	1.91	0.53
45:BK:87:GLY:O	45:BK:88:ALA:HB2	2.09	0.53
46:BN:57:ALA:O	46:BN:58:ASP:C	2.46	0.53
50:BR:2:ARG:HD3	50:BR:5:LYS:HZ1	1.74	0.53
51:BS:34:HIS:HB3	51:BS:53:SER:CB	2.31	0.53
51:BS:36:TYR:N	51:BS:36:TYR:CD1	2.76	0.53
35:BA:1754:C:OP1	52:BT:96:ARG:NH1	2.42	0.53
1:CA:1158:C:O2	1:CA:1158:C:C2'	2.57	0.53
1:CA:1211:U:H5'	1:CA:1212:U:OP1	2.09	0.53
1:CA:353:A:H5'	1:CA:353:A:C8	2.41	0.53
1:CA:862:C:O2'	1:CA:863:U:H5'	2.08	0.53
2:CB:142:LEU:HA	2:CB:145:LEU:HB2	1.91	0.53
2:CB:29:ALA:HA	2:CB:32:ILE:HG22	1.91	0.53
2:CB:93:VAL:HG11	2:CB:97:TRP:HD1	1.73	0.53
4:CD:15:GLU:OE1	4:CD:15:GLU:HA	2.08	0.53
7:CG:136:LYS:O	7:CG:140:ASP:HB2	2.09	0.53
13:CM:105:THR:O	13:CM:106:ASN:C	2.47	0.53
13:CM:79:LYS:O	13:CM:82:MET:HB3	2.08	0.53
16:CP:51:VAL:HG11	16:CP:74:LEU:HD23	1.91	0.53
20:CT:18:GLN:O	20:CT:22:ARG:HG3	2.09	0.53
24:CY:116:ALA:HB1	24:CY:210:VAL:HG12	1.91	0.53
24:CY:29:LEU:HG	24:CY:51:GLU:CB	2.39	0.53
24:CY:81:ALA:HB3	24:CY:84:ARG:NE	2.24	0.53
30:D5:3:LYS:HB2	35:DA:747:U:H5	1.73	0.53
35:DA:1021:A:C3'	35:DA:1021:A:C8	2.92	0.53
35:DA:2208:A:H1'	35:DA:2219:G:C4	2.44	0.53
35:DA:466:A:H2'	35:DA:467:G:H5'	1.90	0.53
35:DA:614(C):A:C5	40:DF:180:GLY:HA3	2.44	0.53
35:DA:654(V):A:H2'	35:DA:655:A:C8	2.43	0.53
28:D3:17:LYS:HG2	35:DA:969:U:OP1	2.09	0.53
48:DP:30:THR:O	48:DP:31:ALA:C	2.47	0.53
25:D0:7:LEU:HD21	49:DQ:81:VAL:HB	1.90	0.53
51:DS:59:LYS:CG	51:DS:60:GLY:H	2.22	0.53
53:DU:106:PHE:O	53:DU:110:VAL:HG23	2.09	0.53
58:DZ:69:THR:CG2	58:DZ:90:VAL:HG22	2.38	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1456:G:C2'	1:AA:1457:G:H5'	2.39	0.52
3:AC:92:ALA:HA	3:AC:95:THR:HB	1.91	0.52
7:AG:45:ASP:O	7:AG:49:ILE:HG12	2.09	0.52
11:AK:78:GLN:O	11:AK:103:LEU:HD13	2.09	0.52
13:AM:99:ARG:HB2	13:AM:101:GLN:NE2	2.24	0.52
16:AP:3:LYS:O	16:AP:21:VAL:HA	2.09	0.52
22:AW:49:C:H2'	22:AW:49:C:O2	2.08	0.52
26:B1:94:LEU:O	26:B1:95:LEU:C	2.47	0.52
27:B2:13:ALA:O	27:B2:15:LYS:N	2.42	0.52
35:BA:1100:C:O2'	35:BA:1101:U:H5'	2.10	0.52
35:BA:2762:G:H2'	35:BA:2763:G:H5'	1.89	0.52
35:BA:2777:G:H5''	35:BA:2778:A:H5'	1.90	0.52
35:BA:545:C:H2'	35:BA:547:A:O4'	2.08	0.52
35:BA:903:C:H2'	35:BA:904:C:H5'	1.91	0.52
35:BA:1803:A:H4'	38:BD:259:THR:HG23	1.91	0.52
40:BF:7:TYR:HB2	40:BF:17:ARG:N	2.23	0.52
42:BH:24:VAL:HG12	42:BH:35:VAL:O	2.10	0.52
58:BZ:58:VAL:CG1	58:BZ:66:SER:HB2	2.39	0.52
1:CA:1144:G:H21	1:CA:1146:A:N6	2.06	0.52
1:CA:1478:C:H2'	1:CA:1479:C:H6	1.73	0.52
1:CA:47:C:H5''	1:CA:365:U:C6	2.44	0.52
1:CA:437:U:H2'	1:CA:438:G:O4'	2.09	0.52
4:CD:31:CYS:O	4:CD:32:ALA:HB3	2.09	0.52
5:CE:135:THR:O	5:CE:138:ALA:N	2.42	0.52
6:CF:39:LYS:O	6:CF:40:VAL:HB	2.10	0.52
9:CI:48:GLU:N	9:CI:49:PRO:HD2	2.24	0.52
1:CA:1123:A:H4'	10:CJ:36:GLY:HA3	1.89	0.52
13:CM:90:LEU:C	13:CM:92:HIS:N	2.60	0.52
24:CY:142:ARG:HB2	24:CY:338:ASP:O	2.08	0.52
24:CY:348:GLY:O	24:CY:352:LYS:HB2	2.09	0.52
35:DA:1019:U:O2'	35:DA:1021:A:C2	2.47	0.52
35:DA:1054:A:H2'	35:DA:1055:G:C5'	2.38	0.52
35:DA:1109:C:H3'	35:DA:1109:C:O2	2.09	0.52
28:D3:31:LEU:O	35:DA:1158:C:H4'	2.09	0.52
35:DA:1204:A:N1	35:DA:1241:A:C2	2.77	0.52
35:DA:1719:G:C2'	35:DA:1720:U:H5'	2.39	0.52
35:DA:332:A:O2'	35:DA:334:C:OP2	2.15	0.52
35:DA:768:G:O2'	35:DA:1379:A:N6	2.42	0.52
36:DB:56:G:H5'	41:DG:27:ASN:ND2	2.24	0.52
38:DD:12:SER:HB2	38:DD:208:LYS:HB3	1.89	0.52
39:DE:23:VAL:HA	39:DE:186:GLY:H	1.73	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:DF:29:ASN:ND2	40:DF:32:LEU:HB2	2.24	0.52
42:DH:89:ILE:HD12	42:DH:90:LYS:O	2.09	0.52
43:DI:88:ILE:HG22	43:DI:90:GLY:CA	2.39	0.52
46:DN:128:HIS:CD2	46:DN:130:HIS:H	2.21	0.52
47:DO:13:ASN:C	47:DO:15:GLY:H	2.12	0.52
48:DP:80:TYR:CE1	48:DP:111:ARG:HD3	2.44	0.52
48:DP:48:PRO:HG2	48:DP:49:ARG:N	2.23	0.52
49:DQ:118:LEU:HD12	49:DQ:131:ILE:CG2	2.40	0.52
49:DQ:12:GLN:HE21	49:DQ:73:PRO:HD3	1.75	0.52
54:DV:82:ARG:HD2	54:DV:82:ARG:N	2.24	0.52
58:DZ:183:LEU:HD13	58:DZ:183:LEU:C	2.30	0.52
1:AA:1055:A:C2	3:AC:194:GLY:HA2	2.43	0.52
1:AA:104:G:O2'	1:AA:105:G:H5'	2.09	0.52
1:AA:1381:U:H5	1:AA:1382:C:C5	2.26	0.52
2:AB:19:HIS:CG	2:AB:20:GLU:H	2.27	0.52
2:AB:61:LEU:HA	2:AB:64:ARG:HD2	1.91	0.52
3:AC:186:PHE:CZ	3:AC:188:LEU:HD21	2.44	0.52
4:AD:20:TYR:CD1	4:AD:20:TYR:N	2.78	0.52
1:AA:922:G:H4'	5:AE:20:GLN:HA	1.90	0.52
5:AE:68:GLU:O	5:AE:70:PRO:HD3	2.09	0.52
9:AI:42:ARG:NH1	9:AI:71:SER:OG	2.42	0.52
11:AK:79:SER:OG	11:AK:106:LYS:HE3	2.09	0.52
17:AQ:11:VAL:O	17:AQ:12:SER:HB2	2.10	0.52
19:AS:39:THR:HG22	19:AS:40:ILE:N	2.23	0.52
26:B1:29:GLY:O	26:B1:31:GLY:N	2.39	0.52
26:B1:80:LEU:HD23	26:B1:81:LYS:H	1.68	0.52
27:B2:31:GLU:CB	27:B2:53:LEU:HD11	2.38	0.52
33:B8:51:ALA:N	33:B8:53:PRO:HD2	2.23	0.52
35:BA:1038:C:C3'	35:BA:1039:G:H5''	2.39	0.52
35:BA:2065:C:H2'	35:BA:2066:C:C6	2.44	0.52
35:BA:2674:G:H2'	35:BA:2675:A:C8	2.44	0.52
35:BA:363(A):A:C2	35:BA:363(B):G:C5	2.97	0.52
35:BA:607:U:OP1	40:BF:102:PRO:HA	2.09	0.52
35:BA:843:G:O2'	35:BA:844:C:H5'	2.09	0.52
40:BF:4:VAL:HA	40:BF:19:GLU:CB	2.38	0.52
47:BO:23:ARG:HG3	47:BO:24:VAL:N	2.24	0.52
48:BP:50:ARG:NH2	48:BP:50:ARG:HG2	2.23	0.52
52:BT:45:PHE:CE2	52:BT:63:VAL:HB	2.44	0.52
52:BT:20:PRO:HD2	52:BT:85:LYS:HB2	1.90	0.52
57:BY:31:LEU:HB2	57:BY:32:PRO:HA	1.90	0.52
1:CA:543:C:C2	1:CA:544:G:C8	2.97	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CC:34:LEU:CD2	3:CC:38:ARG:HD2	2.37	0.52
9:CI:112:LYS:HA	9:CI:119:ALA:HB2	1.90	0.52
1:CA:797:C:OP1	11:CK:124:LYS:HE3	2.09	0.52
11:CK:61:ALA:CB	11:CK:90:GLY:HA3	2.39	0.52
19:CS:51:VAL:O	19:CS:58:VAL:HG22	2.09	0.52
20:CT:26:ASN:N	20:CT:26:ASN:HD22	2.06	0.52
35:DA:142:A:C8	35:DA:1408:C:H1'	2.44	0.52
35:DA:1817:G:H2'	35:DA:1818:U:H5'	1.91	0.52
35:DA:1947:C:C3'	35:DA:1948:G:H5''	2.40	0.52
35:DA:2061:G:H5''	35:DA:2503:A:C2	2.45	0.52
35:DA:2206:G:N2	35:DA:2207:G:H4'	2.24	0.52
35:DA:218:A:H2	35:DA:235:U:H4'	1.74	0.52
35:DA:633:A:C2'	35:DA:634:C:H5'	2.40	0.52
35:DA:881:G:H2'	35:DA:882:G:O4'	2.10	0.52
38:DD:111:LEU:HD13	38:DD:112:GLN:N	2.24	0.52
39:DE:33:VAL:HG23	39:DE:47:VAL:HG23	1.90	0.52
41:DG:13:GLU:O	41:DG:14:GLU:HB2	2.08	0.52
42:DH:68:THR:O	42:DH:72:ILE:HG12	2.09	0.52
42:DH:80:SER:O	42:DH:81:GLU:CB	2.56	0.52
43:DI:5:LEU:HD11	43:DI:19:VAL:CG1	2.39	0.52
35:DA:1061:U:O4	45:DK:11:GLN:HG2	2.09	0.52
46:DN:61:ARG:HH11	46:DN:61:ARG:HG3	1.73	0.52
48:DP:29:LYS:HB3	48:DP:34:GLY:N	2.23	0.52
52:DT:85:LYS:HZ2	52:DT:85:LYS:CB	2.16	0.52
55:DW:18:ARG:HG2	55:DW:76:VAL:HG12	1.90	0.52
56:DX:12:VAL:CG1	56:DX:27:THR:HG23	2.38	0.52
58:DZ:10:ARG:HH21	58:DZ:26:GLY:N	2.04	0.52
58:DZ:51:ALA:HB1	58:DZ:57:ILE:HD11	1.89	0.52
1:AA:1019:C:O2'	1:AA:1020:U:H5'	2.10	0.52
1:AA:1040:U:H2'	1:AA:1041:A:C8	2.43	0.52
1:AA:1118:C:H5'	9:AI:104:ARG:HD2	1.90	0.52
1:AA:591:U:H2'	1:AA:592:G:C8	2.44	0.52
3:AC:147:LYS:HD2	3:AC:204:LEU:O	2.10	0.52
3:AC:5:ILE:HD13	3:AC:5:ILE:O	2.10	0.52
5:AE:19:MET:O	5:AE:20:GLN:HB2	2.09	0.52
1:AA:1194:U:C5'	5:AE:22:GLY:O	2.57	0.52
6:AF:8:ILE:CG2	6:AF:9:VAL:N	2.73	0.52
8:AH:40:ALA:C	8:AH:42:GLU:N	2.60	0.52
9:AI:18:PHE:HD1	9:AI:62:TYR:CD2	2.27	0.52
10:AJ:57:LYS:HE3	10:AJ:60:ARG:HH22	1.74	0.52
12:AL:91:LYS:HD3	12:AL:91:LYS:C	2.30	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1329:A:P	13:AM:28:ALA:HB3	2.50	0.52
22:AW:9:A:N6	22:AW:23:A:N7	2.57	0.52
22:AW:62:C:O2'	22:AW:63:G:H5'	2.10	0.52
31:B6:15:GLU:OE2	31:B6:41:PRO:HG3	2.09	0.52
35:BA:1061:U:O4'	35:BA:1070:A:H1'	2.09	0.52
35:BA:1496:A:C8	35:BA:1577:C:O2'	2.62	0.52
35:BA:1718:G:C8	35:BA:1718:G:H5'	2.42	0.52
35:BA:2461:C:H2'	35:BA:2462:U:C6	2.44	0.52
35:BA:535:C:O2'	35:BA:536:A:H5'	2.09	0.52
35:BA:582:G:H2'	35:BA:583:G:C8	2.45	0.52
35:BA:690:G:H2'	35:BA:691:C:C6	2.44	0.52
38:BD:181:GLU:HA	38:BD:272:ALA:CB	2.36	0.52
38:BD:218:ARG:HG3	38:BD:218:ARG:HH11	1.74	0.52
38:BD:79:VAL:HG21	38:BD:111:LEU:CD1	2.28	0.52
38:BD:80:ALA:HB3	38:BD:94:LEU:CD1	2.38	0.52
43:BI:97:ILE:HG22	43:BI:98:ALA:N	2.23	0.52
50:BR:2:ARG:HD2	50:BR:5:LYS:CE	2.38	0.52
58:BZ:57:ILE:HG22	58:BZ:58:VAL:N	2.25	0.52
1:CA:1004:A:H5'	1:CA:1005:A:OP1	2.08	0.52
1:CA:1055:A:C2	3:CC:194:GLY:HA2	2.44	0.52
1:CA:1096:C:O2'	1:CA:1097:C:H5'	2.09	0.52
1:CA:1172:C:H2'	1:CA:1173:G:C8	2.40	0.52
1:CA:523:A:H61	12:CL:53:ARG:HH12	1.56	0.52
1:CA:715:A:O2'	1:CA:716:A:H5'	2.10	0.52
1:CA:407:G:H1'	4:CD:119:GLN:OE1	2.10	0.52
4:CD:61:LYS:HG3	4:CD:203:VAL:HG13	1.91	0.52
7:CG:148:ASN:C	7:CG:150:ALA:N	2.62	0.52
12:CL:53:ARG:NH1	12:CL:92:ASP:OD2	2.42	0.52
12:CL:65:GLU:HG2	12:CL:65:GLU:O	2.09	0.52
24:CY:239:GLY:O	24:CY:243:ASN:CG	2.48	0.52
24:CY:25:ARG:NH1	24:CY:29:LEU:HD23	2.22	0.52
29:D4:13:ARG:HH11	29:D4:13:ARG:HG2	1.73	0.52
31:D6:15:GLU:HA	31:D6:48:VAL:O	2.10	0.52
33:D8:34:TRP:CG	33:D8:35:GLN:N	2.75	0.52
35:DA:1061:U:H4'	35:DA:1070:A:O3'	2.09	0.52
35:DA:1902:C:H5'	38:DD:246:PRO:HD3	1.91	0.52
35:DA:2306:C:H5''	35:DA:2307:G:O4'	2.10	0.52
38:DD:62:TYR:HA	38:DD:87:ASN:ND2	2.25	0.52
38:DD:80:ALA:HB3	38:DD:94:LEU:CD1	2.40	0.52
40:DF:18:ARG:HG2	40:DF:19:GLU:N	2.24	0.52
41:DG:96:ARG:O	41:DG:99:MET:HB3	2.09	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:DI:5:LEU:HD11	43:DI:19:VAL:HG11	1.91	0.52
45:DK:117:THR:OG1	45:DK:123:ALA:HB2	2.09	0.52
45:DK:95:LYS:HG3	45:DK:136:VAL:CA	2.39	0.52
45:DK:84:LEU:HB3	45:DK:96:VAL:HG23	1.91	0.52
46:DN:73:THR:CG2	46:DN:82:LEU:HD11	2.40	0.52
52:DT:32:TYR:HD1	52:DT:33:LYS:H	1.56	0.52
1:AA:272:C:H2'	1:AA:273:A:C8	2.43	0.52
1:AA:473:G:H2'	1:AA:474:G:C8	2.44	0.52
2:AB:15:VAL:HG23	2:AB:16:HIS:CE1	2.44	0.52
3:AC:107:GLN:H	3:AC:107:GLN:NE2	2.07	0.52
3:AC:16:ARG:HG3	3:AC:17:ASP:O	2.10	0.52
4:AD:149:ALA:HB3	4:AD:152:SER:OG	2.09	0.52
5:AE:11:ILE:HG22	5:AE:12:LEU:N	2.22	0.52
5:AE:147:ASP:O	5:AE:151:LEU:HG	2.09	0.52
12:AL:53:ARG:HH11	12:AL:53:ARG:CG	2.20	0.52
35:BA:1024:G:C3'	35:BA:1025:G:H5''	2.36	0.52
35:BA:1192:G:O2'	35:BA:1193:G:H5'	2.08	0.52
35:BA:271(P):C:C2'	35:BA:271(Q):G:H5'	2.38	0.52
35:BA:881:G:H2'	35:BA:882:G:O4'	2.09	0.52
13:AM:93:ARG:HG3	35:BA:888:C:OP1	2.09	0.52
45:BK:117:THR:OG1	45:BK:123:ALA:HB2	2.09	0.52
46:BN:93:THR:O	46:BN:94:HIS:HB2	2.09	0.52
48:BP:71:VAL:HG13	48:BP:72:PRO:CD	2.39	0.52
52:BT:42:ILE:CG1	52:BT:42:ILE:O	2.55	0.52
52:BT:57:PHE:CD2	52:BT:58:ASN:N	2.76	0.52
58:BZ:102:LEU:CD1	58:BZ:124:ILE:HG12	2.39	0.52
1:CA:1060:C:H2'	1:CA:1061:G:H8	1.75	0.52
1:CA:1529:G:H4'	1:CA:1530:G:OP2	2.10	0.52
1:CA:243:A:O2'	1:CA:244:U:OP2	2.27	0.52
1:CA:541:G:H2'	1:CA:542:G:H8	1.73	0.52
7:CG:76:ARG:HH11	7:CG:76:ARG:HG2	1.75	0.52
8:CH:13:ILE:O	8:CH:17:THR:HG23	2.10	0.52
9:CI:53:VAL:HB	9:CI:92:TYR:CE2	2.45	0.52
13:CM:93:ARG:HG3	35:DA:888:C:H5'	1.90	0.52
1:CA:280:C:O2	17:CQ:38:ARG:HG3	2.09	0.52
19:CS:20:LEU:HA	19:CS:23:ASN:HD22	1.72	0.52
1:CA:1052:U:H5'	24:CY:319:ASN:HD22	1.75	0.52
26:D1:11:ARG:HB2	26:D1:12:PRO:HD2	1.90	0.52
30:D5:40:LYS:CE	30:D5:46:CYS:HB3	2.39	0.52
30:D5:57:VAL:CG2	30:D5:58:LEU:H	2.16	0.52
35:DA:1039:G:O2'	35:DA:1040:C:H5'	2.09	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:1430:C:H2'	35:DA:1431:U:H6	1.75	0.52
35:DA:2713:A:H3'	35:DA:2714:G:H5'	1.91	0.52
38:DD:144:ALA:HB3	38:DD:192:THR:CG2	2.39	0.52
38:DD:65:ILE:HD11	38:DD:67:PHE:CE1	2.45	0.52
40:DF:148:LEU:HD11	40:DF:193:VAL:HG21	1.92	0.52
42:DH:156:ALA:O	42:DH:157:TYR:C	2.47	0.52
43:DI:1:MET:HG2	43:DI:2:LYS:N	2.25	0.52
43:DI:69:LYS:O	43:DI:73:GLU:HB2	2.09	0.52
44:DJ:96:UNK:C	44:DJ:98:UNK:N	2.72	0.52
48:DP:17:LYS:O	48:DP:17:LYS:HG2	2.09	0.52
54:DV:47:VAL:CB	54:DV:49:THR:O	2.56	0.52
56:DX:63:LYS:HA	56:DX:72:LYS:HA	1.91	0.52
57:DY:32:PRO:O	57:DY:34:LYS:N	2.42	0.52
1:AA:1287:A:C2	1:AA:1353:G:H1'	2.45	0.52
1:AA:165:C:H2'	1:AA:166:G:C8	2.43	0.52
4:AD:47:ARG:NE	4:AD:49:ARG:HH22	2.07	0.52
7:AG:135:VAL:HG12	7:AG:139:GLU:OE2	2.09	0.52
10:AJ:4:ILE:HD13	10:AJ:74:ILE:CD1	2.40	0.52
16:AP:19:ILE:N	16:AP:19:ILE:HD12	2.23	0.52
16:AP:55:ARG:HE	16:AP:55:ARG:HA	1.75	0.52
22:AV:18:G:H4'	22:AV:60:U:C2	2.45	0.52
35:BA:1097:U:H2'	35:BA:1098:A:H5'	1.91	0.52
35:BA:1109:C:O2	35:BA:1109:C:H3'	2.09	0.52
35:BA:1204:A:H2	35:BA:1241:A:N1	2.08	0.52
35:BA:13:A:H61	35:BA:525:U:H3'	1.75	0.52
35:BA:2818:G:O2'	35:BA:2819:G:H5'	2.09	0.52
35:BA:898:C:H2'	35:BA:899:A:O4'	2.10	0.52
41:BG:128:ARG:O	41:BG:129:GLY:O	2.28	0.52
36:BB:55:U:O4'	41:BG:29:TRP:NE1	2.43	0.52
41:BG:6:ALA:C	41:BG:8:LYS:H	2.12	0.52
43:BI:29:TYR:C	43:BI:32:PRO:HD2	2.30	0.52
45:BK:130:SER:O	45:BK:134:MET:HE2	2.09	0.52
48:BP:64:LYS:O	48:BP:66:GLY:N	2.40	0.52
54:BV:18:LEU:CD2	54:BV:19:LYS:N	2.70	0.52
57:BY:90:LEU:HD12	57:BY:91:GLU:HG2	1.90	0.52
58:BZ:45:ASP:OD2	58:BZ:49:ARG:NH2	2.41	0.52
1:CA:104:G:H4'	1:CA:174:C:O4'	2.09	0.52
1:CA:1242:C:H5''	21:CU:10:ARG:HH12	1.74	0.52
1:CA:179:A:H2'	1:CA:180:U:H6	1.74	0.52
1:CA:192:U:C4'	20:CT:103:GLY:N	2.71	0.52
1:CA:383:A:H2'	1:CA:384:G:C5'	2.39	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:711:G:O2'	1:CA:712:A:H5'	2.10	0.52
2:CB:121:LEU:HD21	2:CB:126:GLU:OE2	2.10	0.52
15:CO:16:ALA:HA	15:CO:27:VAL:CG2	2.40	0.52
18:CR:43:PHE:O	18:CR:51:LEU:HD12	2.09	0.52
24:CY:263:GLN:HA	24:CY:271:ASN:ND2	2.25	0.52
35:DA:1097:U:H2'	35:DA:1098:A:H5'	1.92	0.52
35:DA:1278:A:O3'	50:DR:34:ILE:HD12	2.09	0.52
35:DA:1528:A:C2	35:DA:1542:A:C2	2.95	0.52
35:DA:1591:G:H5'	35:DA:1591:G:H8	1.73	0.52
35:DA:1683:C:H2'	35:DA:1684:C:C6	2.44	0.52
35:DA:1762:A:H8	35:DA:1762:A:O5'	1.92	0.52
35:DA:2291:U:H2'	35:DA:2292:C:C6	2.43	0.52
35:DA:448:U:H1'	40:DF:84:VAL:HG13	1.91	0.52
38:DD:67:PHE:CE1	38:DD:157:ARG:CZ	2.92	0.52
39:DE:89:ASP:CG	39:DE:90:THR:N	2.62	0.52
40:DF:7:TYR:HB2	40:DF:17:ARG:N	2.25	0.52
40:DF:46:ARG:HG3	40:DF:46:ARG:NH1	2.25	0.52
44:DJ:110:UNK:O	44:DJ:111:UNK:CB	2.58	0.52
48:DP:19:VAL:HG23	48:DP:19:VAL:O	2.09	0.52
35:DA:2416:C:OP1	48:DP:64:LYS:O	2.27	0.52
58:DZ:5:LEU:O	58:DZ:59:LEU:HA	2.10	0.52
1:AA:233:C:O2'	1:AA:234:C:H5'	2.08	0.52
1:AA:458:C:N4	1:AA:474:G:H1	2.07	0.52
1:AA:724:G:H2'	1:AA:725:G:H8	1.75	0.52
6:AF:62:TRP:CH2	6:AF:64:GLN:HB2	2.45	0.52
7:AG:140:ASP:HA	7:AG:143:ARG:HH11	1.74	0.52
7:AG:69:VAL:HG12	7:AG:100:ALA:HA	1.91	0.52
9:AI:26:VAL:HG13	9:AI:61:ALA:O	2.10	0.52
13:AM:116:THR:HG22	13:AM:116:THR:O	2.10	0.52
24:AY:106:LEU:HD23	24:AY:349:LEU:HD13	1.92	0.52
29:B4:14:ILE:HG23	29:B4:31:ILE:HG21	1.90	0.52
35:BA:1688:U:H1'	35:BA:1701:A:C6	2.45	0.52
35:BA:176:G:O2'	35:BA:177:G:H5'	2.09	0.52
35:BA:2481:G:O2'	35:BA:2482:G:P	2.67	0.52
35:BA:1999:C:H4'	35:BA:2723:C:O2	2.09	0.52
35:BA:2761:G:H3'	35:BA:2762:G:H5''	1.90	0.52
35:BA:613:G:H8	35:BA:613:G:C5'	2.18	0.52
35:BA:993:G:OP1	53:BU:50:ARG:NH2	2.42	0.52
38:BD:32:SER:CA	38:BD:35:LYS:HZ3	2.20	0.52
41:BG:172:LEU:HD23	41:BG:172:LEU:O	2.09	0.52
42:BH:89:ILE:HD12	42:BH:90:LYS:O	2.09	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:BJ:57:UNK:O	44:BJ:58:UNK:C	2.56	0.52
45:BK:18:THR:HB	45:BK:19:PRO:HD3	1.92	0.52
47:BO:107:ARG:CZ	52:BT:35:LYS:HB2	2.40	0.52
48:BP:80:TYR:CD1	48:BP:111:ARG:HB3	2.44	0.52
48:BP:34:GLY:O	48:BP:35:HIS:CG	2.62	0.52
54:BV:39:LEU:H	54:BV:39:LEU:HD22	1.74	0.52
54:BV:46:VAL:CG1	54:BV:47:VAL:N	2.72	0.52
55:BW:18:ARG:NH1	55:BW:76:VAL:O	2.41	0.52
1:CA:1029:C:H4'	1:CA:1033:G:H22	1.74	0.52
1:CA:104:G:O2'	1:CA:105:G:H5'	2.09	0.52
1:CA:1438:G:H2'	1:CA:1439:C:H6	1.74	0.52
1:CA:1447:A:H2'	1:CA:1447:A:N3	2.23	0.52
1:CA:558:G:H2'	1:CA:559:A:H2	1.74	0.52
1:CA:1206:G:H4'	3:CC:192:THR:O	2.10	0.52
3:CC:37:GLN:NE2	14:CN:52:GLN:OE1	2.42	0.52
3:CC:5:ILE:O	3:CC:5:ILE:HD13	2.09	0.52
5:CE:105:VAL:HB	5:CE:106:PRO:HD3	1.92	0.52
5:CE:8:GLU:N	5:CE:34:VAL:HG23	2.24	0.52
7:CG:16:LEU:O	7:CG:17:VAL:HG23	2.10	0.52
9:CI:42:ARG:NH1	9:CI:71:SER:OG	2.42	0.52
12:CL:7:ILE:CG2	12:CL:8:ASN:N	2.72	0.52
13:CM:21:TYR:C	13:CM:22:ILE:HD12	2.30	0.52
15:CO:48:LYS:HE2	15:CO:48:LYS:CA	2.40	0.52
16:CP:19:ILE:H	16:CP:19:ILE:CD1	2.23	0.52
20:CT:51:GLU:HA	20:CT:54:LYS:NZ	2.24	0.52
24:CY:263:GLN:O	24:CY:263:GLN:HG2	2.10	0.52
24:CY:138:ARG:HH22	24:CY:337:LEU:HD13	1.73	0.52
26:D1:23:LYS:HD3	26:D1:28:GLY:HA3	1.92	0.52
26:D1:27:GLU:HG3	26:D1:28:GLY:H	1.73	0.52
27:D2:28:LYS:CD	27:D2:56:GLN:HE21	2.22	0.52
34:D9:31:LYS:HE2	35:DA:2528:U:C5'	2.39	0.52
35:DA:1374:G:H2'	35:DA:1375:C:H6	1.74	0.52
35:DA:2124:G:H1'	37:DC:43:GLU:OE2	2.10	0.52
35:DA:214:G:H1'	35:DA:216:A:O2'	2.09	0.52
35:DA:2190:G:C2'	35:DA:2191:G:H5'	2.40	0.52
35:DA:2315:G:H2'	35:DA:2316:C:H6	1.74	0.52
35:DA:2591:C:H2'	35:DA:2592:G:C8	2.45	0.52
35:DA:2611:U:H5'	35:DA:2611:U:H6	1.75	0.52
35:DA:315:G:H2'	35:DA:316:C:C6	2.45	0.52
35:DA:637:A:H4'	35:DA:638:G:O5'	2.10	0.52
40:DF:160:ASN:HD21	40:DF:162:LEU:HB2	1.75	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:DK:15:GLY:H	45:DK:45:THR:HG21	1.75	0.52
46:DN:30:ILE:HG23	46:DN:52:VAL:HG11	1.92	0.52
47:DO:89:ASN:O	47:DO:91:LEU:HD22	2.10	0.52
50:DR:118:GLU:HA	50:DR:118:GLU:OE1	2.09	0.52
50:DR:28:LEU:HD12	50:DR:44:LEU:CD1	2.38	0.52
57:DY:95:LYS:HE2	57:DY:99:CYS:O	2.10	0.52
2:AB:200:ILE:HG22	2:AB:201:ILE:N	2.25	0.52
5:AE:135:THR:O	5:AE:138:ALA:N	2.42	0.52
7:AG:136:LYS:O	7:AG:140:ASP:HB2	2.09	0.52
9:AI:65:VAL:CG2	9:AI:73:GLN:HB3	2.34	0.52
10:AJ:58:ASP:O	10:AJ:59:SER:C	2.47	0.52
12:AL:53:ARG:NH1	12:AL:53:ARG:HG2	2.21	0.52
13:AM:96:LEU:HB3	13:AM:97:PRO:HD2	1.90	0.52
16:AP:45:THR:HG22	16:AP:47:ASP:N	2.19	0.52
30:B5:54:GLY:O	30:B5:56:LYS:HD3	2.10	0.52
31:B6:42:TRP:HA	31:B6:42:TRP:HE3	1.75	0.52
35:BA:1241:A:O2'	35:BA:1242:A:H5'	2.09	0.52
35:BA:1504:C:O2'	35:BA:1505:C:C5'	2.57	0.52
35:BA:1683:C:H2'	35:BA:1684:C:C6	2.44	0.52
35:BA:2476:A:N3	35:BA:2477:C:H5''	2.25	0.52
35:BA:272(J):C:H5'	35:BA:274:G:OP2	2.09	0.52
35:BA:748:G:C8	55:BW:89:ALA:HB1	2.45	0.52
38:BD:65:ILE:HD13	38:BD:65:ILE:O	2.10	0.52
41:BG:52:ILE:O	41:BG:53:LEU:HB2	2.09	0.52
44:BJ:110:UNK:O	44:BJ:111:UNK:CB	2.58	0.52
48:BP:101:VAL:CG2	48:BP:102:ARG:N	2.73	0.52
48:BP:144:GLU:N	48:BP:145:PRO:CD	2.64	0.52
51:BS:59:LYS:HG2	51:BS:60:GLY:N	2.21	0.52
57:BY:62:GLU:CD	57:BY:63:LYS:O	2.48	0.52
58:BZ:100:VAL:CG1	58:BZ:137:ILE:HG12	2.39	0.52
1:CA:615:C:H2'	1:CA:616:G:O4'	2.10	0.52
2:CB:130:ARG:HB3	2:CB:134:GLU:HG3	1.91	0.52
2:CB:223:ILE:HG12	2:CB:226:ARG:CZ	2.40	0.52
4:CD:161:ASN:O	4:CD:162:LEU:HG	2.09	0.52
7:CG:140:ASP:HA	7:CG:143:ARG:HH11	1.73	0.52
7:CG:69:VAL:HG12	7:CG:100:ALA:HA	1.91	0.52
7:CG:6:ARG:HG2	7:CG:6:ARG:O	2.09	0.52
9:CI:65:VAL:HG21	9:CI:73:GLN:CB	2.33	0.52
12:CL:24:VAL:CG2	12:CL:97:ARG:HB3	2.39	0.52
13:CM:88:ARG:CA	13:CM:98:VAL:HG11	2.23	0.52
17:CQ:59:ILE:HG23	17:CQ:72:ARG:O	2.09	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:CV:53:G:H2'	22:CV:54:U:C6	2.45	0.52
24:CY:26:LEU:CB	24:CY:55:LEU:HD11	2.40	0.52
28:D3:19:GLN:NE2	28:D3:52:HIS:CE1	2.78	0.52
30:D5:50:GLY:O	30:D5:51:TYR:CD1	2.63	0.52
33:D8:32:LEU:HB2	33:D8:36:LYS:NZ	2.25	0.52
27:D2:7:ARG:NH2	35:DA:102:G:OP2	2.41	0.52
35:DA:1192:G:O2'	35:DA:1193:G:H5'	2.10	0.52
34:D9:4:ARG:NH1	35:DA:2477:C:C4	2.78	0.52
37:DC:186:LEU:O	37:DC:190:ILE:HG12	2.09	0.52
37:DC:46:ALA:H	37:DC:172:ILE:HG22	1.73	0.52
41:DG:15:VAL:HG13	41:DG:175:LEU:HD12	1.91	0.52
42:DH:47:GLU:C	42:DH:49:VAL:H	2.12	0.52
51:DS:41:ASP:OD2	51:DS:44:LYS:HD3	2.10	0.52
52:DT:100:TYR:HD2	52:DT:103:ARG:NH2	1.99	0.52
53:DU:95:LEU:HD12	54:DV:11:GLN:HB2	1.90	0.52
55:DW:18:ARG:NH1	55:DW:76:VAL:HG13	2.24	0.52
35:DA:1336:A:OP1	56:DX:64:LYS:HE3	2.09	0.52
1:AA:1206:G:H4'	3:AC:192:THR:O	2.10	0.52
1:AA:1372:U:H2'	1:AA:1373:G:O4'	2.10	0.52
1:AA:1441:G:H5''	1:AA:1442:G:H5'	1.91	0.52
1:AA:309:G:O2'	1:AA:310:G:H5'	2.10	0.52
1:AA:615:C:H2'	1:AA:616:G:O4'	2.10	0.52
1:AA:797:C:OP1	11:AK:124:LYS:HE3	2.10	0.52
2:AB:185:ILE:HA	2:AB:199:TYR:O	2.09	0.52
1:AA:1057:G:H5''	3:AC:154:SER:OG	2.10	0.52
3:AC:179:ARG:HH21	3:AC:207:VAL:HG22	1.73	0.52
5:AE:72:GLN:O	5:AE:75:THR:HG22	2.09	0.52
8:AH:13:ILE:O	8:AH:17:THR:HG23	2.09	0.52
11:AK:125:PHE:N	11:AK:125:PHE:CD1	2.78	0.52
1:AA:562:C:H1'	12:AL:15:ARG:HD2	1.92	0.52
13:AM:123:ALA:C	24:AY:162:ALA:HA	2.30	0.52
15:AO:7:GLU:O	15:AO:10:LYS:HB3	2.09	0.52
16:AP:67:THR:HB	16:AP:70:ALA:CB	2.40	0.52
20:AT:26:ASN:HD22	20:AT:26:ASN:N	2.06	0.52
22:AV:8:U:H5'	22:AV:49:C:OP2	2.10	0.52
24:AY:177:TYR:CE1	24:AY:212:PRO:HD3	2.45	0.52
28:B3:52:HIS:CD2	36:BB:83:G:H4'	2.45	0.52
35:BA:1385:G:O2'	35:BA:1396:U:C6	2.61	0.52
35:BA:2352:A:H2'	35:BA:2353:G:O4'	2.10	0.52
35:BA:2810:A:O2'	39:BE:61:ARG:CZ	2.58	0.52
35:BA:304:G:H2'	35:BA:305:U:H6	1.72	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:2124:G:H1'	37:BC:43:GLU:OE2	2.10	0.52
38:BD:12:SER:HB2	38:BD:208:LYS:HB3	1.92	0.52
45:BK:60:TYR:O	45:BK:61:ALA:HB3	2.09	0.52
49:BQ:67:ARG:NH1	49:BQ:67:ARG:HG2	2.25	0.52
57:BY:32:PRO:O	57:BY:34:LYS:N	2.43	0.52
57:BY:42:VAL:CB	57:BY:65:ALA:HB3	2.39	0.52
1:CA:1019:C:O2'	1:CA:1020:U:H5'	2.09	0.52
1:CA:1351:U:O2'	1:CA:1352:C:H5'	2.09	0.52
1:CA:1369:C:H2'	1:CA:1370:G:C8	2.45	0.52
2:CB:185:ILE:HA	2:CB:199:TYR:O	2.10	0.52
4:CD:20:TYR:N	4:CD:20:TYR:CD1	2.78	0.52
8:CH:20:TYR:HD1	8:CH:65:TYR:CD2	2.26	0.52
17:CQ:90:ILE:HG23	17:CQ:93:GLN:NE2	2.25	0.52
24:CY:257:GLY:O	24:CY:259:THR:HG23	2.10	0.52
26:D1:64:ALA:HA	26:D1:67:ILE:CG1	2.40	0.52
27:D2:5:GLU:OE2	27:D2:9:GLN:NE2	2.43	0.52
31:D6:42:TRP:HA	31:D6:42:TRP:HE3	1.73	0.52
35:DA:1078:U:H5'	45:DK:132:ARG:HH12	1.74	0.52
35:DA:1881:C:H2'	35:DA:1881:C:O2	2.09	0.52
35:DA:271(P):C:C2'	35:DA:271(Q):G:H5'	2.39	0.52
35:DA:2795:G:N3	35:DA:2795:G:H2'	2.25	0.52
35:DA:310:A:OP1	57:DY:17:SER:O	2.28	0.52
35:DA:363(F):A:HO2'	35:DA:364:C:H6	1.48	0.52
35:DA:743:G:O2'	35:DA:744:G:H5'	2.10	0.52
40:DF:24:LEU:HD13	40:DF:118:ALA:CB	2.38	0.52
40:DF:9:ILE:O	40:DF:128:ALA:HB2	2.10	0.52
41:DG:82:LEU:HD23	41:DG:83:ARG:N	2.13	0.52
42:DH:124:GLU:HB2	42:DH:132:ARG:CG	2.39	0.52
43:DI:93:THR:O	43:DI:96:ASP:HB2	2.09	0.52
48:DP:38:GLN:HG3	48:DP:39:LYS:N	2.21	0.52
52:DT:45:PHE:CE2	52:DT:63:VAL:HB	2.44	0.52
52:DT:57:PHE:CD2	52:DT:58:ASN:N	2.74	0.52
57:DY:39:VAL:HG12	57:DY:40:GLU:N	2.15	0.52
58:DZ:73:GLN:HB3	58:DZ:87:ASP:HB2	1.91	0.52
1:AA:1072:G:H2'	1:AA:1073:U:C6	2.45	0.52
1:AA:1149:C:H2'	1:AA:1150:U:H6	1.73	0.52
1:AA:170:U:O2'	1:AA:171:A:H5'	2.10	0.52
1:AA:545:C:H5''	4:AD:72:GLU:HG2	1.92	0.52
1:AA:639:G:O2'	1:AA:640:A:H5'	2.10	0.52
1:AA:751:U:C2'	1:AA:752:G:H5'	2.39	0.52
2:AB:42:ILE:HD11	2:AB:202:PRO:HB2	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:AE:8:GLU:N	5:AE:34:VAL:HG23	2.24	0.52
12:AL:33:ARG:HA	12:AL:33:ARG:HE	1.75	0.52
16:AP:9:PHE:HB2	16:AP:16:HIS:O	2.10	0.52
17:AQ:76:LEU:HD12	17:AQ:77:VAL:N	2.24	0.52
33:B8:55:ALA:O	33:B8:59:LYS:HE2	2.10	0.52
33:B8:62:LEU:N	33:B8:63:PRO:CD	2.73	0.52
35:BA:1503:U:H2'	35:BA:1504:C:C6	2.44	0.52
35:BA:1547:C:O2'	35:BA:1548:C:H5'	2.09	0.52
22:AV:12:U:H4'	35:BA:1908:C:O2	2.09	0.52
35:BA:2306:C:H5''	35:BA:2307:G:O4'	2.10	0.52
35:BA:719:C:O2'	35:BA:720:C:H5'	2.10	0.52
36:BB:86:G:H1	36:BB:91:C:N4	2.08	0.52
38:BD:109:ASP:HB2	38:BD:197:GLY:HA2	1.92	0.52
40:BF:160:ASN:ND2	40:BF:162:LEU:H	2.07	0.52
42:BH:124:GLU:HB2	42:BH:132:ARG:CG	2.39	0.52
46:BN:30:ILE:HG23	46:BN:52:VAL:HG11	1.91	0.52
49:BQ:58:PHE:O	49:BQ:58:PHE:HD1	1.92	0.52
51:BS:44:LYS:O	51:BS:46:VAL:HG23	2.10	0.52
56:BX:24:GLY:O	56:BX:82:GLN:HA	2.10	0.52
56:BX:63:LYS:HA	56:BX:72:LYS:HA	1.92	0.52
2:CB:200:ILE:HG22	2:CB:201:ILE:N	2.24	0.52
2:CB:42:ILE:HD11	2:CB:202:PRO:HB2	1.92	0.52
2:CB:238:LEU:HG	2:CB:239:VAL:N	2.25	0.52
4:CD:132:ARG:NH1	4:CD:132:ARG:HG2	2.23	0.52
4:CD:149:ALA:HB3	4:CD:152:SER:OG	2.10	0.52
6:CF:89:MET:SD	18:CR:76:LEU:HD21	2.50	0.52
8:CH:65:TYR:N	8:CH:65:TYR:CD1	2.78	0.52
9:CI:122:ALA:HB1	9:CI:123:PRO:HD2	1.92	0.52
9:CI:64:THR:O	9:CI:64:THR:HG22	2.08	0.52
9:CI:77:ILE:O	9:CI:77:ILE:HG22	2.09	0.52
16:CP:9:PHE:HB2	16:CP:16:HIS:O	2.10	0.52
22:CW:25:C:H2'	22:CW:26:A:C8	2.29	0.52
23:CX:20:A:N6	24:CY:195:PHE:HB2	2.25	0.52
24:CY:238:GLY:CA	24:CY:242:VAL:HB	2.26	0.52
29:D4:22:ILE:HD12	29:D4:22:ILE:N	2.25	0.52
30:D5:46:CYS:SG	30:D5:47:PRO:CD	2.96	0.52
35:DA:1448:G:H5'	35:DA:1449:A:OP1	2.10	0.52
35:DA:1718:G:H5'	35:DA:1718:G:C8	2.44	0.52
35:DA:2476:A:C2	35:DA:2477:C:C6	2.98	0.52
35:DA:346:A:H2'	35:DA:347:A:H5'	1.92	0.52
35:DA:690:G:H2'	35:DA:691:C:C6	2.45	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:DC:23:ILE:HG22	37:DC:23:ILE:O	2.10	0.52
41:DG:117:PHE:HA	41:DG:181:ARG:NH2	2.25	0.52
44:DJ:14:UNK:O	44:DJ:65:UNK:HA	2.09	0.52
47:DO:107:ARG:CZ	52:DT:35:LYS:HB2	2.40	0.52
47:DO:87:ILE:HG22	47:DO:88:ASN:N	2.25	0.52
48:DP:108:LYS:HD2	48:DP:108:LYS:N	2.25	0.52
50:DR:7:GLY:O	50:DR:8:ARG:CB	2.58	0.52
54:DV:18:LEU:CD2	54:DV:19:LYS:H	2.23	0.52
56:DX:50:LYS:HB3	56:DX:84:ALA:CB	2.38	0.52
58:DZ:119:GLU:O	58:DZ:120:ILE:C	2.48	0.52
1:AA:237:C:H4'	17:AQ:25:ARG:NH1	2.24	0.52
1:AA:479:C:H2'	1:AA:480:U:C6	2.45	0.52
1:AA:558:G:H2'	1:AA:559:A:H2	1.74	0.52
2:AB:185:ILE:HG22	2:AB:199:TYR:CB	2.33	0.52
2:AB:97:TRP:HZ3	2:AB:172:ILE:HG22	1.74	0.52
4:AD:61:LYS:HG3	4:AD:203:VAL:HG13	1.91	0.52
8:AH:30:ARG:CB	8:AH:30:ARG:NH1	2.72	0.52
10:AJ:8:LEU:O	10:AJ:16:LEU:HD21	2.10	0.52
1:AA:1151:A:H5''	10:AJ:42:THR:H	1.75	0.52
11:AK:126:ARG:HB3	11:AK:126:ARG:CZ	2.40	0.52
13:AM:43:THR:O	13:AM:44:ARG:HD3	2.10	0.52
22:AW:18:G:H1'	22:AW:58:A:C6	2.44	0.52
22:AW:57:G:H2'	22:AW:58:A:C5'	2.40	0.52
27:B2:63:VAL:O	27:B2:67:LYS:HG2	2.09	0.52
28:B3:31:LEU:O	28:B3:32:GLN:HB2	2.10	0.52
35:BA:1062:G:H2'	35:BA:1063:G:H8	1.73	0.52
35:BA:1541:G:H1'	35:BA:1542:A:C6	2.45	0.52
35:BA:2190:G:C2'	35:BA:2191:G:H5'	2.40	0.52
35:BA:2732:G:O2'	35:BA:2733:A:H5'	2.10	0.52
35:BA:2795:G:H2'	35:BA:2795:G:N3	2.24	0.52
35:BA:274:G:N7	35:BA:363:G:N1	2.58	0.52
40:BF:7:TYR:HB2	40:BF:16:GLY:C	2.31	0.52
41:BG:52:ILE:H	41:BG:52:ILE:CD1	2.06	0.52
43:BI:93:THR:HG22	43:BI:96:ASP:HB2	1.92	0.52
44:BJ:14:UNK:O	44:BJ:65:UNK:HA	2.10	0.52
48:BP:113:LYS:O	48:BP:115:LEU:HD22	2.10	0.52
48:BP:48:PRO:HG2	48:BP:49:ARG:N	2.24	0.52
49:BQ:97:VAL:HG21	49:BQ:103:MET:HE2	1.91	0.52
51:BS:20:ARG:HA	51:BS:20:ARG:HE	1.75	0.52
51:BS:97:ARG:NH1	51:BS:97:ARG:HG2	2.24	0.52
1:CA:1088:G:H2'	1:CA:1089:G:H8	1.74	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:9:G:H2'	1:CA:10:A:H8	1.75	0.52
1:CA:1143:G:H2'	1:CA:1144:G:H8	1.73	0.52
1:CA:1151:A:HO2'	1:CA:1152:A:H8	1.58	0.52
1:CA:119:A:O2'	1:CA:120:A:OP2	2.21	0.52
1:CA:1315:U:H2'	1:CA:1316:G:O4'	2.10	0.52
1:CA:624:C:H2'	1:CA:625:G:C8	2.37	0.52
1:CA:16:A:N1	1:CA:919:A:C2	2.78	0.52
3:CC:186:PHE:CE2	3:CC:188:LEU:HD21	2.44	0.52
4:CD:119:GLN:O	4:CD:123:HIS:CD2	2.63	0.52
10:CJ:63:PHE:HD1	14:CN:58:LYS:HG2	1.74	0.52
12:CL:42:THR:OG1	12:CL:52:LEU:HB3	2.10	0.52
13:CM:116:THR:O	13:CM:116:THR:HG22	2.10	0.52
22:CW:59:U:N1	22:CW:60:U:H5	2.08	0.52
24:CY:152:GLU:OE1	24:CY:170:LEU:HD23	2.09	0.52
24:CY:242:VAL:CG1	24:CY:243:ASN:N	2.72	0.52
24:CY:309:SER:O	24:CY:310:GLN:HG3	2.10	0.52
31:D6:12:GLU:HB3	31:D6:21:TYR:HD2	1.74	0.52
33:D8:62:LEU:N	33:D8:63:PRO:CD	2.72	0.52
35:DA:1062:G:H2'	35:DA:1063:G:H8	1.74	0.52
35:DA:1590:U:C3'	35:DA:1591:G:H5''	2.40	0.52
35:DA:1997:G:O2'	35:DA:1998:G:H5'	2.10	0.52
25:D0:10:THR:HG21	35:DA:2277:G:OP1	2.10	0.52
35:DA:654(S):G:H2'	35:DA:654(T):C:C2	2.45	0.52
35:DA:720:C:H2'	35:DA:721:C:C6	2.42	0.52
39:DE:167:VAL:HG22	39:DE:170:LEU:HD11	1.92	0.52
39:DE:202:LYS:O	39:DE:203:LYS:HB3	2.09	0.52
35:DA:2810:A:H1'	39:DE:61:ARG:HH12	1.75	0.52
40:DF:117:ARG:HD3	40:DF:120:GLU:OE1	2.10	0.52
29:D4:31:ILE:HD12	41:DG:142:PRO:O	2.10	0.52
45:DK:82:ALA:HB1	45:DK:98:ARG:H	1.75	0.52
47:DO:104:ARG:NE	52:DT:33:LYS:HD2	2.25	0.52
49:DQ:2:LEU:O	49:DQ:70:PRO:HG2	2.10	0.52
55:DW:12:ILE:HB	55:DW:42:ARG:HH12	1.73	0.52
58:DZ:131:ARG:CZ	58:DZ:131:ARG:HB3	2.40	0.52
1:AA:119:A:O2'	1:AA:120:A:OP2	2.20	0.51
1:AA:1316:G:H2'	1:AA:1317:C:H5''	1.91	0.51
1:AA:255:G:H1'	17:AQ:16:GLN:HE21	1.71	0.51
1:AA:41:G:H2'	1:AA:42:G:H8	1.75	0.51
2:AB:97:TRP:CZ2	2:AB:173:ALA:HA	2.46	0.51
3:AC:83:ARG:O	3:AC:86:VAL:HG22	2.10	0.51
8:AH:11:THR:HA	8:AH:14:ARG:NH1	2.24	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:AH:51:VAL:HG11	8:AH:60:ARG:CD	2.40	0.51
8:AH:90:GLY:O	12:AL:7:ILE:HG21	2.10	0.51
9:AI:126:SER:O	9:AI:127:LYS:HB3	2.10	0.51
12:AL:6:THR:H	12:AL:9:GLN:NE2	1.99	0.51
13:AM:19:LEU:HD22	13:AM:19:LEU:N	2.24	0.51
17:AQ:59:ILE:HD12	17:AQ:73:VAL:HA	1.92	0.51
24:AY:214:VAL:HG22	24:AY:215:ASP:H	1.74	0.51
24:AY:59:VAL:HG12	24:AY:59:VAL:O	2.09	0.51
26:B1:8:SER:HB3	26:B1:66:HIS:CG	2.45	0.51
28:B3:31:LEU:O	35:BA:1158:C:H4'	2.10	0.51
30:B5:48:GLU:O	30:B5:49:CYS:SG	2.68	0.51
30:B5:51:TYR:CD2	30:B5:52:TYR:CZ	2.95	0.51
31:B6:15:GLU:OE1	31:B6:43:CYS:SG	2.68	0.51
35:BA:1857:G:O2'	35:BA:1885:A:N6	2.43	0.51
35:BA:2302:G:H1'	41:BG:128:ARG:HE	1.75	0.51
24:AY:238:GLY:HA2	35:BA:2602:A:N3	2.25	0.51
35:BA:275:G:N3	35:BA:275:G:H2'	2.25	0.51
35:BA:643:A:O2'	35:BA:644:A:H5'	2.10	0.51
48:BP:112:LEU:H	48:BP:128:HIS:CD2	2.24	0.51
25:B0:7:LEU:HD21	49:BQ:81:VAL:HB	1.92	0.51
52:BT:29:ARG:NE	52:BT:86:ILE:HG22	2.25	0.51
58:BZ:102:LEU:HD23	58:BZ:104:PHE:CE1	2.45	0.51
1:CA:1029:C:H2'	1:CA:1030(A):G:C5	2.45	0.51
1:CA:1279:A:H2'	1:CA:1279:A:N3	2.25	0.51
1:CA:385:C:O2'	1:CA:386:C:H5'	2.10	0.51
1:CA:42:G:H2'	1:CA:43:C:C6	2.46	0.51
1:CA:820:U:H4'	1:CA:821:G:OP2	2.10	0.51
1:CA:90:U:OP2	1:CA:91:C:H5'	2.10	0.51
2:CB:67:THR:HG21	2:CB:155:LEU:CD1	2.38	0.51
2:CB:70:PHE:HA	2:CB:163:PHE:O	2.10	0.51
2:CB:158:LEU:HD22	2:CB:182:ILE:HD11	1.92	0.51
2:CB:25:ASN:O	2:CB:27:LYS:N	2.43	0.51
3:CC:16:ARG:HG3	3:CC:17:ASP:O	2.10	0.51
3:CC:47:LEU:HD11	3:CC:68:VAL:HG11	1.91	0.51
1:CA:1298:C:N4	7:CG:114:ARG:HB3	2.25	0.51
8:CH:103:VAL:CG2	8:CH:110:ALA:HB2	2.39	0.51
10:CJ:49:VAL:HG22	10:CJ:50:ILE:N	2.25	0.51
22:CW:16:U:C2	22:CW:18:G:H3'	2.44	0.51
22:CW:52:G:N1	22:CW:62:C:N4	2.58	0.51
24:CY:346:TRP:HE3	24:CY:346:TRP:N	2.08	0.51
35:DA:1058:G:H21	45:DK:126:MET:HE2	1.74	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:1227:G:OP1	53:DU:13:LYS:HD3	2.10	0.51
35:DA:2183:C:O2'	35:DA:2184:G:H5'	2.10	0.51
37:DC:6:LYS:C	37:DC:8:TYR:N	2.61	0.51
40:DF:132:VAL:O	40:DF:133:ASN:C	2.48	0.51
40:DF:187:VAL:O	40:DF:187:VAL:HG12	2.09	0.51
41:DG:125:PHE:CE2	41:DG:173:LEU:HD12	2.45	0.51
43:DI:77:LEU:HD23	43:DI:77:LEU:O	2.10	0.51
46:DN:19:GLU:CG	46:DN:20:GLY:H	2.20	0.51
46:DN:9:VAL:HG21	46:DN:48:MET:CB	2.40	0.51
47:DO:23:ARG:HG3	47:DO:24:VAL:N	2.25	0.51
48:DP:98:GLU:O	48:DP:101:VAL:HG22	2.10	0.51
49:DQ:14:ARG:HG2	49:DQ:41:TRP:CH2	2.42	0.51
49:DQ:58:PHE:HD1	49:DQ:58:PHE:O	1.93	0.51
54:DV:18:LEU:CD2	54:DV:19:LYS:N	2.72	0.51
58:DZ:105:VAL:HG11	58:DZ:138:GLU:OE1	2.10	0.51
1:AA:1029:C:H2'	1:AA:1030(A):G:C5	2.45	0.51
1:AA:1472:U:H2'	1:AA:1473:A:H8	1.74	0.51
2:AB:29:ALA:HA	2:AB:32:ILE:HG22	1.91	0.51
3:AC:130:VAL:O	3:AC:134:ILE:HG13	2.10	0.51
5:AE:69:VAL:HG21	5:AE:113:ALA:HB1	1.92	0.51
5:AE:140:ARG:O	5:AE:140:ARG:HG2	2.09	0.51
9:AI:53:VAL:HB	9:AI:92:TYR:CE2	2.45	0.51
12:AL:90:VAL:O	12:AL:90:VAL:HG12	2.09	0.51
14:AN:9:LYS:HG3	14:AN:12:ARG:NH2	2.26	0.51
13:AM:86:CYS:HB2	19:AS:73:GLU:HG2	1.92	0.51
20:AT:73:HIS:O	20:AT:74:LYS:C	2.48	0.51
22:AV:32:U:H2'	22:AV:32:U:O2	2.09	0.51
31:B6:15:GLU:CD	31:B6:18:ARG:NE	2.63	0.51
35:BA:1061:U:O4	45:BK:11:GLN:HG2	2.10	0.51
35:BA:1048:A:OP2	35:BA:1109:C:N4	2.44	0.51
35:BA:330:A:C2	35:BA:1210:A:H2'	2.39	0.51
35:BA:142:A:C8	35:BA:1408:C:H1'	2.45	0.51
35:BA:2208:A:H1'	35:BA:2219:G:C4	2.45	0.51
35:BA:672:C:O2'	35:BA:673:C:H5''	2.09	0.51
38:BD:211:ARG:HD3	38:BD:214:TRP:CZ3	2.46	0.51
39:BE:61:ARG:HB3	39:BE:62:PRO:HD3	1.93	0.51
40:BF:24:LEU:O	40:BF:115:ALA:HB1	2.10	0.51
41:BG:36:LYS:HG2	41:BG:38:VAL:HG23	1.92	0.51
41:BG:40:ASN:ND2	41:BG:41:GLN:H	2.02	0.51
43:BI:59:ALA:HA	43:BI:63:ALA:HB2	1.92	0.51
48:BP:41:ARG:HH12	48:BP:45:LEU:HG	1.75	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
50:BR:28:LEU:HD12	50:BR:44:LEU:CD1	2.41	0.51
51:BS:106:ARG:HH11	51:BS:106:ARG:CB	2.23	0.51
51:BS:89:ARG:O	51:BS:92:TYR:CB	2.54	0.51
57:BY:95:LYS:HE2	57:BY:99:CYS:O	2.10	0.51
58:BZ:96:VAL:HG22	58:BZ:97:GLU:N	2.20	0.51
1:CA:102:G:H2'	1:CA:103:C:H6	1.75	0.51
1:CA:1053:G:N7	1:CA:1199:U:H3'	2.25	0.51
1:CA:1307:U:H2'	1:CA:1308:U:C6	2.46	0.51
1:CA:1409:C:H2'	1:CA:1410:G:H8	1.74	0.51
1:CA:814:A:N7	1:CA:816:A:C4	2.78	0.51
3:CC:119:ARG:HH21	3:CC:140:ARG:HE	1.59	0.51
1:CA:1372:U:OP1	9:CI:72:GLY:N	2.43	0.51
1:CA:1302:U:C5	13:CM:17:VAL:HG21	2.46	0.51
17:CQ:11:VAL:O	17:CQ:12:SER:HB2	2.10	0.51
19:CS:62:ILE:HD12	19:CS:66:MET:CE	2.41	0.51
24:CY:119:THR:CG2	24:CY:166:TYR:HE1	2.23	0.51
24:CY:23:GLU:OE1	24:CY:26:LEU:HD23	2.10	0.51
26:D1:56:GLN:HB3	26:D1:87:PRO:HB3	1.92	0.51
26:D1:56:GLN:NE2	26:D1:85:LEU:HD23	2.26	0.51
35:DA:1046:A:C2	44:DJ:8:UNK:N	2.78	0.51
35:DA:13:A:H61	35:DA:525:U:H3'	1.75	0.51
35:DA:1490:A:H5'	35:DA:1494:A:N6	2.25	0.51
35:DA:2761:G:H2'	35:DA:2762:G:H5''	1.91	0.51
36:DB:50:G:P	51:DS:62:LYS:HB2	2.51	0.51
38:DD:181:GLU:HA	38:DD:272:ALA:CB	2.37	0.51
38:DD:45:ASN:OD1	38:DD:46:GLN:N	2.44	0.51
41:DG:63:ILE:HD12	41:DG:141:PHE:CD1	2.45	0.51
41:DG:41:GLN:HG2	41:DG:155:MET:HB3	1.92	0.51
36:DB:42:C:H4'	41:DG:67:LYS:HD3	1.91	0.51
41:DG:71:THR:HG22	41:DG:89:GLY:O	2.10	0.51
45:DK:9:LYS:O	45:DK:9:LYS:HG3	2.09	0.51
46:DN:15:LEU:O	46:DN:136:GLU:HA	2.10	0.51
53:DU:92:ARG:HB3	54:DV:11:GLN:NE2	2.25	0.51
55:DW:5:ALA:O	55:DW:6:ILE:HB	2.11	0.51
1:AA:1029:C:H4'	1:AA:1033:G:H22	1.74	0.51
1:AA:1307:U:H2'	1:AA:1308:U:C6	2.45	0.51
1:AA:1496:C:H2'	1:AA:1497:G:O4'	2.10	0.51
1:AA:711:G:O2'	1:AA:712:A:H5'	2.11	0.51
1:AA:677:U:H3	1:AA:713:G:H22	1.58	0.51
1:AA:820:U:H4'	1:AA:821:G:OP2	2.11	0.51
1:AA:90:U:OP2	1:AA:91:C:H5'	2.10	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:962:C:H2'	1:AA:963:G:H8	1.75	0.51
2:AB:121:LEU:HD21	2:AB:126:GLU:OE2	2.10	0.51
6:AF:78:GLU:O	6:AF:81:ILE:HG13	2.10	0.51
1:AA:942:G:N2	9:AI:124:GLN:NE2	2.59	0.51
26:B1:19:GLN:O	26:B1:35:THR:HG22	2.10	0.51
26:B1:80:LEU:HD22	26:B1:82:LEU:HD12	1.92	0.51
32:B7:35:ARG:HD3	35:BA:54:G:O2'	2.10	0.51
35:BA:1025:G:C4	35:BA:1135:C:H1'	2.46	0.51
35:BA:1227:G:OP1	53:BU:13:LYS:HD3	2.10	0.51
35:BA:1517:G:O2'	35:BA:1518:U:H5'	2.11	0.51
35:BA:1528:A:N1	35:BA:1542:A:H2	2.09	0.51
35:BA:1528:A:C2	35:BA:1542:A:C2	2.96	0.51
35:BA:1762:A:O5'	35:BA:1762:A:H8	1.93	0.51
35:BA:2312:U:H2'	35:BA:2313:C:C5'	2.35	0.51
35:BA:2788:C:O2'	35:BA:2809:A:N3	2.36	0.51
35:BA:637:A:H4'	35:BA:638:G:O5'	2.11	0.51
35:BA:817:C:O2'	35:BA:839:U:H5''	2.10	0.51
35:BA:918:A:H5''	36:BB:98:G:O2'	2.10	0.51
37:BC:23:ILE:O	37:BC:23:ILE:HG22	2.11	0.51
38:BD:111:LEU:HD13	38:BD:112:GLN:H	1.75	0.51
38:BD:121:PRO:HA	38:BD:135:PHE:HD1	1.75	0.51
40:BF:11:VAL:HG12	40:BF:12:LEU:H	1.75	0.51
41:BG:106:LEU:HD13	41:BG:141:PHE:HE1	1.76	0.51
52:BT:65:LYS:HA	52:BT:65:LYS:NZ	2.26	0.51
57:BY:28:LYS:NZ	57:BY:72:VAL:HG21	2.25	0.51
1:CA:1002:G:H2'	1:CA:1003:G:H5'	1.93	0.51
1:CA:1287:A:C2	1:CA:1353:G:H1'	2.45	0.51
1:CA:1505:G:H5''	1:CA:1506:U:H5''	1.92	0.51
1:CA:793:U:H5'	1:CA:794:A:O5'	2.09	0.51
2:CB:223:ILE:HG12	2:CB:226:ARG:NH2	2.26	0.51
4:CD:126:ILE:CG2	4:CD:127:THR:H	2.23	0.51
5:CE:101:ILE:CD1	5:CE:119:LEU:HD23	2.35	0.51
10:CJ:8:LEU:HB3	10:CJ:16:LEU:HD21	1.93	0.51
11:CK:126:ARG:CZ	11:CK:126:ARG:HB3	2.40	0.51
12:CL:26:ALA:C	12:CL:27:LEU:HD22	2.31	0.51
17:CQ:59:ILE:HD12	17:CQ:73:VAL:HA	1.91	0.51
19:CS:6:LYS:O	19:CS:7:LYS:HD3	2.11	0.51
20:CT:24:LEU:C	20:CT:24:LEU:HD13	2.30	0.51
28:D3:2:PRO:O	28:D3:39:ASP:HB2	2.09	0.51
30:D5:55:ARG:HE	50:DR:33:ARG:NH1	2.07	0.51
30:D5:59:GLU:O	30:D5:60:VAL:HG23	2.10	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:D8:22:VAL:HG12	33:D8:49:VAL:HG21	1.91	0.51
35:DA:2742:C:O2'	35:DA:2743:C:H5'	2.10	0.51
35:DA:274:G:N7	35:DA:363:G:N1	2.58	0.51
35:DA:893:C:H2'	35:DA:894:C:C6	2.44	0.51
37:DC:208:THR:HB	37:DC:211:ARG:CG	2.40	0.51
41:DG:10:LYS:O	41:DG:15:VAL:HG23	2.10	0.51
35:DA:1952:A:C5	47:DO:22:ILE:HD12	2.45	0.51
48:DP:101:VAL:HG12	48:DP:107:LYS:N	2.25	0.51
49:DQ:27:VAL:HG12	49:DQ:105:GLU:OE2	2.10	0.51
51:DS:101:LEU:O	51:DS:101:LEU:HD12	2.11	0.51
51:DS:89:ARG:HG2	51:DS:92:TYR:CA	2.39	0.51
1:AA:1081:G:O2'	1:AA:1082:G:H5'	2.10	0.51
1:AA:1104:G:O2'	1:AA:1105:A:H5'	2.10	0.51
1:AA:1288:A:H2'	1:AA:1289:A:H8	1.75	0.51
1:AA:862:C:O2'	1:AA:863:U:H5'	2.10	0.51
1:AA:963:G:H21	10:AJ:55:LYS:NZ	2.07	0.51
2:AB:95:GLN:HE21	2:AB:147:LYS:CG	2.24	0.51
11:AK:79:SER:HB2	11:AK:106:LYS:HE3	1.91	0.51
12:AL:7:ILE:CG2	12:AL:8:ASN:N	2.73	0.51
27:B2:20:GLU:C	27:B2:22:GLU:H	2.14	0.51
35:BA:2712:U:O2'	35:BA:2713:A:H5'	2.10	0.51
35:BA:307:G:H21	35:BA:330:A:H62	1.57	0.51
35:BA:363(F):A:O2'	35:BA:364:C:C6	2.63	0.51
35:BA:620:G:H5''	35:BA:620:G:N3	2.25	0.51
37:BC:208:THR:HB	37:BC:211:ARG:CG	2.41	0.51
38:BD:35:LYS:NZ	38:BD:35:LYS:HB3	2.26	0.51
38:BD:67:PHE:CE1	38:BD:157:ARG:CZ	2.93	0.51
39:BE:33:VAL:HG23	39:BE:47:VAL:HG23	1.93	0.51
40:BF:160:ASN:OD1	40:BF:163:VAL:HG23	2.10	0.51
40:BF:18:ARG:NH1	40:BF:199:TRP:HE3	2.08	0.51
41:BG:125:PHE:O	41:BG:126:ASP:O	2.28	0.51
41:BG:85:GLY:O	41:BG:86:MET:HB3	2.09	0.51
42:BH:24:VAL:HG12	42:BH:35:VAL:HB	1.91	0.51
43:BI:130:TYR:O	43:BI:131:LYS:CB	2.58	0.51
43:BI:145:VAL:CG1	43:BI:146:ALA:N	2.65	0.51
43:BI:84:GLY:O	43:BI:85:GLU:CB	2.58	0.51
48:BP:108:LYS:N	48:BP:108:LYS:HD2	2.26	0.51
50:BR:10:LEU:HD22	50:BR:17:ARG:CD	2.41	0.51
52:BT:27:THR:O	52:BT:28:VAL:CG2	2.51	0.51
52:BT:85:LYS:NZ	52:BT:85:LYS:CB	2.60	0.51
54:BV:5:VAL:HG21	54:BV:35:LEU:CB	2.41	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
55:BW:18:ARG:HG2	55:BW:76:VAL:HG12	1.91	0.51
57:BY:17:SER:CB	57:BY:71:LYS:HE2	2.33	0.51
1:CA:997:U:H2'	1:CA:998:G:H8	1.76	0.51
2:CB:167:PRO:HG3	2:CB:188:ALA:HB2	1.91	0.51
4:CD:33:MET:O	4:CD:35:ARG:N	2.41	0.51
4:CD:61:LYS:NZ	4:CD:62:GLN:HE21	2.07	0.51
8:CH:51:VAL:HG11	8:CH:60:ARG:CD	2.41	0.51
1:CA:963:G:H21	10:CJ:55:LYS:CD	2.23	0.51
10:CJ:92:THR:HG23	10:CJ:93:GLY:N	2.25	0.51
1:CA:130:A:C8	17:CQ:63:ARG:HG3	2.44	0.51
35:DA:1048:A:OP2	35:DA:1109:C:N4	2.43	0.51
35:DA:145:G:H2'	35:DA:146:G:C5'	2.30	0.51
35:DA:271(F):C:H2'	35:DA:271(G):C:C6	2.46	0.51
40:DF:167:ALA:HB1	40:DF:173:VAL:HG11	1.91	0.51
46:DN:120:LEU:HD11	46:DN:122:VAL:CG2	2.36	0.51
47:DO:69:ILE:HD13	47:DO:77:ILE:HG23	1.92	0.51
48:DP:80:TYR:CD1	48:DP:111:ARG:HB3	2.46	0.51
48:DP:88:LEU:N	48:DP:88:LEU:HD12	2.20	0.51
50:DR:92:GLY:N	50:DR:94:TYR:CE2	2.78	0.51
51:DS:106:ARG:CB	51:DS:106:ARG:HH11	2.23	0.51
53:DU:18:LEU:HD11	53:DU:32:PHE:CB	2.40	0.51
54:DV:5:VAL:HG21	54:DV:35:LEU:CB	2.39	0.51
57:DY:77:PRO:O	57:DY:78:ALA:HB2	2.10	0.51
1:AA:1082:G:O2'	1:AA:1083:U:H5'	2.11	0.51
1:AA:1302:U:C5	13:AM:17:VAL:HG21	2.45	0.51
1:AA:376:G:H2'	1:AA:377:G:H8	1.76	0.51
1:AA:857:C:H2'	1:AA:858:G:O4'	2.11	0.51
4:AD:31:CYS:C	4:AD:33:MET:N	2.64	0.51
13:AM:124:PRO:HB2	24:AY:163:GLY:C	2.30	0.51
10:AJ:49:VAL:HG21	14:AN:41:ARG:HB2	1.91	0.51
24:AY:85:GLU:O	24:AY:85:GLU:HG2	2.09	0.51
26:B1:82:LEU:HD13	26:B1:82:LEU:N	2.25	0.51
28:B3:17:LYS:HG2	35:BA:969:U:OP1	2.10	0.51
30:B5:56:LYS:O	30:B5:57:VAL:O	2.28	0.51
35:BA:146:G:H5'	35:BA:146:G:C8	2.44	0.51
35:BA:2693:A:H2'	35:BA:2694:G:H8	1.75	0.51
35:BA:2801(A):A:C4'	35:BA:2802:G:H5'	2.10	0.51
35:BA:272(J):C:N4	35:BA:363:G:H1	1.92	0.51
38:BD:28:GLU:H	38:BD:29:PRO:HD2	1.76	0.51
39:BE:181:LEU:HD21	52:BT:7:ILE:CG2	2.40	0.51
39:BE:101:ARG:HB2	39:BE:201:THR:CG2	2.39	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:BF:9:ILE:O	40:BF:128:ALA:HB2	2.11	0.51
41:BG:38:VAL:HG13	41:BG:92:VAL:O	2.11	0.51
41:BG:97:ASP:C	41:BG:99:MET:H	2.13	0.51
42:BH:19:VAL:CG1	42:BH:44:VAL:HG22	2.41	0.51
43:BI:5:LEU:HD13	43:BI:13:GLY:HA2	1.91	0.51
43:BI:84:GLY:O	43:BI:85:GLU:HB3	2.11	0.51
45:BK:100:THR:OG1	45:BK:103:GLN:HB2	2.11	0.51
45:BK:78:ILE:HD11	45:BK:127:ILE:HG23	1.93	0.51
48:BP:17:LYS:HG2	48:BP:17:LYS:O	2.10	0.51
51:BS:97:ARG:C	51:BS:97:ARG:NE	2.64	0.51
55:BW:10:VAL:O	55:BW:11:ARG:CB	2.57	0.51
58:BZ:166:SER:CB	58:BZ:168:GLU:H	2.20	0.51
1:CA:1318:A:H4'	19:CS:10:PHE:HB2	1.92	0.51
1:CA:559:A:H4'	1:CA:560:U:H5''	1.92	0.51
1:CA:60:A:P	1:CA:60:A:H8	2.34	0.51
7:CG:69:VAL:HG21	7:CG:104:LEU:HD21	1.93	0.51
22:CV:40:C:H2'	22:CV:41:C:C6	2.45	0.51
22:CW:16:U:C3'	22:CW:17:C:H5'	2.25	0.51
33:D8:33:ASN:N	33:D8:33:ASN:ND2	2.48	0.51
35:DA:1241:A:O2'	35:DA:1242:A:H5'	2.11	0.51
35:DA:1887:C:C3'	35:DA:1888:G:H5''	2.40	0.51
35:DA:275:G:N3	35:DA:275:G:H2'	2.25	0.51
28:D3:46:ASN:ND2	35:DA:850:C:O2'	2.42	0.51
35:DA:996:A:H4'	53:DU:92:ARG:HE	1.71	0.51
38:DD:238:GLY:O	38:DD:239:ARG:O	2.28	0.51
39:DE:117:MET:HA	39:DE:122:PHE:H	1.74	0.51
35:DA:2445:G:OP1	40:DF:74:ARG:NH2	2.43	0.51
45:DK:100:THR:OG1	45:DK:103:GLN:HB2	2.09	0.51
45:DK:12:LEU:HB3	45:DK:13:PRO:HD2	1.91	0.51
46:DN:45:ASN:HD22	46:DN:45:ASN:H	1.59	0.51
46:DN:93:THR:O	46:DN:94:HIS:HB2	2.11	0.51
48:DP:113:LYS:O	48:DP:115:LEU:HD22	2.10	0.51
51:DS:97:ARG:NH1	51:DS:97:ARG:HG2	2.26	0.51
57:DY:62:GLU:CG	57:DY:63:LYS:N	2.74	0.51
57:DY:7:VAL:CG2	57:DY:8:LYS:NZ	2.74	0.51
58:DZ:151:HIS:O	58:DZ:152:ALA:HB3	2.10	0.51
1:AA:245:C:O2	1:AA:283:C:N3	2.44	0.51
2:AB:163:PHE:HA	2:AB:185:ILE:O	2.11	0.51
2:AB:16:HIS:HB3	2:AB:210:SER:CA	2.40	0.51
11:AK:125:PHE:N	11:AK:125:PHE:HD1	2.08	0.51
12:AL:119:LYS:HB2	12:AL:120:TYR:HD1	1.74	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:AL:18:VAL:O	12:AL:19:ARG:HB3	2.11	0.51
12:AL:41:ARG:HD3	12:AL:42:THR:C	2.31	0.51
13:AM:94:ARG:CZ	19:AS:81:ARG:HG3	2.41	0.51
24:AY:120:ILE:N	24:AY:120:ILE:HD12	2.26	0.51
24:AY:26:LEU:HD12	24:AY:26:LEU:C	2.31	0.51
27:B2:50:ILE:O	27:B2:54:LYS:HB2	2.11	0.51
30:B5:2:ALA:O	30:B5:3:LYS:HD2	2.11	0.51
35:BA:1434:A:H61	35:BA:1558:A:N6	2.04	0.51
35:BA:1679:U:C2'	35:BA:1680:U:H5'	2.40	0.51
35:BA:528:A:C2	35:BA:2043:C:C5'	2.93	0.51
35:BA:230:U:O2'	35:BA:231:C:H5'	2.11	0.51
35:BA:346:A:H2'	35:BA:347:A:H5'	1.92	0.51
35:BA:363(E):U:H3'	35:BA:363(F):A:O4'	2.11	0.51
39:BE:34:VAL:O	39:BE:34:VAL:HG22	2.11	0.51
39:BE:59:VAL:HG21	39:BE:63:LEU:HG	1.92	0.51
40:BF:11:VAL:O	40:BF:12:LEU:C	2.49	0.51
40:BF:132:VAL:O	40:BF:133:ASN:C	2.48	0.51
41:BG:104:GLU:C	41:BG:106:LEU:H	2.13	0.51
41:BG:72:ARG:CB	41:BG:87:PRO:HD2	2.34	0.51
35:BA:1654:A:P	50:BR:3:HIS:HB2	2.50	0.51
55:BW:5:ALA:O	55:BW:6:ILE:HB	2.10	0.51
57:BY:32:PRO:C	57:BY:34:LYS:N	2.60	0.51
1:CA:1081:G:O2'	1:CA:1082:G:H5'	2.10	0.51
1:CA:1127:G:O2'	1:CA:1128:C:H5'	2.11	0.51
1:CA:1372:U:H2'	1:CA:1373:G:O4'	2.10	0.51
1:CA:826:C:H2'	1:CA:827:U:C6	2.45	0.51
2:CB:139:LYS:O	2:CB:143:GLU:HG3	2.10	0.51
5:CE:140:ARG:HG2	5:CE:140:ARG:O	2.11	0.51
5:CE:20:GLN:O	5:CE:23:GLY:O	2.29	0.51
5:CE:91:LEU:N	5:CE:91:LEU:HD22	2.25	0.51
6:CF:8:ILE:CG2	6:CF:9:VAL:N	2.73	0.51
11:CK:79:SER:OG	11:CK:106:LYS:HE3	2.11	0.51
13:CM:14:ARG:NH2	13:CM:16:ASP:OD1	2.44	0.51
15:CO:3:ILE:HG13	15:CO:3:ILE:O	2.10	0.51
11:CK:111:ASP:HA	18:CR:84:LYS:CD	2.41	0.51
22:CV:50:U:O2'	22:CV:51:U:H5'	2.11	0.51
22:CW:6:G:H21	22:CW:7:A:H62	1.58	0.51
35:DA:1316:U:H2'	35:DA:1317:A:C8	2.46	0.51
35:DA:1689:A:N7	35:DA:1698:A:N1	2.59	0.51
22:CW:56:C:C4	35:DA:2169:A:C2	2.99	0.51
35:DA:2461:C:H2'	35:DA:2462:U:C6	2.45	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:389:G:N1	48:DP:71:VAL:HG12	2.26	0.51
37:DC:208:THR:HB	37:DC:211:ARG:HG3	1.93	0.51
42:DH:43:VAL:CA	42:DH:46:GLU:OE2	2.59	0.51
43:DI:133:HIS:CD2	43:DI:134:PRO:HD2	2.46	0.51
43:DI:6:LEU:HD12	43:DI:35:LEU:O	2.10	0.51
45:DK:18:THR:HB	45:DK:19:PRO:HD3	1.92	0.51
46:DN:108:PRO:O	46:DN:113:GLY:HA3	2.11	0.51
46:DN:90:MET:O	46:DN:93:THR:O	2.29	0.51
47:DO:104:ARG:HE	52:DT:33:LYS:CE	2.19	0.51
48:DP:50:ARG:HG3	48:DP:51:PHE:H	1.73	0.51
48:DP:56:SER:O	48:DP:58:THR:N	2.44	0.51
49:DQ:134:ARG:HA	49:DQ:137:TYR:CD1	2.45	0.51
51:DS:59:LYS:HG2	51:DS:60:GLY:N	2.22	0.51
54:DV:5:VAL:HG23	54:DV:37:VAL:O	2.10	0.51
54:DV:39:LEU:HA	54:DV:47:VAL:CG1	2.40	0.51
54:DV:40:LEU:HD13	54:DV:41:GLY:N	2.26	0.51
54:DV:59:ALA:HB2	54:DV:96:ILE:HD13	1.93	0.51
57:DY:28:LYS:NZ	57:DY:72:VAL:HG21	2.25	0.51
57:DY:8:LYS:HD3	57:DY:28:LYS:HZ1	1.74	0.51
1:AA:1104:G:H2'	1:AA:1105:A:H8	1.76	0.51
1:AA:125:U:H2'	1:AA:126:G:C8	2.46	0.51
1:AA:1315:U:H2'	1:AA:1316:G:O4'	2.10	0.51
1:AA:1305:G:C2	1:AA:1331:G:N3	2.78	0.51
2:AB:130:ARG:HB3	2:AB:134:GLU:HG3	1.91	0.51
3:AC:37:GLN:NE2	14:AN:52:GLN:OE1	2.43	0.51
4:AD:176:LEU:CG	4:AD:177:ASP:N	2.72	0.51
18:AR:30:ASP:OD1	18:AR:32:ARG:HB2	2.10	0.51
22:AW:38:A:H3'	22:AW:39:U:C5'	2.38	0.51
26:B1:57:GLU:O	26:B1:58:ILE:O	2.28	0.51
35:BA:1230:C:H2'	35:BA:1231:G:C8	2.46	0.51
35:BA:1722:A:C2	35:BA:1740:G:C8	2.99	0.51
35:BA:1963:U:C2'	35:BA:1963:U:O2	2.59	0.51
38:BD:131:LEU:CD1	38:BD:136:ILE:HG12	2.36	0.51
38:BD:144:ALA:HB3	38:BD:192:THR:CG2	2.41	0.51
39:BE:176:ILE:HB	39:BE:181:LEU:HB2	1.93	0.51
42:BH:19:VAL:HG11	42:BH:44:VAL:HG22	1.92	0.51
42:BH:41:MET:CG	42:BH:42:ARG:N	2.50	0.51
42:BH:85:LYS:HG3	42:BH:145:ALA:HB2	1.93	0.51
46:BN:1:MET:CG	46:BN:2:LYS:N	2.74	0.51
48:BP:125:VAL:O	48:BP:145:PRO:HD2	2.11	0.51
52:BT:89:VAL:C	52:BT:91:ARG:N	2.64	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
55:BW:83:LYS:HD3	55:BW:95:ILE:HD12	1.93	0.51
57:BY:8:LYS:HB2	57:BY:28:LYS:HZ1	1.76	0.51
1:CA:1205:U:C1'	3:CC:195:VAL:HG21	2.41	0.51
1:CA:1399:C:H4'	1:CA:1400:C:O5'	2.11	0.51
1:CA:1499:A:H1'	1:CA:1520:G:H5''	1.91	0.51
1:CA:1502:A:H2	1:CA:1505:G:N1	2.02	0.51
1:CA:151:A:H2'	1:CA:152:A:H5'	1.93	0.51
1:CA:423:G:C2'	1:CA:424:G:H5'	2.41	0.51
1:CA:735:C:O2'	1:CA:736:C:H5'	2.11	0.51
4:CD:52:SER:O	4:CD:53:ASP:C	2.49	0.51
10:CJ:13:HIS:CE1	10:CJ:14:LYS:HG3	2.45	0.51
14:CN:9:LYS:HG3	14:CN:12:ARG:NH2	2.26	0.51
19:CS:31:ILE:O	19:CS:31:ILE:HG23	2.11	0.51
24:CY:270:LYS:HD3	25:D0:5:LYS:HD3	1.92	0.51
24:CY:227:LEU:HD11	24:CY:276:LEU:HD21	1.91	0.51
31:D6:13:CYS:O	31:D6:21:TYR:HA	2.10	0.51
35:DA:1090:U:H2'	35:DA:1091:G:H8	1.75	0.51
35:DA:1025:G:C4	35:DA:1135:C:H1'	2.45	0.51
35:DA:1547:C:O2'	35:DA:1548:C:H5'	2.11	0.51
35:DA:2659:G:C2	35:DA:2661:G:H8	2.28	0.51
35:DA:2698:U:H2'	35:DA:2699:C:C6	2.46	0.51
35:DA:654(A):G:H2'	35:DA:654(B):C:C5'	2.39	0.51
35:DA:908:C:O2'	35:DA:909:A:H5'	2.11	0.51
38:DD:35:LYS:NZ	38:DD:35:LYS:HB3	2.25	0.51
40:DF:4:VAL:HA	40:DF:19:GLU:CB	2.40	0.51
41:DG:149:VAL:HG23	41:DG:150:ASP:N	2.26	0.51
41:DG:59:GLU:O	41:DG:62:LEU:HB3	2.10	0.51
41:DG:63:ILE:HG13	41:DG:63:ILE:O	2.10	0.51
42:DH:85:LYS:HG3	42:DH:145:ALA:HB2	1.91	0.51
46:DN:133:GLN:C	46:DN:134:ARG:HG2	2.31	0.51
30:D5:55:ARG:HG2	50:DR:33:ARG:HD3	1.92	0.51
57:DY:31:LEU:HB2	57:DY:32:PRO:HA	1.91	0.51
1:AA:1002:G:H2'	1:AA:1003:G:H5'	1.92	0.51
1:AA:1226:C:OP1	13:AM:91:ARG:NH1	2.43	0.51
1:AA:1279:A:N3	1:AA:1279:A:H2'	2.26	0.51
1:AA:340:U:H2'	1:AA:341:C:C6	2.45	0.51
1:AA:56:U:H2'	1:AA:57:G:C8	2.46	0.51
1:AA:922:G:H2'	1:AA:923:A:C8	2.45	0.51
7:AG:148:ASN:C	7:AG:150:ALA:N	2.62	0.51
9:AI:122:ALA:HB1	9:AI:123:PRO:HD2	1.92	0.51
17:AQ:90:ILE:HG23	17:AQ:93:GLN:NE2	2.26	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:AV:31:A:H2'	22:AV:32:U:C6	2.46	0.51
24:AY:170:LEU:HD12	24:AY:171:VAL:N	2.26	0.51
24:AY:36:PRO:HA	24:AY:39:TRP:HD1	1.76	0.51
27:B2:50:ILE:C	27:B2:52:ASP:N	2.63	0.51
31:B6:28:ARG:CA	31:B6:32:ASN:HD22	2.14	0.51
35:BA:1061:U:H4'	35:BA:1070:A:O3'	2.11	0.51
35:BA:1495:A:N3	35:BA:1496:A:C2	2.79	0.51
35:BA:156:U:H5''	35:BA:158:U:C5	2.46	0.51
33:B8:32:LEU:HD21	35:BA:2392:A:OP1	2.11	0.51
35:BA:2591:C:H2'	35:BA:2592:G:C8	2.46	0.51
35:BA:2645:G:C3'	35:BA:2646:C:H5'	2.33	0.51
35:BA:445:C:O2'	35:BA:446:G:H5'	2.11	0.51
35:BA:654(A):G:H2'	35:BA:654(B):C:C5'	2.40	0.51
38:BD:198:ASN:ND2	38:BD:198:ASN:O	2.43	0.51
40:BF:65:TRP:CZ3	40:BF:73:ALA:O	2.64	0.51
41:BG:16:ARG:HH11	41:BG:16:ARG:HG3	1.76	0.51
35:BA:1046:A:C2	44:BJ:8:UNK:N	2.79	0.51
48:BP:101:VAL:HG12	48:BP:107:LYS:N	2.25	0.51
35:BA:870:A:P	49:BQ:6:ARG:HH21	2.33	0.51
58:BZ:104:PHE:CD1	58:BZ:139:VAL:HB	2.45	0.51
1:CA:1305:G:C2	1:CA:1331:G:N3	2.79	0.51
1:CA:1427:U:H2'	1:CA:1428:A:C8	2.46	0.51
3:CC:34:LEU:HD23	3:CC:34:LEU:C	2.31	0.51
5:CE:31:LEU:HD21	5:CE:43:LEU:HD11	1.91	0.51
9:CI:65:VAL:HB	9:CI:77:ILE:HD11	1.93	0.51
11:CK:78:GLN:O	11:CK:103:LEU:HD13	2.11	0.51
11:CK:79:SER:HB2	11:CK:106:LYS:HE3	1.93	0.51
13:CM:65:LYS:O	13:CM:66:LEU:N	2.43	0.51
16:CP:49:LEU:O	16:CP:50:LYS:HB2	2.11	0.51
17:CQ:65:ILE:O	17:CQ:66:SER:HB3	2.10	0.51
24:CY:149:PHE:HZ	24:CY:179:LEU:HD22	1.76	0.51
25:D0:48:GLY:HA3	25:D0:80:HIS:ND1	2.25	0.51
30:D5:51:TYR:CD2	30:D5:52:TYR:OH	2.63	0.51
31:D6:19:ARG:HG2	31:D6:19:ARG:NH1	2.24	0.51
33:D8:3:LYS:HE2	35:DA:242:G:O5'	2.11	0.51
35:DA:1239:G:H2'	35:DA:1240:U:O4'	2.11	0.51
35:DA:1434:A:H61	35:DA:1558:A:N6	2.04	0.51
35:DA:2681:C:H5	35:DA:2725:A:N6	2.00	0.51
35:DA:2807:G:C3'	35:DA:2808:U:H5''	2.40	0.51
39:DE:51:PHE:HD1	39:DE:52:LEU:H	1.58	0.51
40:DF:11:VAL:O	40:DF:12:LEU:C	2.49	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:DF:7:TYR:O	40:DF:8:GLN:HB2	2.11	0.51
41:DG:118:ARG:HB2	41:DG:181:ARG:CD	2.41	0.51
35:DA:1063:G:C4'	45:DK:134:MET:HG2	2.33	0.51
48:DP:147:LEU:O	48:DP:149:GLU:HG2	2.11	0.51
52:DT:29:ARG:NE	52:DT:86:ILE:HG22	2.25	0.51
54:DV:23:GLU:O	54:DV:24:LYS:C	2.49	0.51
57:DY:81:LYS:HD3	57:DY:97:ARG:CG	2.36	0.51
58:DZ:141:VAL:O	58:DZ:142:SER:C	2.50	0.51
1:AA:936:C:H2'	1:AA:937:A:H8	1.75	0.51
1:AA:959:A:H2'	1:AA:960:U:H4'	1.93	0.51
2:AB:167:PRO:HG2	2:AB:192:SER:OG	2.10	0.51
19:AS:62:ILE:HD12	19:AS:66:MET:CE	2.41	0.51
24:AY:130:CYS:O	24:AY:164:ILE:HG22	2.11	0.51
24:AY:33:LEU:HD21	24:AY:52:ALA:HB2	1.93	0.51
30:B5:55:ARG:HE	50:BR:33:ARG:NH1	2.09	0.51
33:B8:54:GLU:O	33:B8:58:ILE:HG12	2.11	0.51
34:B9:15:LYS:HE2	34:B9:17:ILE:HD11	1.91	0.51
35:BA:1221:C:H5'	35:BA:1221:C:H6	1.76	0.51
35:BA:1887:C:C3'	35:BA:1888:G:H5''	2.40	0.51
35:BA:2261:C:O2'	35:BA:2262:U:H5'	2.11	0.51
35:BA:2761:G:H2'	35:BA:2762:G:H5''	1.93	0.51
40:BF:2:LYS:HD3	40:BF:25:PRO:HG2	1.93	0.51
41:BG:19:LEU:HD21	41:BG:171:ALA:HB3	1.92	0.51
41:BG:4:ASP:HA	41:BG:8:LYS:CD	2.40	0.51
42:BH:68:THR:O	42:BH:72:ILE:HG12	2.10	0.51
45:BK:84:LEU:CD2	45:BK:84:LEU:H	2.24	0.51
47:BO:87:ILE:HG22	47:BO:88:ASN:N	2.25	0.51
40:BF:34:TRP:CH2	48:BP:12:ALA:HB2	2.46	0.51
48:BP:7:ARG:HB2	48:BP:8:PRO:HD3	1.92	0.51
49:BQ:21:THR:CG2	49:BQ:101:ARG:HB2	2.41	0.51
50:BR:98:LEU:O	50:BR:113:LEU:HD23	2.11	0.51
50:BR:99:LYS:CB	50:BR:99:LYS:NZ	2.67	0.51
51:BS:59:LYS:CG	51:BS:60:GLY:H	2.21	0.51
51:BS:97:ARG:HG2	51:BS:97:ARG:HH11	1.75	0.51
53:BU:92:ARG:NH1	54:BV:11:GLN:O	2.44	0.51
54:BV:99:ILE:N	54:BV:99:ILE:HD13	2.25	0.51
58:BZ:149:SER:HB3	58:BZ:173:ALA:HA	1.93	0.51
1:CA:425:G:O2'	1:CA:426:G:H5'	2.11	0.51
1:CA:514:C:O2'	1:CA:515:G:H5'	2.11	0.51
1:CA:681:C:O2'	1:CA:682:G:H5'	2.11	0.51
2:CB:61:LEU:HA	2:CB:64:ARG:HD2	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:1329:A:P	13:CM:28:ALA:HB3	2.51	0.51
13:CM:65:LYS:HB2	13:CM:69:GLU:O	2.09	0.51
16:CP:7:ALA:O	16:CP:17:TYR:HA	2.11	0.51
24:CY:72:LEU:HB2	24:CY:91:LEU:HG	1.93	0.51
25:D0:23:VAL:HG21	35:DA:857:C:H4'	1.93	0.51
35:DA:1155:A:OP1	53:DU:55:ARG:HD2	2.11	0.51
35:DA:1331:A:O2'	35:DA:1332:G:C8	2.64	0.51
35:DA:1385:G:O2'	35:DA:1396:U:C6	2.59	0.51
35:DA:146:G:H5'	35:DA:146:G:C8	2.43	0.51
33:D8:32:LEU:HD21	35:DA:2392:A:OP1	2.10	0.51
35:DA:2648:C:O2'	35:DA:2649:U:H5'	2.11	0.51
35:DA:2849:U:OP2	52:DT:95:ARG:NH1	2.44	0.51
35:DA:705:A:C2	35:DA:727:A:H1'	2.46	0.51
39:DE:16:ARG:O	39:DE:17:ASP:HB3	2.11	0.51
41:DG:103:LEU:HD23	41:DG:106:LEU:HD23	1.92	0.51
45:DK:78:ILE:HD11	45:DK:127:ILE:HG23	1.92	0.51
45:DK:98:ARG:HH21	45:DK:139:VAL:HG22	1.75	0.51
52:DT:32:TYR:CE2	52:DT:81:PRO:HB2	2.44	0.51
53:DU:108:GLU:O	53:DU:112:ARG:HG2	2.11	0.51
54:DV:82:ARG:HH11	54:DV:82:ARG:HG2	1.76	0.51
55:DW:95:ILE:O	55:DW:95:ILE:HG13	2.11	0.51
58:DZ:5:LEU:CD2	58:DZ:39:VAL:HG21	2.30	0.51
58:DZ:9:TYR:CE2	58:DZ:35:ARG:NH1	2.79	0.51
1:AA:179:A:H2'	1:AA:180:U:H6	1.76	0.51
1:AA:407:G:H1'	4:AD:119:GLN:OE1	2.11	0.51
1:AA:832:C:O2'	1:AA:833:U:H6	1.94	0.51
8:AH:110:ALA:O	8:AH:112:LEU:HD22	2.11	0.51
10:AJ:6:ILE:CG2	10:AJ:98:ILE:HG23	2.41	0.51
11:AK:31:THR:OG1	11:AK:42:TRP:HB3	2.12	0.51
20:AT:42:GLN:HE21	20:AT:42:GLN:HA	1.76	0.51
22:AV:25:C:H2'	22:AV:26:A:H8	1.75	0.51
22:AW:53:G:O2'	22:AW:54:U:H5'	2.09	0.51
22:AW:50:U:H4'	22:AW:65:G:N2	2.25	0.51
24:AY:130:CYS:HB3	24:AY:164:ILE:H	1.75	0.51
35:BA:1467:C:O2'	35:BA:1468:C:H5'	2.11	0.51
35:BA:1465:G:H5'	35:BA:1528:A:H1'	1.93	0.51
35:BA:1542:A:C3'	35:BA:1542:A:C8	2.94	0.51
35:BA:2243:U:H2'	35:BA:2244:U:C6	2.46	0.51
35:BA:2272:U:H5''	35:BA:2273:A:OP1	2.11	0.51
35:BA:2855:C:O2'	35:BA:2856:C:H5'	2.11	0.51
35:BA:363:G:H2'	35:BA:363(A):A:H8	1.76	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:B0:23:VAL:HG21	35:BA:857:C:H4'	1.93	0.51
35:BA:877:U:O2'	35:BA:878:A:H5''	2.10	0.51
39:BE:23:VAL:HA	39:BE:186:GLY:H	1.75	0.51
40:BF:132:VAL:HG22	40:BF:133:ASN:HD22	1.76	0.51
42:BH:47:GLU:C	42:BH:49:VAL:H	2.14	0.51
48:BP:16:ARG:HD3	48:BP:18:ARG:N	2.24	0.51
35:BA:1654:A:P	50:BR:3:HIS:CB	2.99	0.51
53:BU:101:ARG:O	53:BU:102:GLU:HG2	2.10	0.51
57:BY:62:GLU:CG	57:BY:63:LYS:N	2.74	0.51
58:BZ:5:LEU:HD21	58:BZ:39:VAL:HG21	1.92	0.51
1:CA:105:G:H2'	1:CA:106:C:C6	2.46	0.51
1:CA:1072:G:H2'	1:CA:1073:U:C6	2.46	0.51
1:CA:1149:C:H2'	1:CA:1150:U:H6	1.75	0.51
1:CA:1250:A:H2	1:CA:1370:G:H1'	1.76	0.51
1:CA:479:C:H2'	1:CA:480:U:C6	2.46	0.51
1:CA:56:U:H2'	1:CA:57:G:C8	2.46	0.51
2:CB:182:ILE:HG22	2:CB:183:PRO:O	2.11	0.51
3:CC:70:VAL:HG12	3:CC:71:ALA:N	2.26	0.51
4:CD:61:LYS:HD2	4:CD:207:TYR:OH	2.11	0.51
9:CI:126:SER:O	9:CI:127:LYS:HB3	2.11	0.51
1:CA:1151:A:H5''	10:CJ:42:THR:H	1.76	0.51
13:CM:125:ARG:HA	24:CY:159:GLY:CA	2.41	0.51
1:CA:976:G:P	14:CN:32:SER:H	2.35	0.51
16:CP:17:TYR:H	16:CP:17:TYR:HD1	1.59	0.51
18:CR:50:ILE:HD12	18:CR:70:ILE:HG21	1.92	0.51
24:CY:315:VAL:HG11	24:CY:320:TYR:CZ	2.46	0.51
33:D8:33:ASN:N	33:D8:36:LYS:HD2	2.25	0.51
33:D8:55:ALA:O	33:D8:59:LYS:HE2	2.11	0.51
35:DA:136:G:O2'	35:DA:137:C:H5'	2.11	0.51
35:DA:272(J):C:H5'	35:DA:274:G:OP2	2.10	0.51
35:DA:363(E):U:H3'	35:DA:363(F):A:O4'	2.11	0.51
24:CY:34:GLU:N	45:DK:25:PRO:HB2	2.26	0.51
35:DA:1063:G:H5''	45:DK:75:SER:HB3	1.91	0.51
48:DP:101:VAL:HG23	48:DP:102:ARG:N	2.25	0.51
48:DP:7:ARG:HB2	48:DP:8:PRO:HD3	1.92	0.51
51:DS:19:LYS:O	51:DS:20:ARG:NH2	2.44	0.51
52:DT:6:LEU:HD23	52:DT:6:LEU:C	2.31	0.51
46:DN:2:LYS:HZ1	54:DV:12:TYR:HA	1.76	0.51
57:DY:7:VAL:HB	57:DY:8:LYS:NZ	2.26	0.51
1:AA:1096:C:O2'	1:AA:1097:C:H5'	2.11	0.50
1:AA:1211:U:H5'	1:AA:1212:U:OP1	2.10	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1246:C:H2'	1:AA:1247:U:H6	1.76	0.50
1:AA:939:G:H2'	1:AA:940:C:C6	2.46	0.50
1:AA:972:C:O2'	10:AJ:55:LYS:HG2	2.11	0.50
1:AA:1190:G:OP1	3:AC:5:ILE:HG23	2.12	0.50
3:AC:91:LEU:C	3:AC:93:LYS:H	2.15	0.50
6:AF:76:ALA:HB1	6:AF:80:ARG:NH2	2.26	0.50
7:AG:120:ILE:HG22	7:AG:124:LEU:HD12	1.93	0.50
1:AA:599:C:H4'	8:AH:130:GLY:HA3	1.93	0.50
9:AI:83:ARG:HA	9:AI:86:VAL:HG12	1.91	0.50
15:AO:48:LYS:HE2	15:AO:48:LYS:CA	2.41	0.50
1:AA:130:A:C8	17:AQ:63:ARG:HG3	2.46	0.50
24:AY:72:LEU:HD13	24:AY:91:LEU:HG	1.92	0.50
26:B1:25:LYS:C	26:B1:27:GLU:H	2.13	0.50
39:BE:6:GLY:HA2	39:BE:51:PHE:CZ	2.46	0.50
40:BF:11:VAL:HG12	40:BF:12:LEU:N	2.26	0.50
41:BG:138:GLN:OE1	41:BG:152:LEU:HA	2.11	0.50
41:BG:164:GLU:OE1	41:BG:164:GLU:N	2.45	0.50
43:BI:59:ALA:HA	43:BI:63:ALA:CB	2.41	0.50
45:BK:105:LEU:N	45:BK:105:LEU:HD12	2.25	0.50
54:BV:13:ARG:HG3	54:BV:13:ARG:HH11	1.76	0.50
56:BX:65:ARG:HH11	56:BX:65:ARG:HG2	1.76	0.50
57:BY:101:LYS:CG	57:BY:102:CYS:N	2.74	0.50
1:CA:311:C:HO2'	1:CA:312:C:H5'	1.75	0.50
1:CA:423:G:H2'	1:CA:424:G:H5'	1.93	0.50
2:CB:236:TYR:HA	2:CB:239:VAL:HG21	1.93	0.50
2:CB:97:TRP:CZ2	2:CB:173:ALA:HA	2.45	0.50
7:CG:101:LEU:O	7:CG:105:VAL:HG23	2.12	0.50
7:CG:135:VAL:HG12	7:CG:139:GLU:OE2	2.10	0.50
7:CG:148:ASN:O	7:CG:150:ALA:N	2.44	0.50
10:CJ:4:ILE:HD13	10:CJ:74:ILE:CD1	2.41	0.50
11:CK:31:THR:OG1	11:CK:42:TRP:HB3	2.12	0.50
13:CM:89:GLY:O	13:CM:92:HIS:HB2	2.12	0.50
15:CO:81:LEU:HD11	15:CO:85:LEU:HD12	1.92	0.50
16:CP:67:THR:HB	16:CP:70:ALA:HB3	1.92	0.50
22:CW:19:G:C8	22:CW:20:U:H5	2.25	0.50
35:DA:1024:G:C3'	35:DA:1025:G:H5''	2.37	0.50
35:DA:1100:C:O2'	35:DA:1101:U:H5'	2.10	0.50
35:DA:1763:G:OP1	35:DA:1763:G:H4'	2.11	0.50
35:DA:492:A:C2	35:DA:493:G:H1'	2.46	0.50
35:DA:539:G:H2'	35:DA:540:C:C6	2.46	0.50
35:DA:832:G:O2'	48:DP:52:GLU:HB3	2.11	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:877:U:O2'	35:DA:878:A:H5''	2.10	0.50
38:DD:131:LEU:N	38:DD:131:LEU:HD12	2.26	0.50
38:DD:93:ALA:HB2	38:DD:107:ALA:HB2	1.93	0.50
39:DE:185:LYS:O	39:DE:186:GLY:O	2.30	0.50
40:DF:11:VAL:HG12	40:DF:12:LEU:H	1.77	0.50
41:DG:52:ILE:O	41:DG:53:LEU:HB2	2.10	0.50
42:DH:83:TYR:CD2	42:DH:83:TYR:N	2.77	0.50
43:DI:77:LEU:HD21	43:DI:100:ALA:O	2.11	0.50
48:DP:29:LYS:N	48:DP:29:LYS:HD2	2.26	0.50
54:DV:34:GLU:O	54:DV:36:PRO:HD3	2.11	0.50
55:DW:12:ILE:HB	55:DW:42:ARG:NH1	2.26	0.50
55:DW:62:HIS:O	55:DW:63:ASP:C	2.49	0.50
4:AD:129:ASN:HD21	4:AD:145:GLU:H	1.57	0.50
10:AJ:49:VAL:HG22	10:AJ:50:ILE:N	2.24	0.50
15:AO:70:LEU:O	15:AO:70:LEU:HD12	2.11	0.50
27:B2:10:LEU:O	27:B2:13:ALA:N	2.44	0.50
27:B2:31:GLU:O	27:B2:34:GLU:HB3	2.11	0.50
35:BA:2884:U:H2'	35:BA:2885:C:C5'	2.41	0.50
35:BA:614:U:O4'	35:BA:614:U:O2	2.27	0.50
25:B0:74:ARG:HH22	36:BB:13:A:H8	1.58	0.50
37:BC:194:ILE:O	37:BC:198:GLU:HG3	2.11	0.50
40:BF:16:GLY:O	40:BF:17:ARG:HG3	2.11	0.50
40:BF:153:SER:HB2	40:BF:189:THR:HG22	1.92	0.50
41:BG:59:GLU:HA	41:BG:62:LEU:HD13	1.92	0.50
46:BN:9:VAL:HG21	46:BN:48:MET:CB	2.40	0.50
51:BS:28:VAL:O	51:BS:89:ARG:HD2	2.11	0.50
52:BT:38:ASN:C	52:BT:38:ASN:HD22	2.13	0.50
52:BT:6:LEU:HD23	52:BT:6:LEU:C	2.31	0.50
53:BU:106:PHE:O	53:BU:110:VAL:HG23	2.11	0.50
53:BU:74:LEU:HD12	53:BU:74:LEU:N	2.25	0.50
54:BV:18:LEU:HD22	54:BV:19:LYS:CA	2.41	0.50
57:BY:7:VAL:CB	57:BY:8:LYS:HD2	2.35	0.50
1:CA:1036:G:H3'	1:CA:1037:C:C6	2.46	0.50
1:CA:1352:C:H2'	1:CA:1353:G:H8	1.74	0.50
1:CA:376:G:OP2	16:CP:67:THR:HG21	2.11	0.50
1:CA:475:G:O2'	1:CA:476:G:H5'	2.12	0.50
4:CD:19:LEU:HD12	4:CD:19:LEU:N	2.26	0.50
5:CE:76:ILE:CG1	5:CE:77:PRO:HD2	2.41	0.50
6:CF:42:GLU:HG2	6:CF:42:GLU:O	2.11	0.50
9:CI:18:PHE:HD1	9:CI:62:TYR:HD2	1.58	0.50
10:CJ:8:LEU:O	10:CJ:16:LEU:HD21	2.10	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:972:C:O2'	10:CJ:55:LYS:HG2	2.11	0.50
17:CQ:24:GLU:HG2	17:CQ:39:SER:HB3	1.93	0.50
19:CS:58:VAL:HG21	19:CS:75:ALA:HB2	1.93	0.50
24:CY:270:LYS:CE	25:D0:5:LYS:HD3	2.40	0.50
35:DA:1493:C:H4'	35:DA:1494:A:OP1	2.11	0.50
35:DA:1602:U:H3'	35:DA:1603:A:H5''	1.93	0.50
31:D6:39:TYR:HE1	35:DA:2347:C:HO2'	1.57	0.50
33:D8:30:ARG:NH1	35:DA:2419:U:O4	2.43	0.50
35:DA:2562:U:H2'	35:DA:2563:U:H5'	1.94	0.50
37:DC:197:LEU:C	37:DC:199:ALA:H	2.14	0.50
38:DD:35:LYS:N	38:DD:36:PRO:CD	2.74	0.50
39:DE:179:GLU:HB3	39:DE:181:LEU:HD22	1.92	0.50
47:DO:77:ILE:HD13	52:DT:74:ARG:CD	2.39	0.50
50:DR:107:ASP:C	50:DR:107:ASP:OD2	2.48	0.50
51:DS:20:ARG:HE	51:DS:20:ARG:HA	1.75	0.50
52:DT:134:GLU:O	52:DT:135:ALA:HB3	2.11	0.50
54:DV:46:VAL:HG12	54:DV:47:VAL:H	1.74	0.50
1:AA:1060:C:C4	3:AC:2:GLY:HA3	2.47	0.50
1:AA:1086:U:O2'	1:AA:1087:G:H5'	2.11	0.50
1:AA:423:G:H2'	1:AA:424:G:H5'	1.92	0.50
2:AB:209:ARG:HH11	2:AB:239:VAL:CG1	2.23	0.50
3:AC:188:LEU:HD22	3:AC:188:LEU:N	2.26	0.50
9:AI:112:LYS:O	9:AI:112:LYS:HD3	2.11	0.50
9:AI:18:PHE:HD1	9:AI:62:TYR:HD2	1.58	0.50
10:AJ:100:THR:HG22	10:AJ:100:THR:O	2.11	0.50
10:AJ:8:LEU:HB3	10:AJ:16:LEU:HD21	1.92	0.50
10:AJ:40:LEU:N	10:AJ:69:ASN:O	2.44	0.50
13:AM:65:LYS:O	13:AM:66:LEU:N	2.45	0.50
15:AO:3:ILE:O	15:AO:3:ILE:HG13	2.11	0.50
15:AO:67:LEU:HD11	15:AO:87:ILE:HD12	1.92	0.50
20:AT:51:GLU:HA	20:AT:54:LYS:NZ	2.26	0.50
22:AV:76:8AN:C5'	24:AY:239:GLY:HA3	2.41	0.50
24:AY:219:GLU:C	24:AY:219:GLU:CD	2.70	0.50
24:AY:8:GLN:HE22	24:AY:95:ALA:HB1	1.74	0.50
32:B7:22:MET:O	32:B7:28:ARG:NH1	2.45	0.50
35:BA:2063:C:O2	35:BA:2450:A:N1	2.44	0.50
33:B8:30:ARG:NH1	35:BA:2419:U:O4	2.44	0.50
35:BA:2476:A:C2	35:BA:2477:C:C6	2.99	0.50
39:BE:119:ARG:HD2	39:BE:120:TRP:NE1	2.26	0.50
39:BE:1:MET:HB3	39:BE:200:GLU:OE1	2.12	0.50
41:BG:39:ILE:CD1	41:BG:60:LEU:HD21	2.42	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:BH:85:LYS:NZ	42:BH:87:LEU:HG	2.26	0.50
43:BI:12:LEU:HG	43:BI:12:LEU:O	2.11	0.50
44:BJ:96:UNK:C	44:BJ:98:UNK:N	2.72	0.50
44:BJ:99:UNK:O	44:BJ:101:UNK:N	2.44	0.50
45:BK:19:PRO:O	45:BK:24:GLY:HA3	2.12	0.50
46:BN:15:LEU:O	46:BN:136:GLU:HA	2.11	0.50
46:BN:61:ARG:HG3	46:BN:61:ARG:HH11	1.77	0.50
55:BW:29:LEU:HG	55:BW:33:ARG:NH1	2.27	0.50
1:CA:1207:G:O2'	1:CA:1208:C:H5'	2.12	0.50
1:CA:1476:G:H2'	1:CA:1477:C:H6	1.75	0.50
1:CA:375:U:H4'	16:CP:17:TYR:CE2	2.47	0.50
1:CA:382:A:H2'	1:CA:383:A:C8	2.46	0.50
1:CA:300:A:H1'	1:CA:565:U:O2	2.11	0.50
1:CA:962:C:H2'	1:CA:963:G:H8	1.75	0.50
2:CB:209:ARG:HH11	2:CB:239:VAL:CG1	2.24	0.50
3:CC:82:GLU:O	3:CC:86:VAL:HG13	2.12	0.50
11:CK:79:SER:CB	11:CK:106:LYS:HE3	2.41	0.50
22:CW:68:C:O2'	22:CW:69:G:H5'	2.10	0.50
24:CY:109:PHE:HB3	24:CY:110:PRO:HD2	1.91	0.50
35:DA:1679:U:C2'	35:DA:1680:U:H5'	2.42	0.50
35:DA:195:A:C8	35:DA:197:A:OP1	2.64	0.50
35:DA:2190:G:O2'	35:DA:2191:G:H5'	2.11	0.50
35:DA:898:C:H2'	35:DA:899:A:O4'	2.10	0.50
35:DA:1798:U:C5'	38:DD:259:THR:HG22	2.20	0.50
39:DE:32:PRO:HB3	39:DE:69:LYS:HE2	1.93	0.50
39:DE:72:VAL:O	39:DE:72:VAL:HG12	2.11	0.50
42:DH:85:LYS:HD2	42:DH:145:ALA:HB2	1.94	0.50
57:DY:13:VAL:CG1	57:DY:28:LYS:HD3	2.40	0.50
1:AA:353:A:H5'	1:AA:353:A:C8	2.40	0.50
1:AA:423:G:C2'	1:AA:424:G:H5'	2.41	0.50
1:AA:696:A:O2'	1:AA:697:U:H5'	2.11	0.50
1:AA:963:G:H21	10:AJ:55:LYS:CD	2.24	0.50
2:AB:55:PHE:HA	2:AB:58:ILE:CD1	2.35	0.50
6:AF:39:LYS:O	6:AF:40:VAL:HB	2.12	0.50
9:AI:65:VAL:HB	9:AI:77:ILE:HD11	1.93	0.50
9:AI:17:VAL:HG21	9:AI:80:GLY:C	2.32	0.50
13:AM:120:LYS:HD3	13:AM:121:LYS:O	2.11	0.50
14:AN:48:ALA:HB2	14:AN:53:LEU:HD12	1.94	0.50
15:AO:61:GLY:O	15:AO:64:ARG:HB3	2.12	0.50
22:AV:59:U:C2'	22:AV:60:U:H5'	2.41	0.50
25:B0:41:ARG:NH2	35:BA:2387:U:C4'	2.73	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:B8:34:TRP:CG	33:B8:35:GLN:N	2.77	0.50
35:BA:1078:U:H5'	45:BK:132:ARG:HH12	1.76	0.50
35:BA:1091:G:O2'	35:BA:1092:C:H5'	2.11	0.50
35:BA:1493:C:H4'	35:BA:1494:A:OP1	2.10	0.50
35:BA:2732:G:C2'	35:BA:2733:A:H5'	2.41	0.50
30:B5:3:LYS:HB2	35:BA:747:U:H5	1.74	0.50
35:BA:908:C:O2'	35:BA:909:A:H5'	2.12	0.50
38:BD:28:GLU:HB2	38:BD:29:PRO:HD3	1.92	0.50
39:BE:35:GLN:HA	39:BE:67:PHE:CE2	2.46	0.50
40:BF:9:ILE:HG12	40:BF:13:SER:O	2.11	0.50
40:BF:178:PRO:HB2	40:BF:201:VAL:CG1	2.42	0.50
41:BG:45:GLU:H	41:BG:88:ILE:HG21	1.77	0.50
45:BK:33:ASN:ND2	45:BK:36:GLU:HG3	2.26	0.50
46:BN:73:THR:HG21	46:BN:82:LEU:HD11	1.94	0.50
49:BQ:43:THR:HB	49:BQ:45:GLN:HE21	1.75	0.50
49:BQ:2:LEU:O	49:BQ:70:PRO:HG2	2.10	0.50
57:BY:77:PRO:O	57:BY:78:ALA:HB2	2.10	0.50
1:CA:1246:C:H2'	1:CA:1247:U:H6	1.76	0.50
1:CA:1251:A:H2'	1:CA:1252:A:C8	2.46	0.50
1:CA:340:U:H2'	1:CA:341:C:C6	2.47	0.50
2:CB:16:HIS:HB3	2:CB:210:SER:CA	2.42	0.50
4:CD:14:ARG:HD2	4:CD:59:ARG:HH12	1.76	0.50
10:CJ:29:ARG:NH1	10:CJ:29:ARG:HG2	2.26	0.50
10:CJ:39:PRO:HB3	10:CJ:70:ARG:NH1	2.26	0.50
12:CL:45:PRO:HD3	12:CL:51:ALA:O	2.11	0.50
14:CN:59:ALA:O	14:CN:60:SER:HB2	2.12	0.50
24:CY:187:HIS:N	24:CY:206:ALA:O	2.40	0.50
24:CY:233:ARG:HD3	35:DA:2573:C:N4	2.27	0.50
24:CY:50:GLN:C	24:CY:50:GLN:NE2	2.65	0.50
24:CY:59:VAL:HG12	24:CY:59:VAL:O	2.11	0.50
35:DA:2287:A:H2	35:DA:2346:A:N1	2.10	0.50
22:CW:77:PHA:HA	35:DA:2395:C:O4'	2.11	0.50
35:DA:2761:G:H3'	35:DA:2762:G:H5''	1.92	0.50
35:DA:607:U:OP1	40:DF:102:PRO:HA	2.10	0.50
37:DC:29:LEU:HD23	37:DC:29:LEU:O	2.12	0.50
22:CW:62:C:O4'	37:DC:53:ARG:HG3	2.11	0.50
38:DD:121:PRO:HA	38:DD:135:PHE:HD1	1.77	0.50
38:DD:28:GLU:HB2	38:DD:29:PRO:HD3	1.93	0.50
40:DF:123:LEU:HD12	40:DF:124:LEU:N	2.24	0.50
41:DG:110:ALA:O	41:DG:113:ARG:N	2.44	0.50
41:DG:124:SER:HB2	41:DG:131:TYR:CE1	2.47	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:DG:57:ALA:CB	41:DG:90:LEU:HD21	2.40	0.50
41:DG:73:ALA:HB3	41:DG:87:PRO:CG	2.41	0.50
48:DP:58:THR:HG22	48:DP:61:ARG:HG3	1.93	0.50
49:DQ:21:THR:O	49:DQ:21:THR:HG22	2.11	0.50
53:DU:92:ARG:NH1	54:DV:11:GLN:O	2.44	0.50
53:DU:90:VAL:CG2	54:DV:39:LEU:HB2	2.42	0.50
1:AA:102:G:H2'	1:AA:103:C:H6	1.75	0.50
1:AA:104:G:H4'	1:AA:174:C:O4'	2.11	0.50
1:AA:1351:U:O2'	1:AA:1352:C:H5'	2.11	0.50
1:AA:1510:U:H2'	1:AA:1511:G:C8	2.47	0.50
1:AA:321:A:N6	1:AA:328:C:O2'	2.42	0.50
1:AA:521:G:O2'	1:AA:522:C:H5'	2.12	0.50
1:AA:546:G:OP1	4:AD:73:ARG:HB2	2.11	0.50
1:AA:724:G:O2'	1:AA:725:G:H5'	2.11	0.50
2:AB:238:LEU:HG	2:AB:239:VAL:N	2.26	0.50
4:AD:12:CYS:SG	4:AD:19:LEU:O	2.69	0.50
6:AF:42:GLU:HG2	6:AF:42:GLU:O	2.11	0.50
7:AG:76:ARG:HG2	7:AG:76:ARG:HH11	1.76	0.50
10:AJ:13:HIS:CE1	10:AJ:14:LYS:HG3	2.46	0.50
10:AJ:6:ILE:HG22	10:AJ:98:ILE:HG23	1.94	0.50
13:AM:120:LYS:HE2	13:AM:122:LYS:HZ2	1.77	0.50
13:AM:21:TYR:C	13:AM:22:ILE:HD12	2.32	0.50
13:AM:56:LEU:HD13	13:AM:60:VAL:HG21	1.93	0.50
14:AN:12:ARG:NH1	14:AN:12:ARG:CB	2.75	0.50
10:AJ:61:GLU:CG	14:AN:58:LYS:HE2	2.42	0.50
16:AP:49:LEU:O	16:AP:50:LYS:HB2	2.11	0.50
20:AT:89:ARG:HB2	20:AT:104:LEU:HD11	1.93	0.50
33:B8:52:LYS:H	33:B8:53:PRO:HD2	1.76	0.50
35:BA:2313:C:O2'	35:BA:2314:C:H5'	2.12	0.50
38:BD:25:THR:O	38:BD:27:THR:HG22	2.11	0.50
45:BK:33:ASN:HD22	45:BK:36:GLU:HG3	1.77	0.50
51:BS:101:LEU:C	51:BS:101:LEU:HD12	2.32	0.50
35:BA:2019:A:H5''	53:BU:27:LEU:HD12	1.93	0.50
35:BA:1155:A:OP1	53:BU:55:ARG:HD2	2.11	0.50
53:BU:76:TYR:OH	53:BU:93:LYS:HE3	2.11	0.50
57:BY:2:ARG:C	57:BY:4:LYS:N	2.64	0.50
57:BY:44:ILE:HG22	57:BY:45:VAL:N	2.17	0.50
1:CA:1030(D):A:C2'	1:CA:1031:G:H5'	2.41	0.50
1:CA:1316:G:H2'	1:CA:1317:C:H5''	1.92	0.50
1:CA:339:C:OP2	47:DO:97:ARG:NH1	2.45	0.50
1:CA:679:C:O2'	1:CA:680:C:H5'	2.12	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CC:16:ARG:HH11	3:CC:16:ARG:CB	2.25	0.50
3:CC:188:LEU:HD22	3:CC:188:LEU:N	2.26	0.50
4:CD:126:ILE:HD12	4:CD:126:ILE:H	1.77	0.50
5:CE:7:GLU:O	5:CE:8:GLU:HB3	2.11	0.50
9:CI:112:LYS:HD3	9:CI:112:LYS:O	2.10	0.50
20:CT:43:LEU:HB3	20:CT:48:LYS:HB2	1.94	0.50
22:CV:72:C:C3'	22:CV:73:A:H5''	2.42	0.50
24:CY:74:GLU:C	24:CY:75:LEU:HD22	2.32	0.50
35:DA:1539:G:H2'	35:DA:1540:U:O4'	2.12	0.50
35:DA:158:U:O2	35:DA:158:U:C2'	2.60	0.50
35:DA:1688:U:H1'	35:DA:1701:A:C6	2.46	0.50
35:DA:1722:A:C2	35:DA:1740:G:C8	3.00	0.50
35:DA:553:G:O2'	35:DA:554:U:H5'	2.12	0.50
25:D0:74:ARG:NH2	36:DB:13:A:C8	2.78	0.50
38:DD:109:ASP:HB2	38:DD:197:GLY:HA2	1.92	0.50
39:DE:33:VAL:HG23	39:DE:47:VAL:CG2	2.41	0.50
40:DF:2:LYS:HD3	40:DF:25:PRO:HG2	1.93	0.50
35:DA:660:G:H5'	40:DF:99:TYR:CE2	2.46	0.50
41:DG:16:ARG:NH1	41:DG:28:VAL:HG12	2.26	0.50
44:DJ:117:UNK:O	44:DJ:119:UNK:N	2.45	0.50
45:DK:105:LEU:N	45:DK:105:LEU:HD12	2.27	0.50
45:DK:19:PRO:O	45:DK:24:GLY:HA3	2.12	0.50
35:DA:1453:U:H5'	50:DR:63:ARG:NE	2.26	0.50
54:DV:2:PHE:O	54:DV:3:ALA:HB3	2.12	0.50
54:DV:34:GLU:O	54:DV:36:PRO:CD	2.59	0.50
56:DX:24:GLY:O	56:DX:82:GLN:HA	2.11	0.50
57:DY:79:CYS:O	57:DY:80:GLY:O	2.29	0.50
57:DY:97:ARG:O	57:DY:98:VAL:HB	2.12	0.50
1:AA:1053:G:N7	1:AA:1199:U:H3'	2.27	0.50
1:AA:1369:C:H2'	1:AA:1370:G:C8	2.46	0.50
1:AA:382:A:H2'	1:AA:383:A:C8	2.47	0.50
1:AA:389:A:H2'	1:AA:390:C:H5'	1.94	0.50
2:AB:212:GLN:HG3	2:AB:235:SER:HB2	1.93	0.50
3:AC:30:ARG:HB2	14:AN:36:PHE:O	2.11	0.50
3:AC:34:LEU:CD2	3:AC:38:ARG:HD2	2.37	0.50
4:AD:8:VAL:HB	4:AD:21:LEU:HD12	1.93	0.50
7:AG:6:ARG:O	7:AG:6:ARG:HG2	2.12	0.50
10:AJ:27:ALA:HB2	10:AJ:85:LEU:CD1	2.41	0.50
14:AN:40:CYS:SG	14:AN:43:CYS:SG	3.03	0.50
27:B2:3:LEU:HD23	27:B2:3:LEU:O	2.11	0.50
35:BA:1042:G:H5'	35:BA:1043:C:OP2	2.12	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:1048:A:N1	35:BA:1108:U:O4	2.45	0.50
26:B1:3:LYS:HE2	35:BA:1364:G:C8	2.46	0.50
35:BA:1790:C:H2'	35:BA:1791:A:C5	2.46	0.50
35:BA:2742:C:O2'	35:BA:2743:C:H5'	2.11	0.50
35:BA:2807:G:C3'	35:BA:2808:U:H5''	2.42	0.50
35:BA:498:G:O2'	35:BA:499:U:H5'	2.12	0.50
39:BE:167:VAL:CG2	39:BE:170:LEU:HD11	2.42	0.50
41:BG:106:LEU:HD12	41:BG:110:ALA:HB3	1.93	0.50
41:BG:135:LEU:O	41:BG:154:GLY:HA3	2.11	0.50
41:BG:25:TYR:OH	41:BG:32:PRO:HD3	2.12	0.50
41:BG:38:VAL:CG2	41:BG:93:THR:HG23	2.41	0.50
49:BQ:134:ARG:HA	49:BQ:137:TYR:CD1	2.46	0.50
50:BR:118:GLU:HA	50:BR:118:GLU:OE1	2.11	0.50
1:CA:358:U:H2'	1:CA:359:U:H6	1.76	0.50
1:CA:986:A:H2'	1:CA:987:G:C8	2.47	0.50
3:CC:140:ARG:HG3	3:CC:140:ARG:HH11	1.75	0.50
3:CC:30:ARG:HB2	14:CN:36:PHE:O	2.11	0.50
6:CF:39:LYS:HG2	6:CF:40:VAL:H	1.76	0.50
11:CK:34:ASP:HB3	11:CK:40:ILE:HD11	1.94	0.50
13:CM:120:LYS:HD3	13:CM:121:LYS:O	2.11	0.50
13:CM:94:ARG:CZ	19:CS:81:ARG:HG3	2.41	0.50
1:CA:1316:G:H5''	14:CN:17:LYS:HE3	1.93	0.50
14:CN:23:ARG:HH11	14:CN:30:ALA:HB2	1.76	0.50
17:CQ:10:VAL:HG13	17:CQ:19:VAL:HB	1.92	0.50
18:CR:32:ARG:HA	18:CR:69:THR:HG21	1.93	0.50
24:CY:303:ARG:N	24:CY:304:PRO:CD	2.75	0.50
31:D6:44:ARG:O	31:D6:45:LYS:O	2.30	0.50
33:D8:32:LEU:CB	33:D8:36:LYS:NZ	2.75	0.50
35:DA:1688:U:H5'	35:DA:1689:A:OP1	2.11	0.50
35:DA:2065:C:H2'	35:DA:2066:C:C6	2.46	0.50
35:DA:2807:G:H2'	35:DA:2808:U:H5''	1.94	0.50
35:DA:2864:G:OP1	52:DT:119:LYS:HD2	2.11	0.50
35:DA:330:A:O2'	35:DA:331:A:H8	1.94	0.50
35:DA:780:G:H21	35:DA:783:A:H62	1.59	0.50
35:DA:923:C:H2'	35:DA:924:C:H6	1.77	0.50
35:DA:2810:A:O2'	39:DE:61:ARG:CZ	2.59	0.50
41:DG:88:ILE:HG22	41:DG:89:GLY:H	1.76	0.50
45:DK:33:ASN:HD22	45:DK:36:GLU:HG3	1.76	0.50
50:DR:10:LEU:HD22	50:DR:17:ARG:CD	2.42	0.50
52:DT:14:TYR:CD1	52:DT:14:TYR:N	2.80	0.50
47:DO:107:ARG:NH2	52:DT:35:LYS:HD2	2.27	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
52:DT:42:ILE:CG1	52:DT:42:ILE:O	2.57	0.50
55:DW:95:ILE:O	55:DW:95:ILE:CG1	2.59	0.50
58:DZ:24:LEU:HD22	58:DZ:86:VAL:HG22	1.92	0.50
1:AA:814:A:N7	1:AA:816:A:C4	2.80	0.50
3:AC:14:ILE:CG1	3:AC:15:THR:H	2.07	0.50
1:AA:542:G:OP1	4:AD:10:ARG:NH2	2.44	0.50
4:AD:126:ILE:CG2	4:AD:127:THR:H	2.25	0.50
4:AD:25:ARG:NH1	4:AD:30:LYS:HB2	2.26	0.50
4:AD:42:GLN:HG2	4:AD:42:GLN:O	2.10	0.50
5:AE:76:ILE:HG13	5:AE:77:PRO:HD2	1.94	0.50
1:AA:738:C:H5'	6:AF:69:GLU:HB2	1.93	0.50
10:AJ:39:PRO:HB3	10:AJ:70:ARG:NH1	2.27	0.50
11:AK:111:ASP:HA	18:AR:84:LYS:CD	2.42	0.50
11:AK:124:LYS:HZ3	11:AK:125:PHE:HE1	1.60	0.50
11:AK:43:SER:HB3	11:AK:68:ALA:HB2	1.93	0.50
12:AL:53:ARG:HG2	12:AL:93:LEU:HD11	1.94	0.50
15:AO:16:ALA:HA	15:AO:27:VAL:CG2	2.42	0.50
22:AW:28:G:H2'	22:AW:29:G:C8	2.47	0.50
24:AY:24:THR:HG22	24:AY:24:THR:O	2.11	0.50
35:BA:2467:C:H4'	49:BQ:123:HIS:CD2	2.47	0.50
35:BA:2836:U:H2'	35:BA:2837:G:H8	1.75	0.50
35:BA:780:G:H21	35:BA:783:A:H62	1.59	0.50
35:BA:78:A:H2'	35:BA:79:G:H8	1.76	0.50
35:BA:923:C:H2'	35:BA:924:C:C6	2.47	0.50
37:BC:29:LEU:O	37:BC:29:LEU:HD23	2.12	0.50
43:BI:90:GLY:O	43:BI:121:LYS:HD3	2.12	0.50
46:BN:46:VAL:O	46:BN:47:ALA:CB	2.59	0.50
46:BN:5:VAL:HG13	46:BN:5:VAL:O	2.11	0.50
50:BR:12:ARG:HB3	50:BR:16:HIS:HB3	1.92	0.50
50:BR:67:LEU:HD21	50:BR:76:VAL:HG11	1.93	0.50
49:BQ:132:VAL:HG21	58:BZ:81:ARG:NH2	2.27	0.50
1:CA:389:A:H2'	1:CA:390:C:H5'	1.93	0.50
2:CB:95:GLN:HE21	2:CB:147:LYS:CG	2.25	0.50
4:CD:26:CYS:O	4:CD:31:CYS:HB2	2.11	0.50
4:CD:42:GLN:HG2	4:CD:42:GLN:O	2.12	0.50
8:CH:30:ARG:CB	8:CH:30:ARG:NH1	2.74	0.50
10:CJ:100:THR:O	10:CJ:100:THR:HG22	2.11	0.50
1:CA:963:G:H21	10:CJ:55:LYS:HD2	1.76	0.50
12:CL:91:LYS:C	12:CL:91:LYS:HD3	2.32	0.50
18:CR:31:LEU:HD12	18:CR:66:LEU:HB2	1.94	0.50
20:CT:73:HIS:O	20:CT:74:LYS:C	2.50	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:CY:48:VAL:O	24:CY:48:VAL:HG12	2.12	0.50
29:D4:28:LYS:O	29:D4:30:GLU:N	2.43	0.50
33:D8:35:GLN:O	33:D8:35:GLN:HG2	2.11	0.50
35:DA:1064:C:O2'	35:DA:1065:U:H5'	2.12	0.50
35:DA:11:G:H22	35:DA:2628:C:P	2.35	0.50
35:DA:1488:G:H5'	35:DA:1489:U:OP2	2.12	0.50
35:DA:156:U:H5''	35:DA:158:U:C5	2.45	0.50
35:DA:729:G:H2'	35:DA:1775:U:H1'	1.92	0.50
35:DA:2287:A:C2	35:DA:2346:A:C2	3.00	0.50
31:D6:45:LYS:HE3	35:DA:2370:G:O2'	2.12	0.50
35:DA:587:C:C5	48:DP:33:ARG:HD3	2.47	0.50
35:DA:613:G:H8	35:DA:613:G:C5'	2.20	0.50
35:DA:78:A:H2'	35:DA:79:G:H8	1.77	0.50
27:D2:3:LEU:HD12	35:DA:98:G:C5'	2.42	0.50
38:DD:166:GLN:CA	38:DD:166:GLN:NE2	2.74	0.50
39:DE:176:ILE:HB	39:DE:181:LEU:HB2	1.94	0.50
39:DE:197:ILE:HD11	39:DE:199:ARG:HE	1.75	0.50
40:DF:116:ASP:O	40:DF:120:GLU:HG3	2.11	0.50
40:DF:7:TYR:HB2	40:DF:16:GLY:C	2.32	0.50
40:DF:9:ILE:HG12	40:DF:13:SER:O	2.11	0.50
43:DI:51:ILE:O	43:DI:53:ALA:N	2.45	0.50
43:DI:8:PRO:C	43:DI:9:LEU:HD12	2.32	0.50
48:DP:23:PRO:HD2	48:DP:33:ARG:CZ	2.41	0.50
48:DP:41:ARG:HH12	48:DP:45:LEU:HG	1.76	0.50
49:DQ:141:GLN:HB3	58:DZ:99:TYR:CZ	2.46	0.50
52:DT:53:ARG:HB3	52:DT:53:ARG:CZ	2.41	0.50
54:DV:19:LYS:HG3	54:DV:20:LEU:O	2.12	0.50
54:DV:39:LEU:HD22	54:DV:39:LEU:H	1.77	0.50
54:DV:5:VAL:HG21	54:DV:35:LEU:CG	2.42	0.50
1:AA:1158:C:C2'	1:AA:1158:C:O2	2.58	0.50
1:AA:375:U:H4'	16:AP:17:TYR:CE2	2.47	0.50
2:AB:236:TYR:HA	2:AB:239:VAL:HG21	1.93	0.50
9:AI:77:ILE:HG22	9:AI:77:ILE:O	2.12	0.50
20:AT:18:GLN:O	20:AT:22:ARG:HG3	2.11	0.50
22:AV:76:8AN:C2'	24:AY:240:GLN:H	2.25	0.50
24:AY:311:ILE:HG13	24:AY:312:ARG:N	2.27	0.50
24:AY:41:ASP:CB	24:AY:44:ALA:HB3	2.42	0.50
33:B8:29:LYS:HG3	33:B8:29:LYS:O	2.11	0.50
35:BA:2783:G:H2'	35:BA:2784:C:C6	2.47	0.50
38:BD:166:GLN:N	38:BD:166:GLN:HE21	2.09	0.50
38:BD:267:SER:HA	38:BD:270:ILE:HG13	1.94	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:BG:40:ASN:O	41:BG:41:GLN:HG2	2.12	0.50
42:BH:26:VAL:HG21	42:BH:75:ALA:HB3	1.94	0.50
43:BI:41:GLU:HA	43:BI:44:LEU:HB2	1.93	0.50
44:BJ:117:UNK:O	44:BJ:119:UNK:N	2.45	0.50
45:BK:103:GLN:HA	45:BK:106:GLU:CD	2.31	0.50
49:BQ:137:TYR:CD2	49:BQ:137:TYR:N	2.79	0.50
35:BA:907:U:OP1	49:BQ:24:GLY:N	2.45	0.50
47:BO:104:ARG:NE	52:BT:33:LYS:HD2	2.27	0.50
53:BU:102:GLU:HG3	54:BV:2:PHE:CE1	2.46	0.50
55:BW:95:ILE:O	55:BW:95:ILE:HG13	2.11	0.50
57:BY:79:CYS:O	57:BY:80:GLY:O	2.29	0.50
58:BZ:73:GLN:HB3	58:BZ:87:ASP:OD1	2.11	0.50
1:CA:1086:U:O2'	1:CA:1087:G:H5'	2.12	0.50
1:CA:377:G:H2'	1:CA:378:G:C8	2.39	0.50
1:CA:418:C:H2'	1:CA:419:C:H6	1.74	0.50
1:CA:719:C:N4	18:CR:71:LYS:HE2	2.27	0.50
3:CC:113:ALA:HB3	3:CC:114:PRO:CD	2.39	0.50
6:CF:62:TRP:CH2	6:CF:64:GLN:HB2	2.47	0.50
7:CG:120:ILE:HG22	7:CG:124:LEU:HD12	1.94	0.50
9:CI:83:ARG:HA	9:CI:86:VAL:HG12	1.93	0.50
10:CJ:50:ILE:CD1	10:CJ:50:ILE:H	2.07	0.50
13:CM:125:ARG:HA	24:CY:159:GLY:C	2.32	0.50
20:CT:57:ARG:HH12	20:CT:100:ILE:HG13	1.77	0.50
24:CY:153:VAL:CG1	24:CY:153:VAL:O	2.60	0.50
25:D0:70:GLN:NE2	25:D0:80:HIS:NE2	2.59	0.50
35:DA:1314:C:C6	35:DA:1314:C:H5'	2.47	0.50
35:DA:1539:G:H2'	35:DA:1540:U:H5'	1.93	0.50
35:DA:1528:A:N1	35:DA:1542:A:H2	2.09	0.50
35:DA:2030:A:H4'	35:DA:2031:A:H8	1.77	0.50
35:DA:2096:U:H2'	35:DA:2097:C:C6	2.47	0.50
35:DA:2313:C:O2'	35:DA:2314:C:H5'	2.10	0.50
35:DA:662:G:P	48:DP:18:ARG:HD2	2.52	0.50
35:DA:848:G:H8	35:DA:848:G:H5'	1.77	0.50
38:DD:28:GLU:H	38:DD:29:PRO:HD2	1.76	0.50
40:DF:24:LEU:CB	40:DF:25:PRO:CD	2.83	0.50
40:DF:68:LYS:C	40:DF:70:THR:H	2.14	0.50
44:DJ:59:UNK:C	44:DJ:61:UNK:N	2.71	0.50
44:DJ:99:UNK:O	44:DJ:101:UNK:N	2.44	0.50
46:DN:1:MET:CG	46:DN:2:LYS:H	2.25	0.50
48:DP:114:ILE:O	48:DP:115:LEU:HB3	2.11	0.50
49:DQ:21:THR:CG2	49:DQ:101:ARG:HB2	2.41	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
49:DQ:116:GLU:OE1	49:DQ:116:GLU:HA	2.10	0.50
54:DV:99:ILE:HD13	54:DV:99:ILE:N	2.26	0.50
56:DX:50:LYS:N	56:DX:87:GLN:OE1	2.44	0.50
58:DZ:63:ASP:HB3	58:DZ:65:GLN:HG3	1.92	0.50
1:AA:189(K):U:H2'	1:AA:189(L):G:H8	1.77	0.50
1:AA:475:G:O2'	1:AA:476:G:H5'	2.12	0.50
1:AA:501:C:H2'	1:AA:502:G:H8	1.76	0.50
1:AA:514:C:O2'	1:AA:515:G:H5'	2.12	0.50
1:AA:634:C:H2'	1:AA:635:G:H8	1.77	0.50
1:AA:796:C:O2'	1:AA:797:C:H5'	2.12	0.50
3:AC:140:ARG:HH11	3:AC:140:ARG:HG3	1.77	0.50
3:AC:119:ARG:HH21	3:AC:140:ARG:NE	2.09	0.50
3:AC:179:ARG:O	3:AC:206:GLU:HG3	2.12	0.50
3:AC:79:ARG:HG3	3:AC:79:ARG:HH11	1.77	0.50
8:AH:29:SER:HB3	8:AH:32:LYS:HG3	1.94	0.50
8:AH:91:ARG:HH11	8:AH:91:ARG:CG	2.20	0.50
9:AI:4:TYR:HB2	9:AI:19:LEU:CB	2.39	0.50
19:AS:58:VAL:O	19:AS:58:VAL:HG23	2.12	0.50
24:AY:270:LYS:CE	25:B0:5:LYS:HD3	2.42	0.50
31:B6:20:ASN:ND2	31:B6:41:PRO:HA	2.27	0.50
33:B8:32:LEU:HB2	33:B8:36:LYS:HD2	1.94	0.50
35:BA:1331:A:HO2'	35:BA:1332:G:H8	1.58	0.50
35:BA:1490:A:H5'	35:BA:1494:A:N6	2.26	0.50
35:BA:1578:U:H2'	35:BA:1579:A:H5'	1.93	0.50
35:BA:1811:G:O2'	35:BA:1812:A:H5'	2.12	0.50
35:BA:2123:G:O2'	35:BA:2124:G:H5'	2.12	0.50
35:BA:214:G:H1'	35:BA:216:A:O2'	2.12	0.50
35:BA:2199:A:H3'	35:BA:2200:C:C6	2.47	0.50
35:BA:2712:U:H1'	35:BA:2712(A):A:C8	2.47	0.50
35:BA:466:A:H2'	35:BA:467:G:H5'	1.94	0.50
35:BA:705:A:C2	35:BA:727:A:H1'	2.46	0.50
38:BD:131:LEU:N	38:BD:131:LEU:HD12	2.27	0.50
39:BE:110:GLY:CA	39:BE:162:ALA:HB2	2.42	0.50
39:BE:51:PHE:HD1	39:BE:52:LEU:H	1.58	0.50
40:BF:24:LEU:HD13	40:BF:118:ALA:CB	2.42	0.50
35:BA:660:G:H5'	40:BF:99:TYR:CE2	2.46	0.50
41:BG:142:PRO:O	41:BG:144:ILE:N	2.45	0.50
41:BG:171:ALA:O	41:BG:175:LEU:HG	2.12	0.50
43:BI:94:ALA:HB1	43:BI:114:LEU:HD12	1.94	0.50
46:BN:128:HIS:CD2	46:BN:130:HIS:H	2.23	0.50
46:BN:133:GLN:C	46:BN:134:ARG:HG2	2.33	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
48:BP:115:LEU:HD23	48:BP:115:LEU:N	2.27	0.50
48:BP:147:LEU:O	48:BP:149:GLU:HG2	2.12	0.50
48:BP:33:ARG:O	48:BP:34:GLY:C	2.50	0.50
53:BU:108:GLU:O	53:BU:112:ARG:HG2	2.11	0.50
53:BU:54:LYS:O	53:BU:58:ARG:HG3	2.11	0.50
54:BV:47:VAL:CB	54:BV:49:THR:O	2.60	0.50
54:BV:46:VAL:HG12	54:BV:47:VAL:H	1.77	0.50
57:BY:2:ARG:NH1	57:BY:3:VAL:HG23	2.27	0.50
1:CA:1133:G:H22	1:CA:1143:G:HI'	1.77	0.50
1:CA:245:C:O2	1:CA:283:C:N3	2.44	0.50
1:CA:859:A:H2'	1:CA:860:A:O4'	2.11	0.50
1:CA:911:U:H2'	1:CA:912:C:C6	2.47	0.50
2:CB:97:TRP:CZ2	2:CB:102:LEU:HD13	2.47	0.50
2:CB:180:LEU:C	2:CB:182:ILE:H	2.15	0.50
2:CB:212:GLN:HG3	2:CB:235:SER:HB2	1.94	0.50
4:CD:15:GLU:HG3	4:CD:63:LYS:HE2	1.94	0.50
6:CF:45:LEU:HD11	6:CF:57:GLN:OE1	2.11	0.50
8:CH:110:ALA:O	8:CH:112:LEU:HD22	2.12	0.50
9:CI:4:TYR:HE1	9:CI:21:PRO:HD3	1.76	0.50
9:CI:65:VAL:CG2	9:CI:73:GLN:HB3	2.35	0.50
9:CI:17:VAL:HG21	9:CI:80:GLY:C	2.32	0.50
10:CJ:49:VAL:HG21	14:CN:41:ARG:HB2	1.93	0.50
11:CK:125:PHE:HD1	11:CK:125:PHE:N	2.09	0.50
15:CO:70:LEU:HD12	15:CO:70:LEU:O	2.12	0.50
24:CY:262:CYS:O	24:CY:263:GLN:HB2	2.11	0.50
26:D1:27:GLU:HG3	26:D1:28:GLY:N	2.27	0.50
28:D3:8:LEU:HB2	28:D3:28:LEU:HD13	1.94	0.50
30:D5:50:GLY:O	30:D5:51:TYR:HD1	1.95	0.50
31:D6:52:VAL:CG1	31:D6:53:LYS:N	2.75	0.50
35:DA:1230:C:H2'	35:DA:1231:G:C8	2.46	0.50
35:DA:1357:U:H2'	35:DA:1358:G:O4'	2.12	0.50
35:DA:2199:A:H3'	35:DA:2200:C:C6	2.47	0.50
35:DA:2757:A:H2'	35:DA:2758:A:H5'	1.94	0.50
35:DA:518:G:H2'	35:DA:519:U:C6	2.47	0.50
40:DF:150:GLY:HA2	40:DF:172:TRP:CD2	2.47	0.50
40:DF:160:ASN:OD1	40:DF:163:VAL:HG23	2.12	0.50
40:DF:16:GLY:O	40:DF:17:ARG:HG3	2.11	0.50
41:DG:128:ARG:O	41:DG:130:ASN:ND2	2.45	0.50
29:D4:25:TYR:CD2	41:DG:2:PRO:HD2	2.47	0.50
43:DI:125:GLU:OE1	43:DI:125:GLU:HA	2.11	0.50
45:DK:33:ASN:ND2	45:DK:36:GLU:HG3	2.26	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:DO:13:ASN:ND2	47:DO:97:ARG:HB2	2.27	0.50
51:DS:33:LYS:HB3	51:DS:34:HIS:CD2	2.47	0.50
52:DT:83:ILE:HD11	52:DT:84:GLN:HE21	1.77	0.50
54:DV:13:ARG:HG3	54:DV:13:ARG:HH11	1.77	0.50
58:DZ:80:ARG:O	58:DZ:81:ARG:C	2.50	0.50
1:AA:1028:C:H2'	1:AA:1029:C:C5'	2.35	0.49
1:AA:543:C:C2	1:AA:544:G:C8	3.00	0.49
1:AA:735:C:O2'	1:AA:736:C:H5'	2.12	0.49
4:AD:15:GLU:HG3	4:AD:63:LYS:HE2	1.92	0.49
4:AD:9:CYS:HB3	4:AD:32:ALA:CB	2.42	0.49
12:AL:119:LYS:O	12:AL:120:TYR:HB2	2.11	0.49
16:AP:20:VAL:HG22	16:AP:21:VAL:N	2.27	0.49
19:AS:31:ILE:O	19:AS:31:ILE:HG23	2.12	0.49
22:AV:4:C:H2'	22:AV:5:G:H8	1.75	0.49
13:AM:126:LYS:N	24:AY:161:GLU:N	2.60	0.49
25:B0:43:THR:H	35:BA:2331:G:H4'	1.77	0.49
26:B1:71:TYR:C	26:B1:73:LEU:N	2.64	0.49
35:BA:102:G:OP1	35:BA:102:G:H4'	2.12	0.49
35:BA:1331:A:O2'	35:BA:1332:G:C8	2.65	0.49
35:BA:1484:G:C3'	35:BA:1485:G:H5''	2.41	0.49
35:BA:1539:G:H2'	35:BA:1540:U:O4'	2.12	0.49
35:BA:1591:G:H5'	35:BA:1591:G:C8	2.47	0.49
35:BA:2172:U:H3'	35:BA:2173:A:C8	2.47	0.49
35:BA:2267:A:H5''	35:BA:2268:A:H5'	1.94	0.49
35:BA:389:G:N1	48:BP:70:GLN:HG3	2.27	0.49
35:BA:38:A:H2'	35:BA:39:C:C6	2.46	0.49
35:BA:492:A:C2	35:BA:493:G:H1'	2.47	0.49
35:BA:774:A:C2	35:BA:787:U:O2'	2.61	0.49
27:B2:2:LYS:CG	35:BA:97:C:H5''	2.41	0.49
35:BA:1799:G:H8	38:BD:181:GLU:OE1	1.95	0.49
40:BF:133:ASN:H	40:BF:133:ASN:ND2	2.10	0.49
41:BG:153:ARG:HG3	41:BG:154:GLY:N	2.27	0.49
50:BR:11:ASN:O	50:BR:12:ARG:HB2	2.12	0.49
51:BS:85:VAL:HG22	51:BS:106:ARG:HB2	1.92	0.49
54:BV:39:LEU:HA	54:BV:47:VAL:HG11	1.92	0.49
55:BW:95:ILE:O	55:BW:95:ILE:CG1	2.60	0.49
56:BX:56:THR:HG22	56:BX:79:ALA:HB2	1.94	0.49
2:CB:97:TRP:HZ3	2:CB:172:ILE:HG22	1.76	0.49
5:CE:152:ARG:HD3	8:CH:42:GLU:O	2.11	0.49
5:CE:36:ASP:O	5:CE:37:ARG:HB2	2.12	0.49
6:CF:4:TYR:HA	6:CF:91:VAL:O	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:CH:12:ARG:NH1	8:CH:27:PRO:HD2	2.27	0.49
9:CI:118:LYS:O	9:CI:119:ALA:CB	2.60	0.49
1:CA:942:G:N2	9:CI:124:GLN:NE2	2.60	0.49
10:CJ:6:ILE:CG2	10:CJ:98:ILE:HG23	2.42	0.49
17:CQ:9:VAL:CG1	17:CQ:56:VAL:HG22	2.42	0.49
22:CV:51:U:O5'	22:CV:51:U:H6	1.94	0.49
22:CW:19:G:H4'	22:CW:59:U:O4	2.12	0.49
24:CY:253:HIS:CD2	24:CY:255:PRO:HG2	2.47	0.49
24:CY:282:ARG:HH21	24:CY:282:ARG:HB3	1.77	0.49
27:D2:7:ARG:HH11	27:D2:7:ARG:HG2	1.76	0.49
31:D6:45:LYS:O	31:D6:46:HIS:O	2.30	0.49
35:DA:1578:U:H2'	35:DA:1579:A:H5'	1.94	0.49
35:DA:1771:C:O2'	35:DA:1786:A:H8	1.95	0.49
35:DA:2514:U:H2'	35:DA:2515:C:C6	2.47	0.49
35:DA:587:C:C5	48:DP:33:ARG:CD	2.95	0.49
35:DA:587:C:OP2	48:DP:33:ARG:NH2	2.45	0.49
35:DA:907:U:OP1	49:DQ:24:GLY:N	2.45	0.49
28:D3:52:HIS:CD2	36:DB:83:G:H4'	2.47	0.49
35:DA:1568:G:C5'	38:DD:61:LEU:HD23	2.29	0.49
40:DF:20:LEU:O	40:DF:21:ALA:O	2.30	0.49
41:DG:47:LYS:CB	41:DG:82:LEU:HD12	2.42	0.49
42:DH:136:ILE:CD1	42:DH:136:ILE:N	2.75	0.49
43:DI:40:THR:O	43:DI:44:LEU:HB2	2.12	0.49
46:DN:30:ILE:O	46:DN:34:LEU:HD22	2.12	0.49
46:DN:61:ARG:HG3	46:DN:61:ARG:NH1	2.27	0.49
36:DB:92:C:OP1	49:DQ:19:GLY:HA3	2.12	0.49
52:DT:88:ILE:HG22	52:DT:89:VAL:CG2	2.41	0.49
57:DY:13:VAL:HG11	57:DY:28:LYS:CD	2.42	0.49
57:DY:2:ARG:NH1	57:DY:3:VAL:HG23	2.27	0.49
58:DZ:136:PHE:HD1	58:DZ:136:PHE:O	1.95	0.49
1:AA:1242:C:H5''	21:AU:10:ARG:NH1	2.27	0.49
1:AA:1250:A:H2	1:AA:1370:G:H1'	1.76	0.49
1:AA:1251:A:H2'	1:AA:1252:A:C8	2.46	0.49
1:AA:42:G:H2'	1:AA:43:C:C6	2.47	0.49
1:AA:859:A:H2'	1:AA:860:A:O4'	2.12	0.49
4:AD:119:GLN:O	4:AD:123:HIS:CD2	2.65	0.49
6:AF:99:ALA:O	6:AF:100:ASN:HB2	2.12	0.49
7:AG:148:ASN:O	7:AG:150:ALA:N	2.44	0.49
8:AH:65:TYR:N	8:AH:65:TYR:CD1	2.79	0.49
12:AL:26:ALA:C	12:AL:27:LEU:HD22	2.32	0.49
35:BA:1019:U:O2'	35:BA:1021:A:C2	2.50	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:1858:G:H2'	35:BA:1883:G:N2	2.26	0.49
35:BA:2082:A:H2'	35:BA:2083:G:O4'	2.13	0.49
35:BA:2360:A:O2'	35:BA:2361:A:O4'	2.27	0.49
35:BA:363(F):A:O2'	35:BA:364:C:H6	1.95	0.49
38:BD:16:MET:HE1	38:BD:208:LYS:HD3	1.93	0.49
35:BA:1658:C:OP1	39:BE:132:HIS:CE1	2.65	0.49
39:BE:185:LYS:O	39:BE:186:GLY:O	2.30	0.49
35:BA:2810:A:H1'	39:BE:61:ARG:NH1	2.26	0.49
39:BE:52:LEU:O	39:BE:74:PRO:HB3	2.13	0.49
36:BB:42:C:H1'	41:BG:92:VAL:HG23	1.93	0.49
42:BH:80:SER:O	42:BH:81:GLU:CB	2.59	0.49
49:BQ:118:LEU:HD12	49:BQ:131:ILE:CG2	2.42	0.49
52:BT:53:ARG:CZ	52:BT:53:ARG:HB3	2.41	0.49
52:BT:88:ILE:HG22	52:BT:89:VAL:CG2	2.42	0.49
54:BV:38:LEU:C	54:BV:38:LEU:CD2	2.80	0.49
57:BY:28:LYS:NZ	57:BY:37:VAL:HG11	2.28	0.49
1:CA:191:G:C1'	20:CT:105:SER:HB3	2.41	0.49
1:CA:573:A:N3	1:CA:883:C:O2'	2.43	0.49
1:CA:712:A:O2'	1:CA:713:G:H5'	2.12	0.49
1:CA:738:C:H5''	6:CF:69:GLU:HB2	1.95	0.49
3:CC:147:LYS:HD2	3:CC:204:LEU:O	2.11	0.49
3:CC:91:LEU:C	3:CC:93:LYS:H	2.16	0.49
5:CE:105:VAL:HB	5:CE:106:PRO:CD	2.42	0.49
5:CE:73:ASN:HD22	5:CE:73:ASN:N	2.10	0.49
9:CI:4:TYR:HA	9:CI:88:TYR:CZ	2.47	0.49
11:CK:126:ARG:HB3	11:CK:126:ARG:NH1	2.27	0.49
1:CA:881:G:OP2	12:CL:12:ARG:NH2	2.45	0.49
22:CV:12:U:H2'	22:CV:13:C:H5''	1.94	0.49
24:CY:120:ILE:HG22	24:CY:120:ILE:O	2.11	0.49
24:CY:132:TRP:CE3	24:CY:135:MET:HB2	2.46	0.49
28:D3:31:LEU:O	28:D3:32:GLN:HB2	2.12	0.49
33:D8:32:LEU:HB2	33:D8:36:LYS:HD2	1.93	0.49
33:D8:7:HIS:CD2	48:DP:50:ARG:HD3	2.47	0.49
35:DA:11:G:O2'	35:DA:12:U:H5'	2.12	0.49
35:DA:1316:U:H2'	35:DA:1317:A:H8	1.76	0.49
35:DA:1484:G:C3'	35:DA:1485:G:H5''	2.41	0.49
35:DA:1465:G:H5'	35:DA:1528:A:H1'	1.94	0.49
35:DA:2774:C:H2'	35:DA:2775:A:O4'	2.11	0.49
35:DA:512:G:O2'	35:DA:513:A:P	2.70	0.49
35:DA:80:G:O2'	35:DA:81:G:H5'	2.12	0.49
40:DF:110:LEU:HD13	40:DF:202:PHE:CE1	2.48	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:DH:41:MET:HG3	42:DH:43:VAL:N	2.25	0.49
42:DH:85:LYS:HE2	42:DH:85:LYS:C	2.32	0.49
42:DH:85:LYS:HE2	42:DH:86:GLU:N	2.27	0.49
44:DJ:99:UNK:O	44:DJ:100:UNK:C	2.60	0.49
45:DK:103:GLN:HA	45:DK:106:GLU:CD	2.32	0.49
49:DQ:35:VAL:CG1	49:DQ:130:LYS:HB3	2.42	0.49
51:DS:13:ARG:O	51:DS:14:VAL:HB	2.11	0.49
51:DS:44:LYS:O	51:DS:46:VAL:HG23	2.12	0.49
51:DS:85:VAL:CG2	51:DS:106:ARG:HB2	2.43	0.49
54:DV:18:LEU:HD22	54:DV:19:LYS:CA	2.41	0.49
57:DY:28:LYS:O	57:DY:29:GLU:C	2.50	0.49
1:AA:1053:G:O6	1:AA:1199:U:H2'	2.12	0.49
1:AA:1071:C:H2'	1:AA:1072:G:C8	2.45	0.49
1:AA:1127:G:N2	1:AA:1147:C:H41	2.08	0.49
1:AA:1490:C:O2'	1:AA:1491:G:H5'	2.12	0.49
1:AA:368:U:C6	43:DI:90:GLY:HA2	2.47	0.49
2:AB:180:LEU:C	2:AB:182:ILE:H	2.16	0.49
2:AB:182:ILE:HG22	2:AB:183:PRO:O	2.12	0.49
2:AB:212:GLN:NE2	2:AB:216:SER:HB2	2.27	0.49
3:AC:77:ILE:HA	3:AC:84:ILE:HB	1.95	0.49
4:AD:176:LEU:HG	4:AD:177:ASP:N	2.12	0.49
1:AA:511:C:H1'	4:AD:43:HIS:HE2	1.76	0.49
5:AE:51:VAL:HB	5:AE:52:PRO:CD	2.36	0.49
5:AE:73:ASN:HD22	5:AE:73:ASN:N	2.09	0.49
5:AE:152:ARG:HD3	8:AH:42:GLU:O	2.12	0.49
13:AM:112:GLY:HA2	13:AM:113:PRO:CG	2.43	0.49
13:AM:89:GLY:O	13:AM:92:HIS:HB2	2.13	0.49
1:AA:280:C:O2	17:AQ:38:ARG:HG3	2.12	0.49
19:AS:58:VAL:HG21	19:AS:75:ALA:HB2	1.94	0.49
24:AY:54:ARG:CB	24:AY:54:ARG:HH21	2.25	0.49
24:AY:6:LEU:HD22	24:AY:9:ARG:HD2	1.94	0.49
29:B4:28:LYS:O	29:B4:30:GLU:N	2.43	0.49
35:BA:1026:U:C2'	35:BA:1027:A:H5'	2.42	0.49
35:BA:158:U:C2'	35:BA:158:U:O2	2.60	0.49
35:BA:1801:G:OP2	38:BD:154:LYS:HE2	2.12	0.49
35:BA:2108:C:OP1	37:BC:3:LYS:HE2	2.12	0.49
35:BA:35:G:H2'	35:BA:36:G:O4'	2.12	0.49
35:BA:478:A:N1	35:BA:500:G:H4'	2.27	0.49
37:BC:208:THR:HB	37:BC:211:ARG:HG3	1.93	0.49
38:BD:270:ILE:O	38:BD:271:ILE:HG23	2.12	0.49
41:BG:139:LEU:HA	41:BG:144:ILE:CG2	2.42	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:BH:13:LYS:CA	42:BH:13:LYS:HE2	2.24	0.49
42:BH:56:SER:HB2	42:BH:61:HIS:ND1	2.27	0.49
42:BH:80:SER:O	42:BH:81:GLU:HB2	2.11	0.49
54:BV:2:PHE:O	54:BV:3:ALA:HB3	2.12	0.49
58:BZ:125:LEU:C	58:BZ:125:LEU:HD23	2.33	0.49
1:CA:509:A:H5''	4:CD:55:ALA:HB2	1.93	0.49
1:CA:61:G:H2'	1:CA:62:U:O4'	2.13	0.49
1:CA:696:A:O2'	1:CA:697:U:H5'	2.12	0.49
3:CC:150:LYS:HG3	3:CC:169:ALA:HB2	1.94	0.49
4:CD:9:CYS:HB3	4:CD:32:ALA:CB	2.42	0.49
10:CJ:40:LEU:N	10:CJ:69:ASN:O	2.45	0.49
1:CA:1226:C:OP1	13:CM:91:ARG:NH1	2.45	0.49
14:CN:31:ARG:HH11	14:CN:31:ARG:HG3	1.77	0.49
13:CM:123:ALA:CB	24:CY:162:ALA:HB2	2.42	0.49
24:CY:228:ARG:O	24:CY:228:ARG:HD2	2.12	0.49
24:CY:303:ARG:NH2	35:DA:1914:C:C1'	2.18	0.49
24:CY:85:GLU:HA	24:CY:88:LYS:HG2	1.94	0.49
25:D0:83:PRO:C	25:D0:85:ALA:H	2.15	0.49
27:D2:28:LYS:HD3	27:D2:56:GLN:NE2	2.28	0.49
35:DA:1094:U:H1'	35:DA:1097:U:H5	1.77	0.49
35:DA:1218:C:H42	35:DA:1231:G:H1	1.60	0.49
35:DA:2553:G:H3'	35:DA:2554:U:H5''	1.94	0.49
35:DA:363:G:H2'	35:DA:363(A):A:H8	1.77	0.49
39:DE:1:MET:HB3	39:DE:200:GLU:OE1	2.12	0.49
40:DF:18:ARG:NH1	40:DF:199:TRP:HE3	2.10	0.49
41:DG:114:ILE:HG22	41:DG:115:ARG:N	2.27	0.49
51:DS:42:ASP:C	51:DS:44:LYS:N	2.66	0.49
47:DO:104:ARG:CZ	52:DT:33:LYS:HD2	2.42	0.49
35:DA:2876:G:H4'	52:DT:3:ARG:HD3	1.93	0.49
52:DT:41:ARG:NH2	52:DT:43:GLN:HA	2.26	0.49
55:DW:99:ARG:HG2	55:DW:99:ARG:HH11	1.78	0.49
1:AA:1392:G:O2'	1:AA:1393:U:H5'	2.13	0.49
1:AA:600:C:O2'	1:AA:601:C:H5'	2.13	0.49
1:AA:751:U:H2'	1:AA:752:G:H5'	1.93	0.49
1:AA:833:U:H2'	1:AA:834:C:H6	1.76	0.49
1:AA:985:C:H42	1:AA:1220:G:H1	1.61	0.49
2:AB:142:LEU:HA	2:AB:145:LEU:HB2	1.94	0.49
2:AB:93:VAL:HG11	2:AB:97:TRP:CD1	2.47	0.49
4:AD:4:TYR:O	4:AD:5:ILE:HB	2.13	0.49
6:AF:33:TYR:CE2	6:AF:74:ASP:HB2	2.47	0.49
7:AG:101:LEU:O	7:AG:105:VAL:HG23	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:AI:65:VAL:HG21	9:AI:73:GLN:CB	2.33	0.49
1:AA:1372:U:OP1	9:AI:72:GLY:N	2.44	0.49
15:AO:63:ARG:NH1	15:AO:87:ILE:HG21	2.27	0.49
18:AR:25:THR:O	18:AR:25:THR:HG22	2.13	0.49
19:AS:53:ASN:HD22	19:AS:58:VAL:CG1	2.26	0.49
13:AM:125:ARG:CB	24:AY:159:GLY:HA3	2.42	0.49
24:AY:120:ILE:HG13	24:AY:208:VAL:HG22	1.94	0.49
24:AY:278:ILE:O	24:AY:281:ALA:HB3	2.13	0.49
31:B6:15:GLU:O	31:B6:15:GLU:HG2	2.12	0.49
35:BA:1021:A:C3'	35:BA:1021:A:C8	2.94	0.49
35:BA:1048:A:N6	35:BA:1053:C:H42	2.11	0.49
35:BA:1336:A:OP1	56:BX:64:LYS:HE3	2.12	0.49
35:BA:272(H):C:C2'	35:BA:272(I):U:H5''	2.42	0.49
40:BF:200:GLU:HA	40:BF:200:GLU:OE1	2.12	0.49
41:BG:145:THR:OG1	41:BG:146:TYR:N	2.43	0.49
42:BH:83:TYR:O	42:BH:84:SER:HB3	2.13	0.49
43:BI:71:ILE:CG1	43:BI:72:LEU:N	2.74	0.49
47:BO:2:ILE:HD12	47:BO:6:THR:HG21	1.95	0.49
51:BS:58:LEU:HG	51:BS:59:LYS:H	1.77	0.49
57:BY:62:GLU:HG2	57:BY:63:LYS:N	2.26	0.49
57:BY:97:ARG:O	57:BY:98:VAL:HB	2.12	0.49
58:BZ:163:LEU:HD12	58:BZ:165:VAL:CG2	2.42	0.49
1:CA:1014:A:H2'	1:CA:1015:A:C8	2.47	0.49
1:CA:1026:G:C3'	1:CA:1027:C:H5'	2.42	0.49
1:CA:1107:C:C3'	1:CA:1108:G:H5''	2.42	0.49
1:CA:1166:G:H2'	1:CA:1169:A:OP2	2.12	0.49
1:CA:22:G:O2'	1:CA:23:C:H5'	2.12	0.49
1:CA:433:C:H2'	1:CA:434:U:H6	1.77	0.49
1:CA:542:G:OP1	4:CD:10:ARG:NH2	2.46	0.49
1:CA:926:G:H21	1:CA:1505:G:H2'	1.77	0.49
2:CB:54:THR:HG21	2:CB:201:ILE:CD1	2.42	0.49
5:CE:76:ILE:HG13	5:CE:142:LEU:CD1	2.40	0.49
12:CL:41:ARG:HD3	12:CL:42:THR:C	2.33	0.49
13:CM:120:LYS:HE2	13:CM:122:LYS:HZ2	1.77	0.49
24:CY:223:LYS:O	24:CY:225:GLU:N	2.45	0.49
24:CY:276:LEU:O	24:CY:280:LYS:HG3	2.12	0.49
26:D1:61:ARG:HG3	26:D1:61:ARG:NH1	2.27	0.49
31:D6:48:VAL:O	31:D6:49:HIS:CB	2.59	0.49
35:DA:2267:A:H5''	35:DA:2268:A:H5'	1.94	0.49
35:DA:2360:A:O2'	35:DA:2361:A:O5'	2.30	0.49
35:DA:272(H):C:C2'	35:DA:272(I):U:H5''	2.42	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:D3:52:HIS:CG	36:DB:83:G:H4'	2.46	0.49
37:DC:184:GLU:C	37:DC:185:LYS:HE3	2.33	0.49
37:DC:51:ASP:HB3	37:DC:54:ARG:CG	2.42	0.49
38:DD:3:VAL:HG23	38:DD:200:ASP:OD2	2.12	0.49
41:DG:46:ALA:O	41:DG:47:LYS:C	2.50	0.49
42:DH:84:SER:O	42:DH:133:VAL:O	2.29	0.49
43:DI:111:PRO:HD2	43:DI:112:LYS:HZ2	1.77	0.49
45:DK:8:VAL:CG2	45:DK:57:ILE:HB	2.42	0.49
45:DK:90:LYS:NZ	45:DK:90:LYS:HB3	2.27	0.49
48:DP:107:LYS:C	48:DP:109:GLY:H	2.15	0.49
48:DP:23:PRO:HB2	48:DP:33:ARG:CG	2.43	0.49
48:DP:23:PRO:HD2	48:DP:33:ARG:HE	1.77	0.49
51:DS:58:LEU:HG	51:DS:59:LYS:H	1.77	0.49
51:DS:28:VAL:O	51:DS:89:ARG:HD2	2.13	0.49
52:DT:112:ARG:HH21	52:DT:113:LYS:HE2	1.77	0.49
52:DT:65:LYS:HA	52:DT:65:LYS:NZ	2.28	0.49
3:AC:119:ARG:NH1	3:AC:119:ARG:HG3	2.27	0.49
4:AD:52:SER:O	4:AD:53:ASP:C	2.50	0.49
5:AE:20:GLN:O	5:AE:23:GLY:O	2.31	0.49
8:AH:12:ARG:NH1	8:AH:27:PRO:HD2	2.28	0.49
10:AJ:50:ILE:CD1	14:AN:41:ARG:HD3	2.43	0.49
20:AT:57:ARG:CZ	20:AT:100:ILE:HG12	2.42	0.49
28:B3:2:PRO:O	28:B3:39:ASP:HB2	2.12	0.49
35:BA:1445:A:O2'	35:BA:1445(A):C:H5'	2.13	0.49
35:BA:2190:G:O2'	35:BA:2191:G:H5'	2.12	0.49
39:BE:101:ARG:CB	39:BE:201:THR:HG21	2.43	0.49
40:BF:116:ASP:O	40:BF:120:GLU:HG3	2.12	0.49
41:BG:19:LEU:HD21	41:BG:171:ALA:HB1	1.94	0.49
43:BI:80:PRO:HA	43:BI:143:SER:OG	2.11	0.49
45:BK:99:ILE:HA	45:BK:103:GLN:HG2	1.94	0.49
51:BS:13:ARG:O	51:BS:14:VAL:HB	2.13	0.49
53:BU:61:TRP:CH2	53:BU:94:ASN:HB2	2.47	0.49
57:BY:63:LYS:HG2	57:BY:64:GLU:N	2.26	0.49
57:BY:7:VAL:HG21	57:BY:8:LYS:HZ1	1.78	0.49
58:BZ:29:TYR:HB3	58:BZ:34:ASN:HB2	1.95	0.49
1:CA:1040:U:H2'	1:CA:1041:A:H8	1.77	0.49
1:CA:1379:G:O2'	1:CA:1380:U:H5'	2.13	0.49
1:CA:176:C:O2'	1:CA:177:C:H5'	2.12	0.49
1:CA:189(J):G:O2'	1:CA:189(K):U:H5'	2.13	0.49
1:CA:857:C:H2'	1:CA:858:G:O4'	2.12	0.49
2:CB:180:LEU:O	2:CB:182:ILE:N	2.45	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CC:79:ARG:HG3	3:CC:79:ARG:HH11	1.77	0.49
3:CC:95:THR:HG22	3:CC:97:LYS:H	1.78	0.49
1:CA:546:G:OP1	4:CD:73:ARG:HB2	2.11	0.49
6:CF:26:ILE:O	6:CF:29:ALA:HB3	2.12	0.49
12:CL:22:SER:O	12:CL:24:VAL:N	2.46	0.49
13:CM:19:LEU:CA	13:CM:22:ILE:HD13	2.41	0.49
16:CP:51:VAL:O	16:CP:53:VAL:N	2.45	0.49
16:CP:67:THR:HB	16:CP:70:ALA:CB	2.42	0.49
17:CQ:7:THR:HG22	17:CQ:58:GLU:CG	2.40	0.49
24:CY:119:THR:CG2	24:CY:166:TYR:CE1	2.95	0.49
24:CY:149:PHE:CD1	24:CY:173:GLY:HA3	2.48	0.49
24:CY:306:GLU:HG3	24:CY:307:TRP:N	2.27	0.49
24:CY:72:LEU:HD22	24:CY:91:LEU:HG	1.94	0.49
32:D7:22:MET:O	32:D7:28:ARG:NH1	2.46	0.49
35:DA:1216:G:P	53:DU:12:ARG:HH21	2.35	0.49
35:DA:1227:G:OP1	53:DU:13:LYS:CD	2.61	0.49
35:DA:1858:G:H2'	35:DA:1883:G:N2	2.27	0.49
35:DA:2287:A:C2	35:DA:2346:A:N1	2.81	0.49
35:DA:2732:G:O2'	35:DA:2733:A:H5'	2.13	0.49
35:DA:709:U:H3	35:DA:722:A:H61	1.61	0.49
40:DF:200:GLU:HA	40:DF:200:GLU:OE1	2.12	0.49
40:DF:178:PRO:HB2	40:DF:201:VAL:CG1	2.42	0.49
45:DK:18:THR:H	45:DK:19:PRO:HD2	1.77	0.49
46:DN:133:GLN:O	46:DN:134:ARG:CB	2.60	0.49
49:DQ:141:GLN:HB3	58:DZ:99:TYR:HE2	1.74	0.49
53:DU:91:ASP:OD2	53:DU:96:ALA:HB2	2.12	0.49
57:DY:101:LYS:CG	57:DY:102:CYS:N	2.70	0.49
57:DY:17:SER:CB	57:DY:71:LYS:HE2	2.32	0.49
57:DY:95:LYS:HE2	57:DY:100:ALA:HB2	1.93	0.49
58:DZ:153:SER:OG	58:DZ:157:LEU:HD11	2.11	0.49
58:DZ:163:LEU:HG	58:DZ:164:ALA:N	2.27	0.49
58:DZ:30:ASN:ND2	58:DZ:90:VAL:HG12	2.28	0.49
1:AA:1088:G:H2'	1:AA:1089:G:H8	1.76	0.49
1:AA:1207:G:O2'	1:AA:1208:C:H5'	2.12	0.49
1:AA:1379:G:O2'	1:AA:1380:U:H5'	2.12	0.49
1:AA:139:G:H2'	1:AA:140:A:H8	1.77	0.49
4:AD:61:LYS:NZ	4:AD:72:GLU:OE2	2.45	0.49
12:AL:111:LYS:HG2	12:AL:112:ASP:N	2.28	0.49
13:AM:48:LEU:HG	13:AM:53:VAL:HG22	1.94	0.49
14:AN:9:LYS:HG3	14:AN:12:ARG:HH22	1.78	0.49
18:AR:50:ILE:CD1	18:AR:70:ILE:HG21	2.41	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:AV:29:G:H1	22:AV:41:C:H42	1.61	0.49
22:AW:16:U:C3'	22:AW:17:C:H5'	2.29	0.49
35:BA:1357:U:H2'	35:BA:1358:G:O4'	2.12	0.49
35:BA:1419:A:H2'	35:BA:1421:G:N7	2.27	0.49
35:BA:482:A:H4'	57:BY:47:LYS:HE2	1.95	0.49
35:BA:66:C:H2'	35:BA:67:U:C6	2.47	0.49
35:BA:862:G:H2'	35:BA:863:A:O4'	2.13	0.49
38:BD:45:ASN:OD1	38:BD:46:GLN:N	2.46	0.49
40:BF:160:ASN:HD21	40:BF:162:LEU:HB2	1.76	0.49
40:BF:199:TRP:O	40:BF:203:GLN:HG2	2.12	0.49
40:BF:7:TYR:O	40:BF:8:GLN:HB2	2.12	0.49
41:BG:170:ARG:HH21	41:BG:182:LYS:NZ	2.11	0.49
36:BB:42:C:H4'	41:BG:67:LYS:O	2.12	0.49
41:BG:81:LYS:O	41:BG:82:LEU:HB2	2.12	0.49
35:BA:2311:A:H2	41:BG:82:LEU:HD12	1.76	0.49
43:BI:49:ALA:HA	43:BI:52:ARG:HG2	1.93	0.49
57:BY:95:LYS:HE2	57:BY:100:ALA:HB2	1.94	0.49
58:BZ:130:PRO:C	58:BZ:132:ASN:N	2.64	0.49
1:CA:1096:C:H2'	1:CA:1097:C:C6	2.48	0.49
1:CA:1126:U:O2'	1:CA:1127:G:H5'	2.12	0.49
4:CD:57:ARG:NH2	5:CE:107:ARG:HD3	2.27	0.49
9:CI:104:ARG:O	9:CI:104:ARG:HG2	2.13	0.49
12:CL:18:VAL:O	12:CL:19:ARG:HB3	2.12	0.49
16:CP:13:HIS:C	16:CP:15:PRO:HD3	2.33	0.49
22:CV:76:8AN:O1P	22:CV:76:8AN:H4'	2.12	0.49
23:CX:15:A:H5''	23:CX:15:A:N3	2.26	0.49
24:CY:27:LYS:HE3	24:CY:31:ARG:NH2	2.28	0.49
35:DA:102:G:H4'	35:DA:102:G:OP1	2.12	0.49
35:DA:1591:G:C8	35:DA:1591:G:H5'	2.48	0.49
26:D1:45:ASN:ND2	35:DA:2090:G:H21	2.11	0.49
33:D8:39:LYS:HE3	35:DA:2365:G:O6	2.12	0.49
35:DA:2693:A:H2'	35:DA:2694:G:H8	1.78	0.49
35:DA:2772:C:H2'	35:DA:2773:C:C6	2.47	0.49
35:DA:643:A:N1	35:DA:2369:A:O2'	2.39	0.49
35:DA:862:G:H2'	35:DA:863:A:O4'	2.13	0.49
35:DA:986:C:O2'	35:DA:987:G:H5'	2.13	0.49
39:DE:134:ILE:C	39:DE:134:ILE:CD1	2.81	0.49
40:DF:65:TRP:HZ3	40:DF:73:ALA:O	1.96	0.49
41:DG:86:MET:N	41:DG:87:PRO:CD	2.66	0.49
42:DH:103:LEU:HB2	42:DH:123:PHE:CD1	2.48	0.49
42:DH:127:GLU:HB3	42:DH:128:PRO:HD2	1.95	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
48:DP:16:ARG:HD3	48:DP:18:ARG:N	2.24	0.49
48:DP:23:PRO:HD2	48:DP:33:ARG:NE	2.28	0.49
1:CA:1442(B):A:N7	52:DT:118:ARG:HD3	2.27	0.49
53:DU:8:VAL:HG23	53:DU:11:ARG:NH2	2.24	0.49
57:DY:95:LYS:CG	57:DY:100:ALA:HA	2.24	0.49
57:DY:29:GLU:N	57:DY:29:GLU:OE1	2.44	0.49
58:DZ:56:VAL:HA	58:DZ:70:LEU:HD23	1.94	0.49
1:AA:1030(D):A:C2'	1:AA:1031:G:H5'	2.42	0.49
1:AA:892:A:O2'	1:AA:1415:G:H4'	2.13	0.49
1:AA:1463:C:O2'	1:AA:1464:G:H5'	2.13	0.49
1:AA:977:A:C2'	1:AA:978:A:H5'	2.42	0.49
2:AB:73:THR:HG22	2:AB:95:GLN:O	2.12	0.49
3:AC:11:ARG:HG2	3:AC:11:ARG:HH11	1.77	0.49
5:AE:7:GLU:O	5:AE:8:GLU:HB3	2.12	0.49
9:AI:112:LYS:HD3	9:AI:112:LYS:C	2.32	0.49
20:AT:63:ILE:HG23	20:AT:72:LEU:HD13	1.93	0.49
26:B1:83:GLU:CD	26:B1:83:GLU:N	2.66	0.49
27:B2:53:LEU:O	27:B2:57:ILE:HG13	2.11	0.49
31:B6:17:LYS:HB2	31:B6:18:ARG:HH12	1.78	0.49
31:B6:25:LYS:HZ1	35:BA:2284:C:H41	1.58	0.49
35:BA:1493:C:C4	35:BA:2206:G:O2'	2.65	0.49
35:BA:1539:G:H2'	35:BA:1540:U:H5'	1.94	0.49
35:BA:1885:A:H3'	35:BA:1886:C:H6	1.78	0.49
35:BA:2033:A:H4'	35:BA:2034:U:OP1	2.12	0.49
35:BA:1889:A:O2'	35:BA:2087:G:H5'	2.12	0.49
35:BA:2659:G:C2	35:BA:2661:G:H8	2.30	0.49
35:BA:539:G:H2'	35:BA:540:C:C6	2.46	0.49
35:BA:882:G:H2'	35:BA:883:G:H8	1.78	0.49
36:BB:78:A:H2'	36:BB:79:C:O4'	2.12	0.49
38:BD:34:VAL:O	38:BD:64:ILE:CG2	2.57	0.49
41:BG:60:LEU:HD12	41:BG:68:PRO:HB3	1.94	0.49
45:BK:98:ARG:HH21	45:BK:139:VAL:HG22	1.77	0.49
45:BK:27:LEU:O	45:BK:32:ALA:HB2	2.12	0.49
45:BK:38:VAL:CG2	45:BK:39:LYS:H	2.24	0.49
51:BS:33:LYS:HB3	51:BS:34:HIS:CD2	2.48	0.49
57:BY:13:VAL:CG1	57:BY:28:LYS:HD3	2.41	0.49
57:BY:26:LYS:HG3	57:BY:27:VAL:HG23	1.94	0.49
57:BY:28:LYS:O	57:BY:29:GLU:C	2.51	0.49
57:BY:20:TYR:CE1	57:BY:42:VAL:HA	2.47	0.49
1:CA:1112:C:H1'	3:CC:179:ARG:CD	2.42	0.49
1:CA:1127:G:N2	1:CA:1147:C:H41	2.07	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:139:G:H2'	1:CA:140:A:H8	1.78	0.49
1:CA:583:A:H2'	1:CA:584:G:O4'	2.13	0.49
1:CA:599:C:H4'	8:CH:130:GLY:CA	2.43	0.49
4:CD:173:TRP:CE3	4:CD:193:ASP:HB3	2.48	0.49
7:CG:79:ARG:HG3	7:CG:83:ALA:O	2.13	0.49
9:CI:112:LYS:C	9:CI:112:LYS:HD3	2.33	0.49
11:CK:124:LYS:HZ3	11:CK:125:PHE:HE1	1.60	0.49
13:CM:65:LYS:NZ	13:CM:70:LEU:HD23	2.27	0.49
18:CR:50:ILE:CD1	18:CR:70:ILE:HG21	2.43	0.49
20:CT:89:ARG:HB2	20:CT:104:LEU:HD11	1.94	0.49
22:CV:50:U:H3	22:CV:64:A:N6	2.10	0.49
35:DA:2123:G:O2'	35:DA:2124:G:H5'	2.12	0.49
35:DA:719:C:O2'	35:DA:720:C:H5'	2.13	0.49
35:DA:923:C:H2'	35:DA:924:C:C6	2.48	0.49
36:DB:8:U:O2'	51:DS:40:ILE:HD13	2.12	0.49
38:DD:72:LYS:HE3	38:DD:101:GLU:OE2	2.12	0.49
35:DA:773:U:H4'	38:DD:47:GLY:HA3	1.94	0.49
39:DE:110:GLY:O	50:DR:2:ARG:HD3	2.13	0.49
40:DF:107:LYS:N	40:DF:107:LYS:HZ3	2.10	0.49
41:DG:144:ILE:HG22	41:DG:145:THR:N	2.27	0.49
41:DG:72:ARG:C	41:DG:87:PRO:HB2	2.33	0.49
42:DH:85:LYS:HD3	42:DH:133:VAL:HB	1.95	0.49
43:DI:88:ILE:C	43:DI:90:GLY:H	2.14	0.49
45:DK:27:LEU:O	45:DK:32:ALA:HB2	2.12	0.49
39:DE:111:ARG:CG	50:DR:2:ARG:HG2	2.42	0.49
52:DT:122:ASP:O	52:DT:125:ARG:HB2	2.13	0.49
52:DT:78:LEU:HB3	52:DT:79:HIS:CE1	2.48	0.49
54:DV:46:VAL:CG1	54:DV:47:VAL:H	2.26	0.49
58:DZ:98:MET:O	58:DZ:125:LEU:HA	2.13	0.49
1:AA:105:G:H2'	1:AA:106:C:C6	2.48	0.49
1:AA:115:G:H1'	1:AA:116:A:N7	2.28	0.49
1:AA:176:C:O2'	1:AA:177:C:H5'	2.13	0.49
1:AA:438:G:C4'	1:AA:439:A:OP1	2.59	0.49
10:AJ:33:GLN:N	10:AJ:75:ILE:HD11	2.26	0.49
15:AO:56:LEU:HD21	35:BA:715:G:C2	2.47	0.49
16:AP:21:VAL:HG12	16:AP:34:GLU:O	2.13	0.49
31:B6:16:CYS:O	31:B6:17:LYS:CB	2.60	0.49
31:B6:31:PRO:HD2	35:BA:2286:A:OP1	2.12	0.49
33:B8:53:PRO:CA	33:B8:56:GLU:HB3	2.36	0.49
35:BA:1171:G:H1	35:BA:1178:C:H42	1.61	0.49
35:BA:141:A:C8	35:BA:1408:C:O2'	2.35	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:1827:C:O2'	35:BA:1828:G:H5'	2.13	0.49
35:BA:2726:U:H6	47:BO:67:LYS:HZ3	1.61	0.49
35:BA:2762:G:C2'	35:BA:2763:G:H5'	2.43	0.49
35:BA:392:C:H5''	35:BA:409:C:H5''	1.95	0.49
35:BA:633:A:C2'	35:BA:634:C:H5'	2.42	0.49
36:BB:49:C:O2'	36:BB:50:G:H5'	2.13	0.49
38:BD:166:GLN:CA	38:BD:166:GLN:NE2	2.74	0.49
39:BE:33:VAL:HG23	39:BE:47:VAL:CG2	2.43	0.49
39:BE:38:THR:OG1	39:BE:41:LYS:HE2	2.13	0.49
45:BK:115:LEU:O	45:BK:116:ASN:CB	2.61	0.49
45:BK:52:ILE:HD13	45:BK:73:PRO:HD2	1.94	0.49
47:BO:89:ASN:O	47:BO:91:LEU:HD22	2.12	0.49
49:BQ:78:PRO:HB2	49:BQ:81:VAL:HG11	1.94	0.49
52:BT:41:ARG:HH21	52:BT:43:GLN:HG3	1.76	0.49
55:BW:65:LEU:HD22	55:BW:68:ARG:HD3	1.94	0.49
58:BZ:24:LEU:HD23	58:BZ:25:PRO:N	2.28	0.49
1:CA:115:G:H1'	1:CA:116:A:N7	2.27	0.49
1:CA:1288:A:H2'	1:CA:1289:A:H8	1.78	0.49
1:CA:302:G:N3	1:CA:556:C:H4'	2.28	0.49
1:CA:438:G:H2'	1:CA:494:U:O4	2.12	0.49
1:CA:656:C:H2'	1:CA:657:G:H8	1.78	0.49
1:CA:760:G:H2'	1:CA:761:G:H5'	1.95	0.49
1:CA:832:C:O2'	1:CA:833:U:H6	1.95	0.49
1:CA:865:A:H2	1:CA:918:A:H4'	1.78	0.49
2:CB:187:LEU:CD1	2:CB:205:ASP:HA	2.43	0.49
2:CB:28:PHE:HD1	2:CB:28:PHE:O	1.95	0.49
8:CH:91:ARG:HG2	8:CH:91:ARG:NH1	2.24	0.49
9:CI:20:ARG:HH11	9:CI:20:ARG:HG3	1.77	0.49
13:CM:43:THR:O	13:CM:44:ARG:HD3	2.13	0.49
18:CR:30:ASP:OD1	18:CR:32:ARG:HB2	2.12	0.49
19:CS:58:VAL:HG23	19:CS:58:VAL:O	2.12	0.49
19:CS:40:ILE:HG21	19:CS:62:ILE:CD1	2.43	0.49
24:CY:137:LEU:C	24:CY:137:LEU:HD23	2.32	0.49
26:D1:84:GLY:O	26:D1:85:LEU:C	2.51	0.49
27:D2:15:LYS:HG3	27:D2:15:LYS:O	2.13	0.49
31:D6:17:LYS:HB2	31:D6:18:ARG:HH12	1.77	0.49
35:DA:1042:G:H5'	35:DA:1043:C:OP2	2.13	0.49
35:DA:1602:U:H3'	35:DA:1603:A:C5'	2.43	0.49
35:DA:1603:A:H5'	35:DA:1603:A:H8	1.77	0.49
35:DA:1854:A:H2'	35:DA:1855:G:O4'	2.13	0.49
35:DA:2030:A:H4'	35:DA:2031:A:C8	2.47	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:2287:A:N6	35:DA:2344:U:N3	2.58	0.49
35:DA:2646:C:OP2	35:DA:2732:G:O2'	2.19	0.49
35:DA:2712:U:O2'	35:DA:2713:A:H5'	2.13	0.49
35:DA:27:G:N2	35:DA:512:G:C2'	2.76	0.49
35:DA:2855:C:O2'	35:DA:2856:C:H5'	2.13	0.49
35:DA:654(D):G:H22	35:DA:654(P):C:H42	1.60	0.49
39:DE:16:ARG:O	39:DE:18:ASP:N	2.43	0.49
41:DG:114:ILE:HG12	41:DG:140:ILE:HD12	1.94	0.49
42:DH:124:GLU:HG3	42:DH:132:ARG:HG3	1.93	0.49
36:DB:76:G:O3'	58:DZ:19:ARG:NH2	2.46	0.49
1:AA:1418:A:H2	35:BA:1948:G:N3	2.10	0.49
1:AA:926:G:C6	1:AA:1505:G:C6	3.01	0.49
1:AA:539:A:P	12:AL:114:LYS:HD2	2.53	0.49
1:AA:61:G:H2'	1:AA:62:U:O4'	2.13	0.49
1:AA:784:C:H2'	1:AA:785:G:H8	1.77	0.49
1:AA:986:A:H2'	1:AA:987:G:C8	2.48	0.49
2:AB:220:ASP:C	2:AB:222:ILE:H	2.16	0.49
4:AD:190:ASP:HB3	4:AD:193:ASP:OD2	2.13	0.49
6:AF:5:GLU:HG2	6:AF:62:TRP:HZ2	1.78	0.49
6:AF:4:TYR:HA	6:AF:91:VAL:O	2.12	0.49
10:AJ:29:ARG:HG2	10:AJ:29:ARG:NH1	2.27	0.49
14:AN:12:ARG:CB	14:AN:12:ARG:HH11	2.26	0.49
1:AA:1316:G:H5''	14:AN:17:LYS:HE3	1.93	0.49
18:AR:74:ARG:HA	18:AR:79:LEU:O	2.13	0.49
22:AW:49:C:H3'	22:AW:50:U:C6	2.46	0.49
22:AW:55:U:HO2'	22:AW:56:C:H5	1.56	0.49
27:B2:2:LYS:HA	27:B2:5:GLU:CD	2.33	0.49
30:B5:41:PRO:HG2	30:B5:44:THR:CG2	2.39	0.49
24:AY:49:SER:OG	35:BA:1067:A:H1'	2.13	0.49
35:BA:1076:C:H2'	35:BA:1077:A:C8	2.47	0.49
35:BA:1109:C:C2'	35:BA:1110:G:H5'	2.42	0.49
35:BA:1766:U:H2'	35:BA:1767:C:C6	2.48	0.49
35:BA:16:G:O2'	35:BA:17:G:H5'	2.13	0.49
33:B8:31:HIS:CE1	35:BA:2392:A:OP2	2.61	0.49
35:BA:276:A:O2'	35:BA:277:C:H5'	2.13	0.49
35:BA:642:G:H21	35:BA:646:A:H2	1.57	0.49
36:BB:7:G:H4'	51:BS:29:PHE:CD1	2.47	0.49
38:BD:125:ILE:O	38:BD:125:ILE:HG22	2.12	0.49
39:BE:16:ARG:O	39:BE:17:ASP:HB3	2.13	0.49
41:BG:170:ARG:HH21	41:BG:182:LYS:HZ1	1.60	0.49
41:BG:93:THR:HG22	41:BG:94:LEU:N	2.27	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:BH:94:TYR:H	42:BH:94:TYR:HD1	1.61	0.49
42:BH:94:TYR:CD1	42:BH:94:TYR:N	2.81	0.49
45:BK:8:VAL:CG2	45:BK:57:ILE:HB	2.43	0.49
48:BP:101:VAL:HG23	48:BP:102:ARG:N	2.28	0.49
48:BP:24:GLY:O	48:BP:25:SER:CB	2.60	0.49
49:BQ:47:ILE:CD1	49:BQ:70:PRO:HD3	2.43	0.49
50:BR:2:ARG:HB2	50:BR:5:LYS:CE	2.43	0.49
58:BZ:150:LEU:HD21	58:BZ:171:ILE:CD1	2.43	0.49
1:CA:1116:C:H2'	1:CA:1117:G:C5'	2.30	0.49
1:CA:438:G:C4'	1:CA:439:A:OP1	2.60	0.49
1:CA:977:A:C2'	1:CA:978:A:H5'	2.43	0.49
1:CA:984:C:H2'	1:CA:985:C:H6	1.75	0.49
3:CC:179:ARG:O	3:CC:206:GLU:HG3	2.13	0.49
4:CD:189:PRO:HB2	4:CD:194:LEU:HD21	1.94	0.49
6:CF:76:ALA:HB1	6:CF:80:ARG:NH2	2.28	0.49
19:CS:73:GLU:O	19:CS:73:GLU:HG2	2.12	0.49
22:CW:31:A:C2'	22:CW:32:U:H5'	2.43	0.49
24:CY:186:VAL:HG13	24:CY:305:ILE:HD13	1.94	0.49
24:CY:242:VAL:O	24:CY:243:ASN:C	2.51	0.49
26:D1:3:LYS:HG2	26:D1:4:VAL:N	2.28	0.49
32:D7:8:ASN:C	32:D7:8:ASN:HD22	2.16	0.49
33:D8:54:GLU:O	33:D8:58:ILE:HG12	2.12	0.49
35:DA:1048:A:N1	35:DA:1108:U:O4	2.45	0.49
35:DA:1429:G:H2'	35:DA:1430:C:C6	2.47	0.49
35:DA:1543:C:C3'	35:DA:1544:A:H5''	2.34	0.49
35:DA:1678:G:H22	35:DA:1989:G:H22	1.54	0.49
35:DA:2150:U:H2'	35:DA:2151:G:H8	1.76	0.49
35:DA:1493:C:C4	35:DA:2206:G:O2'	2.65	0.49
35:DA:2498:C:O2'	35:DA:2499:C:H5'	2.13	0.49
35:DA:271(K):U:H3	43:DI:50:ARG:NH1	2.11	0.49
35:DA:2732:G:C2'	35:DA:2733:A:H5'	2.43	0.49
35:DA:614:U:O2	35:DA:614:U:O4'	2.31	0.49
38:DD:131:LEU:HA	38:DD:190:TYR:CE2	2.48	0.49
38:DD:218:ARG:HG3	38:DD:218:ARG:HH11	1.78	0.49
39:DE:108:SER:O	39:DE:162:ALA:HA	2.12	0.49
39:DE:78:LEU:C	39:DE:79:ARG:HD2	2.33	0.49
40:DF:11:VAL:HG12	40:DF:12:LEU:N	2.27	0.49
42:DH:56:SER:HB2	42:DH:61:HIS:ND1	2.28	0.49
42:DH:72:ILE:O	42:DH:75:ALA:HB3	2.13	0.49
43:DI:118:LYS:CG	43:DI:119:PRO:HD2	2.42	0.49
45:DK:77:LEU:HB3	45:DK:107:ILE:HD13	1.95	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:DK:84:LEU:H	45:DK:84:LEU:CD2	2.25	0.49
45:DK:95:LYS:N	45:DK:95:LYS:CD	2.75	0.49
46:DN:1:MET:CG	46:DN:2:LYS:N	2.72	0.49
52:DT:67:SER:O	52:DT:68:TYR:CB	2.61	0.49
1:AA:1036:G:H3'	1:AA:1037:C:C6	2.48	0.49
1:AA:1065:U:O2'	1:AA:1066:C:P	2.71	0.49
1:AA:1298:C:N4	7:AG:114:ARG:HB3	2.27	0.49
1:AA:22:G:O2'	1:AA:23:C:H5'	2.12	0.49
1:AA:299:G:H2'	1:AA:300:A:C8	2.47	0.49
1:AA:335:C:H2'	1:AA:336:C:C6	2.48	0.49
1:AA:376:G:OP2	16:AP:67:THR:HG21	2.13	0.49
1:AA:681:C:O2'	1:AA:682:G:H5'	2.13	0.49
1:AA:797:C:O2'	1:AA:798:G:H5'	2.13	0.49
1:AA:818:G:H3'	1:AA:819:A:C5'	2.43	0.49
4:AD:8:VAL:HG11	4:AD:115:ARG:CZ	2.42	0.49
4:AD:19:LEU:HD12	4:AD:19:LEU:N	2.28	0.49
4:AD:20:TYR:HD1	4:AD:20:TYR:H	1.61	0.49
4:AD:57:ARG:NH2	5:AE:107:ARG:HD3	2.27	0.49
15:AO:85:LEU:HD23	15:AO:85:LEU:O	2.13	0.49
24:AY:312:ARG:HD2	24:AY:314:TYR:OH	2.12	0.49
25:B0:36:ILE:HD12	25:B0:37:LEU:N	2.28	0.49
35:BA:1040:C:HO2'	35:BA:1041:C:C5'	2.26	0.49
35:BA:2192:G:C3'	35:BA:2193:G:H5''	2.43	0.49
31:B6:19:ARG:HH21	35:BA:2401:U:H5''	1.77	0.49
35:BA:239:U:H2'	35:BA:240:G:O4'	2.13	0.49
35:BA:2562:U:H2'	35:BA:2563:U:H5'	1.95	0.49
32:B7:4:THR:HG22	35:BA:687:C:C1'	2.43	0.49
37:BC:30:VAL:HG11	37:BC:42:VAL:CG1	2.43	0.49
41:BG:93:THR:O	41:BG:94:LEU:HD23	2.13	0.49
47:BO:61:VAL:O	47:BO:61:VAL:HG13	2.13	0.49
49:BQ:21:THR:O	49:BQ:21:THR:HG22	2.13	0.49
49:BQ:62:GLY:HA3	49:BQ:109:VAL:CG2	2.43	0.49
51:BS:88:ASP:CG	51:BS:89:ARG:H	2.15	0.49
52:BT:16:ARG:NH2	52:BT:82:LEU:O	2.46	0.49
54:BV:23:GLU:O	54:BV:24:LYS:C	2.50	0.49
54:BV:5:VAL:HG21	54:BV:35:LEU:CG	2.42	0.49
57:BY:13:VAL:HG11	57:BY:28:LYS:CD	2.42	0.49
58:BZ:28:MET:O	58:BZ:34:ASN:HA	2.13	0.49
36:BB:103:G:H21	58:BZ:73:GLN:NE2	2.11	0.49
1:CA:1065:U:O2'	1:CA:1066:C:P	2.71	0.49
1:CA:1121:U:H2'	1:CA:1122:U:C6	2.48	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:1410:G:H2'	1:CA:1411:C:C6	2.48	0.49
1:CA:143:A:N1	1:CA:220:G:O6	2.46	0.49
1:CA:634:C:H2'	1:CA:635:G:H8	1.77	0.49
1:CA:926:G:C6	1:CA:1505:G:C5	3.01	0.49
2:CB:178:ARG:HH11	2:CB:178:ARG:CG	2.26	0.49
2:CB:208:ILE:HA	2:CB:211:ILE:CD1	2.42	0.49
2:CB:21:ARG:CZ	2:CB:39:ILE:HG12	2.43	0.49
3:CC:14:ILE:CG1	3:CC:15:THR:H	2.05	0.49
4:CD:8:VAL:HB	4:CD:21:LEU:HD12	1.94	0.49
1:CA:675:A:H1'	11:CK:116:HIS:CD2	2.48	0.49
16:CP:55:ARG:HE	16:CP:55:ARG:HA	1.77	0.49
19:CS:15:LEU:O	19:CS:19:VAL:HG23	2.13	0.49
20:CT:42:GLN:HE21	20:CT:42:GLN:HA	1.76	0.49
22:CW:56:C:C2	35:DA:2169:A:H2	2.31	0.49
24:CY:118:LEU:HA	24:CY:209:GLU:O	2.12	0.49
24:CY:242:VAL:HA	24:CY:245:THR:CG2	2.43	0.49
32:D7:43:THR:HG22	32:D7:44:PRO:O	2.13	0.49
35:DA:1386:C:H2'	35:DA:1387:C:C6	2.48	0.49
35:DA:252:G:OP2	48:DP:50:ARG:NH1	2.36	0.49
35:DA:535:C:O2'	35:DA:536:A:H5'	2.13	0.49
35:DA:843:G:O2'	35:DA:844:C:H5'	2.12	0.49
38:DD:39:LYS:NZ	38:DD:60:ARG:HH11	2.11	0.49
41:DG:143:GLU:O	41:DG:144:ILE:HD13	2.12	0.49
41:DG:76:SER:HB3	41:DG:83:ARG:CG	2.42	0.49
42:DH:24:VAL:HG12	42:DH:35:VAL:O	2.13	0.49
42:DH:54:ARG:HH11	42:DH:65:HIS:CD2	2.31	0.49
45:DK:55:VAL:CG2	45:DK:69:THR:HG23	2.42	0.49
47:DO:65:THR:OG1	47:DO:69:ILE:HD11	2.13	0.49
48:DP:34:GLY:O	48:DP:35:HIS:CG	2.65	0.49
49:DQ:21:THR:HG21	49:DQ:101:ARG:HB2	1.94	0.49
35:DA:870:A:P	49:DQ:6:ARG:HH21	2.35	0.49
58:DZ:137:ILE:CD1	58:DZ:158:PRO:HG2	2.43	0.49
1:AA:1014:A:H2'	1:AA:1015:A:C8	2.48	0.48
1:AA:1084:G:H5'	1:AA:1102:A:OP2	2.13	0.48
1:AA:1357:A:H61	1:AA:1363(A):A:H2	1.60	0.48
1:AA:781:A:H4'	1:AA:1522:U:O2'	2.13	0.48
2:AB:187:LEU:HD13	2:AB:187:LEU:O	2.13	0.48
2:AB:54:THR:HG21	2:AB:201:ILE:CD1	2.41	0.48
3:AC:64:VAL:O	3:AC:100:ALA:HB3	2.13	0.48
3:AC:76:VAL:HG23	3:AC:77:ILE:N	2.28	0.48
4:AD:20:TYR:HA	4:AD:26:CYS:SG	2.52	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AD:28:SER:HB3	4:AD:30:LYS:HE2	1.95	0.48
5:AE:91:LEU:N	5:AE:91:LEU:HD22	2.28	0.48
7:AG:23:VAL:O	7:AG:23:VAL:HG12	2.13	0.48
9:AI:104:ARG:HG2	9:AI:104:ARG:O	2.13	0.48
1:AA:1128:C:C4'	9:AI:16:ARG:HH12	2.25	0.48
9:AI:4:TYR:O	9:AI:18:PHE:HA	2.13	0.48
9:AI:20:ARG:HG3	9:AI:20:ARG:HH11	1.78	0.48
9:AI:75:ASP:HA	9:AI:78:LYS:NZ	2.29	0.48
12:AL:58:VAL:O	12:AL:65:GLU:HA	2.12	0.48
13:AM:120:LYS:HE2	13:AM:122:LYS:NZ	2.28	0.48
14:AN:29:ARG:HG2	14:AN:40:CYS:CB	2.43	0.48
16:AP:17:TYR:H	16:AP:17:TYR:HD1	1.61	0.48
13:AM:125:ARG:HD2	24:AY:165:ASP:HA	1.94	0.48
24:AY:253:HIS:HD2	24:AY:256:THR:OG1	1.95	0.48
24:AY:83:GLU:HG3	24:AY:83:GLU:O	2.13	0.48
30:B5:4:HIS:HB3	30:B5:5:PRO:HD2	1.91	0.48
31:B6:16:CYS:SG	31:B6:48:VAL:HG22	2.53	0.48
32:B7:8:ASN:C	32:B7:8:ASN:ND2	2.66	0.48
35:BA:2553:G:H2'	35:BA:2554:U:O4'	2.12	0.48
35:BA:893:C:H2'	35:BA:894:C:C6	2.45	0.48
38:BD:3:VAL:HG23	38:BD:200:ASP:OD2	2.12	0.48
40:BF:20:LEU:O	40:BF:21:ALA:O	2.30	0.48
48:BP:107:LYS:C	48:BP:109:GLY:H	2.16	0.48
35:BA:832:G:O2'	48:BP:52:GLU:HB3	2.12	0.48
51:BS:41:ASP:OD2	51:BS:44:LYS:HD3	2.12	0.48
52:BT:134:GLU:O	52:BT:135:ALA:HB3	2.12	0.48
1:CA:1104:G:H2'	1:CA:1105:A:H8	1.77	0.48
1:CA:677:U:H3	1:CA:713:G:H22	1.59	0.48
2:CB:65:GLY:O	2:CB:67:THR:N	2.46	0.48
3:CC:77:ILE:HA	3:CC:84:ILE:HB	1.95	0.48
9:CI:95:LYS:HD3	9:CI:95:LYS:C	2.33	0.48
20:CT:26:ASN:O	20:CT:30:LYS:HB2	2.13	0.48
22:CW:46:G:H3'	22:CW:46:G:OP1	2.13	0.48
24:CY:27:LYS:C	24:CY:29:LEU:H	2.16	0.48
33:D8:52:LYS:H	33:D8:53:PRO:HD2	1.74	0.48
35:DA:1048:A:N6	35:DA:1053:C:H42	2.11	0.48
35:DA:1076:C:H2'	35:DA:1077:A:C8	2.48	0.48
35:DA:1961:C:O2'	35:DA:1962:C:H5'	2.12	0.48
35:DA:528:A:C2	35:DA:2043:C:C5'	2.96	0.48
35:DA:2172:U:H3'	35:DA:2173:A:C8	2.48	0.48
35:DA:2192:G:C3'	35:DA:2193:G:H5''	2.43	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:2464:C:O2'	35:DA:2465:C:O5'	2.31	0.48
35:DA:2646:C:H2'	35:DA:2647:U:O4'	2.13	0.48
35:DA:652:C:O2'	35:DA:653:A:O5'	2.31	0.48
39:DE:61:ARG:HB3	39:DE:62:PRO:HD3	1.94	0.48
39:DE:6:GLY:HA2	39:DE:51:PHE:CZ	2.48	0.48
42:DH:125:VAL:HG12	42:DH:127:GLU:O	2.12	0.48
42:DH:94:TYR:N	42:DH:94:TYR:CD1	2.81	0.48
48:DP:16:ARG:CZ	48:DP:16:ARG:HB2	2.43	0.48
48:DP:23:PRO:CB	48:DP:33:ARG:NE	2.72	0.48
52:DT:40:THR:O	52:DT:41:ARG:CB	2.60	0.48
52:DT:29:ARG:CD	52:DT:86:ILE:HG22	2.43	0.48
54:DV:91:TYR:C	54:DV:91:TYR:CD1	2.87	0.48
30:D5:25:LEU:HD12	55:DW:23:LEU:HD22	1.95	0.48
58:DZ:18:LEU:HD22	58:DZ:23:LYS:HD2	1.94	0.48
1:AA:1479:C:O2'	1:AA:1480:G:H5'	2.13	0.48
1:AA:164:U:O2'	1:AA:165:C:H5'	2.13	0.48
1:AA:171:A:H2'	1:AA:172:A:C8	2.49	0.48
1:AA:357:G:OP1	1:AA:367:U:H5''	2.13	0.48
1:AA:963:G:H21	10:AJ:55:LYS:HD2	1.77	0.48
1:AA:967:C:H2'	1:AA:968:A:C8	2.48	0.48
3:AC:71:ALA:CB	3:AC:109:PRO:HB3	2.43	0.48
5:AE:102:ALA:HB2	5:AE:120:THR:OG1	2.13	0.48
6:AF:39:LYS:HG2	6:AF:40:VAL:H	1.77	0.48
7:AG:79:ARG:NH1	22:AW:33:U:O3'	2.45	0.48
12:AL:102:ARG:CG	12:AL:102:ARG:HH11	2.26	0.48
13:AM:67:GLU:CG	13:AM:68:GLY:N	2.76	0.48
18:AR:25:THR:HG22	18:AR:42:ARG:HH12	1.77	0.48
22:AW:15:G:N2	22:AW:60:U:C5	2.81	0.48
1:AA:519:C:OP2	24:AY:308:GLY:HA2	2.12	0.48
24:AY:332:ASP:HB2	24:AY:335:ASN:HB3	1.94	0.48
33:B8:32:LEU:HB2	33:B8:36:LYS:NZ	2.27	0.48
34:B9:35:ARG:HD3	35:BA:2742:C:OP1	2.12	0.48
35:BA:1603:A:H5'	35:BA:1603:A:C8	2.48	0.48
35:BA:1607:C:H4'	35:BA:1608:A:O5'	2.13	0.48
35:BA:476:G:H4'	35:BA:502:A:N1	2.28	0.48
35:BA:927:G:H5'	35:BA:928:G:OP2	2.13	0.48
38:BD:48:ARG:HH11	38:BD:48:ARG:HG3	1.78	0.48
42:BH:84:SER:O	42:BH:133:VAL:O	2.31	0.48
43:BI:38:LEU:HB3	43:BI:40:THR:HG23	1.93	0.48
46:BN:58:ASP:C	46:BN:60:ILE:N	2.64	0.48
48:BP:146:VAL:CG2	48:BP:147:LEU:H	1.97	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
49:BQ:21:THR:HG21	49:BQ:101:ARG:HB2	1.95	0.48
52:BT:112:ARG:HH21	52:BT:113:LYS:HE2	1.77	0.48
52:BT:27:THR:OG1	52:BT:28:VAL:N	2.45	0.48
52:BT:29:ARG:CD	52:BT:86:ILE:HG22	2.43	0.48
57:BY:13:VAL:HG22	57:BY:73:ARG:C	2.33	0.48
58:BZ:73:GLN:O	58:BZ:86:VAL:HA	2.13	0.48
1:CA:279:A:OP2	17:CQ:95:TYR:OH	2.31	0.48
1:CA:521:G:O2'	1:CA:522:C:H5'	2.12	0.48
1:CA:724:G:O2'	1:CA:725:G:H5'	2.13	0.48
6:CF:92:LYS:CB	6:CF:92:LYS:NZ	2.76	0.48
11:CK:105:VAL:HB	11:CK:108:ILE:HD11	1.95	0.48
13:CM:90:LEU:O	13:CM:92:HIS:N	2.46	0.48
14:CN:9:LYS:HG3	14:CN:12:ARG:HH22	1.78	0.48
19:CS:29:ARG:CD	19:CS:30:LEU:N	2.73	0.48
20:CT:29:LYS:O	20:CT:33:ILE:HG13	2.12	0.48
24:CY:118:LEU:HD22	24:CY:208:VAL:HG12	1.95	0.48
28:D3:11:SER:OG	28:D3:13:ILE:HG13	2.13	0.48
32:D7:4:THR:HG22	35:DA:687:C:C1'	2.41	0.48
33:D8:36:LYS:HB2	33:D8:41:ILE:HD11	1.96	0.48
35:DA:1097:U:C2'	35:DA:1098:A:H5'	2.43	0.48
35:DA:1203:G:H3'	35:DA:1204:A:H5''	1.94	0.48
35:DA:1705:G:O2'	35:DA:1706:U:H5'	2.13	0.48
35:DA:1810:A:H2'	35:DA:1811:G:O4'	2.13	0.48
35:DA:2149:G:H2'	35:DA:2150:U:O4'	2.13	0.48
35:DA:1786:A:C2	35:DA:2606:C:H1'	2.46	0.48
35:DA:38:A:H2'	35:DA:39:C:C6	2.48	0.48
35:DA:71:A:C8	35:DA:71:A:H5'	2.49	0.48
38:DD:267:SER:HA	38:DD:270:ILE:HG13	1.95	0.48
38:DD:25:THR:O	38:DD:27:THR:HG22	2.14	0.48
39:DE:34:VAL:HG22	39:DE:34:VAL:O	2.13	0.48
39:DE:98:PRO:HG3	39:DE:174:ASP:HA	1.95	0.48
26:D1:71:TYR:CD1	43:DI:27:ARG:HD2	2.48	0.48
43:DI:60:GLU:HA	43:DI:60:GLU:OE2	2.14	0.48
43:DI:74:ASN:O	43:DI:75:LEU:HD12	2.13	0.48
51:DS:32:LEU:O	51:DS:62:LYS:HE2	2.13	0.48
51:DS:97:ARG:HH11	51:DS:97:ARG:HG2	1.78	0.48
35:DA:993:G:OP1	53:DU:50:ARG:NH2	2.46	0.48
53:DU:90:VAL:HG13	54:DV:39:LEU:CD2	2.43	0.48
56:DX:56:THR:HG22	56:DX:79:ALA:HB2	1.95	0.48
58:DZ:28:MET:HE3	58:DZ:37:VAL:HG11	1.94	0.48
58:DZ:49:ARG:NH1	58:DZ:49:ARG:CG	2.72	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1194:U:H5'	5:AE:22:GLY:O	2.13	0.48
1:AA:1221:G:O2'	1:AA:1222:G:H5'	2.13	0.48
3:AC:82:GLU:O	3:AC:86:VAL:HG13	2.13	0.48
4:AD:189:PRO:HB2	4:AD:194:LEU:HD21	1.94	0.48
7:AG:25:ALA:HA	7:AG:28:ASN:HD22	1.78	0.48
3:AC:29:TYR:HE1	10:AJ:65:LEU:HD21	1.79	0.48
11:AK:24:SER:O	11:AK:27:ASN:N	2.43	0.48
12:AL:45:PRO:HD3	12:AL:51:ALA:O	2.13	0.48
13:AM:125:ARG:HA	24:AY:159:GLY:C	2.33	0.48
13:AM:19:LEU:CA	13:AM:22:ILE:HD13	2.42	0.48
6:AF:89:MET:SD	18:AR:76:LEU:HD21	2.53	0.48
20:AT:50:GLU:HA	20:AT:100:ILE:CG2	2.43	0.48
22:AV:59:U:O2'	22:AV:60:U:H5'	2.12	0.48
24:AY:226:GLU:OE2	24:AY:255:PRO:HG3	2.13	0.48
24:AY:29:LEU:O	24:AY:29:LEU:HD13	2.13	0.48
27:B2:4:SER:HA	27:B2:7:ARG:HG2	1.95	0.48
28:B3:7:LYS:HE3	28:B3:32:GLN:O	2.14	0.48
35:BA:1009:A:O4'	53:BU:59:ARG:HD2	2.14	0.48
35:BA:1203:G:H3'	35:BA:1204:A:H5''	1.96	0.48
35:BA:1227:G:OP1	53:BU:13:LYS:CD	2.61	0.48
35:BA:1231:G:H2'	35:BA:1232:G:C8	2.49	0.48
35:BA:1412:A:H2'	35:BA:1413:G:C8	2.48	0.48
35:BA:1688:U:H5'	35:BA:1689:A:OP1	2.12	0.48
35:BA:1947:C:C3'	35:BA:1948:G:H5''	2.43	0.48
35:BA:2206:G:H5''	35:BA:2206:G:N3	2.28	0.48
31:B6:31:PRO:HB3	35:BA:2287:A:OP1	2.13	0.48
35:BA:2514:U:H2'	35:BA:2515:C:H6	1.78	0.48
35:BA:2646:C:H2'	35:BA:2647:U:O4'	2.13	0.48
35:BA:597:U:H2'	35:BA:598:G:C8	2.48	0.48
35:BA:888:C:H2'	35:BA:889:C:H5'	1.95	0.48
39:BE:111:ARG:HB2	39:BE:160:TYR:O	2.14	0.48
42:BH:54:ARG:HH11	42:BH:65:HIS:CD2	2.32	0.48
42:BH:85:LYS:HE2	42:BH:86:GLU:N	2.28	0.48
45:BK:18:THR:H	45:BK:19:PRO:HD2	1.77	0.48
24:AY:30:GLU:HB2	45:BK:20:ALA:HB2	1.94	0.48
47:BO:13:ASN:O	47:BO:15:GLY:N	2.46	0.48
48:BP:7:ARG:O	48:BP:10:PRO:HD3	2.13	0.48
51:BS:83:LYS:CE	51:BS:84:GLN:HE21	2.26	0.48
52:BT:78:LEU:HB3	52:BT:79:HIS:CE1	2.48	0.48
57:BY:97:ARG:HB2	57:BY:97:ARG:CZ	2.41	0.48
1:CA:1307:U:H2'	1:CA:1308:U:H6	1.78	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:298:A:H2'	1:CA:299:G:O4'	2.13	0.48
1:CA:328:C:O2'	1:CA:329:A:P	2.71	0.48
1:CA:411:A:H2'	1:CA:412:A:H4'	1.94	0.48
2:CB:93:VAL:HG11	2:CB:97:TRP:CD1	2.47	0.48
4:CD:12:CYS:SG	4:CD:19:LEU:O	2.72	0.48
4:CD:2:GLY:O	4:CD:3:ARG:O	2.31	0.48
31:D6:16:CYS:H	31:D6:49:HIS:HA	1.79	0.48
35:DA:1283:G:N2	35:DA:1285:G:H3'	2.28	0.48
35:DA:2134:A:H2	35:DA:2159:G:H1'	1.77	0.48
35:DA:2391:G:O6	35:DA:2425:A:H8	1.95	0.48
35:DA:2688:U:C5	35:DA:2720:U:OP2	2.66	0.48
35:DA:2783:G:H2'	35:DA:2784:C:C6	2.48	0.48
35:DA:2810:A:H1'	39:DE:61:ARG:NH1	2.29	0.48
35:DA:330:A:O2'	35:DA:331:A:C8	2.66	0.48
35:DA:903:C:O2'	35:DA:904:C:H5''	2.14	0.48
38:DD:108:PRO:HG2	38:DD:111:LEU:HD23	1.95	0.48
39:DE:119:ARG:HD2	39:DE:120:TRP:NE1	2.27	0.48
40:DF:125:LEU:H	40:DF:125:LEU:CD2	2.22	0.48
40:DF:199:TRP:O	40:DF:203:GLN:HG2	2.12	0.48
43:DI:29:TYR:HD2	43:DI:30:LEU:HD23	1.79	0.48
45:DK:52:ILE:HD13	45:DK:73:PRO:HD2	1.95	0.48
51:DS:97:ARG:C	51:DS:97:ARG:NE	2.67	0.48
56:DX:34:ALA:HB1	56:DX:39:ILE:CD1	2.43	0.48
1:AA:1096:C:H2'	1:AA:1097:C:C6	2.48	0.48
1:AA:1121:U:H2'	1:AA:1122:U:C6	2.47	0.48
1:AA:1457:G:H2'	1:AA:1458:G:H8	1.78	0.48
1:AA:442:C:H2'	1:AA:443:C:C6	2.48	0.48
1:AA:495:A:H4'	1:AA:496:A:OP1	2.14	0.48
1:AA:719:C:N4	18:AR:71:LYS:HE2	2.27	0.48
1:AA:805:C:O2'	1:AA:806:C:H5'	2.13	0.48
2:AB:71:VAL:O	2:AB:164:VAL:HG13	2.14	0.48
4:AD:33:MET:O	4:AD:35:ARG:N	2.42	0.48
8:AH:12:ARG:HH12	8:AH:27:PRO:HD3	1.78	0.48
10:AJ:63:PHE:HB3	14:AN:58:LYS:HA	1.94	0.48
16:AP:7:ALA:O	16:AP:17:TYR:HA	2.12	0.48
24:AY:325:ARG:HD3	24:AY:351:TRP:CZ3	2.47	0.48
26:B1:44:PRO:HA	35:BA:396:G:O3'	2.14	0.48
29:B4:26:SER:HB2	41:BG:105:LYS:HZ2	1.79	0.48
30:B5:55:ARG:HG2	50:BR:33:ARG:HD3	1.96	0.48
35:BA:1717:G:C3'	35:BA:1718:G:H5''	2.43	0.48
35:BA:2304:G:O2'	41:BG:156:ASP:HB3	2.14	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:BD:31:LYS:HB3	38:BD:34:VAL:CG2	2.44	0.48
41:BG:170:ARG:NE	41:BG:174:GLU:OE1	2.41	0.48
43:BI:8:PRO:HA	43:BI:14:ASP:H	1.78	0.48
33:B8:7:HIS:CD2	48:BP:50:ARG:HD3	2.48	0.48
54:BV:76:LYS:HB2	54:BV:81:TYR:HB3	1.96	0.48
55:BW:18:ARG:NH1	55:BW:76:VAL:HG13	2.28	0.48
1:CA:1060:C:H5''	10:CJ:51:ARG:HB3	1.94	0.48
1:CA:1469:G:O2'	1:CA:1470:G:H5'	2.13	0.48
1:CA:189(I):G:O2'	1:CA:189(J):G:H5'	2.13	0.48
1:CA:797:C:O2'	1:CA:798:G:H5'	2.13	0.48
1:CA:818:G:H3'	1:CA:819:A:C5'	2.43	0.48
3:CC:44:GLU:HA	3:CC:52:LEU:HD11	1.95	0.48
10:CJ:16:LEU:O	10:CJ:16:LEU:HD13	2.13	0.48
10:CJ:3:LYS:HZ3	10:CJ:77:PRO:HD2	1.79	0.48
11:CK:125:PHE:CD1	11:CK:125:PHE:N	2.79	0.48
11:CK:43:SER:HB3	11:CK:68:ALA:HB2	1.95	0.48
12:CL:33:ARG:HA	12:CL:33:ARG:HE	1.78	0.48
16:CP:20:VAL:HG22	16:CP:21:VAL:N	2.29	0.48
22:CW:52:G:N3	22:CW:63:G:O6	2.45	0.48
24:CY:112:ALA:O	24:CY:177:TYR:HB3	2.13	0.48
24:CY:123:GLY:HA3	24:CY:305:ILE:CG2	2.43	0.48
26:D1:50:ARG:NH2	35:DA:2199:A:H5'	2.27	0.48
30:D5:47:PRO:C	30:D5:48:GLU:HG2	2.34	0.48
31:D6:31:PRO:HD2	35:DA:2286:A:OP1	2.14	0.48
35:DA:102:G:OP1	35:DA:102:G:C4'	2.62	0.48
35:DA:1040:C:HO2'	35:DA:1041:C:C5'	2.26	0.48
35:DA:1109:C:C2'	35:DA:1110:G:H5'	2.44	0.48
35:DA:1221:C:H6	35:DA:1221:C:H5'	1.77	0.48
35:DA:1445:A:O2'	35:DA:1445(A):C:H5'	2.13	0.48
35:DA:1539:G:C2'	35:DA:1540:U:H5'	2.42	0.48
31:D6:19:ARG:HH21	35:DA:2401:U:H5''	1.78	0.48
35:DA:2842:G:O2'	35:DA:2843:G:H5'	2.13	0.48
35:DA:623:G:H2'	35:DA:624:C:C6	2.48	0.48
38:DD:181:GLU:CA	38:DD:272:ALA:HB3	2.40	0.48
39:DE:101:ARG:HB2	39:DE:201:THR:CG2	2.41	0.48
40:DF:4:VAL:HG11	40:DF:17:ARG:HD3	1.95	0.48
41:DG:117:PHE:HE2	41:DG:120:LEU:HD23	1.79	0.48
41:DG:10:LYS:O	41:DG:14:GLU:HB3	2.13	0.48
42:DH:158:HIS:O	42:DH:159:GLU:HB2	2.13	0.48
43:DI:7:GLU:O	43:DI:8:PRO:O	2.32	0.48
48:DP:57:THR:OG1	48:DP:58:THR:N	2.41	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
56:DX:34:ALA:HB1	56:DX:39:ILE:HD13	1.95	0.48
56:DX:39:ILE:O	56:DX:43:VAL:HG23	2.14	0.48
1:AA:1019:C:C2'	1:AA:1020:U:H5'	2.44	0.48
1:AA:1127:G:H1	1:AA:1145:C:N4	2.10	0.48
1:AA:189(J):G:O2'	1:AA:189(K):U:H5'	2.14	0.48
1:AA:336:C:O2'	1:AA:337:C:H5'	2.14	0.48
1:AA:411:A:H2'	1:AA:412:A:H4'	1.94	0.48
2:AB:180:LEU:O	2:AB:182:ILE:N	2.46	0.48
2:AB:80:ILE:N	2:AB:80:ILE:HD12	2.17	0.48
5:AE:36:ASP:O	5:AE:37:ARG:HB2	2.13	0.48
5:AE:39:GLY:HA2	5:AE:69:VAL:HB	1.94	0.48
9:AI:15:ALA:HB2	9:AI:65:VAL:CG2	2.40	0.48
11:AK:34:ASP:HB2	11:AK:35:PRO:CD	2.44	0.48
12:AL:60:LEU:HD23	12:AL:64:TYR:HB2	1.96	0.48
19:AS:15:LEU:O	19:AS:19:VAL:HG23	2.13	0.48
19:AS:40:ILE:HG21	19:AS:62:ILE:CD1	2.43	0.48
22:AW:49:C:C2'	22:AW:50:U:H5'	2.43	0.48
24:AY:320:TYR:HA	24:AY:333:PRO:HD3	1.96	0.48
35:BA:1045:A:H4'	35:BA:1047:G:O4'	2.14	0.48
35:BA:1386:C:H2'	35:BA:1387:C:C6	2.48	0.48
35:BA:1472:A:O2'	35:BA:1473:G:H5'	2.13	0.48
35:BA:2302:G:H1'	41:BG:128:ARG:CG	2.43	0.48
35:BA:2287:A:C2	35:BA:2346:A:C2	3.01	0.48
35:BA:234:C:O2'	35:BA:235:U:H5'	2.14	0.48
33:B8:3:LYS:HE2	35:BA:242:G:O5'	2.13	0.48
35:BA:2514:U:H2'	35:BA:2515:C:C6	2.49	0.48
35:BA:848:G:H8	35:BA:848:G:H5'	1.77	0.48
40:BF:125:LEU:HA	40:BF:194:MET:O	2.13	0.48
41:BG:142:PRO:C	41:BG:144:ILE:H	2.17	0.48
42:BH:125:VAL:HG12	42:BH:127:GLU:O	2.14	0.48
42:BH:136:ILE:N	42:BH:136:ILE:CD1	2.74	0.48
48:BP:114:ILE:O	48:BP:115:LEU:HB3	2.13	0.48
50:BR:84:ALA:HB3	50:BR:85:PRO:HD3	1.96	0.48
51:BS:101:LEU:O	51:BS:101:LEU:HD12	2.13	0.48
52:BT:136:GLN:HG3	52:BT:137:LYS:N	2.29	0.48
52:BT:28:VAL:CG1	52:BT:46:GLU:HA	2.38	0.48
54:BV:40:LEU:HD13	54:BV:41:GLY:N	2.28	0.48
30:B5:25:LEU:HD12	55:BW:23:LEU:HD22	1.95	0.48
58:BZ:130:PRO:C	58:BZ:132:ASN:H	2.16	0.48
1:CA:1057:G:H5''	3:CC:154:SER:OG	2.12	0.48
1:CA:1104:G:O2'	1:CA:1105:A:H5'	2.14	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:501:C:H2'	1:CA:502:G:H8	1.78	0.48
2:CB:71:VAL:O	2:CB:164:VAL:HG13	2.12	0.48
5:CE:150:ARG:HA	5:CE:153:LYS:CE	2.42	0.48
6:CF:7:ASN:O	6:CF:8:ILE:HG13	2.14	0.48
13:CM:112:GLY:HA2	13:CM:113:PRO:CG	2.43	0.48
10:CJ:61:GLU:CG	14:CN:58:LYS:HE2	2.43	0.48
15:CO:61:GLY:O	15:CO:64:ARG:HB3	2.13	0.48
18:CR:74:ARG:HA	18:CR:79:LEU:O	2.13	0.48
22:CW:39:U:H3'	22:CW:40:C:C5'	2.44	0.48
24:CY:30:GLU:HB2	45:DK:20:ALA:CB	2.40	0.48
24:CY:30:GLU:OE2	24:CY:31:ARG:HB2	2.13	0.48
26:D1:50:ARG:HB3	26:D1:57:GLU:OE2	2.13	0.48
31:D6:40:CYS:HA	31:D6:46:HIS:ND1	2.28	0.48
35:DA:1210:A:H5''	35:DA:1212:G:O4'	2.13	0.48
35:DA:2762:G:C2'	35:DA:2763:G:H5'	2.44	0.48
35:DA:498:G:O2'	35:DA:499:U:H5'	2.13	0.48
35:DA:903:C:C2'	35:DA:904:C:C5'	2.85	0.48
39:DE:24:THR:CG2	39:DE:184:VAL:HG23	2.42	0.48
40:DF:133:ASN:ND2	40:DF:133:ASN:H	2.12	0.48
42:DH:26:VAL:HG21	42:DH:75:ALA:HB3	1.95	0.48
46:DN:128:HIS:HD2	46:DN:130:HIS:N	2.08	0.48
46:DN:34:LEU:HD12	46:DN:34:LEU:HA	1.69	0.48
48:DP:41:ARG:NE	48:DP:41:ARG:HA	2.28	0.48
49:DQ:10:ARG:HB2	49:DQ:10:ARG:HH11	1.78	0.48
49:DQ:35:VAL:HG11	49:DQ:130:LYS:CE	2.44	0.48
54:DV:19:LYS:HZ3	54:DV:20:LEU:H	1.58	0.48
57:DY:31:LEU:CD2	57:DY:31:LEU:N	2.77	0.48
1:AA:151:A:H2'	1:AA:152:A:H5'	1.94	0.48
1:AA:300:A:H1'	1:AA:565:U:O2	2.12	0.48
1:AA:714:G:H2'	1:AA:715:A:C8	2.49	0.48
6:AF:7:ASN:O	6:AF:8:ILE:HG13	2.13	0.48
9:AI:118:LYS:NZ	9:AI:118:LYS:HB3	2.29	0.48
11:AK:116:HIS:O	11:AK:117:ASN:HB2	2.14	0.48
16:AP:55:ARG:O	16:AP:58:TYR:HB3	2.13	0.48
18:AR:43:PHE:O	18:AR:51:LEU:HD12	2.13	0.48
19:AS:73:GLU:HG2	19:AS:73:GLU:O	2.13	0.48
22:AV:18:G:H4'	22:AV:60:U:O2	2.12	0.48
22:AV:41:C:H2'	22:AV:41:C:O2	2.13	0.48
24:AY:233:ARG:HD3	35:BA:2573:C:H42	1.78	0.48
24:AY:182:PRO:CG	24:AY:345:ILE:HG23	2.33	0.48
35:BA:1097:U:C2'	35:BA:1098:A:H5'	2.43	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:1283:G:N2	35:BA:1285:G:H3'	2.28	0.48
35:BA:1539:G:C2'	35:BA:1540:U:H5'	2.43	0.48
35:BA:1882:C:H5'	35:BA:1883:G:OP2	2.13	0.48
35:BA:1914:C:O4'	35:BA:1914:C:O2	2.32	0.48
35:BA:2029:G:H2'	35:BA:2031:A:OP2	2.14	0.48
35:BA:2172:U:H3'	35:BA:2173:A:H8	1.78	0.48
35:BA:2713:A:H3'	35:BA:2714:G:H5'	1.93	0.48
35:BA:271(E):U:H2'	35:BA:271(F):C:H6	1.78	0.48
35:BA:2772:C:H2'	35:BA:2773:C:C6	2.48	0.48
35:BA:2830:G:N3	35:BA:2883:A:H2	2.11	0.48
37:BC:23:ILE:HB	37:BC:191:ARG:HH12	1.78	0.48
37:BC:51:ASP:HB3	37:BC:54:ARG:CG	2.43	0.48
47:BO:49:ARG:HA	47:BO:53:LYS:NZ	2.29	0.48
48:BP:41:ARG:CA	48:BP:41:ARG:NE	2.77	0.48
52:BT:41:ARG:O	52:BT:42:ILE:O	2.31	0.48
57:BY:7:VAL:CG2	57:BY:8:LYS:NZ	2.76	0.48
1:CA:1028:C:H2'	1:CA:1029:C:C5'	2.36	0.48
1:CA:167:G:O2'	1:CA:168:G:H5'	2.13	0.48
1:CA:223:U:H6	1:CA:223:U:O5'	1.97	0.48
1:CA:299:G:H2'	1:CA:300:A:C8	2.48	0.48
1:CA:437:U:H2'	1:CA:438:G:C8	2.48	0.48
1:CA:511:C:H1'	4:CD:43:HIS:HE2	1.78	0.48
1:CA:724:G:H2'	1:CA:725:G:H8	1.77	0.48
1:CA:784:C:H2'	1:CA:785:G:H8	1.77	0.48
1:CA:954:G:H2'	1:CA:955:U:C6	2.49	0.48
2:CB:20:GLU:CG	2:CB:189:ASP:OD2	2.62	0.48
2:CB:78:GLN:O	2:CB:81:VAL:HB	2.14	0.48
3:CC:138:VAL:HG13	3:CC:149:ALA:CB	2.43	0.48
3:CC:71:ALA:CB	3:CC:109:PRO:HB3	2.44	0.48
4:CD:129:ASN:ND2	4:CD:145:GLU:N	2.59	0.48
5:CE:11:ILE:HD12	5:CE:31:LEU:CD1	2.44	0.48
6:CF:97:PHE:N	18:CR:30:ASP:OD1	2.47	0.48
7:CG:139:GLU:O	7:CG:143:ARG:HG3	2.13	0.48
9:CI:43:ALA:O	9:CI:45:ALA:N	2.43	0.48
10:CJ:50:ILE:CD1	14:CN:41:ARG:HD3	2.44	0.48
14:CN:12:ARG:CB	14:CN:12:ARG:HH11	2.27	0.48
14:CN:29:ARG:HG2	14:CN:40:CYS:CB	2.42	0.48
14:CN:48:ALA:HB2	14:CN:53:LEU:HD12	1.95	0.48
20:CT:63:ILE:HG23	20:CT:72:LEU:HD13	1.95	0.48
22:CW:19:G:N2	22:CW:56:C:H42	2.11	0.48
22:CW:63:G:H4'	37:DC:54:ARG:NH2	2.29	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:CY:72:LEU:HG	24:CY:76:MET:HE1	1.95	0.48
27:D2:25:VAL:HG21	27:D2:61:LEU:CD1	2.43	0.48
31:D6:20:ASN:ND2	31:D6:41:PRO:HA	2.28	0.48
35:DA:1091:G:O2'	35:DA:1092:C:H5'	2.13	0.48
35:DA:1839:G:H8	35:DA:1839:G:H5'	1.77	0.48
35:DA:186:G:O2'	35:DA:187:G:H5'	2.14	0.48
35:DA:1999:C:H4'	35:DA:2723:C:O2	2.13	0.48
35:DA:2319:G:OP2	35:DA:2319:G:H4'	2.12	0.48
35:DA:2428:G:H5''	35:DA:2429:G:O5'	2.12	0.48
35:DA:276:A:O2'	35:DA:277:C:H5'	2.13	0.48
35:DA:2772:C:H2'	35:DA:2773:C:H6	1.77	0.48
35:DA:363(B):G:H2'	35:DA:363(C):G:H5'	1.95	0.48
35:DA:476:G:H4'	35:DA:502:A:N1	2.29	0.48
35:DA:892:G:H2'	35:DA:893:C:C6	2.48	0.48
35:DA:2108:C:OP1	37:DC:3:LYS:HE2	2.13	0.48
37:DC:51:ASP:O	37:DC:54:ARG:HB2	2.13	0.48
42:DH:85:LYS:NZ	42:DH:87:LEU:HG	2.28	0.48
48:DP:41:ARG:NE	48:DP:41:ARG:CA	2.76	0.48
35:DA:389:G:H1	48:DP:71:VAL:HG12	1.78	0.48
50:DR:2:ARG:HD2	50:DR:5:LYS:CE	2.43	0.48
51:DS:27:SER:O	51:DS:37:ALA:HA	2.13	0.48
55:DW:88:ARG:HB2	55:DW:92:ARG:CB	2.42	0.48
1:AA:1107:C:C3'	1:AA:1108:G:H5''	2.43	0.48
1:AA:1127:G:O2'	1:AA:1128:C:H5'	2.13	0.48
1:AA:1166:G:H2'	1:AA:1169:A:OP2	2.13	0.48
1:AA:1515:C:H2'	1:AA:1516:G:H8	1.79	0.48
1:AA:954:G:H2'	1:AA:955:U:C6	2.48	0.48
4:AD:152:SER:HA	4:AD:155:LEU:HD12	1.95	0.48
5:AE:18:ARG:HG3	5:AE:18:ARG:HH11	1.77	0.48
1:AA:643:C:H5'	8:AH:31:PHE:CD1	2.49	0.48
9:AI:4:TYR:HA	9:AI:88:TYR:CZ	2.47	0.48
10:AJ:3:LYS:NZ	10:AJ:77:PRO:HD2	2.29	0.48
12:AL:82:VAL:HG12	12:AL:83:VAL:H	1.78	0.48
13:AM:125:ARG:HA	24:AY:160:PRO:CD	2.43	0.48
27:B2:48:HIS:HA	27:B2:51:ARG:HG2	1.96	0.48
33:B8:33:ASN:ND2	33:B8:33:ASN:N	2.49	0.48
35:BA:1064:C:O2'	35:BA:1065:U:H5'	2.13	0.48
35:BA:1204:A:C2	35:BA:1241:A:N1	2.81	0.48
35:BA:1478:G:HO2'	35:BA:1558:A:H2	1.61	0.48
35:BA:1602:U:H3'	35:BA:1603:A:C5'	2.44	0.48
35:BA:2092:U:C5	35:BA:2226:C:OP2	2.66	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:B0:42:GLY:HA3	35:BA:2331:G:O4'	2.14	0.48
35:BA:2555:U:H2'	35:BA:2556:C:H5'	1.96	0.48
35:BA:2732:G:C3'	35:BA:2733:A:C5'	2.92	0.48
35:BA:2774:C:H2'	35:BA:2775:A:O4'	2.13	0.48
36:BB:56:G:H4'	36:BB:57:A:H8	1.79	0.48
37:BC:41:THR:HG21	37:BC:175:PRO:HB2	1.96	0.48
37:BC:42:VAL:HG22	37:BC:217:THR:CG2	2.38	0.48
38:BD:181:GLU:CA	38:BD:272:ALA:HB3	2.40	0.48
38:BD:30:GLU:CG	38:BD:63:ARG:NH2	2.77	0.48
38:BD:35:LYS:HZ2	38:BD:35:LYS:C	2.17	0.48
39:BE:110:GLY:O	50:BR:2:ARG:HD3	2.14	0.48
39:BE:35:GLN:HA	39:BE:67:PHE:HE2	1.79	0.48
41:BG:170:ARG:HG2	41:BG:170:ARG:HH11	1.78	0.48
41:BG:64:THR:C	41:BG:66:GLN:H	2.16	0.48
33:B8:13:ARG:CD	48:BP:61:ARG:HD3	2.38	0.48
49:BQ:35:VAL:CG1	49:BQ:130:LYS:HB3	2.44	0.48
54:BV:19:LYS:HG3	54:BV:20:LEU:O	2.14	0.48
58:BZ:71:VAL:HG11	58:BZ:74:VAL:CG2	2.44	0.48
1:CA:1071:C:H2'	1:CA:1072:G:C8	2.46	0.48
1:CA:1072:G:H2'	1:CA:1073:U:H6	1.79	0.48
1:CA:1418:A:C2	1:CA:1483:A:C2	3.02	0.48
1:CA:1499:A:H1'	1:CA:1520:G:H5'	1.96	0.48
1:CA:164:U:O2'	1:CA:165:C:H5'	2.12	0.48
1:CA:376:G:H2'	1:CA:377:G:H8	1.78	0.48
1:CA:427:U:OP1	4:CD:40:PRO:HA	2.14	0.48
1:CA:630:G:N3	1:CA:630:G:H2'	2.29	0.48
1:CA:751:U:H2'	1:CA:752:G:H5'	1.94	0.48
1:CA:818:G:C3'	1:CA:819:A:H5''	2.44	0.48
3:CC:11:ARG:HH11	3:CC:11:ARG:HG2	1.78	0.48
3:CC:76:VAL:HG23	3:CC:77:ILE:N	2.29	0.48
4:CD:59:ARG:CA	4:CD:59:ARG:HE	2.18	0.48
5:CE:7:GLU:O	5:CE:8:GLU:CB	2.62	0.48
6:CF:35:ALA:HB1	6:CF:65:VAL:HG21	1.96	0.48
1:CA:539:A:P	12:CL:114:LYS:HD2	2.53	0.48
1:CA:1202:G:H1'	14:CN:29:ARG:HD3	1.95	0.48
18:CR:59:SER:OG	18:CR:62:GLU:HG2	2.12	0.48
19:CS:53:ASN:HD22	19:CS:58:VAL:CG1	2.26	0.48
20:CT:50:GLU:HA	20:CT:100:ILE:CG2	2.42	0.48
24:CY:54:ARG:O	24:CY:58:THR:HG23	2.14	0.48
24:CY:83:GLU:HB3	24:CY:84:ARG:NH1	2.29	0.48
33:D8:53:PRO:CA	33:D8:56:GLU:HB3	2.39	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:1717:G:C3'	35:DA:1718:G:H5''	2.44	0.48
35:DA:2092:U:C5	35:DA:2226:C:OP2	2.66	0.48
31:D6:31:PRO:HB3	35:DA:2287:A:OP1	2.13	0.48
35:DA:2360:A:O2'	35:DA:2361:A:C5'	2.61	0.48
35:DA:271(D):G:H1	35:DA:271(T):C:H42	1.62	0.48
35:DA:2836:U:H2'	35:DA:2837:G:H8	1.73	0.48
35:DA:301:G:C4	35:DA:302:C:C5	3.02	0.48
35:DA:35:G:H2'	35:DA:36:G:O4'	2.13	0.48
35:DA:882:G:H2'	35:DA:883:G:H8	1.78	0.48
35:DA:962:G:O2'	35:DA:963:U:H5'	2.13	0.48
38:DD:35:LYS:C	38:DD:35:LYS:HZ3	2.17	0.48
41:DG:145:THR:O	41:DG:148:MET:N	2.45	0.48
42:DH:82:GLY:O	42:DH:83:TYR:O	2.31	0.48
43:DI:10:GLU:C	43:DI:12:LEU:N	2.66	0.48
43:DI:139:GLN:HE21	43:DI:141:LYS:HE3	1.78	0.48
43:DI:25:TYR:O	43:DI:29:TYR:HB3	2.13	0.48
47:DO:10:VAL:CG2	47:DO:16:ALA:O	2.62	0.48
48:DP:108:LYS:O	48:DP:110:TYR:N	2.47	0.48
51:DS:85:VAL:HG23	51:DS:106:ARG:HG3	1.95	0.48
52:DT:16:ARG:NH2	52:DT:82:LEU:O	2.45	0.48
53:DU:101:ARG:C	53:DU:102:GLU:HG2	2.33	0.48
54:DV:25:LEU:H	54:DV:92:THR:HG21	1.78	0.48
57:DY:13:VAL:HG22	57:DY:73:ARG:O	2.13	0.48
57:DY:86:ARG:HD2	57:DY:88:LYS:HD2	1.95	0.48
1:AA:1442:G:H2'	1:AA:1442(A):G:C5'	2.43	0.48
1:AA:295:C:H2'	1:AA:296:U:C6	2.48	0.48
1:AA:437:U:H2'	1:AA:438:G:C8	2.49	0.48
1:AA:438:G:H2'	1:AA:494:U:O4	2.14	0.48
2:AB:97:TRP:CZ2	2:AB:102:LEU:HD13	2.47	0.48
2:AB:8:LYS:O	2:AB:12:GLU:HG3	2.14	0.48
2:AB:233:SER:HB2	2:AB:234:PRO:CD	2.38	0.48
2:AB:28:PHE:O	2:AB:28:PHE:HD1	1.96	0.48
3:AC:14:ILE:HG23	3:AC:15:THR:N	2.29	0.48
3:AC:22:TRP:CH2	3:AC:32:LEU:HB2	2.49	0.48
4:AD:173:TRP:CE3	4:AD:193:ASP:HB3	2.48	0.48
6:AF:35:ALA:HB1	6:AF:65:VAL:HG21	1.96	0.48
9:AI:83:ARG:O	9:AI:86:VAL:HG12	2.14	0.48
13:AM:126:LYS:N	24:AY:162:ALA:N	2.62	0.48
14:AN:59:ALA:O	14:AN:60:SER:HB2	2.12	0.48
1:AA:235:C:C5'	17:AQ:70:ARG:HG2	2.41	0.48
17:AQ:66:SER:O	17:AQ:70:ARG:NH1	2.45	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:AT:26:ASN:ND2	20:AT:26:ASN:N	2.61	0.48
24:AY:316:LEU:N	24:AY:316:LEU:HD22	2.27	0.48
24:AY:76:MET:HG3	24:AY:88:LYS:HZ1	1.74	0.48
35:BA:11:G:O2'	35:BA:12:U:H5'	2.13	0.48
35:BA:2065:C:H2'	35:BA:2066:C:H6	1.78	0.48
35:BA:2148:G:H2'	35:BA:2149:G:C8	2.49	0.48
35:BA:218:A:H2	35:BA:235:U:H4'	1.78	0.48
33:B8:39:LYS:HE3	35:BA:2365:G:O6	2.13	0.48
35:BA:2666:C:H3'	35:BA:2667:C:H6	1.78	0.48
35:BA:2687:U:C4	35:BA:2688:U:C5	3.02	0.48
35:BA:389:G:N1	48:BP:71:VAL:HG12	2.28	0.48
35:BA:729:G:H2'	35:BA:1775:U:H1'	1.96	0.48
43:BI:77:LEU:HB2	43:BI:140:LEU:HA	1.94	0.48
43:BI:29:TYR:CE1	43:BI:33:ARG:NE	2.82	0.48
35:BA:2726:U:H6	47:BO:67:LYS:NZ	2.10	0.48
48:BP:86:LYS:HG3	48:BP:117:GLU:O	2.14	0.48
54:BV:38:LEU:HD23	54:BV:39:LEU:N	2.28	0.48
58:BZ:58:VAL:HG12	58:BZ:59:LEU:N	2.29	0.48
1:CA:519:C:OP1	24:CY:188:ARG:NH1	2.47	0.48
4:CD:3:ARG:HD3	4:CD:3:ARG:O	2.13	0.48
9:CI:4:TYR:O	9:CI:18:PHE:HA	2.14	0.48
11:CK:24:SER:O	11:CK:27:ASN:N	2.44	0.48
1:CA:881:G:P	12:CL:12:ARG:HH22	2.37	0.48
13:CM:67:GLU:CG	13:CM:68:GLY:N	2.77	0.48
1:CA:564:C:H5'	17:CQ:32:TYR:CE2	2.48	0.48
24:CY:295:LEU:HD13	24:CY:295:LEU:O	2.13	0.48
27:D2:65:ASN:HD22	27:D2:69:ARG:NH2	2.12	0.48
31:D6:16:CYS:O	31:D6:17:LYS:CB	2.61	0.48
35:DA:1529:G:N3	35:DA:1529:G:H2'	2.29	0.48
35:DA:1778:U:H2'	35:DA:1784:A:N6	2.29	0.48
35:DA:1882:C:H5'	35:DA:1883:G:OP2	2.13	0.48
35:DA:2029:G:H2'	35:DA:2031:A:OP2	2.13	0.48
35:DA:2491:U:O2'	35:DA:2492:U:H5'	2.14	0.48
35:DA:2553:G:H2'	35:DA:2554:U:C4'	2.44	0.48
35:DA:284:U:H2'	35:DA:285:C:H6	1.78	0.48
36:DB:49:C:O2'	36:DB:50:G:H5'	2.14	0.48
38:DD:70:TRP:HZ3	38:DD:146:GLU:CD	2.17	0.48
40:DF:34:TRP:CH2	48:DP:12:ALA:HB2	2.49	0.48
42:DH:83:TYR:O	42:DH:84:SER:HB3	2.13	0.48
45:DK:132:ARG:HH11	45:DK:132:ARG:CB	2.27	0.48
45:DK:99:ILE:HA	45:DK:103:GLN:HG2	1.94	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:DO:2:ILE:HD11	47:DO:82:ASN:ND2	2.29	0.48
48:DP:144:GLU:N	48:DP:145:PRO:CD	2.64	0.48
49:DQ:134:ARG:C	49:DQ:135:ASP:OD1	2.51	0.48
49:DQ:78:PRO:HB2	49:DQ:81:VAL:HG11	1.94	0.48
51:DS:83:LYS:CE	51:DS:84:GLN:HE21	2.27	0.48
57:DY:14:LEU:HG	57:DY:15:VAL:N	2.29	0.48
57:DY:7:VAL:CB	57:DY:8:LYS:HD2	2.37	0.48
1:AA:1072:G:H2'	1:AA:1073:U:H6	1.79	0.48
1:AA:1126:U:O2'	1:AA:1127:G:H5'	2.13	0.48
1:AA:1133:G:H22	1:AA:1143:G:H1'	1.77	0.48
1:AA:1399:C:H4'	1:AA:1400:C:O5'	2.14	0.48
1:AA:154:C:O2'	1:AA:155:C:H5'	2.14	0.48
1:AA:302:G:N3	1:AA:556:C:H4'	2.28	0.48
1:AA:644:G:O2'	1:AA:645:C:H5'	2.14	0.48
1:AA:829:G:O2'	1:AA:830:G:H5'	2.14	0.48
4:AD:126:ILE:HD12	4:AD:126:ILE:H	1.78	0.48
4:AD:3:ARG:HD3	4:AD:3:ARG:O	2.13	0.48
7:AG:68:ASN:O	7:AG:138:LYS:HD2	2.14	0.48
8:AH:48:TYR:CD1	8:AH:48:TYR:C	2.88	0.48
10:AJ:38:ILE:HD11	10:AJ:71:LEU:CD2	2.43	0.48
1:AA:1060:C:H5''	10:AJ:51:ARG:HB3	1.95	0.48
10:AJ:16:LEU:HA	10:AJ:94:VAL:HG21	1.95	0.48
11:AK:48:ILE:HD11	11:AK:64:ALA:HA	1.96	0.48
17:AQ:24:GLU:HG2	17:AQ:39:SER:HB3	1.96	0.48
13:AM:125:ARG:CA	24:AY:160:PRO:HD2	2.44	0.48
25:B0:36:ILE:HD12	25:B0:38:VAL:N	2.29	0.48
25:B0:83:PRO:C	25:B0:85:ALA:H	2.16	0.48
29:B4:27:THR:O	29:B4:28:LYS:HG2	2.13	0.48
32:B7:43:THR:HG22	32:B7:44:PRO:O	2.14	0.48
35:BA:1812:A:H2'	35:BA:1813:G:H8	1.79	0.48
35:BA:2149:G:H2'	35:BA:2150:U:O4'	2.13	0.48
35:BA:2223:G:O2'	35:BA:2224:G:H5'	2.13	0.48
35:BA:2350:C:H2'	35:BA:2351:G:O4'	2.14	0.48
35:BA:2391:G:O6	35:BA:2425:A:H8	1.95	0.48
35:BA:2689:U:H4'	35:BA:2690:C:C6	2.48	0.48
35:BA:2693:A:H2'	35:BA:2694:G:C8	2.49	0.48
35:BA:623:G:H2'	35:BA:624:C:C6	2.49	0.48
35:BA:654(D):G:H22	35:BA:654(P):C:H42	1.61	0.48
38:BD:44:ASN:ND2	38:BD:47:GLY:O	2.47	0.48
39:BE:117:MET:HA	39:BE:122:PHE:H	1.79	0.48
35:BA:586:A:H5'	40:BF:89:VAL:HG21	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:BH:103:LEU:HB2	42:BH:123:PHE:CD1	2.48	0.48
42:BH:124:GLU:HG3	42:BH:132:ARG:HG3	1.94	0.48
44:BJ:99:UNK:O	44:BJ:100:UNK:C	2.61	0.48
50:BR:3:HIS:O	50:BR:4:LEU:HB3	2.14	0.48
52:BT:25:GLY:O	52:BT:48:ILE:HG23	2.14	0.48
52:BT:51:ARG:O	52:BT:61:PHE:HA	2.14	0.48
56:BX:12:VAL:O	56:BX:13:LEU:HB2	2.14	0.48
56:BX:12:VAL:CG2	56:BX:13:LEU:H	2.11	0.48
57:BY:7:VAL:HB	57:BY:8:LYS:NZ	2.29	0.48
58:BZ:99:TYR:CD2	58:BZ:99:TYR:N	2.82	0.48
1:CA:1261:A:N1	1:CA:1275:A:H1'	2.29	0.48
1:CA:154:C:O2'	1:CA:155:C:H5'	2.14	0.48
1:CA:171:A:H2'	1:CA:172:A:C8	2.48	0.48
1:CA:295:C:H2'	1:CA:296:U:C6	2.48	0.48
1:CA:357:G:OP1	1:CA:367:U:H5''	2.13	0.48
1:CA:649:G:H2'	1:CA:650:G:H8	1.78	0.48
1:CA:64:G:H4'	1:CA:65:U:H5''	1.96	0.48
2:CB:73:THR:HG22	2:CB:95:GLN:O	2.13	0.48
4:CD:8:VAL:HG11	4:CD:115:ARG:CZ	2.43	0.48
4:CD:119:GLN:HG2	4:CD:123:HIS:HD2	1.78	0.48
4:CD:120:LEU:HB3	4:CD:126:ILE:HD11	1.95	0.48
1:CA:1128:C:C4'	9:CI:16:ARG:HH12	2.26	0.48
10:CJ:27:ALA:HB2	10:CJ:85:LEU:CD1	2.40	0.48
12:CL:60:LEU:HD23	12:CL:64:TYR:HB2	1.96	0.48
13:CM:56:LEU:HD13	13:CM:60:VAL:HG21	1.94	0.48
14:CN:12:ARG:CB	14:CN:12:ARG:NH1	2.76	0.48
15:CO:25:THR:O	15:CO:28:GLN:N	2.47	0.48
18:CR:56:THR:CB	18:CR:58:LEU:HD13	2.37	0.48
13:CM:124:PRO:N	24:CY:163:GLY:H	2.12	0.48
24:CY:185:GLY:HA3	24:CY:311:ILE:HG21	1.96	0.48
24:CY:17:LEU:C	24:CY:20:PRO:HD2	2.34	0.48
24:CY:85:GLU:O	24:CY:89:PRO:HD3	2.13	0.48
31:D6:15:GLU:O	31:D6:15:GLU:HG2	2.14	0.48
35:DA:1026:U:H2'	35:DA:1027:A:H5'	1.95	0.48
35:DA:1266:G:O5'	55:DW:15:ARG:NH2	2.47	0.48
35:DA:1641:A:H2'	35:DA:1642:G:O4'	2.14	0.48
35:DA:1678:G:N2	35:DA:1989:G:N2	2.55	0.48
35:DA:1889:A:O2'	35:DA:2087:G:H5'	2.14	0.48
35:DA:2065:C:H2'	35:DA:2066:C:H6	1.79	0.48
35:DA:2342:C:O2'	35:DA:2374:C:H5''	2.14	0.48
30:D5:3:LYS:HE3	35:DA:2611:U:H1'	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:654(F):C:H2'	35:DA:654(G):C:O4'	2.14	0.48
35:DA:888:C:C2'	35:DA:889:C:H5'	2.44	0.48
36:DB:21:G:O2'	36:DB:22:U:O4'	2.31	0.48
37:DC:41:THR:HG21	37:DC:175:PRO:HB2	1.96	0.48
38:DD:24:ILE:O	38:DD:25:THR:O	2.32	0.48
39:DE:167:VAL:HG12	39:DE:189:PRO:HD3	1.94	0.48
39:DE:167:VAL:CG1	39:DE:189:PRO:HD3	2.44	0.48
41:DG:16:ARG:N	41:DG:17:PRO:CD	2.77	0.48
41:DG:88:ILE:HG22	41:DG:89:GLY:N	2.29	0.48
43:DI:31:LEU:HB2	43:DI:32:PRO:HD3	1.95	0.48
48:DP:101:VAL:CB	48:DP:107:LYS:HA	2.35	0.48
1:CA:1442(A):G:C8	52:DT:118:ARG:HD2	2.49	0.48
52:DT:27:THR:O	52:DT:28:VAL:CG2	2.51	0.48
58:DZ:110:GLY:O	58:DZ:111:VAL:HG13	2.13	0.48
58:DZ:35:ARG:HG3	58:DZ:35:ARG:HH11	1.78	0.48
1:AA:1288:A:H2'	1:AA:1289:A:C8	2.48	0.48
1:AA:143:A:N1	1:AA:220:G:O6	2.47	0.48
1:AA:358:U:H2'	1:AA:359:U:H6	1.79	0.48
1:AA:509:A:H5''	4:AD:55:ALA:HB2	1.95	0.48
2:AB:115:LEU:HD13	2:AB:145:LEU:HB3	1.96	0.48
2:AB:79:ASP:HB2	2:AB:80:ILE:HD12	1.96	0.48
3:AC:179:ARG:HG3	3:AC:179:ARG:O	2.14	0.48
4:AD:120:LEU:HB3	4:AD:126:ILE:HD11	1.95	0.48
4:AD:176:LEU:HG	4:AD:178:VAL:N	2.23	0.48
4:AD:65:ARG:HG3	4:AD:75:PHE:CD1	2.49	0.48
8:AH:121:ASP:CG	8:AH:122:ARG:H	2.18	0.48
9:AI:118:LYS:O	9:AI:119:ALA:CB	2.61	0.48
11:AK:91:ARG:C	11:AK:91:ARG:HD2	2.34	0.48
12:AL:70:ILE:CD1	12:AL:77:LEU:HD12	2.42	0.48
1:AA:976:G:P	14:AN:32:SER:H	2.36	0.48
16:AP:13:HIS:C	16:AP:15:PRO:HD3	2.34	0.48
19:AS:6:LYS:O	19:AS:7:LYS:HD3	2.14	0.48
24:AY:128:GLU:O	24:AY:131:ASP:N	2.47	0.48
24:AY:115:ASN:HB2	24:AY:170:LEU:HD11	1.96	0.48
33:B8:48:PHE:C	33:B8:49:VAL:CG2	2.82	0.48
35:BA:1209:G:N2	35:BA:1210:A:H62	2.11	0.48
35:BA:1301:A:H2'	35:BA:1302:A:H3'	1.96	0.48
35:BA:1771:C:O2'	35:BA:1786:A:H8	1.97	0.48
35:BA:1854:A:H2'	35:BA:1855:G:O4'	2.14	0.48
25:B0:10:THR:HG21	35:BA:2277:G:OP1	2.14	0.48
35:BA:2410:G:H2'	35:BA:2411:A:O4'	2.14	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:279:C:N4	35:BA:361:G:H1	2.11	0.48
35:BA:652:C:O2'	35:BA:653:A:O5'	2.31	0.48
35:BA:654(F):C:H2'	35:BA:654(G):C:O4'	2.13	0.48
35:BA:892:G:H2'	35:BA:893:C:C6	2.48	0.48
39:BE:98:PRO:HG3	39:BE:174:ASP:HA	1.95	0.48
41:BG:32:PRO:CG	41:BG:172:LEU:HD12	2.40	0.48
42:BH:74:ASN:ND2	42:BH:138:LYS:HD3	2.27	0.48
46:BN:61:ARG:HG3	46:BN:61:ARG:NH1	2.29	0.48
48:BP:19:VAL:HG23	48:BP:19:VAL:O	2.14	0.48
52:BT:14:TYR:CD1	52:BT:14:TYR:N	2.81	0.48
57:BY:81:LYS:HD3	57:BY:97:ARG:CG	2.37	0.48
58:BZ:103:ARG:HH11	58:BZ:103:ARG:HG3	1.79	0.48
1:CA:125:U:H2'	1:CA:126:G:C8	2.48	0.48
1:CA:539:A:OP1	12:CL:114:LYS:HD2	2.14	0.48
1:CA:818:G:O2'	1:CA:819:A:H5''	2.14	0.48
1:CA:967:C:H2'	1:CA:968:A:C8	2.49	0.48
1:CA:965:A:C2	1:CA:969:A:C2	3.02	0.48
2:CB:137:ARG:HH11	2:CB:137:ARG:HG2	1.78	0.48
3:CC:22:TRP:CH2	3:CC:32:LEU:HB2	2.48	0.48
4:CD:152:SER:HA	4:CD:155:LEU:HD12	1.96	0.48
6:CF:27:GLN:HE21	6:CF:27:GLN:HA	1.79	0.48
6:CF:33:TYR:CE2	6:CF:74:ASP:HB2	2.49	0.48
7:CG:15:ASP:CB	7:CG:20:ASP:H	2.27	0.48
7:CG:25:ALA:HA	7:CG:28:ASN:HD22	1.79	0.48
8:CH:39:LEU:HD22	8:CH:39:LEU:H	1.78	0.48
10:CJ:16:LEU:HA	10:CJ:94:VAL:HG21	1.96	0.48
24:CY:130:CYS:C	24:CY:163:GLY:HA3	2.34	0.48
24:CY:231:VAL:HB	24:CY:246:ASP:HB3	1.96	0.48
30:D5:33:CYS:O	30:D5:36:CYS:O	2.32	0.48
33:D8:32:LEU:N	33:D8:32:LEU:HD22	2.29	0.48
34:D9:26:ILE:N	34:D9:26:ILE:HD12	2.28	0.48
35:DA:1204:A:C2	35:DA:1241:A:N1	2.81	0.48
35:DA:1533:G:H1'	35:DA:1537:G:H1	1.79	0.48
35:DA:1542:A:C3'	35:DA:1542:A:C8	2.93	0.48
35:DA:1550:C:H2'	35:DA:1551:C:H6	1.78	0.48
35:DA:1573:G:C2'	35:DA:1574:C:H5'	2.42	0.48
35:DA:769:G:O2'	35:DA:770:G:H5'	2.14	0.48
41:DG:115:ARG:HH22	41:DG:136:ARG:CD	2.23	0.48
41:DG:21:ARG:HH12	41:DG:22:ARG:HG2	1.78	0.48
41:DG:31:VAL:HG13	41:DG:31:VAL:O	2.13	0.48
41:DG:45:GLU:O	41:DG:46:ALA:HB3	2.14	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:DG:98:ARG:O	41:DG:101:ILE:HG13	2.14	0.48
45:DK:92:GLY:HA3	58:DZ:112:ARG:NH1	2.20	0.48
48:DP:136:GLU:O	48:DP:139:LYS:N	2.44	0.48
48:DP:7:ARG:O	48:DP:10:PRO:HD3	2.13	0.48
50:DR:87:TYR:O	50:DR:90:ARG:N	2.45	0.48
51:DS:61:ASN:OD1	51:DS:62:LYS:N	2.33	0.48
51:DS:74:ALA:O	51:DS:77:ALA:HB3	2.14	0.48
52:DT:28:VAL:HG22	52:DT:46:GLU:CA	2.44	0.48
47:DO:104:ARG:NE	52:DT:33:LYS:HE3	2.24	0.48
55:DW:31:GLU:O	55:DW:35:ILE:HG12	2.14	0.48
55:DW:18:ARG:NH1	55:DW:76:VAL:O	2.42	0.48
55:DW:91:GLY:O	55:DW:92:ARG:C	2.52	0.48
57:DY:87:LYS:HG3	57:DY:88:LYS:N	2.29	0.48
58:DZ:10:ARG:NH2	58:DZ:26:GLY:O	2.47	0.48
1:AA:1026:G:C3'	1:AA:1027:C:H5'	2.43	0.47
1:AA:1300:G:H1'	1:AA:1301:U:H5	1.79	0.47
1:AA:1476:G:H2'	1:AA:1477:C:C6	2.49	0.47
1:AA:189(F):U:C4	17:AQ:72:ARG:CZ	2.97	0.47
1:AA:619:U:H3	4:AD:135:LEU:HD13	1.79	0.47
1:AA:664:G:H22	1:AA:741:G:H1	1.62	0.47
1:AA:766:A:H2'	1:AA:767:A:O4'	2.14	0.47
2:AB:21:ARG:CZ	2:AB:39:ILE:HG12	2.44	0.47
3:AC:153:VAL:O	3:AC:165:THR:HA	2.14	0.47
3:AC:22:TRP:CZ2	14:AN:54:PRO:HG2	2.49	0.47
8:AH:58:TYR:O	8:AH:59:LEU:HD23	2.14	0.47
21:AU:12:LYS:CB	21:AU:22:ARG:HD2	2.44	0.47
22:AV:21:A:C3'	22:AV:22:G:H5''	2.43	0.47
26:B1:37:ILE:HG22	26:B1:38:SER:N	2.27	0.47
26:B1:93:GLU:O	26:B1:95:LEU:N	2.46	0.47
31:B6:22:ALA:HB2	31:B6:39:TYR:CE2	2.49	0.47
34:B9:26:ILE:HD12	34:B9:26:ILE:N	2.29	0.47
35:BA:1094:U:H1'	35:BA:1097:U:H5	1.78	0.47
35:BA:1146:C:O2'	35:BA:1147:C:H5'	2.13	0.47
35:BA:1722:A:C2	35:BA:1740:G:H8	2.32	0.47
35:BA:118:A:H1'	35:BA:178:G:O4'	2.14	0.47
35:BA:2219:G:O2'	35:BA:2220:G:H5'	2.14	0.47
35:BA:2395:C:H2'	35:BA:2396:G:O4'	2.14	0.47
35:BA:570:G:H2'	35:BA:2030:A:C5	2.49	0.47
35:BA:769:G:O2'	35:BA:770:G:H5'	2.14	0.47
35:BA:904:C:C5'	35:BA:904:C:H6	2.17	0.47
36:BB:21:G:O2'	36:BB:22:U:O4'	2.31	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:BF:107:LYS:NZ	40:BF:107:LYS:CA	2.77	0.47
40:BF:110:LEU:HD13	40:BF:202:PHE:CE1	2.49	0.47
41:BG:172:LEU:HD23	41:BG:172:LEU:C	2.34	0.47
45:BK:132:ARG:HH11	45:BK:132:ARG:CB	2.27	0.47
46:BN:90:MET:O	46:BN:93:THR:O	2.31	0.47
47:BO:65:THR:OG1	47:BO:69:ILE:HD11	2.14	0.47
54:BV:4:ILE:O	54:BV:39:LEU:HD22	2.14	0.47
56:BX:31:HIS:HA	56:BX:32:PRO:HD2	1.68	0.47
56:BX:44:GLU:CG	56:BX:51:VAL:HG23	2.44	0.47
1:CA:1508:G:H2'	1:CA:1509:C:C6	2.48	0.47
1:CA:248:C:O2'	1:CA:249:U:H5'	2.13	0.47
2:CB:212:GLN:NE2	2:CB:216:SER:HB2	2.28	0.47
2:CB:233:SER:HB2	2:CB:234:PRO:CD	2.38	0.47
3:CC:186:PHE:HD1	3:CC:198:VAL:O	1.97	0.47
4:CD:12:CYS:HB3	4:CD:18:LYS:HA	1.94	0.47
4:CD:190:ASP:HB3	4:CD:193:ASP:OD2	2.13	0.47
5:CE:69:VAL:HG21	5:CE:113:ALA:HB1	1.94	0.47
9:CI:75:ASP:HA	9:CI:78:LYS:NZ	2.28	0.47
13:CM:48:LEU:HG	13:CM:53:VAL:HG22	1.95	0.47
16:CP:55:ARG:O	16:CP:58:TYR:HB3	2.14	0.47
20:CT:26:ASN:N	20:CT:26:ASN:ND2	2.61	0.47
22:CV:1:G:O2'	22:CV:2:C:H5'	2.14	0.47
24:CY:60:ASP:CG	24:CY:61:THR:N	2.67	0.47
25:D0:42:GLY:HA3	35:DA:2331:G:O4'	2.14	0.47
30:D5:50:GLY:HA3	30:D5:56:LYS:HD2	1.96	0.47
35:DA:1114:G:H3'	35:DA:1115:G:C5'	2.35	0.47
35:DA:1366:A:H2'	35:DA:1367:A:H5'	1.95	0.47
35:DA:1935:G:H1'	35:DA:1964:G:N2	2.29	0.47
35:DA:2019:A:H5''	53:DU:27:LEU:HD12	1.95	0.47
33:D8:31:HIS:CE1	35:DA:2392:A:OP2	2.63	0.47
35:DA:2726:U:H6	47:DO:67:LYS:NZ	2.11	0.47
35:DA:2761:G:C2'	35:DA:2762:G:H5''	2.44	0.47
35:DA:286:C:H2'	35:DA:287:C:H6	1.79	0.47
35:DA:443:A:H1'	35:DA:1201:C:O4'	2.14	0.47
35:DA:582:G:H2'	35:DA:583:G:C8	2.48	0.47
35:DA:672:C:O2'	35:DA:673:C:H5''	2.12	0.47
35:DA:784:A:C5	38:DD:229:VAL:HG21	2.49	0.47
35:DA:888:C:H2'	35:DA:889:C:H5'	1.95	0.47
35:DA:1799:G:H8	38:DD:181:GLU:OE1	1.97	0.47
38:DD:35:LYS:HB2	38:DD:63:ARG:HA	1.96	0.47
38:DD:73:VAL:HG12	38:DD:74:GLY:N	2.29	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:DE:111:ARG:HB2	39:DE:160:TYR:O	2.14	0.47
40:DF:107:LYS:CA	40:DF:107:LYS:NZ	2.76	0.47
40:DF:63:LYS:HE3	40:DF:67:GLN:CB	2.43	0.47
43:DI:75:LEU:HD23	43:DI:105:HIS:CD2	2.49	0.47
43:DI:127:VAL:HG12	43:DI:137:PRO:HB2	1.96	0.47
45:DK:115:LEU:O	45:DK:116:ASN:CB	2.61	0.47
51:DS:42:ASP:C	51:DS:44:LYS:H	2.16	0.47
51:DS:89:ARG:CB	51:DS:92:TYR:HB3	2.43	0.47
52:DT:117:ASP:O	52:DT:118:ARG:C	2.52	0.47
52:DT:53:ARG:CB	52:DT:53:ARG:CZ	2.92	0.47
54:DV:47:VAL:HG12	54:DV:52:VAL:H	1.79	0.47
56:DX:44:GLU:CG	56:DX:51:VAL:HG23	2.44	0.47
57:DY:26:LYS:HG3	57:DY:27:VAL:HG23	1.96	0.47
1:AA:1422:G:H2'	1:AA:1423:G:H8	1.79	0.47
1:AA:1428:A:H2'	1:AA:1429:C:C6	2.48	0.47
1:AA:1442:G:H2'	1:AA:1442(A):G:H5''	1.96	0.47
1:AA:36:C:O2'	1:AA:37:U:H5'	2.13	0.47
1:AA:60:A:H8	1:AA:60:A:P	2.37	0.47
3:AC:186:PHE:HD1	3:AC:198:VAL:O	1.96	0.47
4:AD:129:ASN:ND2	4:AD:145:GLU:N	2.62	0.47
4:AD:14:ARG:HD2	4:AD:59:ARG:HH12	1.77	0.47
8:AH:109:ILE:HD11	8:AH:120:THR:CG2	2.45	0.47
8:AH:51:VAL:HG23	8:AH:52:ASP:N	2.29	0.47
8:AH:91:ARG:HG2	8:AH:91:ARG:NH1	2.25	0.47
10:AJ:16:LEU:HD13	10:AJ:16:LEU:O	2.14	0.47
15:AO:53:HIS:O	15:AO:56:LEU:HB3	2.15	0.47
27:B2:13:ALA:C	27:B2:15:LYS:N	2.66	0.47
27:B2:31:GLU:HB3	27:B2:53:LEU:HD11	1.95	0.47
27:B2:53:LEU:O	27:B2:53:LEU:HD23	2.14	0.47
28:B3:17:LYS:HE2	35:BA:969:U:OP1	2.14	0.47
30:B5:57:VAL:CG2	30:B5:58:LEU:H	2.18	0.47
33:B8:32:LEU:N	33:B8:32:LEU:HD22	2.29	0.47
34:B9:31:LYS:HE2	35:BA:2528:U:C5'	2.40	0.47
35:BA:2342:C:O2'	35:BA:2374:C:H5''	2.13	0.47
35:BA:2682:U:C6	35:BA:2682:U:H5'	2.46	0.47
35:BA:782:A:H5'	35:BA:783:A:C2	2.49	0.47
35:BA:888:C:C2'	35:BA:889:C:H5'	2.44	0.47
38:BD:211:ARG:HA	38:BD:214:TRP:CD2	2.49	0.47
40:BF:117:ARG:NH2	40:BF:187:VAL:HA	2.28	0.47
40:BF:148:LEU:HD11	40:BF:193:VAL:HG21	1.96	0.47
41:BG:73:ALA:H	41:BG:87:PRO:CG	2.27	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:BH:136:ILE:H	42:BH:136:ILE:CD1	2.25	0.47
42:BH:85:LYS:C	42:BH:85:LYS:HE2	2.34	0.47
46:BN:42:TRP:CZ3	46:BN:48:MET:HE1	2.49	0.47
52:BT:126:ALA:C	52:BT:128:GLU:H	2.16	0.47
53:BU:18:LEU:HD11	53:BU:32:PHE:CB	2.44	0.47
53:BU:34:LYS:HA	53:BU:34:LYS:HE2	1.95	0.47
56:BX:64:LYS:HZ3	56:BX:73:ARG:HH21	1.63	0.47
1:CA:186:C:O2'	1:CA:187:C:H5'	2.14	0.47
1:CA:643:C:H5'	8:CH:31:PHE:CD1	2.48	0.47
1:CA:76:C:N4	1:CA:93:G:H1	2.12	0.47
4:CD:3:ARG:O	4:CD:5:ILE:HG13	2.14	0.47
5:CE:57:LYS:HB3	5:CE:61:TYR:CE2	2.49	0.47
7:CG:23:VAL:HG12	7:CG:23:VAL:O	2.14	0.47
8:CH:12:ARG:HH12	8:CH:27:PRO:HD3	1.78	0.47
8:CH:29:SER:HB3	8:CH:32:LYS:HG3	1.96	0.47
1:CA:1371:G:OP2	9:CI:11:LYS:HD2	2.13	0.47
13:CM:16:ASP:O	13:CM:30:ALA:HB1	2.14	0.47
16:CP:4:ILE:CD1	16:CP:64:ALA:HB1	2.44	0.47
22:CV:3:C:H2'	22:CV:4:C:C6	2.48	0.47
22:CW:55:U:O2	22:CW:55:U:O4'	2.32	0.47
29:D4:27:THR:O	29:D4:28:LYS:HG2	2.14	0.47
35:DA:1009:A:O4'	53:DU:59:ARG:HD2	2.14	0.47
35:DA:1412:A:H2'	35:DA:1413:G:C8	2.49	0.47
35:DA:2514:U:H2'	35:DA:2515:C:H6	1.77	0.47
35:DA:363(F):A:O2'	35:DA:364:C:H6	1.95	0.47
35:DA:94:C:O2	35:DA:94:C:H2'	2.14	0.47
37:DC:30:VAL:HG11	37:DC:42:VAL:CG1	2.43	0.47
38:DD:168:ARG:O	38:DD:169:GLU:HB2	2.14	0.47
38:DD:48:ARG:HG3	38:DD:48:ARG:HH11	1.79	0.47
40:DF:68:LYS:O	40:DF:70:THR:N	2.46	0.47
41:DG:77:ILE:HG22	41:DG:80:PHE:N	2.27	0.47
55:DW:65:LEU:HD22	55:DW:68:ARG:HD3	1.95	0.47
58:DZ:128:VAL:HG23	58:DZ:160:GLY:O	2.14	0.47
1:AA:1202:G:H1'	14:AN:29:ARG:HD3	1.96	0.47
1:AA:139:G:H2'	1:AA:140:A:C8	2.49	0.47
1:AA:1436:U:C2'	1:AA:1437:C:H5'	2.45	0.47
1:AA:403:C:H2'	1:AA:404:U:C6	2.47	0.47
1:AA:715:A:O2'	1:AA:716:A:H5'	2.14	0.47
1:AA:760:G:H2'	1:AA:761:G:H5'	1.95	0.47
3:AC:138:VAL:HG13	3:AC:149:ALA:HB3	1.97	0.47
1:AA:19:C:H5"	5:AE:86:ALA:CB	2.44	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:AY:19:ILE:HG12	24:AY:62:PHE:CE1	2.49	0.47
24:AY:77:GLU:HB2	24:AY:84:ARG:HG2	1.96	0.47
25:B0:51:VAL:N	25:B0:62:LEU:HD12	2.29	0.47
26:B1:25:LYS:C	26:B1:27:GLU:N	2.68	0.47
31:B6:10:LEU:HG	33:B8:34:TRP:CD1	2.49	0.47
34:B9:27:CYS:SG	34:B9:28:GLU:N	2.88	0.47
35:BA:1221:C:H2'	35:BA:1221(A):C:H6	1.78	0.47
35:BA:1533:G:H1'	35:BA:1537:G:H1	1.78	0.47
35:BA:2305:A:O2'	41:BG:136:ARG:NH1	2.48	0.47
35:BA:2481:G:HO2'	35:BA:2482:G:P	2.38	0.47
35:BA:2648:C:H2'	35:BA:2649:U:C6	2.50	0.47
35:BA:2864:G:OP1	52:BT:119:LYS:HD2	2.14	0.47
35:BA:512:G:C2'	35:BA:513:A:OP2	2.62	0.47
35:BA:923:C:H2'	35:BA:924:C:H6	1.78	0.47
35:BA:92:A:H3'	35:BA:93:G:C8	2.49	0.47
37:BC:184:GLU:C	37:BC:185:LYS:HE3	2.35	0.47
37:BC:214:TYR:HD2	37:BC:222:SER:HB2	1.79	0.47
38:BD:26:LYS:O	38:BD:27:THR:CB	2.61	0.47
41:BG:9:ARG:HH11	41:BG:9:ARG:HB2	1.76	0.47
48:BP:23:PRO:HD2	48:BP:33:ARG:HE	1.79	0.47
49:BQ:97:VAL:HG21	49:BQ:103:MET:CE	2.44	0.47
57:BY:31:LEU:CD2	57:BY:31:LEU:N	2.77	0.47
1:CA:1357:A:H61	1:CA:1363(A):A:H2	1.60	0.47
1:CA:1383:C:H2'	1:CA:1384:C:C6	2.48	0.47
1:CA:189(K):U:H2'	1:CA:189(L):G:H8	1.76	0.47
1:CA:336:C:O2'	1:CA:337:C:H5'	2.13	0.47
1:CA:413:G:H4'	1:CA:414:A:C5'	2.36	0.47
1:CA:746:A:O2'	1:CA:747:C:H5'	2.15	0.47
1:CA:959:A:H2'	1:CA:960:U:H4'	1.95	0.47
3:CC:119:ARG:HH21	3:CC:140:ARG:NE	2.12	0.47
3:CC:138:VAL:HG13	3:CC:149:ALA:HB3	1.95	0.47
4:CD:20:TYR:HD1	4:CD:20:TYR:H	1.61	0.47
9:CI:118:LYS:HB3	9:CI:118:LYS:NZ	2.29	0.47
12:CL:22:SER:C	12:CL:24:VAL:H	2.18	0.47
13:CM:19:LEU:CD2	13:CM:19:LEU:H	2.27	0.47
22:CW:56:C:N3	35:DA:2169:A:H2	2.11	0.47
33:D8:62:LEU:O	33:D8:64:TYR:N	2.47	0.47
35:DA:1057:A:N6	35:DA:1086:A:H2'	2.30	0.47
35:DA:1366:A:C2'	35:DA:1367:A:H5'	2.44	0.47
35:DA:1883:G:HO2'	35:DA:1884:A:H8	1.60	0.47
35:DA:2395:C:H2'	35:DA:2396:G:O4'	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:2467:C:H4'	49:DQ:123:HIS:CD2	2.49	0.47
35:DA:2555:U:H2'	35:DA:2556:C:H5'	1.96	0.47
35:DA:2693:A:H2'	35:DA:2694:G:C8	2.49	0.47
35:DA:478:A:N1	35:DA:500:G:H4'	2.28	0.47
35:DA:654(B):C:H2'	35:DA:654(C):G:C8	2.49	0.47
35:DA:697:C:H2'	35:DA:698:C:C6	2.49	0.47
35:DA:941:A:H2'	35:DA:942:G:C8	2.49	0.47
37:DC:19:LYS:HD3	37:DC:20:VAL:N	2.29	0.47
38:DD:26:LYS:O	38:DD:27:THR:CB	2.62	0.47
40:DF:110:LEU:CD1	40:DF:202:PHE:CE1	2.97	0.47
42:DH:105:LEU:HD23	42:DH:113:VAL:O	2.14	0.47
42:DH:83:TYR:HA	42:DH:135:GLY:H	1.78	0.47
42:DH:41:MET:CG	42:DH:43:VAL:HG13	2.44	0.47
46:DN:73:THR:HG21	46:DN:82:LEU:HD11	1.97	0.47
47:DO:97:ARG:HG3	47:DO:97:ARG:NH1	2.27	0.47
49:DQ:97:VAL:HG21	49:DQ:103:MET:CE	2.44	0.47
49:DQ:137:TYR:CD2	49:DQ:137:TYR:N	2.80	0.47
52:DT:89:VAL:O	52:DT:91:ARG:N	2.46	0.47
35:DA:494:G:H21	55:DW:57:ASN:HD21	1.62	0.47
56:DX:66:LEU:C	56:DX:66:LEU:HD23	2.34	0.47
56:DX:83:VAL:HG11	56:DX:87:GLN:HB2	1.96	0.47
58:DZ:152:ALA:C	58:DZ:154:ASP:H	2.17	0.47
1:AA:908:A:H2'	1:AA:909:A:H8	1.78	0.47
2:AB:217:ARG:HG3	2:AB:217:ARG:HH11	1.80	0.47
2:AB:65:GLY:O	2:AB:67:THR:N	2.47	0.47
3:AC:110:ASN:O	3:AC:141:VAL:HG22	2.14	0.47
4:AD:61:LYS:HD2	4:AD:207:TYR:OH	2.14	0.47
6:AF:79:LEU:HD12	6:AF:88:VAL:HG11	1.95	0.47
11:AK:105:VAL:HB	11:AK:108:ILE:HD11	1.96	0.47
11:AK:22:HIS:HB3	11:AK:29:ILE:HG23	1.97	0.47
1:AA:1329:A:OP1	13:AM:28:ALA:HB3	2.15	0.47
13:AM:16:ASP:O	13:AM:30:ALA:HB1	2.15	0.47
18:AR:31:LEU:HD12	18:AR:66:LEU:HB2	1.95	0.47
22:AW:49:C:H2'	22:AW:50:U:H5'	1.95	0.47
24:AY:39:TRP:HA	24:AY:45:ALA:HB2	1.95	0.47
33:B8:23:VAL:HG12	33:B8:46:ARG:HH11	1.79	0.47
26:B1:3:LYS:HE2	35:BA:1364:G:N7	2.28	0.47
35:BA:1374:G:H2'	35:BA:1375:C:H6	1.79	0.47
35:BA:1744:C:C2'	35:BA:1745:C:H5'	2.45	0.47
35:BA:1751:C:O2'	35:BA:1752:C:H5'	2.15	0.47
35:BA:1885:A:H2'	35:BA:1886:C:O4'	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:2373:G:H2'	35:BA:2374:C:C6	2.49	0.47
35:BA:2491:U:O2'	35:BA:2492:U:H5'	2.15	0.47
35:BA:2611:U:H5'	35:BA:2611:U:H6	1.80	0.47
35:BA:94:C:O2	35:BA:94:C:H2'	2.13	0.47
38:BD:134:ARG:HG3	38:BD:135:PHE:CD2	2.49	0.47
35:BA:1813:G:H1'	38:BD:50:THR:OG1	2.15	0.47
38:BD:39:LYS:NZ	38:BD:60:ARG:HH11	2.13	0.47
35:BA:1568:G:C5'	38:BD:61:LEU:HD23	2.34	0.47
40:BF:46:ARG:NH1	40:BF:46:ARG:HG3	2.29	0.47
41:BG:139:LEU:C	41:BG:139:LEU:HD12	2.34	0.47
41:BG:72:ARG:CD	41:BG:86:MET:HA	2.41	0.47
43:BI:5:LEU:O	43:BI:6:LEU:CG	2.59	0.47
46:BN:47:ALA:HB2	46:BN:112:LEU:CD1	2.42	0.47
49:BQ:116:GLU:OE1	49:BQ:116:GLU:HA	2.14	0.47
49:BQ:35:VAL:HG11	49:BQ:130:LYS:CE	2.43	0.47
49:BQ:35:VAL:HG13	49:BQ:130:LYS:HB3	1.97	0.47
50:BR:87:TYR:O	50:BR:90:ARG:N	2.46	0.47
57:BY:87:LYS:HG3	57:BY:88:LYS:N	2.29	0.47
58:BZ:108:PRO:C	58:BZ:110:GLY:H	2.17	0.47
58:BZ:119:GLU:CG	58:BZ:122:ARG:HD3	2.43	0.47
1:CA:1288:A:H2'	1:CA:1289:A:C8	2.49	0.47
1:CA:986:A:H2'	1:CA:987:G:H8	1.80	0.47
1:CA:9:G:H5''	5:CE:122:GLU:OE2	2.14	0.47
2:CB:23:ARG:O	2:CB:23:ARG:HG3	2.14	0.47
2:CB:79:ASP:HB2	2:CB:80:ILE:HD12	1.96	0.47
3:CC:29:TYR:HE1	10:CJ:65:LEU:HD21	1.79	0.47
4:CD:4:TYR:O	4:CD:5:ILE:HB	2.14	0.47
6:CF:68:PRO:HG2	6:CF:71:ARG:CG	2.39	0.47
11:CK:59:TYR:CE1	11:CK:63:LEU:HD21	2.49	0.47
12:CL:111:LYS:HG2	12:CL:112:ASP:N	2.29	0.47
10:CJ:63:PHE:HB3	14:CN:58:LYS:HA	1.96	0.47
21:CU:12:LYS:CB	21:CU:22:ARG:HD2	2.44	0.47
22:CW:27:G:H2'	22:CW:28:G:C8	2.49	0.47
24:CY:149:PHE:HD1	24:CY:173:GLY:HA3	1.78	0.47
28:D3:17:LYS:HE2	35:DA:969:U:OP1	2.14	0.47
31:D6:30:THR:O	31:D6:32:ASN:N	2.48	0.47
35:DA:1033:U:N3	35:DA:2750:A:N1	2.61	0.47
35:DA:1301:A:H2'	35:DA:1302:A:H3'	1.97	0.47
35:DA:1467:C:O2'	35:DA:1468:C:H5'	2.14	0.47
35:DA:2305:A:C2	35:DA:2306:C:H1'	2.49	0.47
35:DA:2303:G:H1	35:DA:2313:C:H42	1.62	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:2656:U:C2'	35:DA:2657:A:H5''	2.42	0.47
35:DA:527:C:N4	35:DA:2779:U:OP2	2.45	0.47
35:DA:807:U:O2'	35:DA:808:G:H5'	2.14	0.47
38:DD:124:PRO:HG2	38:DD:129:ASN:ND2	2.30	0.47
38:DD:263:ARG:HB2	38:DD:263:ARG:CZ	2.44	0.47
38:DD:2:ALA:O	38:DD:3:VAL:HB	2.14	0.47
39:DE:38:THR:OG1	39:DE:41:LYS:HE2	2.14	0.47
43:DI:6:LEU:C	43:DI:15:VAL:HG12	2.34	0.47
48:DP:38:GLN:CG	48:DP:39:LYS:H	2.14	0.47
49:DQ:10:ARG:NH1	49:DQ:10:ARG:CB	2.78	0.47
51:DS:28:VAL:HG12	51:DS:29:PHE:N	2.28	0.47
53:DU:12:ARG:C	53:DU:13:LYS:HE2	2.35	0.47
1:AA:1385:G:O2'	1:AA:1386:G:H5'	2.15	0.47
1:AA:1422:G:OP1	47:BO:48:PRO:HA	2.14	0.47
1:AA:245:C:O2'	1:AA:246:A:H5'	2.15	0.47
1:AA:818:G:C3'	1:AA:819:A:H5''	2.44	0.47
3:AC:150:LYS:HG3	3:AC:169:ALA:HB2	1.95	0.47
4:AD:29:PRO:O	4:AD:30:LYS:CB	2.63	0.47
4:AD:29:PRO:O	4:AD:30:LYS:HB3	2.15	0.47
6:AF:26:ILE:O	6:AF:29:ALA:HB3	2.14	0.47
6:AF:27:GLN:HE21	6:AF:27:GLN:HA	1.78	0.47
1:AA:1251:A:H4'	9:AI:12:GLU:OE2	2.15	0.47
9:AI:95:LYS:HD3	9:AI:95:LYS:C	2.34	0.47
11:AK:18:ARG:HH21	11:AK:37:GLY:N	2.12	0.47
29:B4:26:SER:CB	41:BG:105:LYS:HZ2	2.28	0.47
35:BA:1203:G:H4'	48:BP:7:ARG:HG3	1.97	0.47
35:BA:1239:G:H2'	35:BA:1240:U:O4'	2.13	0.47
35:BA:1291:C:O2'	35:BA:1292:U:H5'	2.14	0.47
35:BA:1742:G:N7	35:BA:1743:C:C4	2.82	0.47
35:BA:1747:G:H2'	35:BA:1747(A):G:H8	1.80	0.47
35:BA:1763:G:H4'	35:BA:1763:G:OP1	2.14	0.47
35:BA:2150:U:H2'	35:BA:2151:G:H8	1.76	0.47
35:BA:2223:G:H2'	35:BA:2224:G:H5'	1.95	0.47
35:BA:271(D):G:H1	35:BA:271(T):C:H42	1.61	0.47
32:B7:5:TRP:CZ3	35:BA:464:U:H4'	2.50	0.47
35:BA:484:C:H2'	35:BA:485:C:C6	2.49	0.47
38:BD:211:ARG:HA	38:BD:214:TRP:CE3	2.50	0.47
38:BD:30:GLU:HG3	38:BD:63:ARG:NH2	2.28	0.47
39:BE:34:VAL:CG1	39:BE:48:GLN:HE21	2.26	0.47
40:BF:63:LYS:HE3	40:BF:67:GLN:CB	2.41	0.47
41:BG:50:ALA:O	41:BG:52:ILE:HD13	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:BH:83:TYR:HA	42:BH:135:GLY:H	1.80	0.47
43:BI:64:GLU:C	43:BI:64:GLU:CD	2.73	0.47
45:BK:77:LEU:HB3	45:BK:107:ILE:HD13	1.96	0.47
45:BK:98:ARG:HA	45:BK:137:GLU:HB3	1.95	0.47
45:BK:13:PRO:O	45:BK:53:VAL:HG22	2.14	0.47
35:BA:2690:C:OP2	50:BR:14:SER:HB3	2.14	0.47
52:BT:53:ARG:CZ	52:BT:53:ARG:CB	2.92	0.47
57:BY:96:ILE:CB	57:BY:99:CYS:HB2	2.42	0.47
1:CA:1019:C:C2'	1:CA:1020:U:H5'	2.44	0.47
1:CA:313:A:H2'	1:CA:314:C:C6	2.49	0.47
1:CA:458:C:H2'	1:CA:460:G:H8	1.79	0.47
2:CB:118:LEU:HD13	2:CB:142:LEU:HB2	1.96	0.47
1:CA:421:U:C4	3:CC:127:ARG:NH1	2.82	0.47
4:CD:121:VAL:CA	4:CD:126:ILE:HD13	2.45	0.47
7:CG:54:THR:O	7:CG:54:THR:HG23	2.14	0.47
11:CK:91:ARG:C	11:CK:91:ARG:HD2	2.34	0.47
19:CS:43:GLU:CG	19:CS:44:MET:HE1	2.39	0.47
24:CY:109:PHE:CE2	24:CY:353:ALA:HB2	2.49	0.47
25:D0:36:ILE:HD12	25:D0:37:LEU:N	2.30	0.47
27:D2:28:LYS:HE2	27:D2:56:GLN:NE2	2.29	0.47
35:DA:1005:C:H2'	35:DA:1006:C:C6	2.49	0.47
35:DA:1043:C:H6	35:DA:1043:C:O5'	1.98	0.47
35:DA:1766:U:H2'	35:DA:1767:C:C6	2.49	0.47
35:DA:2689:U:H4'	35:DA:2690:C:C6	2.49	0.47
41:DG:37:VAL:HG22	41:DG:159:VAL:HG12	1.96	0.47
46:DN:65:LYS:O	46:DN:69:GLN:HB2	2.14	0.47
51:DS:61:ASN:HB3	51:DS:64:GLU:HB2	1.95	0.47
1:AA:1112:C:H1'	3:AC:179:ARG:CD	2.43	0.47
1:AA:630:G:N3	1:AA:630:G:H2'	2.29	0.47
1:AA:865:A:H2	1:AA:918:A:H4'	1.78	0.47
3:AC:44:GLU:HA	3:AC:52:LEU:CD1	2.45	0.47
7:AG:15:ASP:CB	7:AG:20:ASP:H	2.28	0.47
8:AH:39:LEU:HD22	8:AH:39:LEU:H	1.79	0.47
8:AH:17:THR:HB	8:AH:78:GLN:OE1	2.14	0.47
11:AK:114:VAL:HG13	11:AK:114:VAL:O	2.15	0.47
13:AM:81:LEU:O	13:AM:89:GLY:HA3	2.15	0.47
16:AP:19:ILE:H	16:AP:19:ILE:CD1	2.24	0.47
17:AQ:24:GLU:OE1	17:AQ:37:LYS:HD3	2.15	0.47
22:AW:15:G:N2	22:AW:60:U:C6	2.83	0.47
26:B1:5:CYS:CB	26:B1:8:SER:HG	2.27	0.47
28:B3:35:ARG:HH21	28:B3:37:LEU:CD2	2.28	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:B5:33:CYS:O	30:B5:36:CYS:O	2.33	0.47
30:B5:36:CYS:CB	30:B5:49:CYS:SG	3.03	0.47
33:B8:32:LEU:CB	33:B8:36:LYS:NZ	2.77	0.47
35:BA:1481:U:H5'	35:BA:1482:G:OP2	2.14	0.47
35:BA:1678:G:N2	35:BA:1989:G:N2	2.57	0.47
35:BA:1862:G:O2'	35:BA:1863:G:H5'	2.14	0.47
35:BA:2127:G:N2	35:BA:2173:A:N3	2.63	0.47
35:BA:229:A:H5''	35:BA:230:U:H5'	1.97	0.47
35:BA:2464:C:O2'	35:BA:2465:C:O5'	2.32	0.47
35:BA:860:U:O4'	35:BA:860:U:O2	2.30	0.47
41:BG:117:PHE:HZ	41:BG:179:PRO:HG2	1.79	0.47
41:BG:120:LEU:HB2	41:BG:179:PRO:O	2.15	0.47
41:BG:60:LEU:O	41:BG:60:LEU:HD13	2.15	0.47
42:BH:153:LYS:N	42:BH:153:LYS:HD3	2.25	0.47
46:BN:108:PRO:O	46:BN:113:GLY:HA3	2.15	0.47
47:BO:3:GLN:HB2	47:BO:4:PRO:HD2	1.97	0.47
48:BP:13:ASN:ND2	48:BP:13:ASN:C	2.66	0.47
54:BV:82:ARG:HG2	54:BV:82:ARG:HH11	1.79	0.47
55:BW:8:ARG:HB3	55:BW:9:TYR:CD1	2.50	0.47
57:BY:21:LYS:HG2	57:BY:22:GLY:N	2.30	0.47
1:CA:922:G:N3	1:CA:1398:A:H2	2.12	0.47
1:CA:473:G:H2'	1:CA:474:G:H8	1.80	0.47
1:CA:600:C:O2'	1:CA:601:C:H5'	2.14	0.47
1:CA:973:G:C3'	1:CA:974:A:H5''	2.41	0.47
2:CB:220:ASP:C	2:CB:222:ILE:H	2.18	0.47
2:CB:51:LEU:O	2:CB:55:PHE:HD2	1.98	0.47
3:CC:44:GLU:HA	3:CC:52:LEU:CD1	2.44	0.47
6:CF:64:GLN:O	6:CF:65:VAL:HB	2.14	0.47
13:CM:120:LYS:HE2	13:CM:122:LYS:NZ	2.29	0.47
1:CA:235:C:C5'	17:CQ:70:ARG:HG2	2.41	0.47
18:CR:63:GLN:OE1	18:CR:63:GLN:HA	2.14	0.47
19:CS:29:ARG:O	19:CS:31:ILE:HG22	2.15	0.47
33:D8:32:LEU:O	33:D8:33:ASN:O	2.32	0.47
35:DA:330:A:C2	35:DA:1210:A:H2'	2.43	0.47
35:DA:1899:G:C2'	35:DA:1900:A:OP2	2.61	0.47
35:DA:2777:G:H5''	35:DA:2778:A:H5'	1.97	0.47
35:DA:279:C:N4	35:DA:361:G:H1	2.11	0.47
35:DA:579:G:H2'	35:DA:580:C:C6	2.50	0.47
35:DA:597:U:H2'	35:DA:598:G:C8	2.49	0.47
35:DA:782:A:H5'	35:DA:783:A:C2	2.49	0.47
35:DA:903:C:H2'	35:DA:904:C:H5'	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:DF:201:VAL:HA	40:DF:204:ASN:HD22	1.79	0.47
43:DI:118:LYS:O	43:DI:119:PRO:O	2.32	0.47
45:DK:98:ARG:HA	45:DK:137:GLU:HB3	1.97	0.47
45:DK:78:ILE:HD12	45:DK:134:MET:HE1	1.95	0.47
47:DO:17:ARG:HG2	47:DO:17:ARG:HH11	1.80	0.47
48:DP:23:PRO:O	48:DP:33:ARG:NH1	2.47	0.47
48:DP:50:ARG:CG	48:DP:51:PHE:N	2.78	0.47
57:DY:52:SER:N	57:DY:53:PRO:CD	2.78	0.47
57:DY:35:TYR:CD2	57:DY:69:ALA:HB3	2.49	0.47
58:DZ:30:ASN:HD22	58:DZ:90:VAL:HG12	1.79	0.47
58:DZ:6:LYS:HG2	58:DZ:8:TYR:OH	2.14	0.47
1:AA:1005:A:C3'	1:AA:1006:C:H5'	2.45	0.47
1:AA:1218:C:P	14:AN:9:LYS:NZ	2.88	0.47
1:AA:1522:U:H2'	1:AA:1523:G:H8	1.80	0.47
1:AA:604:G:O2'	1:AA:605:U:H5'	2.15	0.47
1:AA:76:C:N4	1:AA:93:G:H1	2.11	0.47
1:AA:9:G:H5''	5:AE:122:GLU:OE2	2.15	0.47
2:AB:137:ARG:HG2	2:AB:137:ARG:HH11	1.79	0.47
2:AB:208:ILE:HA	2:AB:211:ILE:CD1	2.41	0.47
3:AC:71:ALA:HA	3:AC:106:VAL:HB	1.97	0.47
4:AD:175:SER:CB	4:AD:186:LEU:HD11	2.43	0.47
7:AG:103:TRP:CH2	7:AG:141:VAL:HG21	2.50	0.47
8:AH:48:TYR:HA	8:AH:60:ARG:O	2.14	0.47
8:AH:89:PRO:HA	8:AH:92:ARG:NH1	2.23	0.47
10:AJ:4:ILE:HD11	10:AJ:77:PRO:CB	2.37	0.47
1:AA:539:A:OP1	12:AL:114:LYS:HD2	2.14	0.47
13:AM:65:LYS:HD2	13:AM:69:GLU:HG3	1.97	0.47
15:AO:64:ARG:HG3	15:AO:64:ARG:HH11	1.80	0.47
24:AY:136:LEU:O	24:AY:140:TYR:CD2	2.67	0.47
24:AY:312:ARG:NE	24:AY:344:LEU:HD13	2.29	0.47
29:B4:26:SER:CB	41:BG:105:LYS:NZ	2.78	0.47
34:B9:31:LYS:HG2	35:BA:2478:A:H5'	1.97	0.47
35:BA:1005:C:H2'	35:BA:1006:C:C6	2.50	0.47
35:BA:1679:U:H2'	35:BA:1680:U:H5'	1.96	0.47
35:BA:1689:A:N7	35:BA:1698:A:N1	2.62	0.47
35:BA:2158:A:H4'	35:BA:2159:G:C4'	2.44	0.47
35:BA:2303:G:H1	35:BA:2313:C:H42	1.63	0.47
35:BA:2660:A:C4	35:BA:2661:G:H4'	2.49	0.47
35:BA:2757:A:H2'	35:BA:2758:A:H5'	1.96	0.47
35:BA:284:U:H2'	35:BA:285:C:H6	1.79	0.47
35:BA:996:A:OP2	53:BU:92:ARG:NH2	2.48	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:BD:168:ARG:HG3	38:BD:168:ARG:NH1	2.29	0.47
38:BD:265:PRO:O	38:BD:267:SER:N	2.48	0.47
38:BD:62:TYR:HA	38:BD:87:ASN:HD21	1.79	0.47
40:BF:117:ARG:HD3	40:BF:120:GLU:OE1	2.14	0.47
40:BF:67:GLN:O	40:BF:68:LYS:CB	2.56	0.47
29:B4:33:VAL:HG11	41:BG:109:VAL:HG22	1.97	0.47
41:BG:106:LEU:HA	41:BG:110:ALA:CB	2.45	0.47
41:BG:6:ALA:C	41:BG:8:LYS:N	2.68	0.47
43:BI:127:VAL:CG2	43:BI:139:GLN:HG3	2.44	0.47
43:BI:77:LEU:HB3	43:BI:140:LEU:HG	1.97	0.47
45:BK:30:HIS:CD2	45:BK:30:HIS:N	2.83	0.47
46:BN:58:ASP:HB3	46:BN:95:PRO:HB2	1.96	0.47
48:BP:16:ARG:CZ	48:BP:16:ARG:HB2	2.44	0.47
35:BA:587:C:OP2	48:BP:33:ARG:NH2	2.48	0.47
51:BS:85:VAL:HG23	51:BS:106:ARG:HG3	1.95	0.47
51:BS:27:SER:O	51:BS:37:ALA:HA	2.14	0.47
47:BO:104:ARG:NE	52:BT:33:LYS:HE3	2.24	0.47
53:BU:31:SER:C	53:BU:33:ARG:H	2.14	0.47
57:BY:15:VAL:HG22	57:BY:72:VAL:HG12	1.97	0.47
58:BZ:5:LEU:HD21	58:BZ:39:VAL:CG2	2.45	0.47
1:CA:1300:G:O2'	1:CA:1301:U:P	2.73	0.47
1:CA:1343:G:H1'	9:CI:121:ARG:NH1	2.29	0.47
1:CA:1493:A:H1'	24:CY:124:ALA:HA	1.96	0.47
2:CB:28:PHE:CD1	2:CB:28:PHE:O	2.68	0.47
6:CF:5:GLU:HG2	6:CF:62:TRP:HZ2	1.79	0.47
10:CJ:3:LYS:NZ	10:CJ:77:PRO:HD2	2.29	0.47
12:CL:91:LYS:O	12:CL:92:ASP:HB2	2.14	0.47
12:CL:53:ARG:HG2	12:CL:93:LEU:HD11	1.95	0.47
22:CW:54:U:H3'	22:CW:55:U:O2	2.15	0.47
24:CY:322:LYS:HD2	24:CY:328:LEU:O	2.15	0.47
25:D0:14:ARG:NH1	25:D0:14:ARG:HB2	2.30	0.47
25:D0:51:VAL:N	25:D0:62:LEU:HD12	2.29	0.47
27:D2:55:ARG:CZ	35:DA:75:G:H4'	2.44	0.47
30:D5:56:LYS:O	30:D5:57:VAL:O	2.32	0.47
35:DA:1045:A:H4'	35:DA:1047:G:O4'	2.15	0.47
35:DA:1146:C:O2'	35:DA:1147:C:H5'	2.14	0.47
35:DA:1171:G:H1	35:DA:1178:C:H42	1.61	0.47
35:DA:1291:C:O2'	35:DA:1292:U:H5'	2.14	0.47
35:DA:184:C:H2'	35:DA:185:U:H6	1.78	0.47
35:DA:2223:G:H2'	35:DA:2224:G:H5'	1.96	0.47
36:DB:11:C:OP2	36:DB:12:C:H5	1.98	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:DC:214:TYR:HD2	37:DC:222:SER:HB2	1.80	0.47
37:DC:50:ILE:HD12	37:DC:50:ILE:O	2.14	0.47
39:DE:111:ARG:HA	50:DR:2:ARG:CG	2.34	0.47
39:DE:110:GLY:CA	39:DE:162:ALA:HB2	2.44	0.47
39:DE:59:VAL:HG21	39:DE:63:LEU:HG	1.95	0.47
41:DG:59:GLU:OE2	41:DG:138:GLN:NE2	2.47	0.47
43:DI:76:THR:O	43:DI:104:GLN:OE1	2.33	0.47
48:DP:115:LEU:CD2	48:DP:115:LEU:N	2.77	0.47
48:DP:16:ARG:CB	48:DP:16:ARG:NH1	2.77	0.47
49:DQ:47:ILE:CD1	49:DQ:70:PRO:HD3	2.45	0.47
52:DT:27:THR:OG1	52:DT:28:VAL:N	2.47	0.47
52:DT:31:SER:C	52:DT:32:TYR:CD2	2.88	0.47
52:DT:51:ARG:HG3	52:DT:98:LYS:HE3	1.96	0.47
54:DV:52:VAL:HG23	54:DV:55:ALA:CB	2.42	0.47
55:DW:1:MET:HE2	55:DW:2:GLU:O	2.14	0.47
57:DY:45:VAL:HG12	57:DY:60:PHE:CD2	2.50	0.47
58:DZ:45:ASP:CG	58:DZ:49:ARG:HH12	2.17	0.47
1:AA:1305:G:N2	1:AA:1331:G:N3	2.62	0.47
1:AA:1399:C:C2	1:AA:1502:A:N6	2.83	0.47
1:AA:178:C:H2'	1:AA:179:A:H8	1.80	0.47
1:AA:284:G:O2'	1:AA:285:G:H5'	2.15	0.47
1:AA:298:A:H2'	1:AA:299:G:O4'	2.14	0.47
2:AB:20:GLU:CG	2:AB:189:ASP:OD2	2.63	0.47
4:AD:28:SER:HB2	4:AD:30:LYS:CE	2.44	0.47
4:AD:61:LYS:NZ	4:AD:62:GLN:HE21	2.12	0.47
10:AJ:92:THR:HG23	10:AJ:93:GLY:N	2.29	0.47
13:AM:19:LEU:H	13:AM:19:LEU:CD2	2.28	0.47
20:AT:26:ASN:O	20:AT:30:LYS:HB2	2.14	0.47
22:AV:14:A:H2'	22:AV:14:A:N3	2.30	0.47
24:AY:131:ASP:HA	24:AY:163:GLY:HA2	1.97	0.47
26:B1:27:GLU:O	26:B1:28:GLY:C	2.52	0.47
33:B8:33:ASN:HD22	33:B8:36:LYS:HD3	1.80	0.47
35:BA:1090:U:H2'	35:BA:1091:G:H8	1.74	0.47
35:BA:1494:A:O2'	35:BA:1496:A:C2	2.65	0.47
35:BA:528:A:N1	35:BA:2043:C:O5'	2.48	0.47
35:BA:2360:A:O2'	35:BA:2361:A:C5'	2.63	0.47
35:BA:2698:U:H2'	35:BA:2699:C:C6	2.50	0.47
35:BA:271(A):A:H2	35:BA:272(D):G:N3	2.13	0.47
35:BA:527:C:N4	35:BA:2779:U:OP2	2.48	0.47
35:BA:363(B):G:H2'	35:BA:363(C):G:H5'	1.96	0.47
35:BA:438:G:O2'	35:BA:440:G:H5'	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:BC:50:ILE:HD12	37:BC:50:ILE:O	2.15	0.47
45:BK:78:ILE:HD12	45:BK:134:MET:HE1	1.96	0.47
46:BN:57:ALA:O	46:BN:58:ASP:OD1	2.33	0.47
39:BE:111:ARG:CG	50:BR:2:ARG:HG2	2.40	0.47
52:BT:62:THR:HA	52:BT:74:ARG:O	2.15	0.47
53:BU:91:ASP:OD2	53:BU:96:ALA:HB2	2.14	0.47
1:CA:1005:A:C3'	1:CA:1006:C:H5'	2.45	0.47
1:CA:1403:C:H6	1:CA:1403:C:O5'	1.97	0.47
1:CA:164:U:H2'	1:CA:165:C:H6	1.80	0.47
1:CA:218:C:H5'	1:CA:470:C:N4	2.30	0.47
2:CB:115:LEU:HD13	2:CB:145:LEU:HB3	1.95	0.47
2:CB:187:LEU:HD11	2:CB:205:ASP:HA	1.96	0.47
4:CD:110:PHE:CD1	4:CD:110:PHE:N	2.78	0.47
4:CD:176:LEU:HG	4:CD:177:ASP:N	2.13	0.47
3:CC:22:TRP:CZ2	14:CN:54:PRO:HG2	2.50	0.47
16:CP:4:ILE:HB	16:CP:66:PRO:HB3	1.97	0.47
17:CQ:77:VAL:HG12	17:CQ:78:GLU:N	2.30	0.47
18:CR:25:THR:O	18:CR:25:THR:HG22	2.15	0.47
20:CT:73:HIS:O	20:CT:76:ALA:HB3	2.15	0.47
1:CA:1493:A:O3'	24:CY:126:GLY:HA2	2.14	0.47
24:CY:138:ARG:HD2	24:CY:142:ARG:HH22	1.80	0.47
24:CY:26:LEU:O	24:CY:30:GLU:CG	2.63	0.47
24:CY:97:LYS:C	24:CY:99:ASP:N	2.68	0.47
26:D1:8:SER:HB3	26:D1:66:HIS:CD2	2.50	0.47
27:D2:2:LYS:HG2	27:D2:5:GLU:OE1	2.15	0.47
28:D3:59:VAL:CG1	28:D3:60:GLU:N	2.78	0.47
31:D6:45:LYS:HD3	31:D6:45:LYS:HA	1.36	0.47
31:D6:45:LYS:O	31:D6:46:HIS:C	2.53	0.47
35:DA:1039:G:H2'	35:DA:1040:C:C6	2.50	0.47
35:DA:1481:U:H5'	35:DA:1482:G:OP2	2.15	0.47
35:DA:1790:C:H2'	35:DA:1791:A:C5	2.49	0.47
35:DA:2127:G:N2	35:DA:2173:A:N3	2.63	0.47
35:DA:2158:A:H4'	35:DA:2159:G:C4'	2.45	0.47
35:DA:2206:G:N3	35:DA:2206:G:H5''	2.30	0.47
35:DA:2732:G:H3'	35:DA:2733:A:H5'	1.96	0.47
35:DA:2780:G:OP2	46:DN:118:LYS:HE2	2.14	0.47
38:DD:10:THR:HG23	38:DD:13:ARG:CB	2.39	0.47
39:DE:132:HIS:HA	39:DE:135:HIS:CE1	2.50	0.47
39:DE:167:VAL:CG2	39:DE:170:LEU:HD11	2.45	0.47
39:DE:100:GLU:O	39:DE:172:VAL:HG23	2.15	0.47
39:DE:35:GLN:HA	39:DE:67:PHE:CE2	2.50	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:DK:78:ILE:HD12	45:DK:134:MET:CE	2.45	0.47
45:DK:13:PRO:O	45:DK:53:VAL:HG22	2.15	0.47
46:DN:58:ASP:C	46:DN:60:ILE:N	2.64	0.47
52:DT:126:ALA:C	52:DT:128:GLU:H	2.18	0.47
52:DT:136:GLN:HG3	52:DT:137:LYS:N	2.29	0.47
55:DW:8:ARG:HB3	55:DW:9:TYR:CD1	2.50	0.47
58:DZ:52:SER:OG	58:DZ:53:ILE:N	2.47	0.47
1:AA:1193:G:O2'	1:AA:1194:U:H5'	2.15	0.47
1:AA:458:C:H2'	1:AA:460:G:H8	1.80	0.47
1:AA:45:U:H2'	1:AA:46:G:C8	2.50	0.47
1:AA:586:C:H1'	1:AA:878:G:O2'	2.15	0.47
2:AB:187:LEU:HD11	2:AB:205:ASP:HA	1.96	0.47
2:AB:28:PHE:O	2:AB:28:PHE:CD1	2.68	0.47
3:AC:44:GLU:HA	3:AC:52:LEU:HD11	1.96	0.47
3:AC:95:THR:HG22	3:AC:97:LYS:H	1.80	0.47
5:AE:11:ILE:HD12	5:AE:31:LEU:CD1	2.45	0.47
11:AK:34:ASP:HB3	11:AK:40:ILE:HD11	1.95	0.47
13:AM:32:GLU:O	13:AM:36:LYS:HG2	2.15	0.47
18:AR:59:SER:OG	18:AR:62:GLU:HG2	2.14	0.47
19:AS:9:VAL:HG12	19:AS:9:VAL:O	2.15	0.47
20:AT:57:ARG:HH12	20:AT:100:ILE:HG13	1.79	0.47
22:AW:64:A:H2'	22:AW:65:G:N7	2.29	0.47
13:AM:124:PRO:N	24:AY:162:ALA:HA	2.29	0.47
24:AY:323:ASP:HB3	24:AY:326:THR:CG2	2.45	0.47
24:AY:87:LEU:O	24:AY:90:GLU:HB2	2.13	0.47
26:B1:49:VAL:HG21	26:B1:67:ILE:HG23	1.97	0.47
27:B2:33:MET:HG3	27:B2:37:PHE:CE1	2.50	0.47
35:BA:1174:A:H5''	35:BA:1175:U:H5'	1.95	0.47
35:BA:118:A:O2'	35:BA:178:G:H5'	2.14	0.47
35:BA:1210:A:C8	35:BA:1210:A:C5'	2.95	0.47
35:BA:127:A:H5''	35:BA:128:C:C6	2.50	0.47
35:BA:2315:G:H21	41:BG:128:ARG:CZ	2.27	0.47
35:BA:2689:U:H4'	35:BA:2690:C:H6	1.80	0.47
35:BA:320:A:H2'	40:BF:136:THR:OG1	2.13	0.47
35:BA:389:G:C6	48:BP:70:GLN:HG3	2.50	0.47
35:BA:709:U:H3	35:BA:722:A:H61	1.61	0.47
35:BA:889:C:O4'	35:BA:889:C:O2	2.33	0.47
36:BB:11:C:OP2	36:BB:12:C:H5	1.98	0.47
38:BD:28:GLU:CD	38:BD:28:GLU:H	2.19	0.47
41:BG:63:ILE:HD12	41:BG:102:PHE:CE2	2.49	0.47
35:BA:2657:A:O2'	42:BH:160:LYS:HE2	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:BH:24:VAL:HG13	42:BH:24:VAL:O	2.15	0.47
45:BK:16:LYS:H	45:BK:16:LYS:HD3	1.80	0.47
35:BA:2840:C:H5''	50:BR:53:HIS:CD2	2.49	0.47
51:BS:32:LEU:O	51:BS:62:LYS:HE2	2.15	0.47
54:BV:34:GLU:O	54:BV:36:PRO:HD3	2.15	0.47
56:BX:8:ILE:CD1	56:BX:8:ILE:N	2.77	0.47
57:BY:98:VAL:O	57:BY:98:VAL:HG12	2.14	0.47
58:BZ:26:GLY:HA2	58:BZ:85:HIS:CD2	2.50	0.47
1:CA:1170:A:H2'	1:CA:1171:G:H5'	1.97	0.47
1:CA:1193:G:O2'	1:CA:1194:U:H5'	2.15	0.47
1:CA:19:C:H2'	1:CA:20:U:C6	2.50	0.47
4:CD:14:ARG:HA	4:CD:39:PRO:CB	2.45	0.47
8:CH:109:ILE:HD11	8:CH:120:THR:CG2	2.43	0.47
9:CI:70:LYS:O	9:CI:74:ILE:HG13	2.15	0.47
11:CK:18:ARG:HH21	11:CK:37:GLY:N	2.13	0.47
12:CL:88:GLY:O	12:CL:89:ARG:O	2.33	0.47
16:CP:21:VAL:HG12	16:CP:34:GLU:O	2.14	0.47
22:CW:9:A:O2'	22:CW:10:G:N7	2.47	0.47
22:CW:27:G:H1	22:CW:43:C:N4	2.12	0.47
24:CY:174:GLU:OE2	24:CY:175:ASN:ND2	2.47	0.47
31:D6:15:GLU:OE1	31:D6:18:ARG:HD2	2.15	0.47
35:DA:528:A:N1	35:DA:2043:C:O5'	2.48	0.47
35:DA:2219:G:O2'	35:DA:2220:G:H5'	2.14	0.47
25:D0:43:THR:H	35:DA:2331:G:H4'	1.79	0.47
35:DA:2870:C:H5''	50:DR:65:LEU:HD21	1.96	0.47
35:DA:272(I):U:O4	35:DA:363(A):A:N1	2.48	0.47
35:DA:363(F):A:O2'	35:DA:364:C:C6	2.63	0.47
38:DD:61:LEU:HD13	38:DD:61:LEU:HA	1.81	0.47
40:DF:28:ILE:CD1	40:DF:28:ILE:H	2.16	0.47
43:DI:33:ARG:HG2	43:DI:33:ARG:NH1	2.30	0.47
45:DK:16:LYS:H	45:DK:16:LYS:HD3	1.80	0.47
52:DT:57:PHE:CG	52:DT:58:ASN:N	2.83	0.47
55:DW:29:LEU:HG	55:DW:33:ARG:NH1	2.30	0.47
57:DY:21:LYS:HG2	57:DY:22:GLY:N	2.28	0.47
1:AA:9:G:H2'	1:AA:10:A:C8	2.50	0.47
1:AA:1176:A:H2'	1:AA:1177:G:C8	2.50	0.47
1:AA:1383:C:H2'	1:AA:1384:C:C6	2.50	0.47
1:AA:1463:C:H2'	1:AA:1464:G:H8	1.79	0.47
1:AA:425:G:O2'	1:AA:426:G:H5'	2.14	0.47
1:AA:818:G:O2'	1:AA:819:A:H5''	2.15	0.47
1:AA:853:G:H2'	1:AA:854:G:C8	2.47	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AB:187:LEU:CD1	2:AB:205:ASP:HA	2.45	0.47
2:AB:78:GLN:O	2:AB:81:VAL:HB	2.14	0.47
4:AD:120:LEU:HD23	4:AD:125:HIS:HD2	1.80	0.47
4:AD:2:GLY:O	4:AD:3:ARG:O	2.33	0.47
1:AA:826:C:H5''	8:AH:12:ARG:HH21	1.79	0.47
9:AI:70:LYS:O	9:AI:74:ILE:HG13	2.15	0.47
1:AA:625:G:H4'	16:AP:16:HIS:CD2	2.49	0.47
16:AP:4:ILE:CD1	16:AP:64:ALA:HB1	2.45	0.47
16:AP:39:TYR:CD1	16:AP:73:LEU:HD13	2.50	0.47
23:AX:19:U:C5	24:AY:127:THR:HB	2.49	0.47
24:AY:93:GLU:HA	24:AY:96:LYS:HB3	1.97	0.47
28:B3:17:LYS:HA	28:B3:17:LYS:HD3	1.68	0.47
35:BA:1033:U:N3	35:BA:2750:A:N1	2.63	0.47
35:BA:150:C:H2'	35:BA:151:C:C6	2.50	0.47
35:BA:1625:C:H2'	35:BA:1626:G:H5'	1.97	0.47
35:BA:1678:G:H22	35:BA:1989:G:H22	1.56	0.47
35:BA:659:C:H2'	35:BA:660:G:H8	1.79	0.47
38:BD:70:TRP:HZ3	38:BD:146:GLU:CD	2.18	0.47
39:BE:117:MET:O	39:BE:118:LYS:CB	2.63	0.47
40:BF:150:GLY:HA2	40:BF:172:TRP:CD2	2.50	0.47
41:BG:117:PHE:CE1	41:BG:120:LEU:HD23	2.50	0.47
41:BG:64:THR:HG23	41:BG:66:GLN:H	1.80	0.47
45:BK:95:LYS:CD	45:BK:95:LYS:N	2.76	0.47
47:BO:13:ASN:C	47:BO:15:GLY:N	2.68	0.47
48:BP:16:ARG:CB	48:BP:16:ARG:NH1	2.78	0.47
51:BS:42:ASP:C	51:BS:44:LYS:H	2.17	0.47
52:BT:122:ASP:O	52:BT:125:ARG:HB2	2.15	0.47
52:BT:57:PHE:O	52:BT:58:ASN:C	2.53	0.47
53:BU:90:VAL:HG13	54:BV:39:LEU:CD2	2.44	0.47
54:BV:91:TYR:C	54:BV:91:TYR:CD1	2.88	0.47
58:BZ:107:THR:HG23	58:BZ:111:VAL:HG21	1.97	0.47
1:CA:1300:G:H1'	1:CA:1301:U:H5	1.79	0.47
1:CA:178:C:H2'	1:CA:179:A:H8	1.79	0.47
1:CA:517:G:H2'	1:CA:531:U:C5	2.50	0.47
1:CA:709:G:O2'	1:CA:710:G:H5'	2.15	0.47
1:CA:908:A:H2'	1:CA:909:A:H8	1.80	0.47
1:CA:939:G:H2'	1:CA:940:C:H6	1.78	0.47
5:CE:39:GLY:HA2	5:CE:69:VAL:HB	1.97	0.47
6:CF:99:ALA:O	6:CF:100:ASN:HB2	2.15	0.47
7:CG:82:GLY:HA2	23:CX:14:A:H61	1.80	0.47
12:CL:84:LEU:HB3	12:CL:101:VAL:HB	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:CQ:46:ASP:OD1	17:CQ:49:GLU:HA	2.15	0.47
29:D4:24:THR:HG22	41:DG:104:GLU:OE1	2.14	0.47
31:D6:11:LEU:HD12	31:D6:26:ASN:OD1	2.14	0.47
33:D8:14:VAL:HG21	33:D8:22:VAL:CG1	2.40	0.47
34:D9:30:PRO:O	34:D9:32:HIS:N	2.48	0.47
35:DA:1039:G:C6	35:DA:1040:C:N4	2.83	0.47
35:DA:1040:C:N3	35:DA:1115:G:O6	2.48	0.47
35:DA:1038:C:N4	35:DA:1117:G:H1	2.13	0.47
35:DA:1174:A:H5''	35:DA:1175:U:H5'	1.97	0.47
35:DA:1499:C:H2'	35:DA:1500:G:H5'	1.97	0.47
35:DA:2114:A:N6	35:DA:2115:G:H21	2.13	0.47
35:DA:2172:U:H3'	35:DA:2173:A:H8	1.79	0.47
35:DA:27:G:N2	35:DA:512:G:H2'	2.30	0.47
35:DA:512:G:C2'	35:DA:513:A:OP2	2.63	0.47
35:DA:963:U:H2'	35:DA:964:C:H6	1.79	0.47
37:DC:43:GLU:HG2	37:DC:216:THR:O	2.15	0.47
38:DD:211:ARG:HA	38:DD:214:TRP:CD2	2.50	0.47
41:DG:52:ILE:HG13	41:DG:53:LEU:N	2.20	0.47
42:DH:19:VAL:HG11	42:DH:44:VAL:HG22	1.96	0.47
43:DI:76:THR:HG21	43:DI:141:LYS:HD2	1.97	0.47
48:DP:18:ARG:HH11	48:DP:18:ARG:C	2.18	0.47
35:DA:2870:C:C5'	50:DR:65:LEU:HD21	2.45	0.47
35:DA:89:G:OP1	57:DY:33:LYS:HE2	2.15	0.47
1:AA:1131:G:H2'	1:AA:1132:C:C6	2.50	0.47
1:AA:1301:U:H3'	1:AA:1302:U:H5''	1.97	0.47
1:AA:926:G:N2	1:AA:1505:G:H2'	2.30	0.47
1:AA:279:A:OP2	17:AQ:95:TYR:OH	2.32	0.47
1:AA:313:A:H2'	1:AA:314:C:C6	2.50	0.47
1:AA:564:C:H5'	17:AQ:32:TYR:CE2	2.50	0.47
1:AA:984:C:H2'	1:AA:985:C:H6	1.76	0.47
2:AB:168:THR:O	2:AB:169:LYS:C	2.53	0.47
2:AB:95:GLN:HE21	2:AB:147:LYS:HG2	1.79	0.47
3:AC:167:TRP:CG	3:AC:168:ALA:N	2.82	0.47
1:AA:1205:U:C1'	3:AC:195:VAL:HG21	2.43	0.47
4:AD:121:VAL:CA	4:AD:126:ILE:HD13	2.44	0.47
7:AG:120:ILE:CD1	7:AG:120:ILE:H	2.27	0.47
7:AG:79:ARG:HG3	7:AG:83:ALA:O	2.15	0.47
8:AH:1:MET:H3	8:AH:1:MET:HE2	1.80	0.47
1:AA:878:G:H5''	8:AH:89:PRO:HG2	1.94	0.47
12:AL:22:SER:C	12:AL:24:VAL:H	2.19	0.47
12:AL:47:LYS:HE2	12:AL:48:PRO:HD3	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:AL:91:LYS:O	12:AL:92:ASP:HB2	2.14	0.47
19:AS:29:ARG:O	19:AS:31:ILE:HG22	2.15	0.47
24:AY:270:LYS:O	24:AY:274:LEU:HB2	2.15	0.47
24:AY:73:LEU:HG	24:AY:73:LEU:O	2.15	0.47
27:B2:40:SER:OG	56:BX:11:PRO:HD2	2.15	0.47
35:BA:1076:C:H2'	35:BA:1077:A:H8	1.79	0.47
35:BA:1216:G:P	53:BU:12:ARG:HH21	2.38	0.47
35:BA:1349:A:N6	35:BA:1598:C:H42	2.12	0.47
35:BA:1472:A:C2'	35:BA:1473:G:H5'	2.45	0.47
35:BA:1516:C:H2'	35:BA:1517:G:H8	1.80	0.47
35:BA:1812:A:H2'	35:BA:1813:G:C8	2.50	0.47
35:BA:1858:G:O2'	35:BA:1884:A:N6	2.48	0.47
35:BA:196:A:H2'	35:BA:196:A:N3	2.30	0.47
35:BA:1993:U:H2'	35:BA:1994:C:O4'	2.15	0.47
35:BA:2287:A:H2	35:BA:2346:A:N1	2.13	0.47
35:BA:2656:U:C2'	35:BA:2657:A:H5''	2.44	0.47
35:BA:289:A:H2'	35:BA:290:G:O4'	2.15	0.47
32:B7:40:TRP:CZ3	35:BA:459:U:H4'	2.50	0.47
35:BA:631:A:H2'	35:BA:632:A:O4'	2.15	0.47
35:BA:634:C:H2'	35:BA:635:C:C6	2.50	0.47
35:BA:650:C:C3'	35:BA:651:G:H5''	2.41	0.47
35:BA:654(B):C:H5	35:BA:654(D):G:C4	2.33	0.47
35:BA:654(T):C:O5'	35:BA:654(T):C:H6	1.98	0.47
35:BA:662:G:H5''	48:BP:18:ARG:O	2.15	0.47
36:BB:43:C:H5'	36:BB:44:G:OP2	2.15	0.47
38:BD:134:ARG:HG3	38:BD:135:PHE:CE2	2.50	0.47
38:BD:24:ILE:O	38:BD:25:THR:O	2.32	0.47
40:BF:68:LYS:C	40:BF:70:THR:H	2.17	0.47
42:BH:41:MET:HG3	42:BH:43:VAL:N	2.26	0.47
42:BH:43:VAL:CA	42:BH:46:GLU:OE2	2.63	0.47
45:BK:93:ARG:HD2	45:BK:93:ARG:C	2.35	0.47
48:BP:65:ARG:HH11	48:BP:65:ARG:HG3	1.80	0.47
50:BR:33:ARG:NE	50:BR:115:GLU:HG3	2.28	0.47
51:BS:106:ARG:CZ	51:BS:106:ARG:HB3	2.45	0.47
52:BT:117:ASP:O	52:BT:118:ARG:C	2.53	0.47
52:BT:128:GLU:O	52:BT:129:ARG:C	2.53	0.47
52:BT:31:SER:C	52:BT:32:TYR:CD2	2.88	0.47
52:BT:40:THR:O	52:BT:41:ARG:CB	2.63	0.47
52:BT:35:LYS:HE2	52:BT:41:ARG:HG3	1.96	0.47
53:BU:102:GLU:HG3	54:BV:2:PHE:CZ	2.50	0.47
58:BZ:129:SER:HB2	58:BZ:130:PRO:CD	2.45	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
58:BZ:99:TYR:HD2	58:BZ:99:TYR:N	2.13	0.47
1:CA:985:C:H42	1:CA:1220:G:H1	1.62	0.47
1:CA:1221:G:O2'	1:CA:1222:G:H5'	2.14	0.47
1:CA:1472:U:O2'	1:CA:1473:A:H5'	2.15	0.47
1:CA:562:C:H1'	12:CL:15:ARG:HD2	1.95	0.47
1:CA:643:C:H5'	8:CH:31:PHE:CE1	2.50	0.47
1:CA:91:C:O2	1:CA:91:C:C2'	2.60	0.47
2:CB:217:ARG:HG3	2:CB:217:ARG:HH11	1.80	0.47
3:CC:119:ARG:HG3	3:CC:119:ARG:NH1	2.29	0.47
4:CD:65:ARG:HG3	4:CD:75:PHE:CD1	2.50	0.47
1:CA:19:C:H5''	5:CE:86:ALA:CB	2.44	0.47
6:CF:29:ALA:HB3	6:CF:30:LEU:HD23	1.97	0.47
9:CI:10:ARG:HH11	9:CI:105:ASP:N	2.13	0.47
1:CA:963:G:N2	10:CJ:55:LYS:CD	2.78	0.47
12:CL:35:GLY:HA3	12:CL:58:VAL:CG1	2.45	0.47
16:CP:39:TYR:CD1	16:CP:73:LEU:HD13	2.49	0.47
18:CR:25:THR:HG22	18:CR:42:ARG:HH12	1.79	0.47
18:CR:37:VAL:HG23	18:CR:38:GLU:N	2.26	0.47
18:CR:44:LEU:HD12	18:CR:44:LEU:N	2.30	0.47
22:CV:37:A:H3'	22:CV:38:A:H8	1.79	0.47
22:CW:48:C:C5	22:CW:59:U:H1'	2.50	0.47
22:CW:63:G:H2'	22:CW:64:A:C5'	2.41	0.47
13:CM:125:ARG:CB	24:CY:159:GLY:HA3	2.45	0.47
13:CM:125:ARG:CG	24:CY:160:PRO:HD2	2.34	0.47
26:D1:29:GLY:C	26:D1:30:VAL:HG23	2.35	0.47
26:D1:76:ARG:HH21	26:D1:95:LEU:CD2	2.28	0.47
27:D2:66:GLU:O	27:D2:68:ARG:N	2.48	0.47
35:DA:1111:A:O2'	35:DA:1112:G:H4'	2.15	0.47
35:DA:1499:C:C2'	35:DA:1500:G:H5'	2.44	0.47
35:DA:1525:G:H2'	35:DA:1526:G:H8	1.79	0.47
35:DA:2410:G:H2'	35:DA:2411:A:O4'	2.15	0.47
35:DA:2787:C:H1'	39:DE:61:ARG:HD2	1.96	0.47
36:DB:56:G:H5'	41:DG:27:ASN:HD21	1.80	0.47
38:DD:46:GLN:N	38:DD:46:GLN:OE1	2.48	0.47
38:DD:58:HIS:CD2	38:DD:59:LYS:N	2.83	0.47
43:DI:58:LEU:C	43:DI:60:GLU:H	2.17	0.47
46:DN:42:TRP:CD1	53:DU:63:VAL:HG11	2.50	0.47
46:DN:56:ASN:C	46:DN:57:ALA:O	2.51	0.47
48:DP:86:LYS:HG3	48:DP:117:GLU:O	2.15	0.47
58:DZ:63:ASP:C	58:DZ:65:GLN:H	2.19	0.47
1:AA:1170:A:H2'	1:AA:1171:G:H5'	1.96	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1228:C:H2'	1:AA:1229:A:C8	2.49	0.46
1:AA:1519:A:C2'	1:AA:1520:G:H5'	2.44	0.46
1:AA:598:U:H4'	8:AH:94:TYR:CG	2.51	0.46
1:AA:865:A:C2	1:AA:918:A:H4'	2.50	0.46
1:AA:959:A:H2'	1:AA:960:U:C4'	2.44	0.46
2:AB:118:LEU:HD13	2:AB:142:LEU:HB2	1.97	0.46
2:AB:44:LEU:CD1	2:AB:44:LEU:H	2.28	0.46
3:AC:112:SER:O	3:AC:116:VAL:HG23	2.16	0.46
9:AI:118:LYS:NZ	9:AI:118:LYS:CB	2.78	0.46
10:AJ:24:VAL:O	10:AJ:28:ARG:HG3	2.15	0.46
12:AL:117:ARG:HB3	12:AL:122:THR:HB	1.97	0.46
14:AN:31:ARG:HH11	14:AN:31:ARG:HG3	1.79	0.46
19:AS:28:LYS:HZ1	19:AS:29:ARG:NH2	2.13	0.46
20:AT:33:ILE:HG22	20:AT:34:LYS:N	2.30	0.46
27:B2:55:ARG:NH1	35:BA:75:G:H4'	2.30	0.46
33:B8:35:GLN:HG2	33:B8:35:GLN:O	2.14	0.46
35:BA:1430:C:H2'	35:BA:1431:U:H6	1.78	0.46
35:BA:1509(B):A:H2'	35:BA:1510:G:H8	1.81	0.46
35:BA:2305:A:C2	35:BA:2306:C:H1'	2.50	0.46
35:BA:2370:G:H2'	35:BA:2371:G:O4'	2.15	0.46
35:BA:2567:G:H2'	35:BA:2568:C:C6	2.51	0.46
35:BA:272(I):U:O4	35:BA:363(A):A:N1	2.48	0.46
35:BA:2761:G:C2'	35:BA:2762:G:H5''	2.45	0.46
35:BA:435:C:H2'	35:BA:436:C:H5'	1.97	0.46
35:BA:962:G:O2'	35:BA:963:U:H5'	2.15	0.46
38:BD:263:ARG:CZ	38:BD:263:ARG:HB2	2.46	0.46
40:BF:4:VAL:HG11	40:BF:17:ARG:HD3	1.96	0.46
41:BG:41:GLN:HE21	41:BG:155:MET:HB3	1.80	0.46
41:BG:29:TRP:HE3	41:BG:33:ARG:NH2	2.13	0.46
41:BG:61:ALA:HB2	41:BG:68:PRO:CD	2.45	0.46
45:BK:55:VAL:CG2	45:BK:69:THR:HG23	2.42	0.46
47:BO:107:ARG:NH2	52:BT:35:LYS:HD2	2.30	0.46
48:BP:136:GLU:O	48:BP:139:LYS:N	2.43	0.46
48:BP:18:ARG:HH11	48:BP:18:ARG:C	2.18	0.46
51:BS:74:ALA:CB	51:BS:103:GLU:HG3	2.45	0.46
51:BS:64:GLU:N	51:BS:64:GLU:OE2	2.47	0.46
56:BX:8:ILE:H	56:BX:8:ILE:HD12	1.78	0.46
57:BY:59:GLY:O	57:BY:60:PHE:CB	2.64	0.46
58:BZ:69:THR:HG22	58:BZ:90:VAL:CA	2.32	0.46
1:CA:1118:C:H1'	1:CA:1179:A:C4	2.50	0.46
1:CA:45:U:H2'	1:CA:46:G:C8	2.50	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:604:G:O2'	1:CA:605:U:H5'	2.15	0.46
3:CC:156:ARG:NH2	3:CC:161:GLU:HA	2.30	0.46
5:CE:135:THR:O	5:CE:138:ALA:HB3	2.15	0.46
6:CF:78:GLU:O	6:CF:81:ILE:HG13	2.15	0.46
8:CH:102:ARG:N	8:CH:102:ARG:HD3	2.30	0.46
10:CJ:6:ILE:HG22	10:CJ:98:ILE:HG23	1.96	0.46
1:CA:911:U:OP2	12:CL:97:ARG:NH2	2.48	0.46
13:CM:14:ARG:HD2	13:CM:42:ALA:HA	1.97	0.46
13:CM:65:LYS:HD2	13:CM:69:GLU:HG3	1.96	0.46
1:CA:1318:A:H1'	19:CS:37:ARG:NH2	2.30	0.46
20:CT:25:ARG:HG3	20:CT:25:ARG:HH11	1.79	0.46
24:CY:279:LEU:HD23	24:CY:283:LEU:CD1	2.44	0.46
24:CY:15:GLY:O	24:CY:62:PHE:HE1	1.98	0.46
27:D2:47:ASN:HB3	27:D2:48:HIS:H	1.32	0.46
33:D8:29:LYS:HG3	33:D8:29:LYS:O	2.15	0.46
35:DA:1048:A:N6	35:DA:1053:C:N4	2.64	0.46
35:DA:118:A:O2'	35:DA:178:G:H5'	2.15	0.46
35:DA:1722:A:C2	35:DA:1740:G:H8	2.33	0.46
35:DA:1858:G:O2'	35:DA:1884:A:N6	2.47	0.46
35:DA:2370:G:H2'	35:DA:2371:G:O4'	2.15	0.46
35:DA:2443:C:O2'	35:DA:2444:G:H5'	2.16	0.46
35:DA:2680:C:O2'	35:DA:2681:C:H5'	2.15	0.46
4:AD:166:LYS:HB3	38:DD:135:PHE:CZ	2.50	0.46
42:DH:74:ASN:ND2	42:DH:138:LYS:HD3	2.28	0.46
45:DK:30:HIS:CD2	45:DK:30:HIS:N	2.83	0.46
46:DN:133:GLN:O	46:DN:134:ARG:HB3	2.15	0.46
48:DP:16:ARG:CZ	48:DP:18:ARG:CG	2.93	0.46
52:DT:105:LEU:O	52:DT:107:ASP:OD1	2.33	0.46
47:DO:107:ARG:CZ	52:DT:35:LYS:HD2	2.45	0.46
52:DT:28:VAL:CG1	52:DT:46:GLU:HA	2.39	0.46
57:DY:19:LYS:HB3	57:DY:20:TYR:CD1	2.50	0.46
57:DY:68:HIS:CE1	57:DY:70:SER:HB3	2.50	0.46
57:DY:97:ARG:HB2	57:DY:97:ARG:CZ	2.41	0.46
49:DQ:137:TYR:CE2	58:DZ:81:ARG:NH1	2.83	0.46
1:AA:1040:U:H2'	1:AA:1041:A:H8	1.79	0.46
1:AA:136:C:H2'	1:AA:137:C:C6	2.50	0.46
1:AA:173:U:H5''	1:AA:197:A:O4'	2.16	0.46
1:AA:160:A:H1'	1:AA:344:A:N7	2.30	0.46
2:AB:77:ALA:CB	2:AB:165:VAL:HG11	2.45	0.46
2:AB:187:LEU:HD23	2:AB:201:ILE:CG2	2.41	0.46
3:AC:138:VAL:HG13	3:AC:149:ALA:CB	2.45	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AC:196:LEU:H	3:AC:196:LEU:CD2	2.28	0.46
4:AD:12:CYS:HB3	4:AD:18:LYS:HA	1.96	0.46
6:AF:16:GLN:NE2	6:AF:16:GLN:H	2.12	0.46
6:AF:50:TYR:CE1	18:AR:77:GLY:HA2	2.51	0.46
7:AG:120:ILE:HG22	7:AG:124:LEU:CD1	2.45	0.46
9:AI:10:ARG:HH11	9:AI:105:ASP:N	2.12	0.46
12:AL:18:VAL:O	12:AL:19:ARG:CB	2.63	0.46
1:AA:1228:C:H5''	13:AM:108:ARG:HH22	1.80	0.46
16:AP:21:VAL:HG11	16:AP:59:TRP:NE1	2.30	0.46
16:AP:56:ALA:O	16:AP:60:LEU:HG	2.14	0.46
18:AR:51:LEU:HA	18:AR:52:PRO:HD3	1.77	0.46
20:AT:89:ARG:CD	20:AT:104:LEU:HD11	2.45	0.46
20:AT:69:GLY:O	20:AT:73:HIS:CD2	2.68	0.46
22:AW:70:G:C3'	22:AW:71:G:H5''	2.44	0.46
24:AY:233:ARG:HB2	35:BA:2555:U:O2	2.14	0.46
30:B5:3:LYS:HE3	35:BA:2611:U:H1'	1.96	0.46
33:B8:33:ASN:HA	33:B8:36:LYS:CD	2.45	0.46
35:BA:1048:A:N6	35:BA:1053:C:N4	2.63	0.46
35:BA:1057:A:N6	35:BA:1086:A:H2'	2.31	0.46
35:BA:1281:G:O2'	35:BA:1282:U:H5'	2.15	0.46
35:BA:1366:A:C2'	35:BA:1367:A:H5'	2.45	0.46
35:BA:2030:A:H4'	35:BA:2031:A:C8	2.50	0.46
35:BA:2780:G:OP2	46:BN:118:LYS:HE2	2.15	0.46
35:BA:443:A:H1'	35:BA:1201:C:O4'	2.15	0.46
37:BC:6:LYS:HA	37:BC:9:ARG:CB	2.45	0.46
39:BE:100:GLU:O	39:BE:172:VAL:HG23	2.15	0.46
40:BF:133:ASN:HD22	40:BF:133:ASN:H	1.63	0.46
40:BF:201:VAL:HA	40:BF:204:ASN:HD22	1.81	0.46
42:BH:149:ARG:HG3	42:BH:162:ILE:O	2.15	0.46
35:BA:1058:G:H21	45:BK:126:MET:HE3	1.79	0.46
46:BN:45:ASN:HD22	46:BN:45:ASN:H	1.62	0.46
47:BO:104:ARG:CZ	52:BT:33:LYS:HD2	2.45	0.46
47:BO:97:ARG:HG3	47:BO:97:ARG:NH1	2.27	0.46
39:BE:111:ARG:CA	50:BR:2:ARG:HG2	2.32	0.46
52:BT:40:THR:HB	52:BT:41:ARG:H	1.58	0.46
52:BT:89:VAL:O	52:BT:91:ARG:N	2.48	0.46
54:BV:25:LEU:H	54:BV:92:THR:HG21	1.80	0.46
1:CA:1452:C:O2	1:CA:1456:G:N1	2.48	0.46
1:CA:1456:G:O3'	20:CT:39:LYS:NZ	2.49	0.46
1:CA:59:A:H5'	1:CA:60:A:H5''	1.95	0.46
1:CA:714:G:H2'	1:CA:715:A:C8	2.50	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CC:167:TRP:CG	3:CC:168:ALA:N	2.82	0.46
4:CD:60:GLU:HG2	4:CD:202:LEU:HD12	1.96	0.46
6:CF:5:GLU:HG2	6:CF:62:TRP:CZ2	2.50	0.46
10:CJ:58:ASP:O	10:CJ:60:ARG:N	2.48	0.46
17:CQ:59:ILE:HG22	17:CQ:71:PHE:HD1	1.80	0.46
20:CT:72:LEU:HD21	20:CT:80:ARG:HE	1.80	0.46
24:CY:139:MET:CE	24:CY:341:LEU:HD21	2.44	0.46
24:CY:155:ASP:HB3	24:CY:168:GLN:HB3	1.96	0.46
24:CY:116:ALA:HB2	24:CY:177:TYR:CD1	2.50	0.46
24:CY:24:THR:O	24:CY:28:GLU:HG3	2.16	0.46
24:CY:60:ASP:O	24:CY:63:ARG:HB2	2.15	0.46
34:D9:13:LYS:HE3	34:D9:28:GLU:OE1	2.15	0.46
35:DA:1169:G:H2'	35:DA:1170:G:O4'	2.15	0.46
35:DA:1372:U:H2'	35:DA:1373:A:O4'	2.15	0.46
35:DA:1469:A:H2'	35:DA:1470:G:C8	2.51	0.46
35:DA:1885:A:H3'	35:DA:1886:C:H6	1.79	0.46
35:DA:528:A:H2	35:DA:2043:C:H5'	1.80	0.46
35:DA:2082:A:H2'	35:DA:2083:G:O4'	2.16	0.46
35:DA:229:A:H5''	35:DA:230:U:H5'	1.97	0.46
35:DA:2405:G:HO2'	35:DA:2406:U:P	2.39	0.46
35:DA:2547:U:H2'	35:DA:2548:G:H8	1.80	0.46
35:DA:634:C:H2'	35:DA:635:C:C6	2.49	0.46
38:DD:175:LEU:HD12	38:DD:185:VAL:HG21	1.98	0.46
39:DE:132:HIS:O	39:DE:135:HIS:CD2	2.68	0.46
42:DH:25:LYS:HG3	42:DH:34:GLU:HG2	1.97	0.46
42:DH:19:VAL:CG1	42:DH:44:VAL:HG22	2.43	0.46
42:DH:94:TYR:H	42:DH:94:TYR:HD1	1.64	0.46
45:DK:93:ARG:HD2	45:DK:93:ARG:C	2.35	0.46
51:DS:25:ARG:NH1	51:DS:42:ASP:OD1	2.47	0.46
54:DV:47:VAL:O	54:DV:48:GLY:C	2.54	0.46
54:DV:75:PHE:CD1	54:DV:75:PHE:C	2.89	0.46
56:DX:35:THR:HG22	56:DX:37:THR:H	1.81	0.46
56:DX:57:LEU:HD22	56:DX:57:LEU:O	2.16	0.46
57:DY:2:ARG:HD3	57:DY:2:ARG:C	2.35	0.46
58:DZ:30:ASN:ND2	58:DZ:90:VAL:CG1	2.78	0.46
1:AA:1020:U:H2'	1:AA:1021:G:H8	1.80	0.46
1:AA:1207:G:H2'	1:AA:1208:C:H6	1.80	0.46
1:AA:1220:G:O3'	19:AS:36:ARG:HD3	2.16	0.46
1:AA:161:A:H2'	1:AA:162:A:C8	2.51	0.46
1:AA:64:G:H4'	1:AA:65:U:H5''	1.97	0.46
1:AA:932:C:H5'	7:AG:4:ARG:CG	2.45	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AC:155:GLY:HA3	3:AC:163:ALA:HB1	1.98	0.46
6:AF:5:GLU:HG2	6:AF:62:TRP:CZ2	2.50	0.46
7:AG:121:ALA:O	7:AG:125:MET:HG3	2.15	0.46
8:AH:102:ARG:N	8:AH:102:ARG:HD3	2.30	0.46
11:AK:70:LYS:O	11:AK:73:MET:HG2	2.16	0.46
12:AL:22:SER:O	12:AL:24:VAL:N	2.48	0.46
13:AM:14:ARG:HD2	13:AM:42:ALA:HA	1.96	0.46
10:AJ:50:ILE:HD11	14:AN:41:ARG:CZ	2.45	0.46
17:AQ:7:THR:HG22	17:AQ:58:GLU:CG	2.40	0.46
22:AW:39:U:C2'	22:AW:40:C:C5'	2.87	0.46
24:AY:283:LEU:O	24:AY:287:GLU:N	2.48	0.46
24:AY:139:MET:HG3	24:AY:337:LEU:HA	1.98	0.46
26:B1:62:VAL:HG11	26:B1:70:VAL:HG21	1.96	0.46
29:B4:25:TYR:CD2	41:BG:2:PRO:HG3	2.50	0.46
35:BA:1028:A:N6	35:BA:1125:G:H2'	2.30	0.46
35:BA:1043:C:O5'	35:BA:1043:C:H6	1.97	0.46
35:BA:1488:G:H5'	35:BA:1489:U:OP2	2.14	0.46
35:BA:1817:G:C2'	35:BA:1818:U:H5'	2.44	0.46
35:BA:1883:G:HO2'	35:BA:1884:A:H8	1.62	0.46
35:BA:2137:C:H2'	35:BA:2138:C:C6	2.51	0.46
35:BA:2317:C:H2'	35:BA:2318:G:C5'	2.45	0.46
35:BA:2347:C:H2'	35:BA:2348:U:C6	2.50	0.46
35:BA:2461:C:H2'	35:BA:2462:U:H6	1.81	0.46
35:BA:398:G:H2'	35:BA:399:G:C8	2.51	0.46
35:BA:963:U:H2'	35:BA:964:C:H6	1.80	0.46
36:BB:81:G:N3	36:BB:81:G:H5'	2.30	0.46
41:BG:45:GLU:OE2	41:BG:45:GLU:HA	2.14	0.46
42:BH:127:GLU:HB3	42:BH:128:PRO:HD2	1.96	0.46
43:BI:63:ALA:O	43:BI:66:GLU:HG2	2.15	0.46
46:BN:9:VAL:CG1	46:BN:10:GLU:H	2.28	0.46
47:BO:107:ARG:C	47:BO:109:LYS:H	2.19	0.46
35:BA:662:G:P	48:BP:18:ARG:HD2	2.56	0.46
49:BQ:18:LYS:HD2	49:BQ:18:LYS:N	2.27	0.46
51:BS:85:VAL:CG2	51:BS:106:ARG:HB2	2.45	0.46
46:BN:42:TRP:CD1	53:BU:63:VAL:HG11	2.50	0.46
35:BA:494:G:H21	55:BW:57:ASN:HD21	1.61	0.46
57:BY:86:ARG:HD2	57:BY:88:LYS:HD2	1.97	0.46
58:BZ:3:TYR:N	58:BZ:56:VAL:O	2.48	0.46
49:BQ:141:GLN:HB3	58:BZ:99:TYR:CE2	2.50	0.46
1:CA:1225:A:H2'	1:CA:1225:A:N3	2.30	0.46
1:CA:1242:C:H5''	21:CU:10:ARG:NH1	2.30	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:1309:G:C6	1:CA:1329:A:C2	3.04	0.46
1:CA:33:A:H2'	1:CA:34:C:C6	2.51	0.46
1:CA:450:G:H4'	16:CP:41:PRO:O	2.16	0.46
1:CA:568:G:O6	12:CL:5:PRO:HD3	2.15	0.46
2:CB:162:ILE:O	2:CB:162:ILE:HG13	2.15	0.46
4:CD:196:LEU:HD12	4:CD:196:LEU:N	2.23	0.46
6:CF:17:SER:O	6:CF:20:ALA:HB3	2.15	0.46
6:CF:39:LYS:H	6:CF:64:GLN:HB3	1.80	0.46
1:CA:564:C:O2'	8:CH:91:ARG:NH2	2.48	0.46
10:CJ:4:ILE:HB	10:CJ:74:ILE:HD11	1.97	0.46
11:CK:54:ARG:NH1	22:CW:39:U:O2'	2.48	0.46
12:CL:18:VAL:O	12:CL:19:ARG:CB	2.63	0.46
12:CL:93:LEU:O	12:CL:96:VAL:HG23	2.16	0.46
22:CW:29:G:H2'	22:CW:30:G:C8	2.49	0.46
29:D4:34:GLU:CD	29:D4:34:GLU:N	2.68	0.46
31:D6:15:GLU:OE2	31:D6:41:PRO:HG3	2.15	0.46
31:D6:15:GLU:OE2	31:D6:47:THR:HB	2.14	0.46
35:DA:1332:G:C8	35:DA:1332:G:H5''	2.47	0.46
35:DA:145:G:C3'	35:DA:146:G:H5''	2.46	0.46
35:DA:239:U:H2'	35:DA:240:G:O4'	2.14	0.46
35:DA:2063:C:O2	35:DA:2450:A:N1	2.48	0.46
35:DA:2645:G:C3'	35:DA:2646:C:H5'	2.34	0.46
32:D7:5:TRP:CZ3	35:DA:464:U:H4'	2.50	0.46
38:DD:70:TRP:CZ3	38:DD:146:GLU:OE2	2.68	0.46
38:DD:210:GLY:O	38:DD:212:SER:N	2.44	0.46
40:DF:165:ARG:NH1	40:DF:165:ARG:HG3	2.30	0.46
41:DG:3:LEU:HD12	41:DG:97:ASP:OD2	2.15	0.46
35:DA:558:G:P	46:DN:111:PRO:HD2	2.55	0.46
51:DS:40:ILE:HG22	51:DS:41:ASP:N	2.30	0.46
52:DT:35:LYS:HE2	52:DT:41:ARG:HG3	1.96	0.46
52:DT:57:PHE:O	52:DT:58:ASN:C	2.53	0.46
55:DW:10:VAL:HG12	55:DW:12:ILE:HG22	1.96	0.46
56:DX:65:ARG:O	56:DX:66:LEU:HB2	2.16	0.46
1:AA:1261:A:N1	1:AA:1275:A:H1'	2.30	0.46
1:AA:186:C:O2'	1:AA:187:C:H5'	2.14	0.46
1:AA:189(I):G:O2'	1:AA:189(J):G:H5'	2.15	0.46
1:AA:33:A:H2'	1:AA:34:C:C6	2.51	0.46
1:AA:402:G:C2'	1:AA:403:C:H5'	2.45	0.46
1:AA:656:C:H2'	1:AA:657:G:H8	1.80	0.46
1:AA:911:U:H2'	1:AA:912:C:C6	2.50	0.46
3:AC:113:ALA:HB3	3:AC:114:PRO:CD	2.41	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:AI:4:TYR:CG	9:AI:19:LEU:HB2	2.51	0.46
13:AM:90:LEU:O	13:AM:92:HIS:N	2.48	0.46
20:AT:25:ARG:HG3	20:AT:25:ARG:HH11	1.81	0.46
1:AA:186:C:H5'	20:AT:78:ALA:HB1	1.98	0.46
22:AV:50:U:O2'	22:AV:51:U:H5'	2.15	0.46
24:AY:220:VAL:HG12	24:AY:222:LEU:HD22	1.97	0.46
24:AY:232:MET:HB2	35:BA:2555:U:H3	1.81	0.46
24:AY:75:LEU:N	24:AY:75:LEU:HD22	2.30	0.46
24:AY:77:GLU:HG2	24:AY:84:ARG:CG	2.45	0.46
24:AY:95:ALA:O	24:AY:98:LEU:HB3	2.15	0.46
25:B0:41:ARG:HD2	25:B0:41:ARG:HA	1.65	0.46
27:B2:21:LEU:O	27:B2:25:VAL:HG23	2.15	0.46
31:B6:30:THR:O	31:B6:32:ASN:N	2.48	0.46
35:BA:1169:G:H2'	35:BA:1170:G:O4'	2.15	0.46
35:BA:1529:G:N3	35:BA:1529:G:H2'	2.30	0.46
35:BA:1998:G:H4'	35:BA:2724:C:O2'	2.14	0.46
35:BA:2206:G:N2	35:BA:2207:G:H5'	2.31	0.46
35:BA:2287:A:C2	35:BA:2346:A:N1	2.84	0.46
35:BA:2637:U:O2'	35:BA:2638:G:H5'	2.16	0.46
35:BA:272(H):C:C2'	35:BA:272(I):U:C5'	2.93	0.46
35:BA:654(B):C:H2'	35:BA:654(C):G:C8	2.50	0.46
36:BB:111:G:O2'	36:BB:112:U:H5'	2.16	0.46
37:BC:6:LYS:HA	37:BC:9:ARG:HB2	1.98	0.46
38:BD:117:VAL:CG1	38:BD:118:VAL:N	2.78	0.46
38:BD:72:LYS:HE3	38:BD:101:GLU:OE2	2.15	0.46
35:BA:607:U:H5''	40:BF:103:LYS:HE3	1.96	0.46
41:BG:109:VAL:HG11	41:BG:142:PRO:HD3	1.98	0.46
41:BG:111:LEU:HD22	41:BG:120:LEU:HD21	1.97	0.46
41:BG:83:ARG:HB2	41:BG:83:ARG:NH1	2.29	0.46
43:BI:52:ARG:HG3	43:BI:53:ALA:H	1.79	0.46
48:BP:101:VAL:HB	48:BP:107:LYS:CA	2.36	0.46
49:BQ:16:ARG:CB	49:BQ:18:LYS:NZ	2.72	0.46
51:BS:92:TYR:CG	51:BS:93:LYS:N	2.83	0.46
53:BU:101:ARG:C	53:BU:102:GLU:HG2	2.35	0.46
57:BY:76:CYS:HB2	57:BY:96:ILE:HD11	1.93	0.46
1:CA:1131:G:H2'	1:CA:1132:C:C6	2.51	0.46
1:CA:1437:C:O2'	1:CA:1438:G:H5'	2.14	0.46
1:CA:1461:G:O2'	1:CA:1462:G:H5'	2.16	0.46
1:CA:1503:A:HO2'	1:CA:1504:G:P	2.37	0.46
1:CA:1504:G:OP1	1:CA:1507:A:H4'	2.14	0.46
1:CA:335:C:H2'	1:CA:336:C:C6	2.50	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:495:A:H4'	1:CA:496:A:OP1	2.14	0.46
1:CA:664:G:H22	1:CA:741:G:H1	1.61	0.46
1:CA:769:G:O2'	1:CA:770:C:H5'	2.15	0.46
1:CA:963:G:H21	10:CJ:55:LYS:NZ	2.09	0.46
2:CB:187:LEU:HD23	2:CB:201:ILE:CG2	2.41	0.46
2:CB:204:ASN:ND2	2:CB:207:ALA:H	2.14	0.46
2:CB:8:LYS:O	2:CB:12:GLU:HG3	2.14	0.46
8:CH:121:ASP:CG	8:CH:122:ARG:H	2.18	0.46
8:CH:17:THR:HG22	8:CH:63:LEU:HG	1.97	0.46
13:CM:81:LEU:O	13:CM:89:GLY:HA3	2.15	0.46
13:CM:97:PRO:O	13:CM:98:VAL:HA	2.16	0.46
16:CP:56:ALA:O	16:CP:60:LEU:HG	2.15	0.46
22:CW:39:U:C3'	22:CW:40:C:C5'	2.93	0.46
24:CY:286:LEU:HA	24:CY:289:LYS:HB2	1.97	0.46
24:CY:15:GLY:O	24:CY:62:PHE:CE1	2.69	0.46
24:CY:75:LEU:HD22	24:CY:75:LEU:N	2.30	0.46
25:D0:3:HIS:CD2	25:D0:4:LYS:N	2.83	0.46
30:D5:33:CYS:CB	30:D5:40:LYS:HE3	2.45	0.46
35:DA:1081:U:H2'	35:DA:1082:U:H6	1.80	0.46
35:DA:1243:G:O2'	48:DP:9:ASN:CA	2.63	0.46
35:DA:1419:A:H2'	35:DA:1421:G:N7	2.29	0.46
35:DA:1862:G:O2'	35:DA:1863:G:H5'	2.15	0.46
35:DA:2712:U:H1'	35:DA:2712(A):A:C8	2.50	0.46
35:DA:324:A:N6	35:DA:338:G:O2'	2.48	0.46
35:DA:402:A:O2'	35:DA:403:U:H5'	2.14	0.46
35:DA:480:A:OP2	57:DY:46:LYS:HE2	2.15	0.46
35:DA:889:C:O4'	35:DA:889:C:O2	2.33	0.46
37:DC:6:LYS:HA	37:DC:9:ARG:CB	2.45	0.46
38:DD:31:LYS:HB3	38:DD:34:VAL:CG2	2.44	0.46
39:DE:68:ALA:C	39:DE:70:ALA:H	2.18	0.46
35:DA:607:U:H5''	40:DF:103:LYS:HE3	1.98	0.46
41:DG:18:GLU:O	41:DG:22:ARG:HG3	2.15	0.46
43:DI:68:LEU:HG	43:DI:71:ILE:CD1	2.40	0.46
45:DK:84:LEU:HD12	45:DK:87:GLY:HA2	1.96	0.46
46:DN:56:ASN:O	46:DN:57:ALA:O	2.33	0.46
47:DO:49:ARG:HA	47:DO:53:LYS:NZ	2.30	0.46
53:DU:22:LYS:HD3	53:DU:22:LYS:HA	1.80	0.46
56:DX:65:ARG:HH11	56:DX:65:ARG:HG2	1.80	0.46
57:DY:59:GLY:O	57:DY:60:PHE:CB	2.62	0.46
1:AA:1001(A):G:O2'	1:AA:1002:G:H5'	2.16	0.46
1:AA:1133:G:N2	1:AA:1143:G:HI'	2.31	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1342:C:H1'	9:AI:124:GLN:HE21	1.80	0.46
1:AA:223:U:O5'	1:AA:223:U:H6	1.97	0.46
1:AA:218:C:H5'	1:AA:470:C:N4	2.30	0.46
1:AA:963:G:N2	10:AJ:55:LYS:CD	2.79	0.46
2:AB:7:VAL:CA	2:AB:217:ARG:HH22	2.28	0.46
5:AE:40:ARG:NH1	5:AE:40:ARG:HG2	2.27	0.46
8:AH:1:MET:N	8:AH:1:MET:HE2	2.31	0.46
1:AA:675:A:H1'	11:AK:116:HIS:CD2	2.51	0.46
11:AK:59:TYR:CE1	11:AK:63:LEU:HD21	2.51	0.46
12:AL:28:LYS:HG2	12:AL:28:LYS:O	2.15	0.46
1:AA:948:C:P	13:AM:109:THR:HG1	2.39	0.46
17:AQ:45:HIS:HB2	17:AQ:65:ILE:CD1	2.45	0.46
18:AR:66:LEU:CG	18:AR:70:ILE:HD11	2.44	0.46
22:AW:15:G:N2	22:AW:59:U:H1'	2.31	0.46
24:AY:282:ARG:HH21	24:AY:282:ARG:CB	2.28	0.46
26:B1:26:ARG:HG3	26:B1:26:ARG:HH11	1.80	0.46
27:B2:20:GLU:O	27:B2:22:GLU:N	2.49	0.46
35:BA:2143:C:O2'	35:BA:2144:U:H5'	2.14	0.46
35:BA:2485:G:H5''	49:BQ:46:GLN:HE21	1.79	0.46
35:BA:2807:G:H2'	35:BA:2808:U:H5''	1.96	0.46
35:BA:512:G:O2'	35:BA:513:A:P	2.73	0.46
35:BA:708:C:H42	35:BA:723:G:H1	1.62	0.46
37:BC:43:GLU:HG2	37:BC:216:THR:O	2.15	0.46
37:BC:51:ASP:O	37:BC:54:ARG:HB2	2.15	0.46
35:BA:1826:G:C4'	38:BD:242:ARG:HH21	2.12	0.46
35:BA:773:U:H4'	38:BD:47:GLY:HA3	1.96	0.46
38:BD:58:HIS:CD2	38:BD:59:LYS:N	2.84	0.46
38:BD:62:TYR:HA	38:BD:87:ASN:ND2	2.30	0.46
45:BK:15:GLY:H	45:BK:45:THR:CG2	2.29	0.46
48:BP:23:PRO:HD2	48:BP:33:ARG:CZ	2.45	0.46
48:BP:41:ARG:HA	48:BP:41:ARG:NE	2.30	0.46
1:AA:346:G:OP1	52:BT:41:ARG:CZ	2.63	0.46
54:BV:52:VAL:HG23	54:BV:52:VAL:O	2.14	0.46
58:BZ:102:LEU:HD23	58:BZ:104:PHE:CZ	2.51	0.46
58:BZ:73:GLN:HB3	58:BZ:87:ASP:CG	2.36	0.46
1:CA:1227:A:C2'	1:CA:1228:C:O5'	2.64	0.46
1:CA:586:C:H1'	1:CA:878:G:O2'	2.15	0.46
1:CA:729:A:H2'	1:CA:730:G:H8	1.80	0.46
2:CB:236:TYR:HA	2:CB:239:VAL:HG23	1.97	0.46
3:CC:179:ARG:O	3:CC:179:ARG:HG3	2.15	0.46
4:CD:61:LYS:NZ	4:CD:72:GLU:OE2	2.48	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:CF:69:GLU:HG2	6:CF:70:ASP:N	2.31	0.46
7:CG:120:ILE:CD1	7:CG:120:ILE:H	2.26	0.46
8:CH:91:ARG:CG	8:CH:91:ARG:NH1	2.79	0.46
9:CI:4:TYR:CG	9:CI:19:LEU:HB2	2.51	0.46
12:CL:53:ARG:NH1	12:CL:53:ARG:CG	2.77	0.46
10:CJ:61:GLU:OE2	14:CN:45:ARG:HD2	2.15	0.46
17:CQ:24:GLU:OE1	17:CQ:37:LYS:HD3	2.15	0.46
22:CW:59:U:H2'	22:CW:60:U:C5	2.49	0.46
23:CX:20:A:C2	24:CY:202:HIS:HB3	2.50	0.46
24:CY:252:VAL:HG13	24:CY:259:THR:CG2	2.32	0.46
28:D3:38:GLU:OE2	28:D3:38:GLU:HA	2.14	0.46
35:DA:1509(A):A:H2'	35:DA:1509(B):A:O4'	2.16	0.46
35:DA:197:A:N6	35:DA:2430:A:H2'	2.30	0.46
35:DA:2650:U:O2'	35:DA:2651:C:H5'	2.15	0.46
34:D9:35:ARG:HD3	35:DA:2742:C:OP1	2.15	0.46
35:DA:662:G:H5''	48:DP:18:ARG:O	2.14	0.46
35:DA:860:U:O2	35:DA:860:U:O4'	2.33	0.46
37:DC:185:LYS:HA	37:DC:185:LYS:HE3	1.97	0.46
38:DD:168:ARG:NH1	38:DD:168:ARG:HG3	2.30	0.46
40:DF:58:ALA:O	40:DF:59:TYR:O	2.32	0.46
43:DI:41:GLU:O	43:DI:45:LYS:HG2	2.16	0.46
45:DK:112:MET:H	45:DK:113:PRO:HD3	1.72	0.46
46:DN:57:ALA:O	46:DN:58:ASP:OD1	2.34	0.46
47:DO:61:VAL:O	47:DO:61:VAL:HG13	2.14	0.46
48:DP:108:LYS:C	48:DP:110:TYR:H	2.19	0.46
49:DQ:62:GLY:HA3	49:DQ:109:VAL:CG2	2.46	0.46
57:DY:76:CYS:CB	57:DY:77:PRO:HD2	2.45	0.46
1:AA:1118:C:H1'	1:AA:1179:A:C4	2.50	0.46
1:AA:1307:U:H2'	1:AA:1308:U:H6	1.79	0.46
1:AA:427:U:OP1	4:AD:40:PRO:HA	2.15	0.46
1:AA:517:G:H2'	1:AA:531:U:C5	2.51	0.46
1:AA:649:G:H2'	1:AA:650:G:H8	1.81	0.46
1:AA:880:C:H2'	1:AA:881:G:H8	1.81	0.46
2:AB:23:ARG:O	2:AB:23:ARG:HG3	2.15	0.46
6:AF:29:ALA:HB3	6:AF:30:LEU:HD23	1.96	0.46
6:AF:80:ARG:HG3	6:AF:88:VAL:HG23	1.98	0.46
9:AI:59:PHE:CD1	9:AI:59:PHE:N	2.84	0.46
10:AJ:16:LEU:HD22	10:AJ:16:LEU:O	2.15	0.46
12:AL:46:LYS:HG2	12:AL:47:LYS:N	2.31	0.46
14:AN:14:PRO:O	14:AN:15:LYS:C	2.54	0.46
18:AR:44:LEU:HA	18:AR:49:LYS:O	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:AT:29:LYS:O	20:AT:33:ILE:HG13	2.16	0.46
22:AW:59:U:C2	22:AW:60:U:H5	2.33	0.46
22:AW:63:G:H4'	37:BC:54:ARG:HH22	1.79	0.46
24:AY:104:GLN:HA	24:AY:104:GLN:OE1	2.15	0.46
24:AY:29:LEU:HG	24:AY:51:GLU:HB3	1.98	0.46
25:B0:3:HIS:CD2	25:B0:4:LYS:N	2.83	0.46
27:B2:38:GLN:HB3	27:B2:44:LEU:O	2.14	0.46
27:B2:51:ARG:O	27:B2:55:ARG:HD3	2.15	0.46
28:B3:46:ASN:O	28:B3:50:VAL:HG22	2.16	0.46
30:B5:50:GLY:HA3	30:B5:56:LYS:HD2	1.97	0.46
33:B8:36:LYS:HB2	33:B8:41:ILE:HD11	1.97	0.46
35:BA:1509(A):A:H2'	35:BA:1509(B):A:O4'	2.15	0.46
35:BA:186:G:O2'	35:BA:187:G:H5'	2.16	0.46
35:BA:2443:C:O2'	35:BA:2444:G:H5'	2.15	0.46
35:BA:244:A:H2'	35:BA:245:G:O4'	2.15	0.46
35:BA:986:C:O2'	35:BA:987:G:H5'	2.16	0.46
37:BC:19:LYS:HD3	37:BC:20:VAL:N	2.30	0.46
35:BA:1798:U:C5'	38:BD:259:THR:HG22	2.19	0.46
38:BD:73:VAL:HG12	38:BD:74:GLY:N	2.30	0.46
39:BE:134:ILE:C	39:BE:134:ILE:CD1	2.84	0.46
40:BF:117:ARG:HD3	40:BF:117:ARG:HA	1.77	0.46
43:BI:82:ARG:HG3	43:BI:82:ARG:NH1	2.31	0.46
44:BJ:72:UNK:O	44:BJ:74:UNK:N	2.49	0.46
45:BK:112:MET:H	45:BK:113:PRO:HD3	1.73	0.46
45:BK:78:ILE:HD12	45:BK:134:MET:CE	2.45	0.46
46:BN:65:LYS:O	46:BN:69:GLN:HB2	2.15	0.46
47:BO:17:ARG:HG2	47:BO:17:ARG:HH11	1.79	0.46
49:BQ:134:ARG:NH1	58:BZ:122:ARG:HH21	2.12	0.46
53:BU:90:VAL:HG22	54:BV:39:LEU:CB	2.46	0.46
56:BX:83:VAL:HG11	56:BX:87:GLN:HB2	1.97	0.46
57:BY:8:LYS:CD	57:BY:28:LYS:HZ3	2.25	0.46
57:BY:27:VAL:O	57:BY:29:GLU:OE1	2.34	0.46
58:BZ:139:VAL:HG12	58:BZ:140:ASP:N	2.31	0.46
49:BQ:59:ARG:HB3	58:BZ:180:VAL:HG23	1.98	0.46
58:BZ:64:GLY:O	58:BZ:66:SER:N	2.49	0.46
1:CA:417:C:O2'	1:CA:418:C:H5'	2.16	0.46
1:CA:759:A:H2'	1:CA:760:G:H5'	1.98	0.46
1:CA:936:C:H2'	1:CA:937:A:H8	1.79	0.46
1:CA:9:G:H5''	5:CE:122:GLU:CD	2.36	0.46
2:CB:14:GLY:C	2:CB:15:VAL:HG22	2.35	0.46
2:CB:7:VAL:CA	2:CB:217:ARG:HH22	2.28	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CC:112:SER:O	3:CC:116:VAL:HG23	2.14	0.46
4:CD:151:LYS:O	4:CD:155:LEU:HG	2.16	0.46
4:CD:13:ARG:NH2	4:CD:36:ARG:HD3	2.30	0.46
7:CG:50:ILE:C	7:CG:52:GLU:H	2.18	0.46
8:CH:51:VAL:HG23	8:CH:52:ASP:N	2.30	0.46
10:CJ:16:LEU:O	10:CJ:16:LEU:HD22	2.16	0.46
11:CK:108:ILE:HD12	11:CK:108:ILE:N	2.30	0.46
13:CM:67:GLU:CG	13:CM:68:GLY:H	2.29	0.46
15:CO:39:LEU:CD1	15:CO:56:LEU:HB2	2.45	0.46
15:CO:83:GLU:C	15:CO:85:LEU:H	2.19	0.46
18:CR:44:LEU:HA	18:CR:49:LYS:O	2.15	0.46
22:CV:74:C:H2'	22:CV:75:C:H5'	1.97	0.46
13:CM:125:ARG:HD2	24:CY:165:ASP:HB2	1.98	0.46
24:CY:209:GLU:CG	24:CY:303:ARG:HD3	2.46	0.46
24:CY:23:GLU:HG3	24:CY:26:LEU:HD21	1.97	0.46
24:CY:303:ARG:CZ	35:DA:1914:C:O2'	2.63	0.46
24:CY:76:MET:HG3	24:CY:88:LYS:CE	2.45	0.46
31:D6:12:GLU:CG	31:D6:23:THR:HG22	2.45	0.46
33:D8:33:ASN:HD22	33:D8:36:LYS:HD3	1.80	0.46
35:DA:1188:U:C2'	35:DA:1189:A:H5'	2.46	0.46
35:DA:1509(A):A:O2'	35:DA:1509(B):A:H5'	2.15	0.46
35:DA:1509(B):A:O2'	35:DA:1510:G:H5'	2.16	0.46
35:DA:1679:U:H2'	35:DA:1680:U:H5'	1.98	0.46
35:DA:1998:G:H4'	35:DA:2724:C:O2'	2.16	0.46
35:DA:2001:A:H2'	35:DA:2002:G:C8	2.51	0.46
35:DA:2261:C:O2'	35:DA:2262:U:H5'	2.15	0.46
35:DA:272(H):C:C2'	35:DA:272(I):U:C5'	2.93	0.46
35:DA:654(B):C:H5	35:DA:654(D):G:C4	2.33	0.46
25:D0:74:ARG:NH2	36:DB:13:A:H8	2.04	0.46
36:DB:40:U:H3'	36:DB:41:U:C5'	2.46	0.46
35:DA:706:A:OP1	38:DD:7:LYS:HE3	2.16	0.46
40:DF:40:GLN:HE22	40:DF:182:ASN:HB2	1.80	0.46
35:DA:2444:G:OP1	40:DF:67:GLN:NE2	2.48	0.46
29:D4:25:TYR:O	41:DG:105:LYS:CE	2.63	0.46
41:DG:149:VAL:O	41:DG:150:ASP:HB3	2.16	0.46
47:DO:43:VAL:HG21	47:DO:52:VAL:CG1	2.46	0.46
51:DS:58:LEU:O	51:DS:59:LYS:O	2.33	0.46
52:DT:41:ARG:HH21	52:DT:43:GLN:HG3	1.78	0.46
53:DU:91:ASP:O	53:DU:92:ARG:C	2.54	0.46
57:DY:34:LYS:HB3	57:DY:34:LYS:HE2	1.70	0.46
57:DY:28:LYS:NZ	57:DY:37:VAL:HG11	2.31	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
57:DY:52:SER:O	57:DY:53:PRO:C	2.54	0.46
58:DZ:81:ARG:HH11	58:DZ:81:ARG:CG	2.28	0.46
1:AA:1228:C:C5'	13:AM:108:ARG:HH22	2.29	0.46
1:AA:1469:G:H2'	1:AA:1470:G:H8	1.81	0.46
1:AA:218:C:H5'	1:AA:470:C:H41	1.81	0.46
1:AA:266:G:O2'	1:AA:267:C:OP2	2.33	0.46
1:AA:520:A:OP2	12:AL:51:ALA:HB1	2.16	0.46
1:AA:564:C:O2'	8:AH:91:ARG:NH2	2.49	0.46
3:AC:47:LEU:HD21	3:AC:68:VAL:HG11	1.97	0.46
4:AD:3:ARG:O	4:AD:5:ILE:HG13	2.15	0.46
6:AF:69:GLU:HG2	6:AF:70:ASP:N	2.31	0.46
6:AF:92:LYS:NZ	6:AF:92:LYS:CB	2.78	0.46
7:AG:54:THR:HG23	7:AG:54:THR:O	2.15	0.46
1:AA:1349:A:P	9:AI:118:LYS:NZ	2.89	0.46
1:AA:1343:G:H1'	9:AI:121:ARG:NH1	2.30	0.46
12:AL:84:LEU:HG	12:AL:105:TYR:CE1	2.50	0.46
1:AA:552:U:H4'	12:AL:86:ARG:HG2	1.98	0.46
15:AO:25:THR:O	15:AO:28:GLN:N	2.49	0.46
15:AO:81:LEU:CD1	15:AO:85:LEU:HD12	2.46	0.46
22:AV:64:A:O2'	22:AV:65:G:H5'	2.16	0.46
24:AY:13:LEU:HD23	24:AY:16:TYR:CG	2.50	0.46
22:AV:76:8AN:H3'	24:AY:239:GLY:HA3	1.97	0.46
34:B9:37:GLY:HA2	35:BA:1125:G:H5'	1.98	0.46
35:BA:1603:A:H5'	35:BA:1603:A:H8	1.79	0.46
35:BA:2030:A:H4'	35:BA:2031:A:H8	1.80	0.46
35:BA:2107:C:H5'	37:BC:3:LYS:HE3	1.97	0.46
35:BA:2537:U:H2'	35:BA:2538:C:H6	1.80	0.46
35:BA:752:A:O2'	35:BA:753:C:OP2	2.31	0.46
36:BB:45:A:H8	41:BG:95:ARG:HE	1.61	0.46
38:BD:158:ALA:O	38:BD:159:ALA:C	2.53	0.46
38:BD:168:ARG:O	38:BD:169:GLU:HB2	2.15	0.46
38:BD:70:TRP:CZ3	38:BD:146:GLU:OE2	2.68	0.46
41:BG:181:ARG:O	41:BG:181:ARG:CG	2.63	0.46
42:BH:72:ILE:O	42:BH:75:ALA:HB3	2.15	0.46
43:BI:144:VAL:O	43:BI:145:VAL:O	2.33	0.46
43:BI:77:LEU:O	43:BI:78:THR:HB	2.15	0.46
44:BJ:59:UNK:C	44:BJ:61:UNK:N	2.72	0.46
47:BO:18:LYS:HD2	47:BO:45:GLU:OE2	2.15	0.46
48:BP:101:VAL:HG13	48:BP:106:LEU:HD23	1.98	0.46
35:BA:941:A:H4'	48:BP:35:HIS:CE1	2.51	0.46
54:BV:34:GLU:O	54:BV:36:PRO:CD	2.63	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
55:BW:1:MET:HE2	55:BW:2:GLU:O	2.15	0.46
55:BW:73:ALA:HB3	55:BW:106:ILE:HG12	1.98	0.46
58:BZ:130:PRO:O	58:BZ:132:ASN:N	2.49	0.46
1:CA:136:C:H2'	1:CA:137:C:C6	2.51	0.46
1:CA:403:C:H2'	1:CA:404:U:C6	2.48	0.46
1:CA:766:A:H2'	1:CA:767:A:O4'	2.16	0.46
2:CB:67:THR:HG21	2:CB:155:LEU:CG	2.46	0.46
4:CD:16:GLY:HA2	4:CD:33:MET:HE1	1.98	0.46
5:CE:26:PHE:N	5:CE:26:PHE:CD1	2.83	0.46
7:CG:103:TRP:CH2	7:CG:141:VAL:HG21	2.51	0.46
7:CG:113:GLU:CB	7:CG:119:ARG:HG2	2.46	0.46
15:CO:85:LEU:O	15:CO:85:LEU:HD23	2.15	0.46
22:CV:77:PHA:HB2	35:DA:2063:C:C4'	2.45	0.46
24:CY:23:GLU:HA	24:CY:26:LEU:HG	1.98	0.46
35:DA:1006:C:C2	35:DA:1138:G:N2	2.84	0.46
35:DA:1231:G:H2'	35:DA:1232:G:C8	2.49	0.46
35:DA:2845:G:O2'	35:DA:2846:G:H5'	2.16	0.46
35:DA:284:U:H2'	35:DA:285:C:C6	2.50	0.46
36:DB:78:A:H2'	36:DB:79:C:O4'	2.15	0.46
37:DC:6:LYS:O	37:DC:8:TYR:N	2.49	0.46
38:DD:28:GLU:CD	38:DD:28:GLU:H	2.17	0.46
39:DE:9:VAL:HG22	39:DE:25:VAL:O	2.16	0.46
46:DN:120:LEU:HD13	46:DN:121:LYS:N	2.30	0.46
48:DP:65:ARG:HH11	48:DP:65:ARG:HG3	1.80	0.46
54:DV:39:LEU:HA	54:DV:47:VAL:HG11	1.98	0.46
54:DV:52:VAL:HG23	54:DV:52:VAL:O	2.16	0.46
58:DZ:164:ALA:O	58:DZ:165:VAL:CG2	2.56	0.46
1:AA:19:C:H2'	1:AA:20:U:C6	2.51	0.46
1:AA:376:G:H2'	1:AA:377:G:C8	2.51	0.46
1:AA:729:A:H2'	1:AA:730:G:H8	1.81	0.46
1:AA:754:C:H3'	1:AA:754:C:O2	2.16	0.46
2:AB:236:TYR:HA	2:AB:239:VAL:HG23	1.96	0.46
2:AB:71:VAL:HG13	2:AB:93:VAL:CB	2.29	0.46
3:AC:16:ARG:CB	3:AC:16:ARG:HH11	2.29	0.46
4:AD:60:GLU:HG2	4:AD:202:LEU:HD12	1.98	0.46
7:AG:5:ARG:C	7:AG:7:ALA:H	2.19	0.46
1:AA:599:C:H4'	8:AH:130:GLY:CA	2.46	0.46
9:AI:112:LYS:HE3	9:AI:116:LYS:O	2.16	0.46
10:AJ:95:GLU:HA	10:AJ:95:GLU:OE2	2.15	0.46
13:AM:65:LYS:NZ	13:AM:70:LEU:HD23	2.31	0.46
15:AO:32:LEU:O	15:AO:36:ILE:HG13	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:AP:4:ILE:HB	16:AP:66:PRO:HB3	1.96	0.46
22:AV:41:C:C3'	22:AV:42:C:C5'	2.92	0.46
24:AY:203:THR:HG22	24:AY:204:SER:N	2.31	0.46
24:AY:266:ARG:HG3	25:B0:3:HIS:CE1	2.51	0.46
24:AY:326:THR:HG21	24:AY:328:LEU:HB2	1.97	0.46
26:B1:20:ARG:HG2	26:B1:20:ARG:NH1	2.31	0.46
27:B2:69:ARG:NH1	27:B2:69:ARG:HG3	2.31	0.46
33:B8:6:THR:HG22	33:B8:63:PRO:HD3	1.97	0.46
35:BA:1529:G:H21	35:BA:1530:C:H2'	1.78	0.46
35:BA:1652:A:C2'	35:BA:1653:G:H5'	2.46	0.46
35:BA:1899:G:C2'	35:BA:1900:A:OP2	2.64	0.46
35:BA:747:U:O2	35:BA:2014:A:H1'	2.15	0.46
35:BA:2180:U:H2'	35:BA:2180:U:O2	2.16	0.46
35:BA:301:G:C4	35:BA:302:C:C5	3.04	0.46
35:BA:572:A:H2'	35:BA:573:G:O4'	2.15	0.46
35:BA:896:A:H5''	58:BZ:147:GLY:HA3	1.98	0.46
35:BA:941:A:H2'	35:BA:942:G:C8	2.51	0.46
35:BA:992:C:O2'	35:BA:993:G:H5'	2.16	0.46
38:BD:93:ALA:HB2	38:BD:107:ALA:HB2	1.97	0.46
38:BD:11:PRO:C	38:BD:13:ARG:N	2.69	0.46
39:BE:65:GLY:HA2	39:BE:70:ALA:CB	2.45	0.46
40:BF:119:ARG:HH11	40:BF:119:ARG:HG2	1.81	0.46
41:BG:56:ALA:HB1	41:BG:153:ARG:NH1	2.31	0.46
45:BK:76:TYR:OH	45:BK:80:LYS:HD2	2.15	0.46
47:BO:77:ILE:HD13	52:BT:74:ARG:CD	2.42	0.46
48:BP:108:LYS:O	48:BP:110:TYR:N	2.48	0.46
48:BP:16:ARG:CZ	48:BP:18:ARG:CG	2.93	0.46
52:BT:28:VAL:HG22	52:BT:46:GLU:CA	2.45	0.46
57:BY:2:ARG:HD3	57:BY:2:ARG:C	2.35	0.46
1:CA:1157:A:H4'	1:CA:1158:C:O5'	2.16	0.46
1:CA:1251:A:H4'	9:CI:12:GLU:OE2	2.16	0.46
1:CA:1305:G:N2	1:CA:1331:G:N3	2.63	0.46
1:CA:1392:G:O2'	1:CA:1393:U:H5'	2.16	0.46
1:CA:1479:C:O2'	1:CA:1480:G:H5'	2.16	0.46
1:CA:502:G:C2	1:CA:503:C:O2	2.69	0.46
1:CA:688:G:H2'	1:CA:689:C:C6	2.49	0.46
1:CA:731:G:OP1	1:CA:766:A:H1'	2.16	0.46
1:CA:770:C:O2'	1:CA:771:G:H5'	2.15	0.46
1:CA:908:A:H2'	1:CA:909:A:C8	2.51	0.46
2:CB:224:GLN:HA	2:CB:229:VAL:CG2	2.44	0.46
5:CE:96:PRO:HA	5:CE:117:ASP:CG	2.36	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:CH:112:LEU:HG	8:CH:112:LEU:O	2.16	0.46
9:CI:83:ARG:O	9:CI:86:VAL:HG12	2.14	0.46
10:CJ:24:VAL:O	10:CJ:28:ARG:HG3	2.15	0.46
11:CK:48:ILE:HD11	11:CK:64:ALA:HA	1.96	0.46
13:CM:91:ARG:HH22	13:CM:103:THR:HG21	1.80	0.46
13:CM:83:ASP:CG	13:CM:84:ILE:N	2.66	0.46
16:CP:53:VAL:CG1	16:CP:79:VAL:HG22	2.43	0.46
19:CS:40:ILE:HD13	19:CS:62:ILE:CD1	2.46	0.46
26:D1:26:ARG:HH11	26:D1:26:ARG:HG3	1.81	0.46
27:D2:21:LEU:CD1	27:D2:64:LEU:HA	2.45	0.46
35:DA:1060:U:H1'	35:DA:1062:G:H5'	1.98	0.46
35:DA:1362:C:O2'	35:DA:1363:C:H5'	2.16	0.46
35:DA:1498:C:O4'	35:DA:1577:C:H4'	2.15	0.46
35:DA:1751:C:O2'	35:DA:1752:C:H5'	2.14	0.46
35:DA:1811:G:O2'	35:DA:1812:A:H5'	2.16	0.46
35:DA:1970:A:H5''	35:DA:1971:A:OP1	2.16	0.46
35:DA:2660:A:C4	35:DA:2661:G:H4'	2.51	0.46
35:DA:2810:A:H2'	35:DA:2811:G:O4'	2.16	0.46
35:DA:601:C:O2	35:DA:605:C:H4'	2.16	0.46
35:DA:918:A:H5''	36:DB:98:G:O2'	2.16	0.46
36:DB:43:C:H5'	36:DB:44:G:OP2	2.15	0.46
38:DD:198:ASN:ND2	38:DD:198:ASN:O	2.48	0.46
39:DE:101:ARG:CB	39:DE:201:THR:HG21	2.44	0.46
39:DE:52:LEU:C	39:DE:74:PRO:HB3	2.34	0.46
41:DG:159:VAL:O	41:DG:159:VAL:HG23	2.14	0.46
41:DG:17:PRO:O	41:DG:20:ILE:N	2.48	0.46
41:DG:64:THR:OG1	41:DG:94:LEU:HD21	2.16	0.46
43:DI:77:LEU:HB3	43:DI:140:LEU:HG	1.97	0.46
45:DK:76:TYR:OH	45:DK:80:LYS:HD2	2.16	0.46
47:DO:107:ARG:C	47:DO:109:LYS:H	2.19	0.46
35:DA:661:C:O2'	48:DP:16:ARG:O	2.28	0.46
49:DQ:21:THR:HG21	49:DQ:101:ARG:CD	2.45	0.46
50:DR:103:ARG:HH12	50:DR:110:PRO:HD3	1.81	0.46
50:DR:63:ARG:HA	50:DR:80:PHE:CZ	2.51	0.46
52:DT:77:PRO:O	52:DT:78:LEU:CB	2.64	0.46
55:DW:5:ALA:O	55:DW:6:ILE:CB	2.64	0.46
58:DZ:112:ARG:HD2	58:DZ:112:ARG:HA	1.68	0.46
1:AA:1106:G:H2'	1:AA:1107:C:C6	2.51	0.46
1:AA:1298:C:H4'	1:AA:1299:A:N9	2.31	0.46
1:AA:932:C:H5'	7:AG:4:ARG:HG3	1.98	0.46
2:AB:84:GLU:HB3	2:AB:219:VAL:HG21	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:AH:112:LEU:HG	8:AH:112:LEU:O	2.15	0.46
1:AA:643:C:H5'	8:AH:31:PHE:CE1	2.51	0.46
1:AA:1179:A:O3'	9:AI:103:THR:HG23	2.16	0.46
13:AM:120:LYS:C	13:AM:121:LYS:HD2	2.36	0.46
18:AR:32:ARG:HA	18:AR:69:THR:HG21	1.97	0.46
24:AY:149:PHE:HB3	24:AY:172:LYS:O	2.16	0.46
24:AY:290:LYS:HG3	24:AY:291:ARG:H	1.78	0.46
27:B2:20:GLU:C	27:B2:22:GLU:N	2.69	0.46
27:B2:53:LEU:C	27:B2:53:LEU:HD23	2.36	0.46
30:B5:40:LYS:CE	30:B5:46:CYS:HB3	2.46	0.46
35:BA:1040:C:N3	35:BA:1115:G:O6	2.49	0.46
35:BA:145:G:C3'	35:BA:146:G:H5''	2.46	0.46
35:BA:1839:G:H5'	35:BA:1839:G:H8	1.81	0.46
35:BA:2553:G:H3'	35:BA:2554:U:H5''	1.98	0.46
35:BA:2801:A:N3	35:BA:2801:A:H2'	2.31	0.46
35:BA:2623:G:H4'	35:BA:2825:C:O2	2.15	0.46
35:BA:958:U:O2	36:BB:90:A:H4'	2.16	0.46
36:BB:28:C:H2'	36:BB:29:A:C8	2.51	0.46
37:BC:23:ILE:O	37:BC:27:ALA:HB2	2.16	0.46
38:BD:245:PRO:O	38:BD:246:PRO:C	2.53	0.46
38:BD:2:ALA:O	38:BD:3:VAL:HB	2.15	0.46
39:BE:68:ALA:C	39:BE:70:ALA:H	2.18	0.46
41:BG:102:PHE:HE1	41:BG:157:ILE:HD13	1.81	0.46
42:BH:85:LYS:HD2	42:BH:145:ALA:HB2	1.97	0.46
45:BK:90:LYS:HB3	45:BK:90:LYS:NZ	2.27	0.46
35:BA:941:A:O2'	48:BP:35:HIS:CE1	2.69	0.46
51:BS:61:ASN:HB3	51:BS:64:GLU:HB2	1.97	0.46
52:BT:91:ARG:HA	52:BT:117:ASP:H	1.80	0.46
53:BU:95:LEU:HA	53:BU:95:LEU:HD23	1.69	0.46
54:BV:5:VAL:CG2	54:BV:35:LEU:HB3	2.45	0.46
56:BX:66:LEU:HD23	56:BX:66:LEU:C	2.36	0.46
57:BY:19:LYS:HB3	57:BY:20:TYR:CD1	2.50	0.46
57:BY:52:SER:O	57:BY:53:PRO:C	2.55	0.46
1:CA:1029:C:H2'	1:CA:1030(A):G:C6	2.51	0.46
1:CA:1260:C:H4'	1:CA:1284:C:H5'	1.98	0.46
1:CA:1301:U:H3'	1:CA:1302:U:H5''	1.98	0.46
1:CA:1305:G:N2	1:CA:1331:G:O2'	2.49	0.46
1:CA:598:U:O2'	1:CA:599:C:H5'	2.16	0.46
1:CA:781:A:C3'	1:CA:782:A:H5'	2.46	0.46
1:CA:959:A:H2'	1:CA:960:U:C4'	2.46	0.46
2:CB:168:THR:O	2:CB:169:LYS:C	2.53	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CB:44:LEU:H	2:CB:44:LEU:CD1	2.29	0.46
3:CC:110:ASN:O	3:CC:141:VAL:HG22	2.16	0.46
3:CC:153:VAL:O	3:CC:165:THR:HA	2.16	0.46
3:CC:71:ALA:HA	3:CC:106:VAL:HB	1.97	0.46
5:CE:100:VAL:HG23	5:CE:100:VAL:O	2.14	0.46
5:CE:51:VAL:HB	5:CE:52:PRO:CD	2.35	0.46
5:CE:57:LYS:HA	5:CE:60:TYR:HB3	1.98	0.46
11:CK:114:VAL:O	11:CK:114:VAL:HG13	2.16	0.46
12:CL:38:THR:HG23	12:CL:57:LYS:O	2.16	0.46
13:CM:19:LEU:HB3	13:CM:25:ILE:HG21	1.98	0.46
16:CP:21:VAL:HG11	16:CP:59:TRP:NE1	2.30	0.46
16:CP:20:VAL:HG21	16:CP:32:TYR:CB	2.46	0.46
17:CQ:22:LEU:HD12	17:CQ:23:VAL:N	2.30	0.46
25:D0:48:GLY:HA3	25:D0:80:HIS:HD1	1.81	0.46
26:D1:24:ALA:HA	26:D1:32:LYS:HG2	1.97	0.46
28:D3:7:LYS:HE3	28:D3:32:GLN:O	2.15	0.46
31:D6:22:ALA:HB2	31:D6:39:TYR:CE2	2.50	0.46
34:D9:4:ARG:HD2	34:D9:34:GLN:HE21	1.81	0.46
35:DA:1809:A:H2'	35:DA:1810:A:C8	2.51	0.46
35:DA:196:A:H2'	35:DA:196:A:N3	2.31	0.46
35:DA:244:A:H2'	35:DA:245:G:O4'	2.15	0.46
35:DA:2716:U:O2'	35:DA:2717:G:H5'	2.15	0.46
36:DB:56:G:H4'	36:DB:57:A:H8	1.81	0.46
37:DC:48:LEU:HG	37:DC:210:LEU:HD23	1.98	0.46
38:DD:158:ALA:O	38:DD:159:ALA:C	2.54	0.46
40:DF:62:ARG:NH2	40:DF:64:ILE:HD12	2.31	0.46
42:DH:89:ILE:O	42:DH:89:ILE:HG13	2.15	0.46
44:DJ:73:UNK:C	44:DJ:75:UNK:N	2.79	0.46
35:DA:389:G:N1	48:DP:70:GLN:HG3	2.31	0.46
35:DA:2485:G:H5''	49:DQ:46:GLN:HE21	1.79	0.46
50:DR:3:HIS:O	50:DR:4:LEU:HB3	2.16	0.46
56:DX:90:GLU:O	56:DX:93:GLU:HB2	2.16	0.46
1:AA:1469:G:H2'	1:AA:1470:G:C8	2.50	0.46
1:AA:1504:G:OP1	1:AA:1507:A:H4'	2.16	0.46
1:AA:233:C:H2'	1:AA:234:C:H6	1.81	0.46
1:AA:328:C:O2'	1:AA:329:A:P	2.74	0.46
1:AA:965:A:C2	1:AA:969:A:C2	3.04	0.46
1:AA:997:U:H2'	1:AA:998:G:H8	1.76	0.46
3:AC:94:LEU:HD12	3:AC:94:LEU:C	2.36	0.46
4:AD:159:ARG:O	4:AD:162:LEU:HB2	2.16	0.46
6:AF:15:ASP:HB2	6:AF:16:GLN:NE2	2.31	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:AR:25:THR:O	18:AR:26:LEU:HG	2.16	0.46
19:AS:41:VAL:HG12	19:AS:42:PRO:HD2	1.98	0.46
22:AW:40:C:H5'	22:AW:40:C:C6	2.51	0.46
24:AY:249:VAL:HG21	24:AY:272:LYS:CA	2.46	0.46
24:AY:277:LYS:CE	24:AY:280:LYS:HZ2	2.29	0.46
24:AY:72:LEU:HD13	24:AY:91:LEU:CG	2.46	0.46
27:B2:2:LYS:HB3	35:BA:97:C:H5''	1.97	0.46
28:B3:11:SER:OG	28:B3:13:ILE:HG13	2.16	0.46
30:B5:57:VAL:CG2	30:B5:58:LEU:N	2.77	0.46
31:B6:26:ASN:OD1	31:B6:26:ASN:N	2.49	0.46
35:BA:1231:G:H2'	35:BA:1232:G:H8	1.81	0.46
35:BA:1525:G:H2'	35:BA:1526:G:H8	1.80	0.46
33:B8:33:ASN:O	35:BA:2420:C:OP1	2.34	0.46
35:BA:2543:G:O2'	35:BA:2544:G:H5'	2.16	0.46
35:BA:2762:G:H2'	35:BA:2763:G:C5'	2.46	0.46
35:BA:649:G:H2'	35:BA:650:C:C6	2.51	0.46
37:BC:194:ILE:HD12	37:BC:227:PRO:HB2	1.98	0.46
38:BD:101:GLU:HG2	38:BD:102:LYS:N	2.31	0.46
41:BG:173:LEU:HD22	41:BG:178:PHE:CZ	2.51	0.46
42:BH:85:LYS:HD3	42:BH:133:VAL:HB	1.97	0.46
52:BT:57:PHE:CG	52:BT:58:ASN:N	2.84	0.46
57:BY:35:TYR:CD2	57:BY:69:ALA:HB3	2.51	0.46
58:BZ:4:ARG:O	58:BZ:5:LEU:HB2	2.15	0.46
1:CA:1127:G:H1	1:CA:1145:C:N4	2.14	0.46
1:CA:853:G:H2'	1:CA:854:G:C8	2.48	0.46
3:CC:40:ARG:O	3:CC:44:GLU:HB2	2.16	0.46
4:CD:29:PRO:O	4:CD:30:LYS:HB3	2.15	0.46
4:CD:30:LYS:C	4:CD:32:ALA:N	2.56	0.46
6:CF:79:LEU:HD12	6:CF:88:VAL:HG11	1.97	0.46
6:CF:92:LYS:HB2	6:CF:92:LYS:NZ	2.31	0.46
13:CM:108:ARG:H	13:CM:108:ARG:HD2	1.81	0.46
14:CN:34:TYR:CD1	14:CN:34:TYR:N	2.84	0.46
1:CA:1218:C:P	14:CN:9:LYS:NZ	2.88	0.46
15:CO:53:HIS:O	15:CO:56:LEU:HB3	2.16	0.46
15:CO:78:TYR:OH	15:CO:88:ARG:HG3	2.16	0.46
17:CQ:45:HIS:CB	17:CQ:65:ILE:HD13	2.46	0.46
20:CT:89:ARG:CD	20:CT:104:LEU:HD11	2.43	0.46
22:CV:28:G:O2'	22:CV:29:G:H5'	2.16	0.46
24:CY:285:GLU:HA	24:CY:288:ARG:HH12	1.78	0.46
26:D1:51:VAL:O	26:D1:57:GLU:O	2.34	0.46
26:D1:89:GLU:HA	26:D1:92:LYS:HB3	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:D2:63:VAL:HA	27:D2:66:GLU:HG2	1.97	0.46
35:DA:1081:U:H4'	45:DK:122:ALA:O	2.17	0.46
35:DA:1529:G:H21	35:DA:1530:C:H2'	1.79	0.46
31:D6:25:LYS:HZ3	35:DA:2284:C:H41	1.62	0.46
35:DA:562:U:C4	35:DA:2036:C:O4'	2.69	0.46
35:DA:831:G:O5'	35:DA:831:G:H8	1.99	0.46
35:DA:861:A:C2	35:DA:917:A:C4	3.04	0.46
37:DC:23:ILE:HB	37:DC:191:ARG:HH12	1.80	0.46
39:DE:31:CYS:HB3	39:DE:49:LEU:HB3	1.98	0.46
40:DF:141:ALA:O	40:DF:144:LYS:HB3	2.16	0.46
41:DG:93:THR:HG22	41:DG:95:ARG:HD2	1.97	0.46
43:DI:140:LEU:HD23	43:DI:140:LEU:C	2.35	0.46
45:DK:15:GLY:H	45:DK:45:THR:CG2	2.29	0.46
46:DN:128:HIS:CE1	46:DN:134:ARG:NH1	2.84	0.46
47:DO:18:LYS:HD2	47:DO:45:GLU:OE2	2.16	0.46
48:DP:18:ARG:O	48:DP:18:ARG:NH1	2.48	0.46
48:DP:23:PRO:CB	48:DP:33:ARG:HG3	2.46	0.46
51:DS:74:ALA:CB	51:DS:103:GLU:HG3	2.45	0.46
52:DT:51:ARG:O	52:DT:61:PHE:HA	2.15	0.46
49:DQ:130:LYS:NZ	58:DZ:80:ARG:CZ	2.79	0.46
1:AA:1260:C:H4'	1:AA:1284:C:H5'	1.98	0.45
1:AA:769:G:O2'	1:AA:770:C:H5'	2.16	0.45
1:AA:908:A:H2'	1:AA:909:A:C8	2.51	0.45
3:AC:156:ARG:HD3	3:AC:194:GLY:H	1.80	0.45
4:AD:99:SER:HB2	4:AD:139:ARG:HG3	1.98	0.45
5:AE:96:PRO:HA	5:AE:117:ASP:CG	2.37	0.45
5:AE:147:ASP:HA	5:AE:150:ARG:CZ	2.45	0.45
5:AE:26:PHE:CD1	5:AE:26:PHE:N	2.84	0.45
5:AE:64:ARG:HG3	5:AE:64:ARG:HH11	1.81	0.45
8:AH:9:MET:O	8:AH:13:ILE:HG12	2.16	0.45
13:AM:100:GLY:C	13:AM:101:GLN:HG3	2.37	0.45
13:AM:83:ASP:CG	13:AM:84:ILE:N	2.67	0.45
14:AN:24:CYS:SG	14:AN:40:CYS:N	2.83	0.45
15:AO:23:GLY:O	15:AO:24:SER:HB3	2.16	0.45
15:AO:83:GLU:C	15:AO:85:LEU:H	2.19	0.45
16:AP:81:ARG:HG2	16:AP:83:GLU:OE2	2.16	0.45
20:AT:50:GLU:HB2	20:AT:99:LEU:HD12	1.98	0.45
24:AY:142:ARG:HD3	24:AY:338:ASP:OD1	2.16	0.45
24:AY:319:ASN:HD21	24:AY:334:GLU:CD	2.20	0.45
31:B6:39:TYR:CG	31:B6:40:CYS:N	2.85	0.45
35:BA:1081:U:H2'	35:BA:1082:U:H6	1.80	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:1281:G:C8	35:BA:1281:G:H5'	2.44	0.45
35:BA:2428:G:H5''	35:BA:2429:G:O5'	2.16	0.45
35:BA:284:U:H2'	35:BA:285:C:C6	2.51	0.45
35:BA:518:G:H2'	35:BA:519:U:C6	2.51	0.45
35:BA:528:A:H2	35:BA:2043:C:C5'	2.28	0.45
35:BA:889:C:O2'	35:BA:890:A:O5'	2.34	0.45
38:BD:267:SER:C	38:BD:269:PHE:H	2.19	0.45
40:BF:88:VAL:HG21	40:BF:91:GLY:HA3	1.99	0.45
41:BG:41:GLN:HB2	41:BG:90:LEU:HB3	1.98	0.45
48:BP:106:LEU:HD22	48:BP:112:LEU:HD23	1.97	0.45
48:BP:108:LYS:C	48:BP:110:TYR:H	2.20	0.45
48:BP:18:ARG:O	48:BP:18:ARG:NH1	2.48	0.45
49:BQ:74:TYR:O	49:BQ:90:VAL:HA	2.16	0.45
50:BR:13:HIS:O	50:BR:14:SER:C	2.54	0.45
51:BS:42:ASP:C	51:BS:44:LYS:N	2.67	0.45
57:BY:52:SER:N	57:BY:53:PRO:CD	2.79	0.45
58:BZ:82:ARG:HH11	58:BZ:82:ARG:HG2	1.81	0.45
1:CA:1123:A:O2'	10:CJ:38:ILE:HG22	2.15	0.45
1:CA:1176:A:H2'	1:CA:1177:G:C8	2.51	0.45
1:CA:1053:G:O6	1:CA:1199:U:H2'	2.15	0.45
1:CA:1218:C:P	14:CN:9:LYS:HZ3	2.39	0.45
1:CA:139:G:H2'	1:CA:140:A:C8	2.50	0.45
1:CA:1513:A:H2'	1:CA:1514:C:H6	1.80	0.45
1:CA:442:C:H2'	1:CA:443:C:C6	2.50	0.45
5:CE:57:LYS:HE2	5:CE:61:TYR:HE2	1.82	0.45
10:CJ:32:ALA:HB3	10:CJ:75:ILE:HG13	1.97	0.45
10:CJ:63:PHE:HZ	14:CN:45:ARG:HG3	1.81	0.45
22:CV:4:C:O2'	22:CV:5:G:H5'	2.16	0.45
1:CA:1493:A:H4'	24:CY:126:GLY:CA	2.46	0.45
24:CY:346:TRP:CE3	24:CY:346:TRP:N	2.84	0.45
26:D1:78:LYS:C	26:D1:80:LEU:H	2.20	0.45
27:D2:28:LYS:HE2	27:D2:56:GLN:HE22	1.81	0.45
35:DA:1493:C:O2	35:DA:1493:C:C2'	2.65	0.45
35:DA:2394:C:OP1	48:DP:63:PRO:CD	2.52	0.45
35:DA:274:G:N3	35:DA:274:G:C2'	2.80	0.45
35:DA:2840:C:H5''	50:DR:53:HIS:CD2	2.50	0.45
35:DA:289:A:H2'	35:DA:290:G:O4'	2.16	0.45
35:DA:445:C:O2'	35:DA:446:G:H5'	2.15	0.45
35:DA:57:C:H2'	35:DA:58:G:O4'	2.16	0.45
35:DA:654(T):C:O5'	35:DA:654(T):C:H6	1.98	0.45
35:DA:882:G:H2'	35:DA:883:G:C8	2.51	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:979:G:H3'	35:DA:980:A:H5''	1.97	0.45
37:DC:23:ILE:O	37:DC:27:ALA:HB2	2.16	0.45
40:DF:132:VAL:HG22	40:DF:133:ASN:HD22	1.80	0.45
41:DG:101:ILE:C	41:DG:101:ILE:HD12	2.37	0.45
43:DI:60:GLU:C	43:DI:62:LYS:N	2.69	0.45
45:DK:37:PHE:CD1	45:DK:41:PHE:HB2	2.51	0.45
46:DN:55:VAL:CG2	46:DN:56:ASN:N	2.79	0.45
49:DQ:35:VAL:HG13	49:DQ:130:LYS:HB3	1.96	0.45
52:DT:91:ARG:HA	52:DT:117:ASP:H	1.81	0.45
56:DX:35:THR:HG22	56:DX:36:LYS:N	2.32	0.45
57:DY:20:TYR:CE1	57:DY:42:VAL:HA	2.51	0.45
1:AA:1300:G:O2'	1:AA:1301:U:P	2.75	0.45
1:AA:833:U:H3	1:AA:853:G:H1	1.64	0.45
2:AB:204:ASN:ND2	2:AB:207:ALA:H	2.14	0.45
3:AC:156:ARG:HD3	3:AC:194:GLY:CA	2.45	0.45
6:AF:28:ARG:HG3	6:AF:28:ARG:HH11	1.81	0.45
7:AG:148:ASN:ND2	7:AG:148:ASN:N	2.64	0.45
10:AJ:84:GLN:O	10:AJ:88:LEU:N	2.47	0.45
15:AO:62:GLN:O	15:AO:66:LEU:HD13	2.16	0.45
16:AP:52:ASP:OD2	16:AP:54:GLU:HB2	2.16	0.45
24:AY:193:SER:HB2	24:AY:202:HIS:HB2	1.98	0.45
24:AY:282:ARG:CB	24:AY:282:ARG:NH2	2.78	0.45
30:B5:50:GLY:O	30:B5:51:TYR:CD1	2.69	0.45
34:B9:17:ILE:HG22	34:B9:18:ARG:N	2.30	0.45
35:BA:2306:C:O2	41:BG:43:LEU:HD22	2.16	0.45
35:BA:491:G:O2'	35:BA:492:A:H5'	2.16	0.45
37:BC:16:ASP:OD2	37:BC:19:LYS:HB2	2.16	0.45
35:BA:2124:G:H5''	37:BC:175:PRO:HG3	1.99	0.45
37:BC:185:LYS:HE3	37:BC:185:LYS:HA	1.98	0.45
39:BE:103:ASP:CG	39:BE:201:THR:HA	2.36	0.45
40:BF:110:LEU:CD1	40:BF:202:PHE:CE1	3.00	0.45
29:B4:26:SER:HB2	41:BG:105:LYS:NZ	2.30	0.45
41:BG:174:GLU:HA	41:BG:178:PHE:HB2	1.97	0.45
41:BG:44:GLY:HA2	41:BG:88:ILE:CB	2.47	0.45
42:BH:25:LYS:HG3	42:BH:34:GLU:HG2	1.97	0.45
43:BI:85:GLU:HG2	43:BI:86:THR:N	2.32	0.45
45:BK:98:ARG:NH1	45:BK:137:GLU:HG2	2.31	0.45
48:BP:140:ALA:O	48:BP:141:ALA:HB3	2.16	0.45
48:BP:23:PRO:CB	48:BP:33:ARG:NE	2.76	0.45
49:BQ:134:ARG:C	49:BQ:135:ASP:OD1	2.54	0.45
51:BS:28:VAL:HG12	51:BS:29:PHE:N	2.31	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
58:BZ:98:MET:O	58:BZ:98:MET:HG3	2.15	0.45
1:CA:1353:G:O2'	1:CA:1354:C:H5'	2.16	0.45
1:CA:1471:G:O2'	1:CA:1472:U:H5'	2.16	0.45
1:CA:389:A:C2'	1:CA:390:C:H5'	2.46	0.45
1:CA:402:G:C2'	1:CA:403:C:H5'	2.45	0.45
1:CA:584:G:H2'	1:CA:585:G:C8	2.51	0.45
1:CA:644:G:O2'	1:CA:645:C:H5'	2.15	0.45
2:CB:200:ILE:HG22	2:CB:202:PRO:HD3	1.97	0.45
2:CB:19:HIS:CG	2:CB:20:GLU:N	2.84	0.45
2:CB:55:PHE:HA	2:CB:58:ILE:CD1	2.38	0.45
2:CB:77:ALA:CB	2:CB:165:VAL:HG11	2.45	0.45
2:CB:93:VAL:HG21	2:CB:97:TRP:HD1	1.80	0.45
2:CB:95:GLN:HE21	2:CB:147:LYS:HG2	1.81	0.45
3:CC:94:LEU:HD12	3:CC:94:LEU:C	2.36	0.45
5:CE:18:ARG:HH11	5:CE:18:ARG:HG3	1.80	0.45
8:CH:48:TYR:HA	8:CH:60:ARG:O	2.17	0.45
10:CJ:28:ARG:HG2	10:CJ:28:ARG:HH11	1.82	0.45
12:CL:46:LYS:HG2	12:CL:47:LYS:N	2.32	0.45
1:CA:1228:C:H5''	13:CM:108:ARG:HH22	1.80	0.45
13:CM:120:LYS:C	13:CM:121:LYS:HD2	2.37	0.45
14:CN:21:TYR:OH	14:CN:23:ARG:NH2	2.49	0.45
19:CS:41:VAL:HG12	19:CS:42:PRO:HD2	1.99	0.45
24:CY:282:ARG:HH21	24:CY:282:ARG:CB	2.28	0.45
24:CY:283:LEU:O	24:CY:287:GLU:CB	2.64	0.45
24:CY:77:GLU:CG	24:CY:84:ARG:HG2	2.46	0.45
30:D5:47:PRO:O	30:D5:48:GLU:OE1	2.35	0.45
30:D5:51:TYR:HD2	30:D5:52:TYR:OH	1.98	0.45
35:DA:1509(B):A:H2'	35:DA:1510:G:H8	1.81	0.45
35:DA:1742:G:N7	35:DA:1743:C:C4	2.85	0.45
35:DA:1991:U:H2'	35:DA:1992:G:H5''	1.97	0.45
35:DA:2107:C:H5'	37:DC:3:LYS:HE3	1.97	0.45
35:DA:2350:C:H2'	35:DA:2351:G:O4'	2.17	0.45
35:DA:2547:U:H2'	35:DA:2548:G:C8	2.51	0.45
35:DA:2682:U:H5'	35:DA:2682:U:C6	2.45	0.45
35:DA:2687:U:C4	35:DA:2688:U:C5	3.04	0.45
35:DA:570:G:H2'	35:DA:2030:A:C5	2.52	0.45
37:DC:30:VAL:HG11	37:DC:42:VAL:HG11	1.98	0.45
41:DG:107:LEU:HD23	41:DG:111:LEU:HD12	1.98	0.45
46:DN:21:LYS:HD3	46:DN:26:LEU:HB2	1.98	0.45
47:DO:2:ILE:HD12	47:DO:6:THR:HG21	1.98	0.45
48:DP:127:ALA:O	48:DP:148:LEU:HG	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
52:DT:32:TYR:CD2	52:DT:81:PRO:CB	2.89	0.45
1:AA:1347:G:H5''	9:AI:107:ARG:HB3	1.98	0.45
5:AE:7:GLU:O	5:AE:8:GLU:CB	2.64	0.45
1:AA:1123:A:O2'	10:AJ:38:ILE:HG22	2.16	0.45
13:AM:124:PRO:HB2	24:AY:163:GLY:O	2.16	0.45
24:AY:109:PHE:CB	24:AY:112:ALA:HB2	2.42	0.45
13:AM:125:ARG:HD2	24:AY:165:ASP:CA	2.45	0.45
24:AY:303:ARG:N	24:AY:304:PRO:CD	2.62	0.45
31:B6:12:GLU:OE1	31:B6:52:VAL:HB	2.16	0.45
35:BA:1266:G:O5'	55:BW:15:ARG:NH2	2.49	0.45
35:BA:1408:C:H2'	35:BA:1409:C:H6	1.82	0.45
35:BA:1754:C:H5	52:BT:96:ARG:NH2	2.14	0.45
35:BA:1810:A:H2'	35:BA:1811:G:O4'	2.16	0.45
35:BA:2712(A):A:H5''	35:BA:2713:A:OP2	2.16	0.45
35:BA:271(F):C:H2'	35:BA:271(G):C:H6	1.81	0.45
35:BA:2772:C:H2'	35:BA:2773:C:H6	1.80	0.45
35:BA:558:G:OP1	46:BN:111:PRO:HD2	2.16	0.45
35:BA:57:C:H2'	35:BA:58:G:O4'	2.17	0.45
38:BD:8:PRO:C	38:BD:10:THR:H	2.20	0.45
38:BD:35:LYS:O	38:BD:35:LYS:CG	2.64	0.45
39:BE:111:ARG:HG3	50:BR:2:ARG:CG	2.42	0.45
35:BA:2579:C:O2'	39:BE:131:ALA:HB3	2.16	0.45
39:BE:16:ARG:O	39:BE:18:ASP:N	2.48	0.45
42:BH:115:VAL:HG11	42:BH:148:ILE:CD1	2.46	0.45
43:BI:59:ALA:C	43:BI:63:ALA:HB3	2.36	0.45
43:BI:88:ILE:HG22	43:BI:89:TYR:N	2.32	0.45
45:BK:84:LEU:HD12	45:BK:87:GLY:HA2	1.97	0.45
35:BA:1665:A:C4'	47:BO:67:LYS:HB2	2.45	0.45
48:BP:32:THR:O	48:BP:33:ARG:HB2	2.15	0.45
48:BP:88:LEU:N	48:BP:88:LEU:HD12	2.23	0.45
50:BR:56:LYS:HE3	50:BR:88:ARG:HA	1.99	0.45
51:BS:26:LEU:HD23	51:BS:39:ILE:HG12	1.97	0.45
51:BS:89:ARG:CB	51:BS:92:TYR:HB3	2.46	0.45
52:BT:32:TYR:CD2	52:BT:81:PRO:CB	2.89	0.45
27:B2:36:ARG:NH2	56:BX:5:TYR:O	2.50	0.45
56:BX:90:GLU:O	56:BX:93:GLU:HB2	2.15	0.45
58:BZ:151:HIS:ND1	58:BZ:152:ALA:N	2.64	0.45
49:BQ:59:ARG:CB	58:BZ:180:VAL:HG23	2.46	0.45
1:CA:1001(A):G:O2'	1:CA:1002:G:H5'	2.16	0.45
1:CA:1054:C:O2	1:CA:1054:C:C3'	2.65	0.45
1:CA:1228:C:H2'	1:CA:1229:A:C8	2.50	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:161:A:H2'	1:CA:162:A:C8	2.51	0.45
1:CA:218:C:H5'	1:CA:470:C:H41	1.80	0.45
1:CA:377:G:O2'	1:CA:378:G:H5'	2.17	0.45
1:CA:112:G:H4'	1:CA:389:A:H5''	1.98	0.45
1:CA:520:A:OP1	12:CL:52:LEU:HB2	2.16	0.45
4:CD:10:ARG:HG2	4:CD:10:ARG:O	2.16	0.45
4:CD:98:GLU:O	4:CD:100:ARG:N	2.49	0.45
5:CE:72:GLN:O	5:CE:73:ASN:HB2	2.16	0.45
7:CG:68:ASN:O	7:CG:138:LYS:HD2	2.16	0.45
7:CG:23:VAL:O	7:CG:27:ILE:HG13	2.15	0.45
9:CI:59:PHE:N	9:CI:59:PHE:CD1	2.84	0.45
12:CL:117:ARG:HB3	12:CL:122:THR:HB	1.97	0.45
12:CL:47:LYS:C	12:CL:49:ASN:H	2.20	0.45
19:CS:18:LYS:C	19:CS:22:LEU:HD23	2.37	0.45
26:D1:40:ARG:HD3	26:D1:40:ARG:C	2.37	0.45
33:D8:21:LYS:HD3	33:D8:48:PHE:CZ	2.52	0.45
35:DA:1281:G:O2'	35:DA:1282:U:H5'	2.17	0.45
35:DA:1472:A:O2'	35:DA:1473:G:H5'	2.16	0.45
35:DA:1755:A:O2'	35:DA:1756:G:H5'	2.16	0.45
35:DA:2715:C:O2'	35:DA:2716:U:H5'	2.16	0.45
35:DA:271(K):U:N3	43:DI:50:ARG:CZ	2.80	0.45
35:DA:271(A):A:H2	35:DA:272(D):G:N3	2.15	0.45
35:DA:711:G:O2'	35:DA:712:G:H5'	2.15	0.45
35:DA:816:C:H2'	35:DA:817:C:H6	1.82	0.45
36:DB:21:G:O2'	36:DB:22:U:C6	2.68	0.45
36:DB:29:A:H2'	36:DB:30:C:C6	2.52	0.45
40:DF:117:ARG:NH2	40:DF:187:VAL:HA	2.30	0.45
41:DG:17:PRO:HG2	41:DG:18:GLU:H	1.82	0.45
41:DG:31:VAL:CG1	41:DG:31:VAL:O	2.63	0.45
22:CV:56:C:O4'	41:DG:76:SER:HB2	2.17	0.45
42:DH:46:GLU:O	42:DH:47:GLU:HB2	2.16	0.45
45:DK:105:LEU:O	45:DK:108:ALA:HB3	2.16	0.45
48:DP:10:PRO:CD	48:DP:11:GLY:H	2.23	0.45
48:DP:106:LEU:HD22	48:DP:112:LEU:HD23	1.99	0.45
48:DP:41:ARG:HE	48:DP:41:ARG:HA	1.82	0.45
52:DT:89:VAL:C	52:DT:91:ARG:N	2.63	0.45
53:DU:21:ALA:HB2	53:DU:35:ALA:HB1	1.98	0.45
57:DY:76:CYS:HB3	57:DY:96:ILE:CD1	2.41	0.45
1:AA:1104:G:C4	1:AA:1105:A:C8	3.05	0.45
1:AA:383:A:O2'	1:AA:384:G:H5'	2.16	0.45
2:AB:36:ARG:O	2:AB:37:ASN:CB	2.64	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AD:107:ARG:HH11	4:AD:107:ARG:HG2	1.81	0.45
4:AD:148:VAL:HG12	4:AD:152:SER:HB2	1.98	0.45
4:AD:165:MET:HB3	4:AD:178:VAL:HG22	1.99	0.45
5:AE:57:LYS:HE2	5:AE:61:TYR:HE2	1.81	0.45
1:AA:963:G:N2	10:AJ:55:LYS:NZ	2.63	0.45
10:AJ:38:ILE:CG1	10:AJ:71:LEU:HB3	2.46	0.45
1:AA:692:U:C5	11:AK:26:ASN:ND2	2.85	0.45
12:AL:35:GLY:HA3	12:AL:58:VAL:CG1	2.46	0.45
12:AL:53:ARG:NH1	12:AL:53:ARG:CG	2.80	0.45
22:AW:15:G:H22	22:AW:59:U:C1'	2.29	0.45
24:AY:157:THR:HG23	24:AY:165:ASP:HB3	1.98	0.45
24:AY:189:LEU:O	24:AY:203:THR:HA	2.16	0.45
24:AY:220:VAL:HG12	24:AY:222:LEU:HD21	1.98	0.45
24:AY:326:THR:CG2	24:AY:328:LEU:HB2	2.46	0.45
25:B0:14:ARG:NH1	25:B0:14:ARG:HB2	2.31	0.45
26:B1:84:GLY:O	26:B1:86:SER:N	2.50	0.45
26:B1:8:SER:HB3	26:B1:66:HIS:CD2	2.52	0.45
27:B2:35:LEU:O	27:B2:38:GLN:HB2	2.17	0.45
31:B6:11:LEU:HD12	31:B6:26:ASN:OD1	2.16	0.45
33:B8:32:LEU:O	33:B8:33:ASN:O	2.34	0.45
35:BA:1493:C:O2	35:BA:1493:C:C2'	2.64	0.45
35:BA:1809:A:H2'	35:BA:1810:A:C8	2.51	0.45
35:BA:2114:A:N6	35:BA:2115:G:H21	2.13	0.45
35:BA:2124:G:H5'	37:BC:175:PRO:HD3	1.99	0.45
35:BA:2134:A:H2	35:BA:2159:G:H1'	1.77	0.45
35:BA:2329:G:H2'	35:BA:2330:G:C8	2.52	0.45
35:BA:2650:U:O2'	35:BA:2651:C:H5'	2.16	0.45
35:BA:831:G:H8	35:BA:831:G:O5'	2.00	0.45
38:BD:24:ILE:HD13	38:BD:24:ILE:C	2.37	0.45
40:BF:129:PHE:CZ	40:BF:156:LEU:HD11	2.51	0.45
40:BF:58:ALA:O	40:BF:59:TYR:O	2.34	0.45
48:BP:17:LYS:O	48:BP:19:VAL:CG2	2.60	0.45
49:BQ:134:ARG:HH11	49:BQ:134:ARG:HG3	1.81	0.45
51:BS:34:HIS:NE2	51:BS:54:LEU:HB2	2.32	0.45
54:BV:1:MET:HB3	54:BV:2:PHE:H	1.58	0.45
55:BW:62:HIS:O	55:BW:63:ASP:C	2.54	0.45
55:BW:88:ARG:HB2	55:BW:92:ARG:CB	2.45	0.45
58:BZ:135:GLU:O	58:BZ:137:ILE:HG12	2.16	0.45
1:CA:1106:G:H2'	1:CA:1107:C:C6	2.52	0.45
1:CA:110:C:H2'	1:CA:111:G:O4'	2.17	0.45
1:CA:1298:C:H4'	1:CA:1299:A:N9	2.31	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:373:A:H2'	1:CA:374:A:H8	1.81	0.45
1:CA:41:G:H2'	1:CA:42:G:C8	2.50	0.45
1:CA:80:G:H3'	1:CA:81:U:H5'	1.98	0.45
3:CC:92:ALA:C	3:CC:94:LEU:H	2.19	0.45
5:CE:20:GLN:O	5:CE:21:ALA:O	2.34	0.45
6:CF:15:ASP:HB2	6:CF:16:GLN:NE2	2.32	0.45
7:CG:120:ILE:HG22	7:CG:124:LEU:CD1	2.46	0.45
9:CI:2:GLU:HG2	9:CI:2:GLU:O	2.16	0.45
11:CK:70:LYS:O	11:CK:73:MET:HG2	2.15	0.45
12:CL:102:ARG:CG	12:CL:102:ARG:HH11	2.27	0.45
18:CR:25:THR:O	18:CR:26:LEU:HG	2.16	0.45
13:CM:125:ARG:HB2	24:CY:159:GLY:HA3	1.98	0.45
24:CY:131:ASP:CA	24:CY:163:GLY:HA2	2.40	0.45
26:D1:82:LEU:HD23	26:D1:82:LEU:N	2.30	0.45
30:D5:41:PRO:HG2	30:D5:44:THR:CG2	2.43	0.45
30:D5:4:HIS:HB3	30:D5:5:PRO:HD2	1.93	0.45
31:D6:15:GLU:OE2	31:D6:47:THR:CB	2.64	0.45
33:D8:6:THR:HG22	33:D8:63:PRO:HD3	1.98	0.45
35:DA:1276:A:O2'	50:DR:16:HIS:HE1	1.99	0.45
35:DA:1484:G:N2	35:DA:1505:C:N4	2.62	0.45
35:DA:1747:G:H2'	35:DA:1747(A):G:H8	1.82	0.45
35:DA:1827:C:O2'	35:DA:1828:G:H5'	2.16	0.45
35:DA:1885:A:H2'	35:DA:1886:C:O4'	2.15	0.45
35:DA:191:A:O2'	35:DA:192:C:H5'	2.17	0.45
35:DA:1947:C:C3'	35:DA:1948:G:C5'	2.94	0.45
35:DA:2360:A:O2'	35:DA:2361:A:O4'	2.31	0.45
35:DA:2648:C:H2'	35:DA:2649:U:C6	2.52	0.45
35:DA:2732:G:C3'	35:DA:2733:A:C5'	2.93	0.45
35:DA:279:C:H3'	35:DA:280:C:H5''	1.96	0.45
38:DD:35:LYS:HZ2	38:DD:35:LYS:HB3	1.80	0.45
39:DE:103:ASP:CG	39:DE:201:THR:HA	2.37	0.45
39:DE:117:MET:O	39:DE:118:LYS:CB	2.62	0.45
39:DE:51:PHE:HD1	39:DE:52:LEU:N	2.12	0.45
39:DE:75:VAL:C	39:DE:77:ILE:N	2.69	0.45
41:DG:4:ASP:O	41:DG:5:VAL:HG13	2.16	0.45
42:DH:115:VAL:O	42:DH:123:PHE:HE1	1.99	0.45
42:DH:24:VAL:HG13	42:DH:24:VAL:O	2.15	0.45
47:DO:18:LYS:HB2	47:DO:45:GLU:CG	2.47	0.45
48:DP:100:LEU:HD12	48:DP:112:LEU:CD2	2.44	0.45
35:DA:811:U:OP1	48:DP:30:THR:HG22	2.16	0.45
49:DQ:12:GLN:HE21	49:DQ:73:PRO:CD	2.30	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
52:DT:100:TYR:CD2	52:DT:103:ARG:NH2	2.77	0.45
52:DT:40:THR:O	52:DT:41:ARG:HB2	2.15	0.45
35:DA:1216:G:OP2	53:DU:12:ARG:NH2	2.49	0.45
54:DV:5:VAL:CG2	54:DV:35:LEU:HB3	2.43	0.45
57:DY:28:LYS:HE3	57:DY:28:LYS:HB2	1.75	0.45
57:DY:28:LYS:C	57:DY:38:ILE:HG22	2.37	0.45
45:DK:92:GLY:CA	58:DZ:112:ARG:HH12	2.22	0.45
1:AA:1049:U:H1'	1:AA:1201:A:N7	2.31	0.45
1:AA:1225:A:N3	1:AA:1225:A:H2'	2.30	0.45
1:AA:1275:A:H2'	1:AA:1276:G:H8	1.81	0.45
1:AA:1486:G:H2'	1:AA:1487:G:C8	2.52	0.45
1:AA:389:A:C2'	1:AA:390:C:H5'	2.47	0.45
1:AA:473:G:H2'	1:AA:474:G:H8	1.80	0.45
1:AA:781:A:C3'	1:AA:782:A:H5'	2.46	0.45
1:AA:80:G:H3'	1:AA:81:U:H5'	1.98	0.45
2:AB:111:ARG:HH21	2:AB:114:ARG:HG2	1.82	0.45
4:AD:150:GLU:OE2	4:AD:151:LYS:N	2.44	0.45
5:AE:135:THR:O	5:AE:138:ALA:HB3	2.17	0.45
6:AF:17:SER:O	6:AF:20:ALA:HB3	2.17	0.45
6:AF:3:ARG:HG3	6:AF:3:ARG:NH1	2.30	0.45
11:AK:122:LYS:O	11:AK:126:ARG:HG3	2.16	0.45
11:AK:88:GLY:O	11:AK:90:GLY:N	2.49	0.45
14:AN:34:TYR:CD1	14:AN:34:TYR:N	2.85	0.45
18:AR:44:LEU:N	18:AR:44:LEU:HD12	2.31	0.45
20:AT:102:GLY:O	20:AT:104:LEU:N	2.49	0.45
24:AY:14:ARG:CZ	24:AY:350:GLU:OE1	2.63	0.45
24:AY:332:ASP:O	24:AY:336:VAL:HG23	2.17	0.45
24:AY:50:GLN:HE21	24:AY:51:GLU:N	2.15	0.45
26:B1:46:LEU:HA	26:B1:63:ALA:HA	1.98	0.45
27:B2:48:HIS:O	27:B2:52:ASP:HB2	2.16	0.45
28:B3:46:ASN:ND2	35:BA:850:C:O2'	2.44	0.45
33:B8:21:LYS:HD3	33:B8:48:PHE:CZ	2.52	0.45
35:BA:15:G:O2'	35:BA:16:G:H5'	2.17	0.45
35:BA:1705:G:O2'	35:BA:1706:U:H5'	2.17	0.45
30:B5:7:PRO:HA	35:BA:2615:U:C2	2.50	0.45
35:BA:711:G:O2'	35:BA:712:G:H5'	2.16	0.45
35:BA:752:A:H4'	35:BA:753:C:O5'	2.17	0.45
35:BA:882:G:H2'	35:BA:883:G:C8	2.51	0.45
37:BC:6:LYS:O	37:BC:8:TYR:N	2.50	0.45
40:BF:133:ASN:O	40:BF:135:LYS:N	2.50	0.45
40:BF:93:LYS:HD3	40:BF:93:LYS:HA	1.83	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:BG:31:VAL:O	41:BG:33:ARG:HD3	2.17	0.45
48:BP:23:PRO:O	48:BP:33:ARG:NH1	2.49	0.45
51:BS:88:ASP:CG	51:BS:89:ARG:N	2.69	0.45
52:BT:38:ASN:O	52:BT:39:ARG:HB3	2.16	0.45
54:BV:47:VAL:HG12	54:BV:52:VAL:H	1.81	0.45
54:BV:75:PHE:C	54:BV:75:PHE:CD1	2.90	0.45
58:BZ:122:ARG:O	58:BZ:123:ASP:OD1	2.35	0.45
49:BQ:59:ARG:HB3	58:BZ:180:VAL:CG2	2.46	0.45
1:CA:1020:U:H2'	1:CA:1021:G:H8	1.80	0.45
1:CA:1034:G:H2'	1:CA:1035:A:C6	2.52	0.45
1:CA:1207:G:H2'	1:CA:1208:C:H6	1.81	0.45
1:CA:1329:A:OP1	13:CM:28:ALA:HB3	2.15	0.45
1:CA:233:C:H2'	1:CA:234:C:H6	1.82	0.45
1:CA:592:G:H2'	1:CA:593:G:H8	1.80	0.45
1:CA:735:C:C2	1:CA:736:C:C5	3.05	0.45
2:CB:204:ASN:HD21	2:CB:207:ALA:H	1.63	0.45
3:CC:156:ARG:NH2	3:CC:159:GLY:O	2.49	0.45
4:CD:12:CYS:O	4:CD:33:MET:HE2	2.16	0.45
4:CD:180:GLY:O	4:CD:182:LYS:HD2	2.16	0.45
1:CA:932:C:H5''	7:CG:3:ARG:HD2	1.98	0.45
12:CL:70:ILE:CD1	12:CL:77:LEU:HD12	2.43	0.45
14:CN:14:PRO:O	14:CN:15:LYS:C	2.55	0.45
16:CP:28:ARG:HH11	16:CP:28:ARG:CG	2.22	0.45
20:CT:69:GLY:O	20:CT:73:HIS:CD2	2.69	0.45
22:CW:17:C:O2	22:CW:17:C:H2'	2.15	0.45
24:CY:215:ASP:C	24:CY:216:GLU:HG3	2.35	0.45
24:CY:282:ARG:NH2	24:CY:282:ARG:CB	2.80	0.45
26:D1:29:GLY:C	26:D1:30:VAL:CG2	2.84	0.45
27:D2:69:ARG:HH22	35:DA:111:A:H4'	1.81	0.45
13:CM:57:ARG:HH22	29:D4:34:GLU:HG3	1.81	0.45
35:DA:1049:C:O2'	35:DA:1050:A:H5'	2.16	0.45
35:DA:1105:U:H2'	35:DA:1106:G:H8	1.82	0.45
34:D9:31:LYS:HG2	35:DA:2478:A:H5'	1.97	0.45
35:DA:2590:A:O2'	35:DA:2591:C:H5'	2.15	0.45
35:DA:654(Q):C:O2'	35:DA:654(R):C:H5'	2.17	0.45
40:DF:165:ARG:CG	40:DF:165:ARG:HH11	2.30	0.45
40:DF:21:ALA:O	40:DF:23:ASP:N	2.49	0.45
43:DI:6:LEU:HD11	43:DI:36:ALA:CA	2.46	0.45
46:DN:47:ALA:HB2	46:DN:112:LEU:CD1	2.42	0.45
46:DN:58:ASP:HB3	46:DN:95:PRO:HB2	1.98	0.45
48:DP:111:ARG:HG3	48:DP:111:ARG:HH21	1.81	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
53:DU:102:GLU:HG3	54:DV:2:PHE:CE1	2.51	0.45
53:DU:25:TRP:C	53:DU:25:TRP:CD1	2.89	0.45
53:DU:90:VAL:HG12	53:DU:91:ASP:N	2.31	0.45
54:DV:22:VAL:O	54:DV:23:GLU:HG2	2.17	0.45
56:DX:64:LYS:CD	56:DX:73:ARG:CZ	2.94	0.45
57:DY:14:LEU:CD1	57:DY:15:VAL:H	2.28	0.45
58:DZ:22:GLY:O	58:DZ:41:LEU:HB2	2.17	0.45
1:AA:1371:G:OP2	9:AI:11:LYS:HD2	2.16	0.45
1:AA:1442(B):A:C2	52:BT:118:ARG:NH2	2.85	0.45
1:AA:59:A:H5'	1:AA:60:A:H5''	1.97	0.45
2:AB:162:ILE:O	2:AB:162:ILE:HG13	2.16	0.45
3:AC:70:VAL:HG12	3:AC:71:ALA:N	2.32	0.45
4:AD:13:ARG:HH11	4:AD:13:ARG:CB	2.30	0.45
7:AG:23:VAL:O	7:AG:27:ILE:HG13	2.16	0.45
7:AG:50:ILE:C	7:AG:52:GLU:H	2.19	0.45
8:AH:17:THR:HG22	8:AH:63:LEU:HG	1.98	0.45
14:AN:23:ARG:HH11	14:AN:30:ALA:HB2	1.78	0.45
14:AN:41:ARG:HE	14:AN:42:ILE:HD11	1.81	0.45
1:AA:1202:G:N1	14:AN:42:ILE:HG21	2.32	0.45
19:AS:16:LEU:H	19:AS:16:LEU:CD1	2.24	0.45
24:AY:169:ILE:HG22	24:AY:170:LEU:N	2.31	0.45
24:AY:83:GLU:HB3	24:AY:84:ARG:NH1	2.31	0.45
35:BA:1188:U:C2'	35:BA:1189:A:H5'	2.47	0.45
35:BA:1192:G:C2'	35:BA:1193:G:H5'	2.46	0.45
35:BA:1331:A:O2'	35:BA:1332:G:H8	1.99	0.45
35:BA:1372:U:H2'	35:BA:1373:A:O4'	2.16	0.45
35:BA:1550:C:H2'	35:BA:1551:C:H6	1.80	0.45
35:BA:2014:A:H2'	35:BA:2015:A:C8	2.52	0.45
35:BA:583:G:OP2	53:BU:10:ARG:HD2	2.16	0.45
35:BA:672:C:C2'	35:BA:673:C:C5'	2.86	0.45
35:BA:738:G:O2'	35:BA:739:G:H5'	2.16	0.45
38:BD:175:LEU:HD12	38:BD:185:VAL:HG21	1.99	0.45
39:BE:77:ILE:CG2	39:BE:78:LEU:N	2.65	0.45
43:BI:75:LEU:HD21	43:BI:105:HIS:CE1	2.51	0.45
45:BK:12:LEU:HB2	45:BK:53:VAL:HG23	1.99	0.45
48:BP:33:ARG:O	48:BP:35:HIS:N	2.49	0.45
40:BF:116:ASP:OD2	48:BP:5:ASP:HA	2.17	0.45
49:BQ:10:ARG:HH11	49:BQ:10:ARG:HB2	1.80	0.45
49:BQ:130:LYS:HD2	58:BZ:80:ARG:HH11	1.81	0.45
47:BO:77:ILE:CD1	52:BT:74:ARG:HD3	2.44	0.45
53:BU:25:TRP:C	53:BU:25:TRP:CD1	2.90	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
53:BU:78:THR:O	53:BU:79:PHE:C	2.55	0.45
56:BX:65:ARG:O	56:BX:66:LEU:HB2	2.16	0.45
58:BZ:153:SER:O	58:BZ:155:LEU:HD23	2.17	0.45
58:BZ:58:VAL:O	58:BZ:59:LEU:HD23	2.16	0.45
1:CA:1084:G:H5'	1:CA:1102:A:OP2	2.16	0.45
1:CA:1347:G:H5''	9:CI:107:ARG:HB3	1.98	0.45
1:CA:1437:C:H2'	1:CA:1438:G:H8	1.81	0.45
1:CA:189(F):U:C4	17:CQ:72:ARG:CZ	2.99	0.45
1:CA:754:C:H3'	1:CA:754:C:O2	2.16	0.45
2:CB:102:LEU:CD1	2:CB:102:LEU:N	2.80	0.45
2:CB:187:LEU:HD13	2:CB:187:LEU:O	2.16	0.45
6:CF:16:GLN:NE2	6:CF:16:GLN:H	2.14	0.45
9:CI:113:LYS:H	9:CI:113:LYS:HD2	1.79	0.45
9:CI:118:LYS:CB	9:CI:118:LYS:NZ	2.79	0.45
10:CJ:50:ILE:HD11	14:CN:41:ARG:CZ	2.46	0.45
20:CT:57:ARG:NH1	20:CT:100:ILE:HG13	2.31	0.45
22:CV:25:C:H2'	22:CV:26:A:H8	1.80	0.45
22:CW:31:A:H1'	22:CW:40:C:O2	2.16	0.45
23:CX:21:A:N6	24:CX:190:VAL:HG13	2.32	0.45
26:D1:76:ARG:HH21	26:D1:95:LEU:HD23	1.81	0.45
32:D7:5:TRP:CD1	32:D7:7:PRO:HD3	2.51	0.45
35:DA:1248:G:C5	53:DU:3:ARG:HB2	2.52	0.45
35:DA:1812:A:H2'	35:DA:1813:G:C8	2.52	0.45
35:DA:2464:C:O2'	35:DA:2465:C:H6	2.00	0.45
35:DA:2789:C:H1'	35:DA:2892:A:C2	2.51	0.45
35:DA:654(H):G:H21	35:DA:654(N):G:N2	2.15	0.45
38:DD:35:LYS:C	38:DD:35:LYS:HD2	2.36	0.45
40:DF:65:TRP:CZ3	40:DF:73:ALA:O	2.69	0.45
43:DI:79:ILE:O	43:DI:79:ILE:HG22	2.16	0.45
45:DK:11:GLN:HA	45:DK:54:PRO:HA	1.99	0.45
47:DO:13:ASN:C	47:DO:15:GLY:N	2.70	0.45
48:DP:62:LEU:N	48:DP:62:LEU:CD2	2.52	0.45
49:DQ:136:ALA:C	49:DQ:138:ASP:N	2.68	0.45
52:DT:55:ASN:O	52:DT:57:PHE:N	2.49	0.45
57:DY:45:VAL:HG13	57:DY:60:PHE:O	2.16	0.45
58:DZ:128:VAL:CG2	58:DZ:129:SER:N	2.77	0.45
2:AB:67:THR:HG21	2:AB:155:LEU:CG	2.46	0.45
3:AC:156:ARG:NH2	3:AC:159:GLY:O	2.50	0.45
5:AE:41:VAL:HG21	5:AE:69:VAL:HG21	1.99	0.45
7:AG:139:GLU:O	7:AG:143:ARG:HG3	2.16	0.45
8:AH:16:ALA:O	8:AH:19:VAL:HG22	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:AI:33:PHE:C	9:AI:35:GLU:H	2.20	0.45
9:AI:12:GLU:O	9:AI:68:GLY:N	2.50	0.45
11:AK:57:THR:HG23	11:AK:60:ALA:CB	2.47	0.45
16:AP:71:ARG:O	16:AP:74:LEU:HB2	2.16	0.45
17:AQ:46:ASP:OD1	17:AQ:49:GLU:HA	2.16	0.45
17:AQ:9:VAL:CG1	17:AQ:56:VAL:HG22	2.47	0.45
18:AR:71:LYS:HA	18:AR:74:ARG:CD	2.47	0.45
19:AS:15:LEU:HD23	19:AS:35:SER:OG	2.17	0.45
22:AV:18:G:H21	22:AV:58:A:H5'	1.81	0.45
22:AV:74:C:H2'	22:AV:75:C:H5'	1.98	0.45
24:AY:191:ARG:C	24:AY:191:ARG:HD2	2.37	0.45
24:AY:222:LEU:HD22	24:AY:222:LEU:H	1.82	0.45
24:AY:317:ASP:HB3	24:AY:318:LYS:H	1.61	0.45
24:AY:266:ARG:HG3	25:B0:3:HIS:NE2	2.31	0.45
26:B1:51:VAL:O	26:B1:57:GLU:O	2.35	0.45
27:B2:19:VAL:O	27:B2:20:GLU:C	2.55	0.45
28:B3:38:GLU:OE2	28:B3:38:GLU:HA	2.17	0.45
30:B5:4:HIS:CB	30:B5:5:PRO:CD	2.85	0.45
33:B8:61:LEU:HD12	33:B8:62:LEU:HD12	1.98	0.45
35:BA:1081:U:H4'	45:BK:122:ALA:O	2.16	0.45
35:BA:1218:C:H42	35:BA:1231:G:H1	1.64	0.45
35:BA:1429:G:H2'	35:BA:1430:C:C6	2.52	0.45
35:BA:1473:G:H2'	35:BA:1474:C:O4'	2.16	0.45
35:BA:1484:G:N2	35:BA:1505:C:N4	2.61	0.45
35:BA:1639:U:H2'	35:BA:1640:C:C5'	2.46	0.45
35:BA:279:C:H3'	35:BA:280:C:H5''	1.96	0.45
35:BA:402:A:O2'	35:BA:403:U:H5'	2.16	0.45
35:BA:979:G:H3'	35:BA:980:A:H5''	1.99	0.45
36:BB:40:U:H3'	36:BB:41:U:C5'	2.46	0.45
38:BD:148:GLU:CB	38:BD:151:LYS:HD2	2.45	0.45
39:BE:31:CYS:HB3	39:BE:49:LEU:HB3	1.98	0.45
35:BA:2632:A:C2	39:BE:61:ARG:HD2	2.52	0.45
41:BG:37:VAL:O	41:BG:94:LEU:HD12	2.17	0.45
42:BH:115:VAL:O	42:BH:123:PHE:HE1	1.98	0.45
43:BI:67:ARG:O	43:BI:71:ILE:HG23	2.15	0.45
48:BP:10:PRO:CD	48:BP:11:GLY:H	2.26	0.45
48:BP:84:ASN:HD22	48:BP:84:ASN:N	2.14	0.45
49:BQ:12:GLN:HE21	49:BQ:73:PRO:CD	2.29	0.45
52:BT:106:SER:HA	52:BT:110:ILE:HG13	1.98	0.45
52:BT:33:LYS:NZ	52:BT:74:ARG:HH21	2.15	0.45
58:BZ:44:PHE:C	58:BZ:44:PHE:CD1	2.89	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:1133:G:N2	1:CA:1143:G:H1'	2.31	0.45
1:CA:1342:C:H1'	9:CI:124:GLN:HE21	1.81	0.45
1:CA:972:C:OP2	10:CJ:57:LYS:HE2	2.16	0.45
2:CB:179:LYS:HA	8:CH:72:PRO:HG3	1.97	0.45
4:CD:148:VAL:HG12	4:CD:152:SER:HB2	1.99	0.45
4:CD:206:PHE:HD2	4:CD:207:TYR:CE2	2.35	0.45
6:CF:97:PHE:CE2	18:CR:65:ILE:HD12	2.52	0.45
7:CG:121:ALA:O	7:CG:125:MET:HG3	2.16	0.45
1:CA:1349:A:P	9:CI:118:LYS:NZ	2.90	0.45
10:CJ:98:ILE:HD12	10:CJ:98:ILE:N	2.32	0.45
15:CO:64:ARG:HH11	15:CO:64:ARG:HG3	1.80	0.45
18:CR:66:LEU:CG	18:CR:70:ILE:HD11	2.45	0.45
19:CS:9:VAL:HG12	19:CS:9:VAL:O	2.16	0.45
20:CT:57:ARG:CZ	20:CT:100:ILE:HG12	2.44	0.45
22:CW:20:U:O2	22:CW:20:U:C2'	2.62	0.45
22:CW:55:U:O4	22:CW:57:G:H5''	2.17	0.45
26:D1:80:LEU:HD23	26:D1:81:LYS:N	2.29	0.45
35:DA:1813:G:H1'	38:DD:50:THR:OG1	2.16	0.45
35:DA:2016:U:H2'	35:DA:2017:U:C6	2.52	0.45
35:DA:858:U:O2	35:DA:2268:A:H2'	2.17	0.45
35:DA:2444:G:OP2	40:DF:68:LYS:HE2	2.16	0.45
35:DA:74:A:H5'	35:DA:75:G:O4'	2.17	0.45
35:DA:833:U:H5''	48:DP:48:PRO:CB	2.45	0.45
38:DD:16:MET:HE1	38:DD:208:LYS:HD3	1.99	0.45
41:DG:181:ARG:O	41:DG:182:LYS:C	2.55	0.45
42:DH:97:ARG:CG	42:DH:98:LEU:H	2.13	0.45
35:DA:941:A:O2'	48:DP:35:HIS:CE1	2.69	0.45
49:DQ:118:LEU:CD1	49:DQ:131:ILE:HG23	2.47	0.45
52:DT:65:LYS:NZ	52:DT:66:VAL:N	2.44	0.45
57:DY:7:VAL:CB	57:DY:8:LYS:NZ	2.80	0.45
57:DY:96:ILE:CB	57:DY:99:CYS:HB2	2.43	0.45
58:DZ:137:ILE:HG22	58:DZ:137:ILE:O	2.17	0.45
58:DZ:183:LEU:O	58:DZ:184:ALA:HB2	2.17	0.45
58:DZ:43:GLU:O	58:DZ:47:VAL:HG23	2.16	0.45
1:AA:1079:G:C6	1:AA:1080:A:N6	2.85	0.45
1:AA:110:C:H2'	1:AA:111:G:O4'	2.17	0.45
1:AA:1227:A:C2'	1:AA:1228:C:O5'	2.64	0.45
1:AA:12:U:H2'	1:AA:13:U:H5''	1.98	0.45
1:AA:377:G:O2'	1:AA:378:G:H5'	2.16	0.45
1:AA:433:C:H2'	1:AA:434:U:H6	1.79	0.45
1:AA:502:G:C2	1:AA:503:C:O2	2.70	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AB:178:ARG:CG	2:AB:178:ARG:HH11	2.30	0.45
4:AD:151:LYS:O	4:AD:155:LEU:HG	2.16	0.45
5:AE:7:GLU:HB3	5:AE:112:LEU:HD13	1.99	0.45
10:AJ:42:THR:HG22	10:AJ:43:ARG:N	2.32	0.45
11:AK:108:ILE:N	11:AK:108:ILE:HD12	2.32	0.45
12:AL:7:ILE:O	12:AL:10:LEU:HB2	2.17	0.45
12:AL:44:THR:HA	12:AL:45:PRO:HD3	1.78	0.45
1:AA:625:G:H4'	16:AP:16:HIS:CG	2.52	0.45
16:AP:42:ARG:C	16:AP:43:LYS:HD2	2.36	0.45
20:AT:57:ARG:NH1	20:AT:100:ILE:HG13	2.32	0.45
25:B0:23:VAL:HA	25:B0:38:VAL:HG22	1.99	0.45
28:B3:40:THR:O	28:B3:44:ARG:HG3	2.17	0.45
28:B3:6:VAL:HB	28:B3:54:VAL:CG1	2.45	0.45
29:B4:34:GLU:CD	29:B4:34:GLU:N	2.70	0.45
31:B6:11:LEU:C	31:B6:11:LEU:HD22	2.38	0.45
35:BA:1161:C:H1'	54:BV:8:GLY:O	2.17	0.45
35:BA:1509(A):A:O2'	35:BA:1509(B):A:H5'	2.16	0.45
35:BA:152:G:H1	35:BA:174:C:N4	2.12	0.45
35:BA:1591:G:H8	35:BA:1591:G:C5'	2.30	0.45
35:BA:1947:C:C3'	35:BA:1948:G:C5'	2.94	0.45
22:AV:3:C:H5'	35:BA:2255:G:O2'	2.17	0.45
35:BA:2810:A:H2'	35:BA:2811:G:O4'	2.16	0.45
35:BA:330:A:O2'	35:BA:331:A:H8	2.00	0.45
35:BA:27:G:N2	35:BA:512:G:H2'	2.23	0.45
35:BA:580:C:H2'	35:BA:581:C:C6	2.52	0.45
35:BA:712:G:O2'	35:BA:713:G:H5'	2.16	0.45
37:BC:48:LEU:HG	37:BC:210:LEU:HD23	1.98	0.45
38:BD:131:LEU:HA	38:BD:190:TYR:CE2	2.51	0.45
38:BD:35:LYS:HB2	38:BD:63:ARG:HA	1.99	0.45
39:BE:167:VAL:HG12	39:BE:189:PRO:HD3	1.98	0.45
41:BG:114:ILE:O	41:BG:115:ARG:C	2.55	0.45
41:BG:18:GLU:HG2	41:BG:175:LEU:HD13	1.98	0.45
41:BG:6:ALA:O	41:BG:8:LYS:N	2.50	0.45
42:BH:41:MET:CG	42:BH:43:VAL:HG13	2.47	0.45
43:BI:77:LEU:CB	43:BI:140:LEU:HG	2.46	0.45
35:BA:587:C:C5	48:BP:33:ARG:HD3	2.52	0.45
51:BS:25:ARG:NH1	51:BS:42:ASP:OD1	2.49	0.45
51:BS:74:ALA:O	51:BS:77:ALA:HB3	2.16	0.45
52:BT:57:PHE:C	52:BT:58:ASN:HD22	2.19	0.45
57:BY:29:GLU:OE1	57:BY:29:GLU:N	2.48	0.45
57:BY:42:VAL:HG21	57:BY:67:LEU:HD13	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:536:C:H2'	1:CA:537:G:C8	2.52	0.45
1:CA:932:C:H5'	7:CG:4:ARG:CG	2.47	0.45
2:CB:207:ALA:C	2:CB:209:ARG:N	2.70	0.45
2:CB:83:MET:O	2:CB:85:ALA:N	2.50	0.45
3:CC:64:VAL:O	3:CC:100:ALA:HB3	2.16	0.45
3:CC:47:LEU:HD21	3:CC:68:VAL:HG11	1.98	0.45
5:CE:147:ASP:HA	5:CE:150:ARG:CZ	2.46	0.45
11:CK:22:HIS:HB3	11:CK:29:ILE:HG23	1.99	0.45
12:CL:17:LYS:HD3	12:CL:18:VAL:HG22	1.99	0.45
14:CN:41:ARG:HE	14:CN:42:ILE:HD11	1.82	0.45
22:CW:77:PHA:HB2	26:D1:33:LYS:HZ2	1.80	0.45
24:CY:242:VAL:HG13	24:CY:243:ASN:N	2.30	0.45
24:CY:178:GLY:O	24:CY:349:LEU:HD21	2.17	0.45
24:CY:61:THR:C	24:CY:63:ARG:N	2.69	0.45
25:D0:41:ARG:NH2	35:DA:2387:U:C4'	2.77	0.45
26:D1:7:ILE:HD13	26:D1:62:VAL:CG2	2.46	0.45
26:D1:88:LYS:O	26:D1:92:LYS:HB2	2.17	0.45
30:D5:52:TYR:O	30:D5:53:ALA:C	2.55	0.45
31:D6:10:LEU:HG	33:D8:34:TRP:CD1	2.52	0.45
31:D6:39:TYR:CG	31:D6:40:CYS:N	2.85	0.45
33:D8:61:LEU:HD12	33:D8:62:LEU:CD1	2.47	0.45
35:DA:1023:U:H2'	35:DA:1024:G:H5'	1.99	0.45
35:DA:1061:U:C5'	45:DK:9:LYS:HZ3	2.30	0.45
34:D9:37:GLY:HA2	35:DA:1125:G:H5'	1.99	0.45
35:DA:1448:G:H1'	35:DA:1528:A:H62	1.82	0.45
35:DA:1999:C:O2'	35:DA:2000:G:H5'	2.17	0.45
22:CV:77:PHA:HB2	35:DA:2063:C:H4'	1.98	0.45
35:DA:2180:U:H2'	35:DA:2180:U:O2	2.16	0.45
35:DA:2660:A:N3	35:DA:2661:G:H4'	2.32	0.45
35:DA:747:U:O2	35:DA:2014:A:H1'	2.17	0.45
35:DA:912:C:O2'	35:DA:913:U:H5'	2.16	0.45
39:DE:78:LEU:HD12	39:DE:78:LEU:O	2.16	0.45
42:DH:149:ARG:HG3	42:DH:162:ILE:O	2.17	0.45
42:DH:164:TYR:O	42:DH:165:ALA:HB2	2.16	0.45
42:DH:85:LYS:O	42:DH:85:LYS:HD3	2.16	0.45
43:DI:131:LYS:HB3	43:DI:132:PRO:CA	2.42	0.45
43:DI:74:ASN:OD1	43:DI:75:LEU:HD13	2.17	0.45
44:DJ:72:UNK:O	44:DJ:74:UNK:N	2.49	0.45
45:DK:20:ALA:CB	45:DK:25:PRO:HD3	2.47	0.45
46:DN:17:ASP:C	46:DN:19:GLU:H	2.20	0.45
49:DQ:18:LYS:N	49:DQ:18:LYS:HD2	2.26	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
49:DQ:55:VAL:HG22	49:DQ:56:ARG:N	2.31	0.45
35:DA:1654:A:P	50:DR:3:HIS:HB3	2.57	0.45
54:DV:82:ARG:NH1	54:DV:82:ARG:HG2	2.32	0.45
57:DY:42:VAL:HG21	57:DY:67:LEU:HD13	1.98	0.45
1:AA:1029:C:H2'	1:AA:1030(A):G:C6	2.51	0.45
1:AA:417:C:O2'	1:AA:418:C:H5'	2.17	0.45
1:AA:826:C:C5'	8:AH:12:ARG:HH21	2.29	0.45
2:AB:102:LEU:CD1	2:AB:102:LEU:N	2.80	0.45
2:AB:83:MET:O	2:AB:85:ALA:N	2.50	0.45
3:AC:88:ARG:HG2	3:AC:101:LEU:HB3	1.98	0.45
3:AC:156:ARG:NH2	3:AC:161:GLU:HA	2.31	0.45
7:AG:100:ALA:C	7:AG:104:LEU:HD23	2.36	0.45
8:AH:12:ARG:NH1	8:AH:27:PRO:CD	2.80	0.45
9:AI:2:GLU:O	9:AI:2:GLU:HG2	2.16	0.45
10:AJ:63:PHE:HZ	14:AN:45:ARG:HG3	1.81	0.45
13:AM:19:LEU:HB3	13:AM:25:ILE:HG21	1.98	0.45
13:AM:67:GLU:CG	13:AM:68:GLY:H	2.29	0.45
18:AR:63:GLN:OE1	18:AR:63:GLN:HA	2.16	0.45
19:AS:41:VAL:CG1	19:AS:42:PRO:HD2	2.47	0.45
19:AS:43:GLU:CG	19:AS:44:MET:HE1	2.43	0.45
22:AW:21:A:N6	22:AW:46:G:C4	2.85	0.45
23:AX:19:U:H5'	23:AX:20:A:OP2	2.16	0.45
27:B2:32:LEU:O	27:B2:33:MET:C	2.55	0.45
30:B5:41:PRO:CG	30:B5:44:THR:HG21	2.43	0.45
33:B8:30:ARG:HA	33:B8:30:ARG:NE	2.31	0.45
35:BA:1026:U:H2'	35:BA:1027:A:H5'	1.99	0.45
35:BA:11:G:H22	35:BA:2628:C:P	2.38	0.45
35:BA:1784:A:H4'	35:BA:1785:A:O5'	2.17	0.45
35:BA:1991:U:H2'	35:BA:1992:G:H5''	1.98	0.45
35:BA:2171:A:H5''	35:BA:2172:U:OP1	2.17	0.45
35:BA:2319:G:H4'	35:BA:2319:G:OP2	2.16	0.45
35:BA:637:A:N1	35:BA:652:C:H5'	2.32	0.45
35:BA:753:C:O5'	35:BA:753:C:H6	1.99	0.45
35:BA:814:C:O2'	35:BA:815:C:H5'	2.16	0.45
35:BA:887:A:H1'	35:BA:889:C:C4	2.52	0.45
35:BA:903:C:C2'	35:BA:904:C:C5'	2.83	0.45
38:BD:176:ARG:HG2	38:BD:176:ARG:HH11	1.82	0.45
39:BE:7:VAL:HA	39:BE:194:GLY:O	2.17	0.45
41:BG:96:ARG:HG3	41:BG:100:TRP:HE1	1.82	0.45
42:BH:46:GLU:O	42:BH:47:GLU:HB2	2.17	0.45
42:BH:51:ARG:HB2	42:BH:51:ARG:NH1	2.31	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:BI:136:VAL:O	43:BI:136:VAL:HG13	2.17	0.45
43:BI:5:LEU:HD21	43:BI:19:VAL:HG11	1.98	0.45
43:BI:84:GLY:HA3	43:BI:89:TYR:HE1	1.81	0.45
48:BP:34:GLY:O	48:BP:35:HIS:CB	2.65	0.45
49:BQ:10:ARG:CB	49:BQ:10:ARG:NH1	2.79	0.45
49:BQ:19:GLY:O	49:BQ:20:ALA:CB	2.64	0.45
51:BS:28:VAL:HG13	51:BS:99:LYS:HZ3	1.81	0.45
52:BT:35:LYS:O	52:BT:36:GLU:HB3	2.15	0.45
58:BZ:67:LEU:HD23	58:BZ:90:VAL:CG1	2.46	0.45
1:CA:1385:G:O2'	1:CA:1386:G:H5'	2.17	0.45
1:CA:321:A:N6	1:CA:328:C:O2'	2.42	0.45
1:CA:393:A:C2	1:CA:394:G:C8	3.05	0.45
1:CA:833:U:H2'	1:CA:834:C:H6	1.77	0.45
4:CD:176:LEU:HG	4:CD:178:VAL:N	2.24	0.45
4:CD:196:LEU:H	4:CD:196:LEU:CD1	2.23	0.45
7:CG:148:ASN:N	7:CG:148:ASN:ND2	2.65	0.45
8:CH:48:TYR:CD1	8:CH:48:TYR:C	2.89	0.45
16:CP:50:LYS:HD3	16:CP:50:LYS:C	2.37	0.45
16:CP:71:ARG:O	16:CP:74:LEU:HB2	2.16	0.45
31:D6:40:CYS:HB2	31:D6:46:HIS:ND1	2.32	0.45
35:DA:1170:G:H1	35:DA:1179:C:N4	1.99	0.45
35:DA:1744:C:C2'	35:DA:1745:C:H5'	2.47	0.45
35:DA:1800:C:OP1	38:DD:266:SER:OG	2.35	0.45
35:DA:2134:A:H5''	35:DA:2156:G:H22	1.82	0.45
35:DA:2405:G:O2'	35:DA:2406:U:OP2	2.35	0.45
35:DA:2623:G:H4'	35:DA:2825:C:O2	2.16	0.45
35:DA:572:A:H2'	35:DA:573:G:O4'	2.16	0.45
35:DA:71:A:H2	56:DX:31:HIS:CE1	2.34	0.45
35:DA:752:A:H4'	35:DA:753:C:O5'	2.16	0.45
38:DD:117:VAL:CG1	38:DD:118:VAL:N	2.80	0.45
38:DD:265:PRO:O	38:DD:267:SER:N	2.49	0.45
40:DF:133:ASN:O	40:DF:135:LYS:N	2.50	0.45
40:DF:160:ASN:C	40:DF:160:ASN:HD22	2.20	0.45
40:DF:8:GLN:HG2	40:DF:126:VAL:CG1	2.45	0.45
41:DG:72:ARG:CZ	41:DG:86:MET:HA	2.47	0.45
43:DI:1:MET:HG2	43:DI:2:LYS:H	1.81	0.45
43:DI:68:LEU:HA	43:DI:71:ILE:HG12	1.99	0.45
44:DJ:81:UNK:C	44:DJ:83:UNK:N	2.80	0.45
45:DK:18:THR:N	45:DK:19:PRO:CD	2.80	0.45
45:DK:98:ARG:NH1	45:DK:137:GLU:HG2	2.31	0.45
46:DN:15:LEU:HD13	46:DN:15:LEU:C	2.37	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
56:DX:31:HIS:HA	56:DX:32:PRO:HD2	1.70	0.45
1:AA:114:U:H2'	1:AA:115:G:H8	1.82	0.45
1:AA:1202:G:C2	14:AN:42:ILE:HG21	2.52	0.45
1:AA:1310:G:O2'	1:AA:1311:G:H5'	2.17	0.45
1:AA:161:A:O2'	1:AA:162:A:H5'	2.17	0.45
1:AA:429:U:H1'	1:AA:430:A:H5''	1.99	0.45
1:AA:763:G:H2'	1:AA:764:C:H6	1.82	0.45
1:AA:939:G:H2'	1:AA:940:C:H6	1.81	0.45
2:AB:95:GLN:NE2	2:AB:147:LYS:HE2	2.32	0.45
2:AB:200:ILE:HG22	2:AB:202:PRO:HD3	1.99	0.45
2:AB:207:ALA:C	2:AB:209:ARG:N	2.70	0.45
3:AC:92:ALA:C	3:AC:94:LEU:H	2.20	0.45
4:AD:196:LEU:N	4:AD:196:LEU:HD12	2.23	0.45
4:AD:13:ARG:NH2	4:AD:36:ARG:HD3	2.32	0.45
5:AE:73:ASN:ND2	5:AE:73:ASN:N	2.65	0.45
6:AF:39:LYS:H	6:AF:64:GLN:HB3	1.81	0.45
8:AH:12:ARG:HH12	8:AH:27:PRO:HD2	1.82	0.45
9:AI:79:LEU:CD1	9:AI:83:ARG:HH21	2.30	0.45
22:AW:18:G:H1	22:AW:55:U:H1'	1.81	0.45
24:AY:205:PHE:CZ	24:AY:307:TRP:HA	2.52	0.45
25:B0:74:ARG:NH2	36:BB:13:A:OP2	2.50	0.45
27:B2:69:ARG:O	27:B2:70:GLN:CB	2.65	0.45
30:B5:52:TYR:O	30:B5:53:ALA:C	2.56	0.45
35:BA:1049:C:O2'	35:BA:1050:A:H5'	2.17	0.45
35:BA:2131:G:H4'	35:BA:2132:U:H5''	1.99	0.45
35:BA:2313:C:H2'	35:BA:2314:C:H6	1.82	0.45
35:BA:2328:A:H2'	35:BA:2329:G:C8	2.52	0.45
38:BD:267:SER:O	38:BD:269:PHE:N	2.50	0.45
39:BE:101:ARG:HH11	39:BE:171:GLU:N	2.15	0.45
35:BA:2572:A:N7	39:BE:145:LYS:HB2	2.32	0.45
41:BG:132:ASN:O	41:BG:133:LEU:HB3	2.16	0.45
42:BH:158:HIS:O	42:BH:159:GLU:HB2	2.15	0.45
42:BH:37:VAL:HG12	42:BH:38:SER:N	2.31	0.45
45:BK:37:PHE:CD1	45:BK:41:PHE:HB2	2.51	0.45
46:BN:133:GLN:O	46:BN:134:ARG:CB	2.64	0.45
48:BP:100:LEU:HD12	48:BP:112:LEU:CD2	2.46	0.45
48:BP:111:ARG:HG3	48:BP:111:ARG:HH21	1.81	0.45
48:BP:57:THR:OG1	48:BP:58:THR:N	2.45	0.45
35:BA:2820:A:O4'	50:BR:5:LYS:HD2	2.16	0.45
57:BY:68:HIS:CE1	57:BY:70:SER:HB3	2.52	0.45
1:CA:1290:G:N3	1:CA:1290:G:H2'	2.31	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:161:A:O2'	1:CA:162:A:H5'	2.17	0.45
1:CA:957:U:H2'	1:CA:959:A:OP2	2.17	0.45
4:CD:29:PRO:O	4:CD:30:LYS:CB	2.64	0.45
8:CH:24:THR:HG22	8:CH:63:LEU:HD21	1.99	0.45
9:CI:14:VAL:HG12	9:CI:15:ALA:N	2.32	0.45
9:CI:88:TYR:O	9:CI:89:ASN:CB	2.64	0.45
11:CK:88:GLY:O	11:CK:90:GLY:N	2.50	0.45
22:CV:20:U:H5	22:CV:21:A:HO2'	1.62	0.45
24:CY:85:GLU:HA	24:CY:88:LYS:CG	2.46	0.45
25:D0:36:ILE:HD12	25:D0:38:VAL:N	2.32	0.45
35:DA:1464:C:O2'	35:DA:1528:A:C8	2.47	0.45
35:DA:1795:C:O2	38:DD:255:LYS:NZ	2.45	0.45
35:DA:1930:G:O2'	35:DA:1931:U:OP2	2.34	0.45
35:DA:1993:U:H2'	35:DA:1994:C:O4'	2.17	0.45
35:DA:2118:U:OP1	35:DA:2148:G:H4'	2.17	0.45
35:DA:2148:G:H2'	35:DA:2149:G:C8	2.48	0.45
35:DA:2305:A:H2'	35:DA:2306:C:O4'	2.17	0.45
35:DA:2347:C:H2'	35:DA:2348:U:C6	2.51	0.45
35:DA:2576:G:O2'	35:DA:2579:C:OP2	2.29	0.45
25:D0:74:ARG:HG2	36:DB:12:C:O2'	2.17	0.45
37:DC:16:ASP:OD2	37:DC:19:LYS:HB2	2.17	0.45
37:DC:180:SER:O	37:DC:181:PHE:C	2.56	0.45
38:DD:211:ARG:HA	38:DD:214:TRP:CE3	2.52	0.45
35:DA:2600:A:OP2	38:DD:237:GLU:OE1	2.35	0.45
42:DH:24:VAL:O	42:DH:24:VAL:CG1	2.65	0.45
35:DA:1665:A:C4'	47:DO:67:LYS:HB2	2.47	0.45
48:DP:9:ASN:C	48:DP:11:GLY:N	2.69	0.45
49:DQ:109:VAL:CG1	49:DQ:113:GLN:CB	2.94	0.45
52:DT:49:VAL:O	52:DT:49:VAL:HG13	2.17	0.45
57:DY:62:GLU:HG2	57:DY:63:LYS:N	2.25	0.45
1:AA:1293:G:O2'	1:AA:1294:G:C8	2.70	0.44
1:AA:1508:G:H2'	1:AA:1509:C:O4'	2.16	0.44
1:AA:32:A:H2'	1:AA:33:A:H8	1.79	0.44
1:AA:413:G:H4'	1:AA:414:A:C5'	2.36	0.44
1:AA:594:G:C2'	1:AA:595:G:H5'	2.47	0.44
2:AB:204:ASN:HD21	2:AB:207:ALA:H	1.63	0.44
6:AF:97:PHE:N	18:AR:30:ASP:OD1	2.50	0.44
9:AI:71:SER:HA	9:AI:74:ILE:HD12	1.98	0.44
12:AL:17:LYS:HD3	12:AL:18:VAL:HG22	1.99	0.44
13:AM:91:ARG:HH22	13:AM:103:THR:HG21	1.81	0.44
17:AQ:5:VAL:HA	17:AQ:59:ILE:O	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:AQ:65:ILE:HG22	17:AQ:65:ILE:O	2.17	0.44
6:AF:97:PHE:CE2	18:AR:65:ILE:HD12	2.52	0.44
24:AY:124:ALA:O	24:AY:129:ALA:HB2	2.16	0.44
24:AY:136:LEU:HD23	24:AY:139:MET:SD	2.58	0.44
24:AY:249:VAL:HG21	24:AY:272:LYS:HA	1.99	0.44
27:B2:31:GLU:HB2	27:B2:53:LEU:HD11	1.98	0.44
34:B9:30:PRO:O	34:B9:32:HIS:N	2.51	0.44
35:BA:1047:G:H2'	35:BA:1110:G:N2	2.33	0.44
35:BA:1332:G:H5''	35:BA:1332:G:C8	2.48	0.44
35:BA:1537:G:H2'	35:BA:1538:G:C8	2.52	0.44
35:BA:1541:G:H5''	35:BA:1542:A:O5'	2.17	0.44
35:BA:1826:G:H2'	35:BA:1827:C:C6	2.53	0.44
35:BA:1914:C:H2'	35:BA:1915:U:H5'	1.99	0.44
35:BA:494:G:N2	55:BW:57:ASN:HD21	2.15	0.44
35:BA:680:G:H2'	35:BA:681:G:C8	2.51	0.44
35:BA:902:C:H2'	35:BA:903:C:C6	2.52	0.44
39:BE:132:HIS:HA	39:BE:135:HIS:CE1	2.52	0.44
39:BE:51:PHE:HD1	39:BE:52:LEU:N	2.14	0.44
40:BF:62:ARG:NH2	40:BF:64:ILE:HD12	2.32	0.44
43:BI:120:ILE:HG23	43:BI:126:TYR:OH	2.17	0.44
43:BI:57:ARG:HD2	43:BI:61:ARG:HH22	1.82	0.44
43:BI:6:LEU:O	43:BI:7:GLU:C	2.55	0.44
46:BN:24:GLY:HA2	46:BN:27:ALA:HB3	1.99	0.44
46:BN:67:LEU:O	46:BN:68:GLU:CB	2.65	0.44
58:BZ:16:SER:HA	58:BZ:19:ARG:HG2	1.98	0.44
58:BZ:99:TYR:HB3	58:BZ:123:ASP:O	2.17	0.44
1:CA:1194:U:H2'	1:CA:1195:C:H6	1.81	0.44
1:CA:1202:G:N1	14:CN:42:ILE:HG21	2.32	0.44
1:CA:1310:G:O2'	1:CA:1311:G:H5'	2.17	0.44
1:CA:1372:U:OP1	9:CI:71:SER:HB3	2.17	0.44
1:CA:284:G:O2'	1:CA:285:G:H5'	2.17	0.44
1:CA:376:G:H2'	1:CA:377:G:C8	2.52	0.44
1:CA:781:A:H4'	1:CA:1522:U:O2'	2.17	0.44
2:CB:142:LEU:HA	2:CB:145:LEU:CB	2.47	0.44
2:CB:187:LEU:HA	2:CB:201:ILE:O	2.17	0.44
3:CC:16:ARG:HB2	3:CC:16:ARG:CZ	2.46	0.44
4:CD:13:ARG:CB	4:CD:13:ARG:HH11	2.31	0.44
4:CD:99:SER:HB3	4:CD:140:VAL:O	2.17	0.44
8:CH:39:LEU:HD22	8:CH:39:LEU:N	2.32	0.44
1:CA:598:U:H4'	8:CH:94:TYR:CG	2.52	0.44
9:CI:112:LYS:HE3	9:CI:116:LYS:O	2.16	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:CK:84:VAL:CG2	11:CK:110:ASP:HA	2.47	0.44
11:CK:21:ILE:CD1	11:CK:21:ILE:N	2.80	0.44
12:CL:38:THR:O	12:CL:79:GLU:HG2	2.17	0.44
17:CQ:7:THR:HG22	17:CQ:58:GLU:HA	1.99	0.44
24:CY:175:ASN:O	24:CY:179:LEU:HD13	2.17	0.44
24:CY:250:ARG:HG2	24:CY:250:ARG:O	2.17	0.44
24:CY:295:LEU:HD13	24:CY:299:ARG:NH2	2.29	0.44
24:CY:85:GLU:O	24:CY:88:LYS:HB2	2.16	0.44
25:D0:63:VAL:HG21	25:D0:83:PRO:HG3	2.00	0.44
27:D2:12:GLU:O	27:D2:13:ALA:C	2.54	0.44
28:D3:6:VAL:HB	28:D3:54:VAL:CG1	2.47	0.44
35:DA:1077:A:C2	35:DA:1088:A:H2'	2.52	0.44
35:DA:1161:C:H1'	54:DV:8:GLY:O	2.17	0.44
35:DA:1352:U:O2'	35:DA:1353:A:H5'	2.17	0.44
35:DA:18:C:H4'	53:DU:23:GLY:O	2.17	0.44
35:DA:2143:C:O2'	35:DA:2144:U:H5'	2.16	0.44
35:DA:2666:C:H3'	35:DA:2667:C:H6	1.82	0.44
35:DA:2713:A:H3'	35:DA:2714:G:C5'	2.47	0.44
35:DA:271(E):U:H2'	35:DA:271(F):C:H6	1.79	0.44
35:DA:2801:A:H2'	35:DA:2801:A:N3	2.31	0.44
35:DA:330:A:H2	35:DA:1210:A:C2'	2.27	0.44
35:DA:753:C:O5'	35:DA:753:C:H6	2.00	0.44
36:DB:104:U:H5''	49:DQ:141:GLN:HE21	1.81	0.44
37:DC:52:PRO:O	37:DC:54:ARG:N	2.50	0.44
38:DD:121:PRO:HA	38:DD:135:PHE:CD1	2.52	0.44
38:DD:270:ILE:C	38:DD:271:ILE:HG12	2.38	0.44
38:DD:27:THR:CG2	38:DD:83:GLU:HG2	2.46	0.44
38:DD:44:ASN:ND2	38:DD:47:GLY:O	2.49	0.44
39:DE:101:ARG:HD3	39:DE:171:GLU:HA	1.98	0.44
39:DE:7:VAL:HA	39:DE:194:GLY:O	2.17	0.44
40:DF:116:ASP:OD2	48:DP:5:ASP:HA	2.17	0.44
41:DG:43:LEU:HB3	41:DG:88:ILE:HG21	1.99	0.44
46:DN:67:LEU:O	46:DN:68:GLU:CB	2.65	0.44
35:DA:2562:U:C1'	47:DO:23:ARG:HH11	2.24	0.44
48:DP:101:VAL:HB	48:DP:107:LYS:CA	2.36	0.44
51:DS:103:GLU:O	51:DS:104:GLY:O	2.35	0.44
51:DS:64:GLU:N	51:DS:64:GLU:OE2	2.47	0.44
51:DS:89:ARG:CG	51:DS:92:TYR:HA	2.43	0.44
54:DV:18:LEU:N	54:DV:18:LEU:CD1	2.80	0.44
54:DV:52:VAL:CG2	54:DV:55:ALA:CB	2.94	0.44
56:DX:12:VAL:CG1	56:DX:17:ALA:HB1	2.47	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
57:DY:38:ILE:HG22	57:DY:39:VAL:H	1.81	0.44
58:DZ:155:LEU:O	58:DZ:157:LEU:HG	2.17	0.44
58:DZ:63:ASP:HB2	58:DZ:65:GLN:HG3	1.98	0.44
1:AA:1168:A:H2'	1:AA:1169:A:C8	2.52	0.44
1:AA:1194:U:H2'	1:AA:1195:C:H6	1.81	0.44
1:AA:1274:G:H2'	1:AA:1275:A:C8	2.52	0.44
1:AA:1305:G:H22	1:AA:1331:G:C1'	2.30	0.44
1:AA:1305:G:N2	1:AA:1331:G:O2'	2.49	0.44
1:AA:1374:A:H2'	1:AA:1375:A:H8	1.81	0.44
1:AA:1402:C:H2'	1:AA:1403:C:C6	2.52	0.44
1:AA:1508:G:H2'	1:AA:1509:C:C6	2.52	0.44
1:AA:1499:A:H1'	1:AA:1520:G:C5'	2.47	0.44
1:AA:278:G:OP2	17:AQ:41:LYS:HE2	2.16	0.44
1:AA:735:C:C2	1:AA:736:C:C5	3.05	0.44
1:AA:746:A:O2'	1:AA:747:C:H5'	2.17	0.44
1:AA:948:C:O2'	1:AA:949:A:H5'	2.16	0.44
2:AB:187:LEU:CD2	2:AB:201:ILE:O	2.62	0.44
4:AD:100:ARG:HH12	4:AD:137:SER:CB	2.29	0.44
4:AD:11:LEU:HD13	4:AD:66:ARG:HD3	2.00	0.44
5:AE:72:GLN:O	5:AE:73:ASN:HB2	2.16	0.44
13:AM:116:THR:O	13:AM:118:ALA:N	2.51	0.44
15:AO:39:LEU:CD1	15:AO:56:LEU:HB2	2.47	0.44
20:AT:100:ILE:HG13	20:AT:100:ILE:O	2.16	0.44
20:AT:72:LEU:HD21	20:AT:80:ARG:HE	1.81	0.44
26:B1:7:ILE:HG22	26:B1:8:SER:N	2.31	0.44
30:B5:16:ARG:HG2	30:B5:16:ARG:HH11	1.82	0.44
35:BA:1469:A:H2'	35:BA:1470:G:C8	2.51	0.44
35:BA:1529:G:N7	35:BA:1541:G:N2	2.60	0.44
1:AA:784:C:H4'	35:BA:1837:C:OP1	2.18	0.44
35:BA:2143:C:C2'	35:BA:2144:U:H5'	2.47	0.44
35:BA:2118:U:OP1	35:BA:2148:G:H4'	2.17	0.44
33:B8:34:TRP:HB2	35:BA:2420:C:OP1	2.17	0.44
35:BA:197:A:N6	35:BA:2430:A:H2'	2.31	0.44
35:BA:274:G:C2'	35:BA:274:G:N3	2.81	0.44
35:BA:332:A:O2'	35:BA:334:C:OP2	2.18	0.44
35:BA:52:A:O2'	35:BA:53:A:H5'	2.17	0.44
35:BA:675:A:OP1	40:BF:63:LYS:HE2	2.17	0.44
35:BA:811:U:OP1	48:BP:30:THR:HG22	2.17	0.44
37:BC:4:HIS:HD1	37:BC:8:TYR:HE2	1.65	0.44
39:BE:132:HIS:O	39:BE:135:HIS:CD2	2.70	0.44
39:BE:56:PRO:O	39:BE:57:LYS:O	2.35	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:BE:59:VAL:CG1	39:BE:63:LEU:HG	2.47	0.44
42:BH:13:LYS:O	42:BH:15:VAL:HG22	2.17	0.44
43:BI:86:THR:O	43:BI:86:THR:HG22	2.17	0.44
47:BO:44:LYS:HA	47:BO:44:LYS:HD3	1.83	0.44
48:BP:112:LEU:N	48:BP:128:HIS:HD2	2.12	0.44
48:BP:23:PRO:HD2	48:BP:33:ARG:NE	2.31	0.44
51:BS:35:ILE:HD11	51:BS:99:LYS:HZ2	1.83	0.44
55:BW:31:GLU:O	55:BW:35:ILE:HG12	2.17	0.44
35:BA:71:A:H2	56:BX:31:HIS:CE1	2.35	0.44
58:BZ:99:TYR:HA	58:BZ:124:ILE:O	2.17	0.44
1:CA:1281:U:H5'	1:CA:1282:C:H5	1.83	0.44
1:CA:1458:G:H5'	20:CT:32:ALA:HB2	1.98	0.44
1:CA:932:C:H5'	7:CG:4:ARG:HG3	1.99	0.44
2:CB:174:VAL:HG13	2:CB:184:VAL:HG11	1.99	0.44
3:CC:52:LEU:CD2	3:CC:52:LEU:N	2.79	0.44
3:CC:58:GLU:HB2	3:CC:65:ALA:CB	2.47	0.44
4:CD:61:LYS:HA	4:CD:203:VAL:HG22	1.99	0.44
4:CD:68:TYR:CD1	4:CD:68:TYR:N	2.85	0.44
7:CG:23:VAL:HG13	7:CG:43:PHE:CE2	2.52	0.44
13:CM:29:ARG:HD3	13:CM:64:TRP:CD2	2.52	0.44
13:CM:80:ARG:HH22	19:CS:69:HIS:CE1	2.35	0.44
14:CN:13:THR:HG22	14:CN:13:THR:O	2.18	0.44
1:CA:1202:G:C2	14:CN:42:ILE:HG21	2.52	0.44
1:CA:740:U:H4'	15:CO:39:LEU:HD23	1.99	0.44
16:CP:81:ARG:HG2	16:CP:83:GLU:OE2	2.17	0.44
17:CQ:22:LEU:HD11	17:CQ:39:SER:HB2	1.97	0.44
24:CY:138:ARG:HH12	24:CY:337:LEU:HD13	1.82	0.44
24:CY:267:SER:HB3	25:D0:3:HIS:CE1	2.53	0.44
26:D1:89:GLU:O	26:D1:93:GLU:N	2.51	0.44
27:D2:69:ARG:HB2	27:D2:70:GLN:NE2	2.32	0.44
35:DA:1079:C:H1'	45:DK:132:ARG:HD3	2.00	0.44
35:DA:2206:G:N2	35:DA:2207:G:H5'	2.31	0.44
35:DA:464:U:H2'	35:DA:465:G:O4'	2.17	0.44
35:DA:922:U:H2'	35:DA:923:C:C6	2.52	0.44
37:DC:6:LYS:HA	37:DC:9:ARG:HB2	1.98	0.44
35:DA:1801:G:OP2	38:DD:154:LYS:HE2	2.16	0.44
38:DD:83:GLU:O	38:DD:92:ILE:HD13	2.17	0.44
41:DG:121:ASN:ND2	41:DG:121:ASN:C	2.69	0.44
41:DG:54:GLU:C	41:DG:56:ALA:N	2.71	0.44
46:DN:57:ALA:O	46:DN:58:ASP:CG	2.56	0.44
47:DO:115:VAL:CG1	47:DO:121:VAL:HG21	2.47	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
57:DY:63:LYS:HG2	57:DY:64:GLU:N	2.28	0.44
1:AA:1133:G:C1'	1:AA:1142:G:H22	2.30	0.44
1:AA:1406:U:O2'	1:AA:1407:C:H5'	2.17	0.44
1:AA:41:G:H2'	1:AA:42:G:C8	2.52	0.44
1:AA:630:G:H2'	1:AA:631:G:H5''	2.00	0.44
1:AA:81:U:H2'	1:AA:82:U:C5	2.53	0.44
2:AB:14:GLY:C	2:AB:15:VAL:HG22	2.37	0.44
4:AD:17:VAL:O	4:AD:18:LYS:O	2.35	0.44
4:AD:180:GLY:O	4:AD:182:LYS:HD2	2.17	0.44
4:AD:38:TYR:CD2	4:AD:45:GLN:HB3	2.52	0.44
9:AI:113:LYS:H	9:AI:113:LYS:HD2	1.80	0.44
10:AJ:4:ILE:HD13	10:AJ:74:ILE:HG13	1.99	0.44
12:AL:26:ALA:O	12:AL:27:LEU:O	2.35	0.44
20:AT:10:LEU:O	20:AT:12:ALA:N	2.42	0.44
24:AY:116:ALA:HB2	24:AY:177:TYR:HA	1.99	0.44
24:AY:287:GLU:HA	24:AY:290:LYS:HE3	1.99	0.44
27:B2:11:GLU:HA	27:B2:14:ARG:CB	2.27	0.44
35:BA:102:G:OP1	35:BA:102:G:C4'	2.65	0.44
35:BA:1366:A:H2'	35:BA:1367:A:H5'	1.99	0.44
35:BA:1498:C:O4'	35:BA:1577:C:H4'	2.18	0.44
35:BA:1509(B):A:O2'	35:BA:1510:G:H5'	2.18	0.44
35:BA:1666:G:C2'	35:BA:1667:G:H5'	2.47	0.44
35:BA:2123:G:H2'	35:BA:2124:G:H8	1.82	0.44
35:BA:2250:G:OP1	49:BQ:85:LYS:NZ	2.38	0.44
35:BA:346:A:C2'	35:BA:347:A:H5'	2.47	0.44
35:BA:922:U:H2'	35:BA:923:C:C6	2.52	0.44
38:BD:210:GLY:C	38:BD:212:SER:N	2.71	0.44
39:BE:97:LYS:O	39:BE:100:GLU:HG3	2.17	0.44
40:BF:140:LEU:HA	40:BF:140:LEU:HD12	1.82	0.44
40:BF:141:ALA:O	40:BF:144:LYS:HB3	2.17	0.44
41:BG:23:PHE:CZ	41:BG:168:GLU:HA	2.51	0.44
41:BG:45:GLU:N	41:BG:88:ILE:HG13	2.32	0.44
41:BG:68:PRO:HB2	41:BG:90:LEU:HD11	1.98	0.44
42:BH:89:ILE:O	42:BH:89:ILE:HG13	2.17	0.44
43:BI:104:GLN:O	43:BI:105:HIS:HD2	2.00	0.44
35:BA:1058:G:H21	45:BK:126:MET:HE2	1.82	0.44
45:BK:23:VAL:O	45:BK:27:LEU:HD23	2.18	0.44
47:BO:2:ILE:CD1	47:BO:6:THR:HG21	2.48	0.44
48:BP:58:THR:HG22	48:BP:61:ARG:HG3	1.99	0.44
49:BQ:16:ARG:C	49:BQ:17:LEU:HD23	2.37	0.44
51:BS:13:ARG:CG	51:BS:14:VAL:N	2.66	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
52:BT:78:LEU:HB3	52:BT:79:HIS:ND1	2.32	0.44
55:BW:5:ALA:O	55:BW:6:ILE:CB	2.65	0.44
58:BZ:112:ARG:HD2	58:BZ:112:ARG:O	2.18	0.44
58:BZ:42:VAL:CG1	58:BZ:43:GLU:H	2.03	0.44
1:CA:1049:U:H1'	1:CA:1201:A:N7	2.32	0.44
1:CA:1378:C:C5	1:CA:1379:G:C4	3.06	0.44
1:CA:60:A:H4'	1:CA:61:G:O5'	2.18	0.44
1:CA:617:G:H1	1:CA:623:C:H42	1.65	0.44
1:CA:690:G:C6	1:CA:691:G:C6	3.05	0.44
1:CA:948:C:O2'	1:CA:949:A:H5'	2.17	0.44
1:CA:993:G:N3	1:CA:993:G:H2'	2.32	0.44
2:CB:74:LYS:HD2	2:CB:169:LYS:HG3	2.00	0.44
2:CB:36:ARG:O	2:CB:37:ASN:CB	2.64	0.44
6:CF:43:LEU:HD23	6:CF:46:ARG:HH11	1.81	0.44
6:CF:80:ARG:HG3	6:CF:88:VAL:HG23	1.99	0.44
7:CG:36:LYS:HB2	7:CG:36:LYS:HZ3	1.81	0.44
8:CH:127:LEU:O	8:CH:129:VAL:HG13	2.18	0.44
9:CI:71:SER:HA	9:CI:74:ILE:HD12	1.99	0.44
7:CG:150:ALA:HA	11:CK:59:TYR:HB3	1.99	0.44
13:CM:20:THR:C	13:CM:22:ILE:H	2.21	0.44
15:CO:23:GLY:O	15:CO:24:SER:HB3	2.16	0.44
16:CP:42:ARG:C	16:CP:43:LYS:HD2	2.37	0.44
18:CR:66:LEU:O	18:CR:70:ILE:HG13	2.18	0.44
20:CT:102:GLY:O	20:CT:104:LEU:N	2.51	0.44
20:CT:10:LEU:O	20:CT:12:ALA:N	2.40	0.44
22:CV:53:G:O2'	22:CV:54:U:H5'	2.17	0.44
22:CV:57:G:H1'	41:DG:78:SER:OG	2.17	0.44
24:CY:185:GLY:HA3	24:CY:311:ILE:HG23	2.00	0.44
24:CY:312:ARG:HD2	24:CY:314:TYR:OH	2.16	0.44
28:D3:1:MET:CG	28:D3:2:PRO:HD2	2.47	0.44
33:D8:33:ASN:HA	33:D8:36:LYS:CD	2.46	0.44
35:DA:1144:G:H2'	35:DA:1145:C:C6	2.53	0.44
35:DA:1331:A:O2'	35:DA:1332:G:H8	1.99	0.44
35:DA:1366:A:H2'	35:DA:1367:A:C5'	2.47	0.44
35:DA:1473:G:H2'	35:DA:1474:C:O4'	2.17	0.44
35:DA:1812:A:H2'	35:DA:1813:G:H8	1.82	0.44
35:DA:2161:C:H2'	35:DA:2162:G:C8	2.50	0.44
35:DA:2051:A:H5'	35:DA:2578:G:O4'	2.17	0.44
35:DA:271(D):G:O2'	35:DA:271(E):U:H5'	2.17	0.44
35:DA:824:A:H2'	35:DA:825:C:C6	2.53	0.44
35:DA:952:G:C6	35:DA:953:A:N7	2.86	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:DD:11:PRO:C	38:DD:13:ARG:N	2.70	0.44
38:DD:134:ARG:HG3	38:DD:135:PHE:CD2	2.52	0.44
38:DD:6:PHE:N	38:DD:6:PHE:CD1	2.85	0.44
39:DE:181:LEU:HD12	39:DE:181:LEU:HA	1.74	0.44
41:DG:106:LEU:O	41:DG:111:LEU:HG	2.17	0.44
42:DH:51:ARG:HB2	42:DH:51:ARG:NH1	2.33	0.44
43:DI:9:LEU:CD1	43:DI:13:GLY:HA2	2.42	0.44
43:DI:123:LEU:HD11	43:DI:144:VAL:HG22	2.00	0.44
43:DI:40:THR:HG23	43:DI:43:ASN:HD22	1.81	0.44
43:DI:92:VAL:O	43:DI:92:VAL:HG13	2.18	0.44
48:DP:25:SER:C	48:DP:30:THR:HG23	2.38	0.44
52:DT:35:LYS:O	52:DT:36:GLU:HB3	2.17	0.44
52:DT:38:ASN:O	52:DT:39:ARG:HB3	2.17	0.44
35:DA:533:G:H5'	53:DU:24:TYR:CE2	2.52	0.44
56:DX:12:VAL:O	56:DX:13:LEU:HB2	2.17	0.44
58:DZ:53:ILE:HG22	58:DZ:71:VAL:CG1	2.36	0.44
1:AA:1034:G:H2'	1:AA:1035:A:C6	2.52	0.44
1:AA:1157:A:H4'	1:AA:1158:C:O5'	2.17	0.44
1:AA:782:A:O3'	1:AA:1515:C:H4'	2.17	0.44
1:AA:985:C:H2'	1:AA:986:A:C8	2.53	0.44
3:AC:121:ALA:HB2	3:AC:198:VAL:CG2	2.44	0.44
3:AC:13:GLY:HA2	14:AN:57:ARG:NE	2.32	0.44
3:AC:91:LEU:C	3:AC:93:LYS:N	2.70	0.44
4:AD:104:VAL:O	4:AD:104:VAL:HG12	2.17	0.44
4:AD:119:GLN:HG2	4:AD:123:HIS:HD2	1.79	0.44
4:AD:12:CYS:O	4:AD:33:MET:HE2	2.17	0.44
5:AE:51:VAL:O	5:AE:55:VAL:HG23	2.17	0.44
5:AE:57:LYS:HB3	5:AE:61:TYR:CE2	2.52	0.44
6:AF:30:LEU:CD2	6:AF:30:LEU:H	2.03	0.44
6:AF:3:ARG:HD3	6:AF:64:GLN:NE2	2.32	0.44
19:AS:18:LYS:C	19:AS:22:LEU:HD23	2.38	0.44
19:AS:48:THR:CG2	19:AS:61:TYR:HD1	2.31	0.44
22:AV:49:C:H2'	22:AV:50:U:H6	1.83	0.44
24:AY:137:LEU:HD21	24:AY:169:ILE:CD1	2.48	0.44
24:AY:18:ASP:HB3	24:AY:22:LYS:CE	2.47	0.44
25:B0:36:ILE:HD12	25:B0:36:ILE:C	2.38	0.44
30:B5:11:THR:HG21	35:BA:1264:G:C5'	2.37	0.44
30:B5:46:CYS:SG	30:B5:47:PRO:CD	3.00	0.44
35:BA:1006:C:C2	35:BA:1138:G:N2	2.85	0.44
35:BA:1328:G:H2'	35:BA:1330:C:C4	2.53	0.44
35:BA:1573:G:C2'	35:BA:1574:C:H5'	2.47	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:2877:G:O2'	35:BA:2878:U:H5'	2.17	0.44
35:BA:330:A:H2	35:BA:1210:A:C2'	2.26	0.44
35:BA:833:U:H5''	48:BP:48:PRO:CB	2.45	0.44
38:BD:83:GLU:O	38:BD:92:ILE:HD13	2.17	0.44
39:BE:9:VAL:HG22	39:BE:25:VAL:O	2.16	0.44
44:BJ:73:UNK:C	44:BJ:75:UNK:N	2.79	0.44
45:BK:11:GLN:HA	45:BK:54:PRO:HA	1.99	0.44
45:BK:84:LEU:CB	45:BK:96:VAL:HG23	2.47	0.44
46:BN:46:VAL:HG13	46:BN:48:MET:HG3	1.99	0.44
46:BN:56:ASN:C	46:BN:57:ALA:O	2.52	0.44
46:BN:56:ASN:O	46:BN:57:ALA:O	2.34	0.44
47:BO:75:SER:HB2	52:BT:75:ILE:O	2.17	0.44
51:BS:20:ARG:NE	51:BS:20:ARG:CA	2.77	0.44
51:BS:74:ALA:HB1	51:BS:103:GLU:CG	2.48	0.44
52:BT:26:ASP:OD2	52:BT:26:ASP:C	2.54	0.44
56:BX:34:ALA:HB1	56:BX:39:ILE:HD13	1.99	0.44
58:BZ:100:VAL:HG12	58:BZ:137:ILE:HG12	1.98	0.44
1:CA:1026:G:H2'	1:CA:1027:C:H5'	2.00	0.44
1:CA:1133:G:C1'	1:CA:1142:G:H22	2.31	0.44
1:CA:1374:A:H2'	1:CA:1375:A:H8	1.82	0.44
1:CA:12:U:H2'	1:CA:13:U:H5''	1.99	0.44
1:CA:1437:C:H2'	1:CA:1438:G:C8	2.53	0.44
1:CA:1452:C:H4'	1:CA:1456:G:N3	2.32	0.44
1:CA:1508:G:H2'	1:CA:1509:C:O4'	2.18	0.44
1:CA:651:C:H2'	1:CA:652:U:C6	2.52	0.44
1:CA:962:C:H2'	1:CA:963:G:C8	2.52	0.44
3:CC:155:GLY:HA3	3:CC:163:ALA:HB1	1.98	0.44
4:CD:106:TYR:HD1	4:CD:113:SER:HA	1.81	0.44
7:CG:5:ARG:C	7:CG:7:ALA:H	2.19	0.44
8:CH:112:LEU:HD23	8:CH:112:LEU:N	2.31	0.44
8:CH:25:ASP:HA	8:CH:59:LEU:O	2.17	0.44
1:CA:878:G:H5''	8:CH:89:PRO:HG2	1.96	0.44
9:CI:47:LEU:C	9:CI:49:PRO:HD2	2.38	0.44
12:CL:33:ARG:HG2	12:CL:60:LEU:HD12	1.99	0.44
13:CM:22:ILE:HD12	13:CM:22:ILE:N	2.32	0.44
13:CM:66:LEU:O	13:CM:70:LEU:HB2	2.18	0.44
11:CK:108:ILE:HG22	18:CR:88:LYS:HB3	1.99	0.44
22:CV:41:C:H2'	22:CV:41:C:O2	2.18	0.44
24:CY:143:PHE:CD2	24:CY:180:LEU:HD21	2.52	0.44
24:CY:246:ASP:HB2	35:DA:2493:U:C5'	2.47	0.44
28:D3:6:VAL:HG23	28:D3:28:LEU:HD11	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:D3:35:ARG:HH21	28:D3:37:LEU:CD2	2.31	0.44
33:D8:4:MET:HE2	35:DA:593:G:O4'	2.18	0.44
35:DA:1472:A:C2'	35:DA:1473:G:H5'	2.46	0.44
35:DA:1525:G:H2'	35:DA:1526:G:C8	2.53	0.44
35:DA:1541:G:H5''	35:DA:1542:A:O5'	2.17	0.44
35:DA:1817:G:C2'	35:DA:1818:U:H5'	2.47	0.44
35:DA:2580:U:H4'	39:DE:130:GLY:CA	2.46	0.44
35:DA:301:G:H1'	35:DA:302:C:C6	2.53	0.44
35:DA:510:C:O2'	35:DA:511:U:H5'	2.18	0.44
35:DA:586:A:H5'	40:DF:89:VAL:HG21	2.00	0.44
35:DA:708:C:H42	35:DA:723:G:H1	1.65	0.44
35:DA:71:A:H5'	35:DA:71:A:H8	1.82	0.44
35:DA:874:G:H1	35:DA:903:C:H42	1.64	0.44
39:DE:14:ILE:CG1	39:DE:21:VAL:HG23	2.48	0.44
41:DG:128:ARG:CZ	41:DG:128:ARG:H	2.29	0.44
42:DH:88:LEU:CD2	42:DH:130:ARG:HG2	2.43	0.44
51:DS:30:ARG:NH2	51:DS:62:LYS:HB3	2.16	0.44
51:DS:85:VAL:O	51:DS:106:ARG:CG	2.63	0.44
58:DZ:28:MET:HE1	58:DZ:59:LEU:HD13	2.00	0.44
1:AA:1053:G:H3'	1:AA:1054:C:H5'	2.00	0.44
1:AA:1144:G:N2	1:AA:1146:A:H62	2.14	0.44
1:AA:1408:A:H2'	1:AA:1409:C:H6	1.82	0.44
1:AA:1502:A:H2	1:AA:1505:G:C2	2.35	0.44
1:AA:404:U:H2'	1:AA:405:U:C6	2.53	0.44
1:AA:533:A:O2'	1:AA:534:U:H5''	2.17	0.44
1:AA:688:G:H2'	1:AA:689:C:C6	2.52	0.44
1:AA:577:G:C8	1:AA:816:A:C6	3.06	0.44
1:AA:84:U:C2'	1:AA:88:A:H5'	2.48	0.44
2:AB:43:ASP:O	2:AB:46:LYS:HB2	2.18	0.44
7:AG:32:ARG:HH11	7:AG:32:ARG:HG2	1.81	0.44
9:AI:47:LEU:C	9:AI:49:PRO:HD2	2.38	0.44
10:AJ:3:LYS:HZ2	10:AJ:77:PRO:CD	2.30	0.44
17:AQ:77:VAL:HG12	17:AQ:78:GLU:N	2.33	0.44
22:AV:31:A:H2'	22:AV:32:U:H6	1.82	0.44
22:AV:50:U:C2'	22:AV:51:U:H5'	2.47	0.44
22:AV:76:8AN:H2'	24:AY:240:GLN:H	1.83	0.44
24:AY:248:ALA:HB2	24:AY:263:GLN:HG2	1.98	0.44
24:AY:318:LYS:HB2	24:AY:320:TYR:HE1	1.83	0.44
26:B1:60:PHE:CE1	26:B1:91:LYS:HG3	2.53	0.44
28:B3:1:MET:CG	28:B3:2:PRO:HD2	2.47	0.44
31:B6:35:GLU:HB3	31:B6:51:GLU:OE2	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:1106:G:C6	35:BA:1107:G:N3	2.86	0.44
35:BA:1177:A:H5'	35:BA:1178:C:C6	2.53	0.44
32:B7:9:ARG:NH2	35:BA:1310:G:OP2	2.49	0.44
35:BA:1378:A:C4'	35:BA:1379:A:OP1	2.60	0.44
35:BA:142(A):C:O2'	35:BA:143:G:H5'	2.18	0.44
35:BA:1625:C:C2'	35:BA:1626:G:H5'	2.47	0.44
35:BA:2364:C:H2'	35:BA:2365:G:O4'	2.18	0.44
35:BA:2544:G:O5'	35:BA:2544:G:H8	2.00	0.44
38:BD:210:GLY:O	38:BD:211:ARG:CB	2.61	0.44
38:BD:270:ILE:C	38:BD:271:ILE:HG12	2.37	0.44
38:BD:35:LYS:HD2	38:BD:35:LYS:C	2.37	0.44
41:BG:112:PRO:C	41:BG:113:ARG:HA	2.37	0.44
41:BG:39:ILE:HG22	41:BG:157:ILE:HG12	2.00	0.44
36:BB:41:U:O4	41:BG:71:THR:HA	2.18	0.44
43:BI:4:ILE:HD11	43:BI:44:LEU:HD12	2.00	0.44
1:AA:1423:G:P	47:BO:49:ARG:HH12	2.41	0.44
35:BA:1243:G:O2'	48:BP:9:ASN:CA	2.64	0.44
35:BA:2877:G:P	52:BT:3:ARG:HH21	2.41	0.44
57:BY:2:ARG:N	57:BY:5:MET:CG	2.77	0.44
57:BY:76:CYS:HB3	57:BY:96:ILE:CD1	2.43	0.44
58:BZ:158:PRO:HD2	58:BZ:161:VAL:HG21	1.99	0.44
58:BZ:16:SER:HA	58:BZ:19:ARG:CD	2.48	0.44
1:CA:1062:U:H2'	1:CA:1063:C:C5	2.53	0.44
1:CA:127:G:HO2'	17:CQ:2:PRO:N	2.16	0.44
1:CA:1287:A:H2	1:CA:1353:G:N3	2.16	0.44
1:CA:1502:A:H5''	1:CA:1504:G:C8	2.52	0.44
1:CA:312:C:O2'	1:CA:313:A:H5'	2.18	0.44
1:CA:383:A:O2'	1:CA:384:G:H5'	2.17	0.44
1:CA:577:G:O2'	1:CA:578:C:H5'	2.18	0.44
1:CA:625:G:H4'	16:CP:16:HIS:CD2	2.52	0.44
1:CA:629:G:H2'	1:CA:630:G:C8	2.53	0.44
3:CC:13:GLY:HA2	14:CN:57:ARG:NE	2.33	0.44
3:CC:138:VAL:HG12	3:CC:170:GLN:HE21	1.82	0.44
6:CF:22:GLU:C	6:CF:24:GLU:N	2.70	0.44
7:CG:137:LYS:HE2	7:CG:141:VAL:HG23	2.00	0.44
9:CI:12:GLU:O	9:CI:68:GLY:N	2.51	0.44
9:CI:79:LEU:CD1	9:CI:83:ARG:HH21	2.30	0.44
12:CL:26:ALA:O	12:CL:27:LEU:O	2.35	0.44
12:CL:82:VAL:HG12	12:CL:83:VAL:H	1.82	0.44
13:CM:66:LEU:N	13:CM:70:LEU:HD12	2.32	0.44
13:CM:66:LEU:O	13:CM:70:LEU:N	2.51	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:CT:50:GLU:HB2	20:CT:99:LEU:HD12	1.99	0.44
22:CV:21:A:C3'	22:CV:22:G:H5''	2.48	0.44
22:CW:38:A:H2'	22:CW:39:U:C4'	2.47	0.44
22:CW:67:C:H3'	22:CW:67:C:H6	1.82	0.44
24:CY:332:ASP:HB2	24:CY:335:ASN:HB3	1.99	0.44
27:D2:23:LYS:O	27:D2:24:LEU:C	2.56	0.44
27:D2:64:LEU:C	27:D2:64:LEU:CD2	2.86	0.44
35:DA:127:A:H5''	35:DA:128:C:C6	2.53	0.44
35:DA:1591:G:C5'	35:DA:1591:G:H8	2.30	0.44
35:DA:1914:C:O4'	35:DA:1914:C:O2	2.33	0.44
35:DA:2704:C:H2'	35:DA:2705:A:O4'	2.18	0.44
26:D1:26:ARG:NH2	35:DA:390:A:OP2	2.51	0.44
35:DA:527:C:O4'	35:DA:527:C:O2	2.36	0.44
35:DA:631:A:H2'	35:DA:632:A:O4'	2.17	0.44
35:DA:729:G:H5'	35:DA:730:C:H5''	1.99	0.44
35:DA:839:U:H2'	35:DA:840:C:C6	2.53	0.44
35:DA:845:G:OP2	35:DA:845:G:H8	2.00	0.44
39:DE:111:ARG:HG3	50:DR:2:ARG:CG	2.45	0.44
40:DF:62:ARG:HH22	40:DF:64:ILE:HD12	1.83	0.44
42:DH:143:GLN:HE21	42:DH:143:GLN:CA	2.30	0.44
42:DH:146:ALA:HB2	42:DH:164:TYR:OH	2.17	0.44
45:DK:12:LEU:HB2	45:DK:53:VAL:HG23	2.00	0.44
48:DP:23:PRO:HB2	48:DP:33:ARG:HG3	2.00	0.44
48:DP:97:PRO:C	48:DP:99:LEU:N	2.70	0.44
50:DR:25:ALA:O	50:DR:29:LEU:HD22	2.16	0.44
52:DT:106:SER:HA	52:DT:110:ILE:HG13	1.99	0.44
53:DU:104:GLN:O	54:DV:44:LYS:NZ	2.51	0.44
56:DX:18:TYR:O	56:DX:20:GLY:N	2.50	0.44
57:DY:15:VAL:HG22	57:DY:72:VAL:HG12	1.98	0.44
58:DZ:141:VAL:O	58:DZ:144:LEU:HD23	2.17	0.44
1:AA:1134:G:H2'	1:AA:1135:U:C5'	2.46	0.44
1:AA:1158:C:H42	1:AA:1181:G:H1	1.64	0.44
1:AA:1290:G:H2'	1:AA:1290:G:N3	2.32	0.44
1:AA:1473:A:O2'	1:AA:1474:G:H5'	2.18	0.44
1:AA:1497:G:C2'	1:AA:1498:U:H5'	2.47	0.44
1:AA:164:U:H2'	1:AA:165:C:H6	1.82	0.44
1:AA:177:C:O2'	1:AA:178:C:H5'	2.17	0.44
1:AA:450:G:H4'	16:AP:41:PRO:O	2.17	0.44
1:AA:592:G:H2'	1:AA:593:G:H8	1.83	0.44
1:AA:598:U:O2'	1:AA:599:C:H5'	2.17	0.44
1:AA:709:G:O2'	1:AA:710:G:H5'	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:957:U:H2'	1:AA:959:A:OP2	2.17	0.44
1:AA:962:C:H2'	1:AA:963:G:C8	2.52	0.44
2:AB:71:VAL:O	2:AB:164:VAL:HA	2.18	0.44
1:AA:9:G:H5''	5:AE:122:GLU:CD	2.38	0.44
6:AF:10:LEU:HD13	6:AF:61:LEU:CD1	2.47	0.44
7:AG:113:GLU:CB	7:AG:119:ARG:HG2	2.46	0.44
8:AH:86:ILE:CG2	8:AH:133:LEU:HD22	2.45	0.44
9:AI:14:VAL:HG12	9:AI:15:ALA:N	2.33	0.44
10:AJ:32:ALA:HB3	10:AJ:75:ILE:HG13	1.98	0.44
1:AA:657:G:H4'	15:AO:28:GLN:HG2	2.00	0.44
16:AP:3:LYS:C	16:AP:4:ILE:HD12	2.38	0.44
16:AP:53:VAL:CG1	16:AP:79:VAL:HG22	2.41	0.44
18:AR:53:ARG:C	18:AR:55:ARG:N	2.71	0.44
1:AA:186:C:H4'	20:AT:82:SER:HB3	2.00	0.44
22:AV:9:A:O2'	22:AV:10:G:N7	2.51	0.44
22:AW:63:G:H2'	22:AW:63:G:N3	2.33	0.44
22:AW:6:G:H21	22:AW:7:A:H62	1.63	0.44
24:AY:326:THR:HG23	24:AY:327:GLY:N	2.33	0.44
27:B2:50:ILE:O	27:B2:52:ASP:N	2.51	0.44
32:B7:13:ALA:O	32:B7:17:GLY:HA3	2.18	0.44
35:BA:1088:A:N3	35:BA:1088:A:H2'	2.33	0.44
35:BA:225:A:N6	35:BA:226:G:C2	2.86	0.44
35:BA:229:A:C5'	35:BA:230:U:H5'	2.48	0.44
35:BA:2547:U:H2'	35:BA:2548:G:H8	1.83	0.44
35:BA:2648:C:H2'	35:BA:2649:U:H6	1.82	0.44
35:BA:2660:A:N3	35:BA:2661:G:H4'	2.31	0.44
35:BA:2680:C:O2'	35:BA:2681:C:H5'	2.18	0.44
35:BA:2688:U:C5	35:BA:2720:U:OP2	2.70	0.44
35:BA:2734:A:H5'	35:BA:2735:G:OP2	2.17	0.44
39:BE:111:ARG:HA	50:BR:2:ARG:CG	2.33	0.44
40:BF:21:ALA:O	40:BF:23:ASP:N	2.51	0.44
35:BA:2444:G:OP1	40:BF:67:GLN:NE2	2.51	0.44
41:BG:117:PHE:CZ	41:BG:179:PRO:HG2	2.53	0.44
46:BN:4:TYR:OH	53:BU:61:TRP:NE1	2.39	0.44
46:BN:94:HIS:N	46:BN:95:PRO:CD	2.81	0.44
48:BP:50:ARG:CG	48:BP:51:PHE:N	2.77	0.44
50:BR:25:ALA:O	50:BR:29:LEU:HD22	2.18	0.44
52:BT:35:LYS:C	52:BT:37:GLY:H	2.21	0.44
55:BW:91:GLY:O	55:BW:92:ARG:C	2.55	0.44
56:BX:34:ALA:HB1	56:BX:39:ILE:CD1	2.48	0.44
57:BY:28:LYS:HZ2	57:BY:37:VAL:HG11	1.81	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
58:BZ:4:ARG:CZ	58:BZ:58:VAL:HG21	2.47	0.44
58:BZ:56:VAL:HA	58:BZ:70:LEU:HD23	1.98	0.44
58:BZ:63:ASP:C	58:BZ:65:GLN:H	2.21	0.44
1:CA:1305:G:H22	1:CA:1331:G:C1'	2.30	0.44
1:CA:173:U:H5''	1:CA:197:A:O4'	2.17	0.44
1:CA:832:C:O2'	1:CA:833:U:P	2.75	0.44
4:CD:159:ARG:O	4:CD:162:LEU:HB2	2.17	0.44
5:CE:51:VAL:O	5:CE:55:VAL:HG23	2.18	0.44
6:CF:28:ARG:HG3	6:CF:28:ARG:HH11	1.82	0.44
7:CG:32:ARG:HH11	7:CG:32:ARG:HG2	1.83	0.44
8:CH:122:ARG:NH1	8:CH:122:ARG:CB	2.81	0.44
9:CI:15:ALA:HB2	9:CI:65:VAL:CG2	2.40	0.44
12:CL:7:ILE:O	12:CL:10:LEU:HB2	2.18	0.44
13:CM:116:THR:O	13:CM:118:ALA:N	2.50	0.44
1:CA:1317:C:P	14:CN:17:LYS:HE2	2.58	0.44
16:CP:12:LYS:O	16:CP:13:HIS:HB2	2.18	0.44
17:CQ:59:ILE:CD1	17:CQ:73:VAL:HA	2.47	0.44
19:CS:15:LEU:HD23	19:CS:35:SER:OG	2.17	0.44
19:CS:16:LEU:O	19:CS:17:GLU:C	2.56	0.44
19:CS:37:ARG:H	19:CS:37:ARG:HG3	1.57	0.44
22:CW:18:G:N2	22:CW:55:U:H6	2.15	0.44
22:CW:55:U:C2'	22:CW:56:C:C5	3.01	0.44
24:CY:155:ASP:OD1	24:CY:166:TYR:HE2	2.00	0.44
24:CY:283:LEU:O	24:CY:287:GLU:HG3	2.18	0.44
24:CY:341:LEU:HA	24:CY:344:LEU:CD2	2.47	0.44
25:D0:14:ARG:O	25:D0:15:ASP:HB2	2.17	0.44
31:D6:32:ASN:O	31:D6:33:LYS:CB	2.65	0.44
35:DA:1106:G:C6	35:DA:1107:G:N3	2.86	0.44
35:DA:1192:G:C2'	35:DA:1193:G:H5'	2.47	0.44
35:DA:1819:A:H5''	38:DD:158:ALA:HB3	1.99	0.44
35:DA:1839:G:C8	35:DA:1839:G:H5'	2.52	0.44
35:DA:2808:U:N3	35:DA:2892:A:N7	2.60	0.44
35:DA:637:A:P	48:DP:116:GLY:HA2	2.58	0.44
35:DA:676:A:H8	35:DA:2069:G:N2	1.95	0.44
35:DA:889:C:O2'	35:DA:890:A:O5'	2.35	0.44
38:DD:53:PHE:HB3	38:DD:218:ARG:O	2.17	0.44
40:DF:93:LYS:HD3	40:DF:93:LYS:HA	1.82	0.44
41:DG:111:LEU:N	41:DG:112:PRO:CD	2.81	0.44
41:DG:76:SER:HA	41:DG:83:ARG:HA	1.99	0.44
42:DH:41:MET:HE2	42:DH:42:ARG:C	2.38	0.44
43:DI:57:ARG:O	43:DI:60:GLU:HB3	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:DO:13:ASN:O	47:DO:15:GLY:N	2.51	0.44
58:DZ:95:PRO:HA	58:DZ:129:SER:HA	2.00	0.44
1:AA:60:A:H4'	1:AA:61:G:O5'	2.18	0.44
1:AA:867:G:H2'	1:AA:868:C:H6	1.83	0.44
1:AA:960:U:O2	1:AA:960:U:H2'	2.16	0.44
4:AD:149:ALA:O	4:AD:152:SER:N	2.50	0.44
4:AD:206:PHE:HD2	4:AD:207:TYR:CE2	2.35	0.44
4:AD:3:ARG:O	4:AD:4:TYR:C	2.56	0.44
6:AF:43:LEU:HD23	6:AF:46:ARG:HH11	1.82	0.44
8:AH:24:THR:HG22	8:AH:63:LEU:HD21	1.99	0.44
10:AJ:28:ARG:HH11	10:AJ:28:ARG:HG2	1.82	0.44
12:AL:33:ARG:HG2	12:AL:60:LEU:HD12	1.99	0.44
13:AM:58:GLU:O	13:AM:60:VAL:N	2.51	0.44
13:AM:29:ARG:HD3	13:AM:64:TRP:CD2	2.53	0.44
17:AQ:6:LEU:O	17:AQ:58:GLU:HA	2.18	0.44
17:AQ:59:ILE:CD1	17:AQ:73:VAL:HA	2.48	0.44
19:AS:48:THR:HG22	19:AS:61:TYR:HD1	1.83	0.44
24:AY:118:LEU:HD23	24:AY:209:GLU:O	2.18	0.44
24:AY:72:LEU:HA	24:AY:87:LEU:HD21	2.00	0.44
24:AY:77:GLU:H	24:AY:84:ARG:HG2	1.81	0.44
29:B4:36:CYS:O	29:B4:38:LYS:N	2.49	0.44
31:B6:32:ASN:O	31:B6:33:LYS:CB	2.65	0.44
33:B8:14:VAL:HG21	33:B8:22:VAL:CG1	2.38	0.44
35:BA:1060:U:H1'	35:BA:1062:G:H5'	2.00	0.44
35:BA:1917:U:O2'	35:BA:1918:A:H5'	2.18	0.44
22:AV:77:PHA:HB2	35:BA:2063:C:H4'	2.00	0.44
35:BA:2131:G:H5''	35:BA:2132:U:O5'	2.18	0.44
35:BA:2195:C:O2'	35:BA:2196:C:H5'	2.17	0.44
35:BA:2405:G:HO2'	35:BA:2406:U:P	2.40	0.44
35:BA:247:G:H4'	35:BA:386:G:C5	2.53	0.44
35:BA:2547:U:H2'	35:BA:2548:G:C8	2.53	0.44
35:BA:2787:C:O2'	39:BE:61:ARG:HD3	2.17	0.44
35:BA:2793:G:HO2'	35:BA:2794:C:P	2.41	0.44
35:BA:42:G:H2'	35:BA:43:A:O4'	2.17	0.44
33:B8:46:ARG:NH2	35:BA:631:A:OP2	2.47	0.44
35:BA:643:A:N1	35:BA:2369:A:O2'	2.41	0.44
35:BA:729:G:H5'	35:BA:730:C:H5''	1.99	0.44
35:BA:861:A:N3	36:BB:79:C:O2'	2.45	0.44
35:BA:942:G:O2'	35:BA:943:U:H5'	2.18	0.44
35:BA:999:U:O2'	35:BA:1000:A:H5'	2.18	0.44
37:BC:30:VAL:HG11	37:BC:42:VAL:HG11	1.98	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:BF:165:ARG:HG3	40:BF:165:ARG:NH1	2.33	0.44
41:BG:6:ALA:HB3	41:BG:104:GLU:OE2	2.17	0.44
42:BH:109:PHE:C	42:BH:111:HIS:N	2.71	0.44
45:BK:18:THR:HG23	45:BK:38:VAL:CG1	2.45	0.44
46:BN:57:ALA:O	46:BN:58:ASP:CG	2.56	0.44
35:BA:587:C:C5	48:BP:33:ARG:CD	3.01	0.44
48:BP:50:ARG:CG	48:BP:51:PHE:H	2.31	0.44
48:BP:97:PRO:C	48:BP:99:LEU:N	2.70	0.44
51:BS:103:GLU:O	51:BS:104:GLY:O	2.35	0.44
51:BS:58:LEU:O	51:BS:59:LYS:O	2.36	0.44
53:BU:12:ARG:C	53:BU:13:LYS:HE2	2.37	0.44
56:BX:12:VAL:CG1	56:BX:17:ALA:HB1	2.47	0.44
56:BX:53:LYS:NZ	56:BX:55:ASN:HD21	2.16	0.44
58:BZ:100:VAL:HG11	58:BZ:137:ILE:CG1	2.47	0.44
1:CA:1374:A:C4	1:CA:1375:A:C8	3.05	0.44
1:CA:160:A:H1'	1:CA:344:A:N7	2.33	0.44
1:CA:963:G:N2	10:CJ:55:LYS:NZ	2.63	0.44
2:CB:165:VAL:CG2	2:CB:166:ASP:H	2.15	0.44
4:CD:107:ARG:HH11	4:CD:107:ARG:HG2	1.82	0.44
4:CD:120:LEU:HD23	4:CD:125:HIS:HD2	1.83	0.44
4:CD:100:ARG:HH12	4:CD:137:SER:CB	2.30	0.44
5:CE:107:ARG:O	5:CE:108:ALA:C	2.55	0.44
5:CE:150:ARG:HG3	5:CE:153:LYS:HE3	2.00	0.44
12:CL:48:PRO:C	12:CL:49:ASN:HD22	2.19	0.44
12:CL:85:ILE:HA	12:CL:85:ILE:HD12	1.83	0.44
13:CM:32:GLU:O	13:CM:36:LYS:HG2	2.18	0.44
19:CS:48:THR:CG2	19:CS:61:TYR:HD1	2.31	0.44
22:CW:19:G:OP1	22:CW:60:U:C4	2.71	0.44
24:CY:115:ASN:CB	24:CY:172:LYS:HA	2.46	0.44
24:CY:19:ILE:N	24:CY:20:PRO:HD2	2.32	0.44
26:D1:29:GLY:O	26:D1:31:GLY:N	2.49	0.44
33:D8:4:MET:HE2	35:DA:593:G:C1'	2.48	0.44
35:DA:1048:A:H4'	35:DA:1049:C:OP1	2.18	0.44
35:DA:118:A:H1'	35:DA:178:G:O4'	2.17	0.44
35:DA:1210:A:C5'	35:DA:1210:A:C8	2.95	0.44
35:DA:2064:C:H2'	35:DA:2065:C:C6	2.53	0.44
24:CY:235:SER:HB2	35:DA:2553:G:O6	2.18	0.44
35:DA:2702:U:H4'	35:DA:2703:C:OP1	2.17	0.44
35:DA:443:A:OP1	40:DF:46:ARG:HB2	2.17	0.44
35:DA:548:A:H3'	35:DA:549:G:C5'	2.47	0.44
35:DA:583:G:OP2	53:DU:10:ARG:HD2	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:614(C):A:C8	40:DF:176:LEU:HD11	2.53	0.44
35:DA:721:C:O2	35:DA:721:C:H2'	2.16	0.44
35:DA:828:U:H3'	35:DA:828:U:O2	2.18	0.44
36:DB:25:A:C2	36:DB:26:A:H1'	2.53	0.44
37:DC:173:HIS:O	37:DC:174:ALA:HB3	2.17	0.44
38:DD:107:ALA:O	38:DD:196:VAL:O	2.35	0.44
38:DD:210:GLY:O	38:DD:211:ARG:CB	2.61	0.44
39:DE:27:LEU:HD12	39:DE:180:ASN:O	2.18	0.44
39:DE:59:VAL:CG1	39:DE:63:LEU:HG	2.48	0.44
44:DJ:81:UNK:O	44:DJ:83:UNK:N	2.50	0.44
48:DP:16:ARG:CB	48:DP:16:ARG:HH11	2.31	0.44
49:DQ:130:LYS:HZ3	58:DZ:80:ARG:CZ	2.29	0.44
52:DT:128:GLU:O	52:DT:129:ARG:C	2.54	0.44
52:DT:33:LYS:NZ	52:DT:74:ARG:HH21	2.15	0.44
54:DV:28:GLU:HB2	54:DV:31:ALA:HB2	2.00	0.44
56:DX:34:ALA:HA	56:DX:38:GLU:OE1	2.18	0.44
57:DY:98:VAL:HG12	57:DY:98:VAL:O	2.16	0.44
58:DZ:153:SER:HB2	58:DZ:163:LEU:HD13	1.99	0.44
1:AA:1320:C:C4	1:AA:1321:C:C4	3.06	0.44
1:AA:572:A:N3	1:AA:917:G:H1'	2.33	0.44
1:AA:712:A:O2'	1:AA:713:G:H5'	2.18	0.44
4:AD:99:SER:HB3	4:AD:140:VAL:O	2.18	0.44
4:AD:14:ARG:HA	4:AD:39:PRO:CB	2.48	0.44
7:AG:137:LYS:HE2	7:AG:141:VAL:HG23	1.99	0.44
12:AL:82:VAL:HG12	12:AL:83:VAL:N	2.33	0.44
13:AM:20:THR:C	13:AM:22:ILE:H	2.21	0.44
13:AM:97:PRO:O	13:AM:98:VAL:HA	2.16	0.44
10:AJ:61:GLU:OE2	14:AN:45:ARG:HD2	2.17	0.44
1:AA:740:U:H4'	15:AO:39:LEU:HD23	2.00	0.44
1:AA:191:G:C1'	20:AT:105:SER:HB3	2.44	0.44
1:AA:192:U:H4'	20:AT:57:ARG:HD2	2.00	0.44
24:AY:180:LEU:O	24:AY:210:VAL:HG21	2.16	0.44
25:B0:24:LYS:HG3	25:B0:36:ILE:HD11	2.00	0.44
25:B0:63:VAL:HG21	25:B0:83:PRO:HG3	2.00	0.44
27:B2:3:LEU:HD23	27:B2:3:LEU:C	2.38	0.44
27:B2:43:GLN:O	27:B2:44:LEU:CB	2.65	0.44
30:B5:50:GLY:O	30:B5:51:TYR:HD1	2.01	0.44
35:BA:1308:A:H2'	35:BA:1309:G:O4'	2.18	0.44
35:BA:1323:U:H2'	35:BA:1324:G:H5'	1.99	0.44
35:BA:1448:G:H1'	35:BA:1528:A:H62	1.82	0.44
35:BA:1948:G:O2'	35:BA:1949:G:H5'	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:2136:C:C4	35:BA:2155:G:N2	2.85	0.44
35:BA:2768:C:O2'	35:BA:2769:C:H5'	2.18	0.44
35:BA:2887:U:H2'	35:BA:2888:C:C6	2.53	0.44
35:BA:364:C:H2'	35:BA:365:C:C5'	2.48	0.44
35:BA:480:A:OP2	57:BY:46:LYS:HE2	2.18	0.44
35:BA:510:C:O2'	35:BA:511:U:H5'	2.18	0.44
35:BA:66:C:O2'	35:BA:67:U:H5'	2.17	0.44
35:BA:819:A:OP2	35:BA:1187:G:N2	2.45	0.44
38:BD:108:PRO:HG2	38:BD:111:LEU:HD23	1.99	0.44
38:BD:27:THR:CG2	38:BD:83:GLU:HG2	2.48	0.44
38:BD:50:THR:O	38:BD:51:VAL:HG23	2.18	0.44
38:BD:6:PHE:CD1	38:BD:6:PHE:N	2.85	0.44
35:BA:2680:C:H5'	39:BE:189:PRO:HA	1.99	0.44
35:BA:443:A:OP1	40:BF:46:ARG:HB2	2.17	0.44
43:BI:60:GLU:O	43:BI:64:GLU:HB3	2.18	0.44
24:AY:30:GLU:OE1	45:BK:20:ALA:HB2	2.18	0.44
46:BN:128:HIS:HE1	46:BN:134:ARG:HH11	1.61	0.44
48:BP:38:GLN:HG3	48:BP:39:LYS:N	2.24	0.44
48:BP:49:ARG:HH21	48:BP:50:ARG:HH22	1.65	0.44
48:BP:66:GLY:O	48:BP:67:MET:CB	2.64	0.44
35:BA:1654:A:P	50:BR:3:HIS:HB3	2.58	0.44
51:BS:61:ASN:OD1	51:BS:62:LYS:N	2.37	0.44
51:BS:90:GLY:C	51:BS:92:TYR:H	2.22	0.44
52:BT:55:ASN:O	52:BT:57:PHE:N	2.51	0.44
52:BT:62:THR:CG2	52:BT:75:ILE:HG12	2.48	0.44
52:BT:77:PRO:O	52:BT:78:LEU:CB	2.66	0.44
53:BU:58:ARG:O	53:BU:62:ILE:HG13	2.18	0.44
56:BX:39:ILE:O	56:BX:43:VAL:HG23	2.17	0.44
57:BY:14:LEU:HG	57:BY:15:VAL:N	2.32	0.44
57:BY:20:TYR:CD1	57:BY:20:TYR:N	2.85	0.44
36:BB:92:C:H5''	58:BZ:79:ARG:NH2	2.33	0.44
1:CA:1020:U:H2'	1:CA:1021:G:C8	2.53	0.44
1:CA:1456:G:H2'	1:CA:1457:G:O4'	2.17	0.44
1:CA:429:U:H1'	1:CA:430:A:H5''	1.99	0.44
1:CA:542:G:H2'	1:CA:543:C:H6	1.83	0.44
1:CA:81:U:H2'	1:CA:82:U:C5	2.53	0.44
1:CA:84:U:C2'	1:CA:88:A:H5'	2.48	0.44
3:CC:196:LEU:CD2	3:CC:196:LEU:H	2.31	0.44
3:CC:152:ILE:O	3:CC:198:VAL:HA	2.17	0.44
1:CA:409:G:H5'	4:CD:25:ARG:HB2	2.00	0.44
6:CF:3:ARG:HD3	6:CF:64:GLN:NE2	2.32	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:CU:10:ARG:HA	21:CU:13:ILE:HB	1.99	0.44
22:CW:49:C:C2'	22:CW:50:U:H5'	2.47	0.44
24:CY:164:ILE:CD1	24:CY:167:ALA:HB2	2.47	0.44
24:CY:304:PRO:HD2	24:CY:309:SER:OG	2.18	0.44
27:D2:28:LYS:CD	27:D2:56:GLN:NE2	2.80	0.44
30:D5:16:ARG:HG2	30:D5:16:ARG:HH11	1.83	0.44
31:D6:15:GLU:OE1	31:D6:18:ARG:CD	2.66	0.44
31:D6:26:ASN:N	31:D6:26:ASN:OD1	2.50	0.44
32:D7:8:ASN:HD21	32:D7:11:LYS:H	1.57	0.44
33:D8:57:ARG:HE	33:D8:57:ARG:HB2	1.54	0.44
34:D9:17:ILE:HG22	34:D9:18:ARG:N	2.32	0.44
35:DA:1529:G:N7	35:DA:1541:G:N2	2.58	0.44
35:DA:15:G:O2'	35:DA:16:G:H5'	2.17	0.44
35:DA:2014:A:H2'	35:DA:2015:A:C8	2.53	0.44
35:DA:2123:G:H2'	35:DA:2124:G:H8	1.83	0.44
35:DA:2328:A:H2'	35:DA:2329:G:C8	2.52	0.44
35:DA:287:C:H2'	35:DA:288:C:H6	1.83	0.44
35:DA:364:C:H2'	35:DA:365:C:C5'	2.48	0.44
35:DA:650:C:C3'	35:DA:651:G:H5''	2.45	0.44
35:DA:847:U:H2'	35:DA:848:G:H5''	2.00	0.44
37:DC:4:HIS:HD1	37:DC:8:TYR:HE2	1.65	0.44
39:DE:97:LYS:O	39:DE:100:GLU:HG3	2.18	0.44
39:DE:34:VAL:CG1	39:DE:48:GLN:HE21	2.30	0.44
41:DG:39:ILE:CD1	41:DG:39:ILE:C	2.84	0.44
41:DG:53:LEU:N	41:DG:53:LEU:HD22	2.32	0.44
43:DI:114:LEU:C	43:DI:116:LEU:H	2.21	0.44
43:DI:26:ALA:HB1	43:DI:31:LEU:CD1	2.48	0.44
45:DK:54:PRO:HD3	45:DK:72:PRO:HA	2.00	0.44
47:DO:107:ARG:HH22	52:DT:35:LYS:HD2	1.83	0.44
35:DA:1754:C:H5	52:DT:96:ARG:NH2	2.16	0.44
54:DV:13:ARG:CG	54:DV:13:ARG:HH11	2.31	0.44
55:DW:73:ALA:HB3	55:DW:106:ILE:HG12	2.00	0.44
56:DX:73:ARG:HB3	56:DX:74:PRO:HD2	1.99	0.44
57:DY:13:VAL:HG22	57:DY:73:ARG:C	2.38	0.44
57:DY:88:LYS:HZ2	57:DY:93:GLY:CA	2.29	0.44
1:AA:1216:G:O2'	1:AA:1217:C:H5'	2.18	0.44
1:AA:1309:G:C6	1:AA:1329:A:C2	3.05	0.44
1:AA:1360:A:H2'	1:AA:1361:G:O4'	2.17	0.44
1:AA:1378:C:C5	1:AA:1379:G:C4	3.05	0.44
1:AA:1452:C:H5'	1:AA:1456:G:C4	2.52	0.44
1:AA:148:G:H1	1:AA:174:C:H42	1.66	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:240:C:H2'	1:AA:241:C:C6	2.53	0.44
1:AA:573:A:N3	1:AA:883:C:O2'	2.45	0.44
1:AA:629:G:H2'	1:AA:630:G:C8	2.53	0.44
1:AA:868:C:H2'	1:AA:869:G:O4'	2.18	0.44
3:AC:29:TYR:O	3:AC:29:TYR:HD2	2.00	0.44
3:AC:71:ALA:HA	3:AC:106:VAL:H	1.82	0.44
4:AD:16:GLY:HA2	4:AD:33:MET:HE1	1.98	0.44
6:AF:64:GLN:O	6:AF:65:VAL:HB	2.18	0.44
7:AG:53:LYS:O	7:AG:54:THR:HB	2.17	0.44
1:AA:1372:U:OP1	9:AI:71:SER:HB3	2.18	0.44
10:AJ:23:ILE:HG23	10:AJ:85:LEU:HD22	2.00	0.44
10:AJ:98:ILE:N	10:AJ:98:ILE:HD12	2.33	0.44
15:AO:78:TYR:OH	15:AO:88:ARG:HG3	2.18	0.44
16:AP:18:ARG:HD3	16:AP:35:LYS:CE	2.48	0.44
20:AT:73:HIS:O	20:AT:74:LYS:O	2.36	0.44
24:AY:191:ARG:HE	24:AY:194:PRO:HD3	1.83	0.44
24:AY:87:LEU:O	24:AY:91:LEU:HD23	2.18	0.44
24:AY:8:GLN:HG2	24:AY:98:LEU:HD13	1.99	0.44
28:B3:59:VAL:CG1	28:B3:60:GLU:N	2.79	0.44
35:BA:1023:U:H2'	35:BA:1024:G:H5'	2.00	0.44
35:BA:1494:A:O2'	35:BA:1496:A:H2	2.00	0.44
35:BA:1666:G:O2'	35:BA:1667:G:H5'	2.18	0.44
35:BA:251:A:H5''	48:BP:51:PHE:CZ	2.53	0.44
35:BA:341:G:O2'	35:BA:342:G:H5'	2.18	0.44
35:BA:548:A:H3'	35:BA:549:G:C5'	2.47	0.44
33:B8:4:MET:HE2	35:BA:593:G:C1'	2.48	0.44
40:BF:136:THR:O	40:BF:137:LYS:C	2.57	0.44
40:BF:170:LEU:HA	40:BF:171:PRO:HD2	1.81	0.44
42:BH:82:GLY:O	42:BH:83:TYR:O	2.36	0.44
43:BI:113:ARG:NH1	43:BI:132:PRO:HG3	2.33	0.44
47:BO:107:ARG:CZ	52:BT:35:LYS:HD2	2.48	0.44
48:BP:16:ARG:NH2	48:BP:18:ARG:HG2	2.32	0.44
48:BP:23:PRO:HB2	48:BP:33:ARG:CG	2.46	0.44
57:BY:28:LYS:HE3	57:BY:28:LYS:HB2	1.75	0.44
1:CA:1079:G:C6	1:CA:1080:A:N6	2.86	0.44
1:CA:1274:G:H2'	1:CA:1275:A:C8	2.53	0.44
1:CA:1280:A:H5'	10:CJ:40:LEU:HD22	1.99	0.44
1:CA:1439:C:OP1	20:CT:38:LYS:HD2	2.17	0.44
1:CA:404:U:H2'	1:CA:405:U:C6	2.53	0.44
1:CA:985:C:H2'	1:CA:986:A:C8	2.53	0.44
3:CC:156:ARG:HD3	3:CC:194:GLY:CA	2.48	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CC:29:TYR:O	3:CC:29:TYR:HD2	2.01	0.44
3:CC:99:VAL:HG23	3:CC:99:VAL:O	2.18	0.44
4:CD:28:SER:HB2	4:CD:30:LYS:CE	2.48	0.44
4:CD:28:SER:HB3	4:CD:30:LYS:HE2	1.97	0.44
5:CE:7:GLU:HB3	5:CE:112:LEU:HD13	1.99	0.44
6:CF:37:VAL:HG12	6:CF:38:GLU:N	2.31	0.44
8:CH:16:ALA:O	8:CH:19:VAL:HG22	2.18	0.44
1:CA:1179:A:O3'	9:CI:103:THR:HG23	2.16	0.44
10:CJ:26:ALA:HA	10:CJ:29:ARG:NH1	2.22	0.44
11:CK:57:THR:HG23	11:CK:60:ALA:CB	2.48	0.44
17:CQ:45:HIS:HB2	17:CQ:65:ILE:CD1	2.45	0.44
17:CQ:5:VAL:HA	17:CQ:59:ILE:O	2.18	0.44
19:CS:62:ILE:HA	19:CS:66:MET:HE1	2.00	0.44
22:CW:39:U:C3'	22:CW:40:C:H5''	2.47	0.44
24:CY:224:PRO:CA	24:CY:227:LEU:HB2	2.47	0.44
27:D2:17:SER:O	27:D2:18:PRO:C	2.55	0.44
28:D3:1:MET:O	28:D3:2:PRO:C	2.55	0.44
29:D4:33:VAL:HG11	41:DG:109:VAL:HG13	2.00	0.44
33:D8:61:LEU:H	33:D8:61:LEU:CD2	2.29	0.44
35:DA:158:U:H2'	35:DA:158:U:O2	2.18	0.44
35:DA:1721:G:H2'	35:DA:1741:A:H61	1.83	0.44
35:DA:2131:G:H4'	35:DA:2132:U:H5''	1.99	0.44
35:DA:2106:G:H1	35:DA:2183:C:H42	1.66	0.44
35:DA:2661:G:N3	35:DA:2661:G:OP2	2.51	0.44
35:DA:2726:U:H6	47:DO:67:LYS:HZ3	1.66	0.44
35:DA:42:G:H2'	35:DA:43:A:O4'	2.18	0.44
35:DA:491:G:H2'	35:DA:492:A:C8	2.52	0.44
35:DA:66:C:H2'	35:DA:67:U:C6	2.49	0.44
37:DC:45:HIS:CE1	37:DC:173:HIS:HD1	2.36	0.44
37:DC:42:VAL:HA	37:DC:217:THR:HA	2.00	0.44
37:DC:7:ARG:NH2	37:DC:219:MET:HB3	2.33	0.44
39:DE:35:GLN:HA	39:DE:67:PHE:HE2	1.83	0.44
40:DF:117:ARG:HA	40:DF:117:ARG:HD3	1.78	0.44
41:DG:49:ASP:C	41:DG:51:ARG:H	2.21	0.44
45:DK:108:ALA:O	45:DK:120:LEU:HG	2.18	0.44
48:DP:63:PRO:C	48:DP:65:ARG:N	2.72	0.44
49:DQ:140:ALA:O	49:DQ:141:GLN:CB	2.64	0.44
51:DS:34:HIS:NE2	51:DS:54:LEU:HB2	2.32	0.44
52:DT:25:GLY:O	52:DT:48:ILE:HG23	2.18	0.44
58:DZ:180:VAL:HG13	58:DZ:180:VAL:O	2.18	0.44
1:AA:125:U:H2'	1:AA:126:G:H8	1.82	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:243:A:H4'	1:AA:244:U:H5''	2.00	0.43
1:AA:311:C:HO2'	1:AA:312:C:H5'	1.82	0.43
1:AA:579:G:H2'	1:AA:580:U:C6	2.53	0.43
1:AA:973:G:C3'	1:AA:974:A:H5''	2.41	0.43
1:AA:975:A:C8	1:AA:975:A:H5'	2.51	0.43
2:AB:32:ILE:HA	2:AB:42:ILE:HA	1.99	0.43
2:AB:96:ARG:O	2:AB:98:LEU:N	2.51	0.43
3:AC:156:ARG:HD3	3:AC:194:GLY:N	2.33	0.43
3:AC:138:VAL:HG12	3:AC:170:GLN:HE21	1.82	0.43
3:AC:206:GLU:O	3:AC:207:VAL:C	2.56	0.43
3:AC:58:GLU:O	3:AC:59:ARG:CG	2.66	0.43
3:AC:69:HIS:CD2	3:AC:69:HIS:N	2.85	0.43
4:AD:29:PRO:C	4:AD:30:LYS:HG2	2.38	0.43
5:AE:139:LEU:C	5:AE:141:GLN:H	2.19	0.43
1:AA:19:C:H5''	5:AE:86:ALA:HB3	1.99	0.43
8:AH:112:LEU:N	8:AH:112:LEU:HD23	2.33	0.43
8:AH:122:ARG:NH1	8:AH:122:ARG:CB	2.80	0.43
9:AI:17:VAL:HG22	9:AI:81:ILE:CD1	2.48	0.43
11:AK:100:ALA:O	11:AK:101:SER:HB3	2.18	0.43
13:AM:37:THR:O	13:AM:39:ILE:HG13	2.18	0.43
1:AA:1317:C:P	14:AN:17:LYS:HE2	2.58	0.43
14:AN:6:LEU:HD22	14:AN:23:ARG:HH22	1.81	0.43
21:AU:10:ARG:HA	21:AU:13:ILE:HB	2.00	0.43
24:AY:345:ILE:HG22	24:AY:349:LEU:HG	1.99	0.43
35:BA:1945:G:O2'	35:BA:1946:U:H5'	2.18	0.43
26:B1:35:THR:OG1	35:BA:2079:U:O3'	2.36	0.43
35:BA:2553:G:H2'	35:BA:2554:U:C4'	2.47	0.43
35:BA:2702:U:H4'	35:BA:2703:C:OP1	2.17	0.43
35:BA:2853:C:O2'	35:BA:2854:G:H5'	2.18	0.43
35:BA:2808:U:H5'	35:BA:2891:G:O6	2.17	0.43
35:BA:654(H):G:H21	35:BA:654(N):G:N2	2.16	0.43
35:BA:654(Q):C:O2'	35:BA:654(R):C:H5'	2.18	0.43
35:BA:847:U:H2'	35:BA:848:G:H5''	2.00	0.43
36:BB:37:C:C2'	36:BB:38:C:H5'	2.48	0.43
39:BE:110:GLY:HA3	39:BE:162:ALA:HB2	1.99	0.43
40:BF:68:LYS:HG2	40:BF:69:HIS:CE1	2.53	0.43
41:BG:131:TYR:O	41:BG:132:ASN:CG	2.56	0.43
41:BG:159:VAL:HG22	41:BG:159:VAL:O	2.18	0.43
41:BG:17:PRO:HA	41:BG:20:ILE:CG1	2.48	0.43
41:BG:4:ASP:HA	41:BG:8:LYS:NZ	2.33	0.43
43:BI:26:ALA:O	43:BI:31:LEU:HD13	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:661:C:O2'	48:BP:16:ARG:O	2.29	0.43
53:BU:78:THR:O	53:BU:81:HIS:N	2.50	0.43
57:BY:50:ARG:O	57:BY:50:ARG:CD	2.67	0.43
49:BQ:108:GLY:CA	58:BZ:116:VAL:HG21	2.31	0.43
58:BZ:144:LEU:HD12	58:BZ:150:LEU:H	1.83	0.43
58:BZ:40:ASP:O	58:BZ:44:PHE:HB2	2.17	0.43
1:CA:1158:C:H42	1:CA:1181:G:H1	1.65	0.43
1:CA:123:C:OP1	1:CA:311:C:O2'	2.34	0.43
1:CA:125:U:H2'	1:CA:126:G:H8	1.83	0.43
1:CA:19:C:H2'	1:CA:20:U:H6	1.83	0.43
1:CA:291:C:O2'	1:CA:292:G:H5'	2.18	0.43
1:CA:533:A:O2'	1:CA:534:U:H5''	2.18	0.43
1:CA:594:G:C2'	1:CA:595:G:H5'	2.48	0.43
2:CB:32:ILE:HA	2:CB:42:ILE:HA	2.00	0.43
2:CB:46:LYS:HE3	2:CB:46:LYS:CA	2.47	0.43
3:CC:14:ILE:HG23	3:CC:15:THR:N	2.33	0.43
3:CC:156:ARG:HD3	3:CC:194:GLY:H	1.83	0.43
7:CG:113:GLU:HB2	7:CG:119:ARG:CG	2.48	0.43
8:CH:17:THR:HB	8:CH:78:GLN:OE1	2.18	0.43
12:CL:60:LEU:C	12:CL:62:SER:N	2.70	0.43
24:CY:100:GLU:O	24:CY:104:GLN:HB2	2.18	0.43
24:CY:139:MET:HE2	24:CY:341:LEU:HD11	2.00	0.43
24:CY:250:ARG:HG2	24:CY:252:VAL:HG23	2.00	0.43
28:D3:46:ASN:O	28:D3:50:VAL:HG22	2.18	0.43
35:DA:1407:C:H5'	35:DA:1408:C:OP2	2.18	0.43
35:DA:2131:G:H5''	35:DA:2132:U:O5'	2.18	0.43
35:DA:229:A:C5'	35:DA:230:U:H5'	2.47	0.43
35:DA:245:G:H2'	35:DA:246:C:H6	1.83	0.43
35:DA:272(H):C:N4	35:DA:363(A):A:H61	2.16	0.43
35:DA:894:C:O2'	35:DA:895:U:H5'	2.19	0.43
35:DA:927:G:H5'	35:DA:928:G:OP2	2.18	0.43
40:DF:119:ARG:HH11	40:DF:119:ARG:HG2	1.82	0.43
41:DG:111:LEU:HD13	41:DG:179:PRO:HG3	2.00	0.43
41:DG:117:PHE:HA	41:DG:181:ARG:HH22	1.82	0.43
41:DG:93:THR:HG22	41:DG:95:ARG:CD	2.47	0.43
42:DH:136:ILE:H	42:DH:136:ILE:CD1	2.27	0.43
42:DH:37:VAL:HG12	42:DH:38:SER:N	2.33	0.43
44:DJ:93:UNK:HA	44:DJ:96:UNK:CB	2.48	0.43
45:DK:38:VAL:CG2	45:DK:39:LYS:H	2.24	0.43
45:DK:82:ALA:HB3	45:DK:84:LEU:CD2	2.48	0.43
48:DP:32:THR:O	48:DP:33:ARG:HB2	2.17	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:1203:G:H4'	48:DP:7:ARG:HG3	2.00	0.43
49:DQ:21:THR:CG2	49:DQ:101:ARG:HD3	2.48	0.43
49:DQ:74:TYR:O	49:DQ:90:VAL:HA	2.17	0.43
51:DS:35:ILE:H	51:DS:53:SER:CB	2.31	0.43
51:DS:88:ASP:CG	51:DS:89:ARG:H	2.18	0.43
52:DT:38:ASN:CG	52:DT:39:ARG:N	2.70	0.43
52:DT:78:LEU:O	52:DT:79:HIS:ND1	2.51	0.43
52:DT:89:VAL:CB	52:DT:91:ARG:HG3	2.48	0.43
56:DX:12:VAL:HG12	56:DX:27:THR:OG1	2.18	0.43
56:DX:57:LEU:HD22	56:DX:57:LEU:C	2.38	0.43
56:DX:65:ARG:CG	56:DX:66:LEU:H	2.31	0.43
57:DY:14:LEU:CG	57:DY:15:VAL:N	2.81	0.43
58:DZ:18:LEU:HD22	58:DZ:23:LYS:CD	2.48	0.43
1:AA:1287:A:H2	1:AA:1353:G:N3	2.16	0.43
1:AA:1519:A:C3'	1:AA:1520:G:H5'	2.48	0.43
1:AA:15:G:C4'	5:AE:24:ARG:HH22	2.31	0.43
1:AA:112:G:H4'	1:AA:389:A:H5''	2.00	0.43
1:AA:651:C:H2'	1:AA:652:U:C6	2.54	0.43
2:AB:66:GLY:HA2	2:AB:160:ASP:OD2	2.19	0.43
2:AB:51:LEU:O	2:AB:55:PHE:HD2	2.01	0.43
4:AD:98:GLU:OE2	4:AD:103:ASN:ND2	2.51	0.43
4:AD:59:ARG:CA	4:AD:59:ARG:HE	2.18	0.43
4:AD:61:LYS:HD3	4:AD:206:PHE:CE2	2.53	0.43
7:AG:86:GLN:O	7:AG:86:GLN:HG3	2.19	0.43
10:AJ:50:ILE:CD1	10:AJ:50:ILE:H	2.07	0.43
1:AA:1152:A:OP1	10:AJ:68:HIS:CD2	2.72	0.43
18:AR:36:ASN:O	18:AR:39:VAL:HB	2.18	0.43
19:AS:29:ARG:CD	19:AS:30:LEU:N	2.72	0.43
20:AT:89:ARG:HB2	20:AT:104:LEU:CD1	2.49	0.43
20:AT:96:GLY:O	20:AT:97:ALA:C	2.56	0.43
22:AW:9:A:OP1	22:AW:9:A:H3'	2.18	0.43
24:AY:133:ALA:O	24:AY:137:LEU:HB2	2.18	0.43
24:AY:223:LYS:C	24:AY:225:GLU:N	2.69	0.43
26:B1:66:HIS:C	26:B1:68:PRO:HD2	2.38	0.43
31:B6:12:GLU:CG	31:B6:23:THR:HG22	2.46	0.43
33:B8:33:ASN:HD22	33:B8:36:LYS:CD	2.32	0.43
35:BA:1153:C:H2'	35:BA:1154:G:O4'	2.18	0.43
35:BA:1221:C:H2'	35:BA:1221(A):C:C6	2.53	0.43
35:BA:1720:U:N3	35:BA:1742:G:O6	2.42	0.43
35:BA:2240:C:O2'	35:BA:2241:A:H5'	2.17	0.43
35:BA:236:C:H2'	35:BA:237:C:H6	1.82	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:2464:C:O2'	35:BA:2465:C:H6	2.00	0.43
35:BA:533:G:H5'	53:BU:24:TYR:CE2	2.53	0.43
35:BA:71:A:C8	35:BA:71:A:H5'	2.53	0.43
35:BA:784:A:C5	38:BD:229:VAL:HG21	2.53	0.43
35:BA:839:U:H2'	35:BA:840:C:C6	2.52	0.43
36:BB:29:A:H2'	36:BB:30:C:C6	2.53	0.43
36:BB:90:A:N7	36:BB:91:C:H1'	2.33	0.43
38:BD:48:ARG:NH1	38:BD:48:ARG:HG3	2.32	0.43
40:BF:4:VAL:HG22	40:BF:19:GLU:CD	2.38	0.43
41:BG:112:PRO:C	41:BG:114:ILE:N	2.71	0.43
35:BA:2305:A:H1'	41:BG:135:LEU:O	2.18	0.43
41:BG:56:ALA:CA	41:BG:153:ARG:HH22	2.18	0.43
41:BG:9:ARG:HH11	41:BG:9:ARG:CB	2.29	0.43
42:BH:30:LYS:HB2	42:BH:79:VAL:HA	2.00	0.43
43:BI:130:TYR:O	43:BI:131:LYS:HG3	2.18	0.43
43:BI:133:HIS:HB2	43:BI:134:PRO:HD3	1.93	0.43
43:BI:77:LEU:HD13	43:BI:140:LEU:HG	2.01	0.43
45:BK:105:LEU:O	45:BK:108:ALA:HB3	2.18	0.43
45:BK:10:LEU:HD13	45:BK:12:LEU:HG	2.00	0.43
45:BK:72:PRO:HB2	45:BK:77:LEU:HD21	1.99	0.43
46:BN:1:MET:CG	46:BN:2:LYS:H	2.28	0.43
35:BA:2394:C:P	48:BP:63:PRO:HD2	2.58	0.43
49:BQ:130:LYS:HD2	58:BZ:80:ARG:NH1	2.32	0.43
49:BQ:42:ILE:CD1	49:BQ:42:ILE:N	2.81	0.43
49:BQ:76:LYS:CB	49:BQ:91:GLU:HG3	2.46	0.43
50:BR:63:ARG:HA	50:BR:80:PHE:CZ	2.53	0.43
52:BT:90:GLN:O	52:BT:91:ARG:O	2.36	0.43
54:BV:20:LEU:N	54:BV:20:LEU:HD12	2.32	0.43
35:BA:89:G:OP1	57:BY:33:LYS:HE2	2.18	0.43
58:BZ:168:GLU:O	58:BZ:169:GLU:C	2.56	0.43
58:BZ:4:ARG:HD3	58:BZ:58:VAL:HB	2.00	0.43
1:CA:1360:A:H2'	1:CA:1361:G:O4'	2.17	0.43
1:CA:1476:G:H2'	1:CA:1477:C:C6	2.52	0.43
1:CA:1493:A:H4'	24:CY:126:GLY:HA2	2.00	0.43
1:CA:1514:C:H2'	1:CA:1515:C:H6	1.83	0.43
1:CA:630:G:H2'	1:CA:631:G:H5"	2.00	0.43
5:CE:100:VAL:CG1	5:CE:118:ILE:HG22	2.42	0.43
1:CA:19:C:H5"	5:CE:86:ALA:HB3	1.99	0.43
7:CG:15:ASP:HB3	7:CG:20:ASP:H	1.83	0.43
9:CI:33:PHE:C	9:CI:35:GLU:H	2.20	0.43
10:CJ:42:THR:HG22	10:CJ:43:ARG:N	2.33	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:CT:33:ILE:HG22	20:CT:34:LYS:N	2.33	0.43
22:CV:3:C:C2	22:CV:71:G:N2	2.86	0.43
13:CM:125:ARG:CZ	24:CY:165:ASP:OD2	2.66	0.43
27:D2:67:LYS:O	27:D2:71:ASN:HB3	2.17	0.43
31:D6:11:LEU:C	31:D6:11:LEU:HD22	2.38	0.43
31:D6:41:PRO:HG2	31:D6:47:THR:HG21	1.95	0.43
35:DA:1054:A:C3'	35:DA:1055:G:H5''	2.49	0.43
35:DA:1409:C:H2'	35:DA:1410:G:C8	2.53	0.43
35:DA:158:U:O2	35:DA:158:U:H3'	2.17	0.43
35:DA:2152:G:H2'	35:DA:2153:G:O4'	2.18	0.43
35:DA:2287:A:N1	35:DA:2346:A:C2	2.87	0.43
33:D8:33:ASN:O	35:DA:2420:C:OP1	2.35	0.43
35:DA:2603:G:O2'	35:DA:2604:U:H5'	2.18	0.43
35:DA:2830:G:N3	35:DA:2883:A:H2	2.15	0.43
35:DA:506:G:O3'	35:DA:507:A:H8	2.01	0.43
35:DA:625:G:O6	48:DP:107:LYS:HD3	2.18	0.43
35:DA:751:A:H8	35:DA:751:A:O5'	2.01	0.43
37:DC:194:ILE:HD12	37:DC:227:PRO:HB2	1.99	0.43
35:DA:2632:A:C2	39:DE:61:ARG:HD2	2.53	0.43
40:DF:133:ASN:HD22	40:DF:133:ASN:H	1.65	0.43
42:DH:46:GLU:O	42:DH:49:VAL:O	2.37	0.43
45:DK:122:ALA:CB	45:DK:125:ARG:HH21	2.31	0.43
46:DN:51:PHE:CE2	46:DN:119:ARG:HD2	2.53	0.43
46:DN:42:TRP:CE3	46:DN:48:MET:HE1	2.52	0.43
48:DP:33:ARG:O	48:DP:34:GLY:C	2.56	0.43
35:DA:389:G:C6	48:DP:70:GLN:HG3	2.53	0.43
52:DT:41:ARG:O	52:DT:42:ILE:C	2.56	0.43
53:DU:90:VAL:HG22	54:DV:39:LEU:CB	2.49	0.43
57:DY:2:ARG:N	57:DY:5:MET:CG	2.76	0.43
1:AA:1203:C:O2'	1:AA:1204:A:H5'	2.17	0.43
1:AA:1352:C:H2'	1:AA:1353:G:H8	1.78	0.43
1:AA:248:C:O2'	1:AA:249:U:H5'	2.18	0.43
2:AB:93:VAL:HG21	2:AB:97:TRP:HD1	1.81	0.43
4:AD:18:LYS:HG3	4:AD:31:CYS:HB3	2.00	0.43
6:AF:22:GLU:C	6:AF:24:GLU:N	2.70	0.43
7:AG:23:VAL:HG13	7:AG:43:PHE:CE2	2.53	0.43
8:AH:25:ASP:HA	8:AH:59:LEU:O	2.19	0.43
19:AS:16:LEU:O	19:AS:17:GLU:C	2.57	0.43
13:AM:94:ARG:NH1	19:AS:81:ARG:HG3	2.33	0.43
22:AW:68:C:O2'	22:AW:69:G:H5'	2.18	0.43
24:AY:214:VAL:CG1	24:AY:215:ASP:H	2.16	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:AY:84:ARG:N	24:AY:84:ARG:HD3	2.33	0.43
27:B2:10:LEU:HB3	27:B2:14:ARG:NH1	2.34	0.43
31:B6:37:ARG:O	31:B6:48:VAL:O	2.36	0.43
32:B7:24:THR:HG23	32:B7:27:GLY:CA	2.47	0.43
35:BA:1054:A:C3'	35:BA:1055:G:H5''	2.48	0.43
35:BA:2468:G:N2	35:BA:2481:G:O2'	2.51	0.43
35:BA:2580:U:H4'	39:BE:130:GLY:CA	2.48	0.43
35:BA:271(L):U:H4'	35:BA:271(M):G:C2	2.54	0.43
35:BA:464:U:H2'	35:BA:465:G:O4'	2.18	0.43
35:BA:506:G:O3'	35:BA:507:A:H8	2.00	0.43
35:BA:579:G:H2'	35:BA:580:C:C6	2.52	0.43
35:BA:807:U:O2'	35:BA:808:G:H5'	2.18	0.43
36:BB:103:G:N2	58:BZ:73:GLN:HE22	2.16	0.43
37:BC:173:HIS:O	37:BC:174:ALA:HB3	2.19	0.43
37:BC:204:GLY:O	37:BC:206:LYS:N	2.51	0.43
38:BD:79:VAL:CG2	38:BD:111:LEU:HD11	2.29	0.43
39:BE:54:GLN:O	39:BE:75:VAL:HG23	2.18	0.43
41:BG:68:PRO:HA	41:BG:92:VAL:HB	1.99	0.43
45:BK:107:ILE:HD12	45:BK:110:GLN:HB2	2.00	0.43
47:BO:10:VAL:CG2	47:BO:16:ALA:O	2.67	0.43
47:BO:17:ARG:HH12	47:BO:47:ILE:HD12	1.83	0.43
48:BP:136:GLU:O	48:BP:139:LYS:HB3	2.18	0.43
48:BP:96:THR:O	48:BP:99:LEU:HB3	2.18	0.43
51:BS:107:GLU:O	51:BS:108:GLY:C	2.56	0.43
54:BV:38:LEU:O	54:BV:51:VAL:HG13	2.18	0.43
55:BW:29:LEU:HD21	55:BW:33:ARG:NH2	2.34	0.43
57:BY:45:VAL:HG12	57:BY:60:PHE:CD2	2.53	0.43
58:BZ:89:PHE:CE1	58:BZ:96:VAL:HG21	2.42	0.43
1:CA:1168:A:H2'	1:CA:1169:A:C8	2.53	0.43
1:CA:1179:A:O2'	1:CA:1180:A:H5'	2.18	0.43
1:CA:1275:A:H2'	1:CA:1276:G:H8	1.83	0.43
1:CA:1293:G:O2'	1:CA:1294:G:C8	2.69	0.43
1:CA:1298:C:C4	7:CG:114:ARG:HD2	2.53	0.43
1:CA:1431:C:H2'	1:CA:1432:G:O4'	2.17	0.43
1:CA:376:G:HO2'	1:CA:377:G:H5'	1.83	0.43
1:CA:36:C:O2'	1:CA:37:U:H5'	2.17	0.43
1:CA:656:C:H2'	1:CA:657:G:C8	2.53	0.43
1:CA:796:C:O2'	1:CA:797:C:H5'	2.19	0.43
2:CB:178:ARG:HA	2:CB:178:ARG:HD3	1.91	0.43
3:CC:23:TYR:CG	3:CC:24:ALA:N	2.86	0.43
8:CH:29:SER:HB3	8:CH:32:LYS:HB2	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:CJ:8:LEU:C	10:CJ:16:LEU:HD21	2.39	0.43
10:CJ:38:ILE:CG1	10:CJ:71:LEU:HB3	2.47	0.43
11:CK:34:ASP:HB2	11:CK:35:PRO:CD	2.48	0.43
12:CL:28:LYS:HG2	12:CL:28:LYS:O	2.17	0.43
14:CN:53:LEU:HD23	14:CN:53:LEU:HA	1.88	0.43
22:CV:39:U:O2'	22:CV:40:C:H5'	2.18	0.43
22:CW:70:G:O2'	22:CW:71:G:O5'	2.36	0.43
35:DA:1076:C:H2'	35:DA:1077:A:H8	1.81	0.43
35:DA:1494:A:O2'	35:DA:1496:A:C2	2.68	0.43
35:DA:1608:A:H1'	35:DA:1610:A:OP2	2.17	0.43
35:DA:1899:G:H21	35:DA:1902:C:N4	1.93	0.43
35:DA:2321:G:N3	35:DA:2321:G:H2'	2.33	0.43
35:DA:2532:G:O5'	35:DA:2532:G:H8	2.01	0.43
35:DA:2688:U:H1'	35:DA:2721:A:N6	2.33	0.43
35:DA:271(V):G:H2'	35:DA:271(W):G:O4'	2.17	0.43
35:DA:435:C:H2'	35:DA:436:C:H5'	1.99	0.43
35:DA:626:U:H5''	35:DA:627:A:C5'	2.49	0.43
35:DA:654(U):A:N7	35:DA:654(V):A:N6	2.66	0.43
35:DA:659:C:H2'	35:DA:660:G:H8	1.83	0.43
35:DA:712:G:O2'	35:DA:713:G:H5'	2.18	0.43
36:DB:111:G:O2'	36:DB:112:U:H5'	2.17	0.43
38:DD:35:LYS:O	38:DD:35:LYS:CG	2.65	0.43
41:DG:166:ASP:N	41:DG:166:ASP:OD1	2.51	0.43
42:DH:138:LYS:C	42:DH:140:LYS:N	2.66	0.43
43:DI:129:THR:CG2	43:DI:130:TYR:N	2.81	0.43
49:DQ:58:PHE:CD1	49:DQ:58:PHE:O	2.72	0.43
52:DT:137:LYS:HG2	52:DT:137:LYS:O	2.18	0.43
46:DN:40:PRO:HB3	53:DU:68:ALA:HB2	2.01	0.43
54:DV:1:MET:CE	54:DV:1:MET:HA	2.48	0.43
1:AA:1026:G:H2'	1:AA:1027:C:H5'	2.00	0.43
1:AA:690:G:C6	1:AA:691:G:C6	3.06	0.43
1:AA:16:A:N1	1:AA:919:A:H2	2.16	0.43
2:AB:19:HIS:CG	2:AB:20:GLU:N	2.86	0.43
2:AB:74:LYS:HD2	2:AB:169:LYS:HG3	2.01	0.43
2:AB:77:ALA:O	2:AB:78:GLN:C	2.56	0.43
2:AB:80:ILE:O	2:AB:80:ILE:HG22	2.18	0.43
3:AC:152:ILE:O	3:AC:198:VAL:HA	2.17	0.43
3:AC:58:GLU:HB2	3:AC:65:ALA:CB	2.48	0.43
6:AF:33:TYR:OH	6:AF:78:GLU:HB2	2.18	0.43
9:AI:89:ASN:O	9:AI:92:TYR:HB2	2.18	0.43
13:AM:115:LYS:C	13:AM:117:VAL:N	2.69	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1317:C:OP2	14:AN:17:LYS:HE2	2.18	0.43
15:AO:54:ARG:HG2	15:AO:58:MET:HE2	2.01	0.43
17:AQ:59:ILE:HG22	17:AQ:71:PHE:HD1	1.83	0.43
24:AY:124:ALA:HB3	24:AY:205:PHE:CD1	2.54	0.43
24:AY:256:THR:HG21	24:AY:258:ILE:CD1	2.48	0.43
24:AY:315:VAL:CG1	24:AY:320:TYR:O	2.67	0.43
25:B0:14:ARG:O	25:B0:15:ASP:HB2	2.18	0.43
25:B0:42:GLY:HA2	35:BA:2330:G:H21	1.82	0.43
26:B1:89:GLU:O	26:B1:92:LYS:HB3	2.19	0.43
35:BA:1503:U:C4	35:BA:1504:C:N4	2.86	0.43
35:BA:1602:U:H3'	35:BA:1603:A:H5''	2.00	0.43
35:BA:1641:A:H2'	35:BA:1642:G:O4'	2.18	0.43
35:BA:1999:C:O2'	35:BA:2000:G:H5'	2.18	0.43
35:BA:2078:C:H2'	35:BA:2079:U:C6	2.53	0.43
35:BA:2126:A:H61	35:BA:2163:C:C4'	2.31	0.43
35:BA:2410:G:C2	35:BA:2411:A:H1'	2.53	0.43
35:BA:2590:A:O2'	35:BA:2591:C:H5'	2.19	0.43
35:BA:626:U:C5'	35:BA:627:A:H5'	2.48	0.43
35:BA:654(S):G:H2'	35:BA:654(T):C:N1	2.33	0.43
35:BA:861:A:C2	35:BA:917:A:C4	3.07	0.43
36:BB:87:G:C2'	36:BB:88:C:H5''	2.48	0.43
37:BC:52:PRO:O	37:BC:54:ARG:N	2.51	0.43
35:BA:1819:A:H5''	38:BD:158:ALA:HB3	2.00	0.43
38:BD:18:VAL:CG1	38:BD:19:ALA:N	2.80	0.43
38:BD:267:SER:C	38:BD:269:PHE:N	2.71	0.43
38:BD:31:LYS:HB3	38:BD:34:VAL:HG22	2.00	0.43
39:BE:55:ASN:O	39:BE:57:LYS:N	2.49	0.43
40:BF:160:ASN:HD22	40:BF:160:ASN:C	2.21	0.43
41:BG:141:PHE:HA	41:BG:142:PRO:HD2	1.79	0.43
41:BG:25:TYR:CZ	41:BG:31:VAL:HA	2.53	0.43
42:BH:138:LYS:O	42:BH:139:GLN:C	2.57	0.43
43:BI:93:THR:H	43:BI:96:ASP:HB2	1.83	0.43
46:BN:55:VAL:CG2	46:BN:56:ASN:N	2.81	0.43
50:BR:34:ILE:HA	50:BR:34:ILE:HD13	1.75	0.43
51:BS:40:ILE:HG22	51:BS:41:ASP:N	2.33	0.43
51:BS:35:ILE:H	51:BS:53:SER:CB	2.31	0.43
52:BT:137:LYS:HG2	52:BT:137:LYS:O	2.19	0.43
35:BA:2019:A:H5''	53:BU:27:LEU:CD1	2.48	0.43
54:BV:13:ARG:HH11	54:BV:13:ARG:CG	2.30	0.43
56:BX:12:VAL:HG12	56:BX:27:THR:OG1	2.18	0.43
57:BY:45:VAL:HG13	57:BY:60:PHE:O	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:1018:C:H2'	1:CA:1019:C:O4'	2.19	0.43
1:CA:1452:C:O4'	1:CA:1456:G:C2	2.72	0.43
1:CA:1463:C:C2'	1:CA:1464:G:H5'	2.49	0.43
1:CA:592:G:O2'	1:CA:593:G:H5'	2.18	0.43
1:CA:836:G:C6	1:CA:851:G:C6	3.06	0.43
1:CA:880:C:H2'	1:CA:881:G:H8	1.84	0.43
1:CA:976:G:OP1	14:CN:32:SER:N	2.50	0.43
2:CB:84:GLU:HB3	2:CB:219:VAL:HG21	1.99	0.43
4:CD:176:LEU:CG	4:CD:177:ASP:N	2.72	0.43
6:CF:42:GLU:C	6:CF:44:GLY:H	2.22	0.43
7:CG:86:GLN:O	7:CG:86:GLN:HG3	2.17	0.43
9:CI:4:TYR:HB2	9:CI:19:LEU:CB	2.40	0.43
10:CJ:38:ILE:HD11	10:CJ:71:LEU:CD2	2.43	0.43
13:CM:88:ARG:HH11	13:CM:88:ARG:HG2	1.83	0.43
15:CO:81:LEU:CD1	15:CO:85:LEU:HD12	2.48	0.43
19:CS:78:ARG:HD2	19:CS:81:ARG:NH1	2.34	0.43
21:CU:5:ASP:O	21:CU:11:GLY:HA3	2.18	0.43
24:CY:304:PRO:C	24:CY:306:GLU:H	2.21	0.43
32:D7:8:ASN:ND2	32:D7:8:ASN:C	2.72	0.43
35:DA:1230:C:H2'	35:DA:1231:G:H8	1.83	0.43
35:DA:1518:U:H2'	35:DA:1519:G:O4'	2.18	0.43
35:DA:2027:G:O2'	35:DA:2028:U:H5'	2.18	0.43
35:DA:2137:C:H2'	35:DA:2138:C:C6	2.52	0.43
35:DA:2317:C:H2'	35:DA:2318:G:C5'	2.47	0.43
35:DA:2544:G:H8	35:DA:2544:G:O5'	2.01	0.43
35:DA:484:C:H2'	35:DA:485:C:C6	2.53	0.43
37:DC:226:ASN:C	37:DC:228:HIS:H	2.21	0.43
38:DD:8:PRO:C	38:DD:10:THR:H	2.21	0.43
38:DD:35:LYS:C	38:DD:37:LEU:N	2.71	0.43
40:DF:103:LYS:CA	40:DF:106:ARG:HG3	2.29	0.43
49:DQ:76:LYS:CB	49:DQ:91:GLU:HG3	2.46	0.43
50:DR:2:ARG:HB2	50:DR:5:LYS:CE	2.48	0.43
39:DE:111:ARG:CA	50:DR:2:ARG:HG2	2.35	0.43
52:DT:35:LYS:C	52:DT:37:GLY:H	2.22	0.43
35:DA:2019:A:H5''	53:DU:27:LEU:CD1	2.48	0.43
53:DU:89:GLU:HG2	53:DU:89:GLU:O	2.19	0.43
1:AA:1077:G:N2	1:AA:1080:A:OP2	2.48	0.43
1:AA:1109:C:O2'	1:AA:1110:A:H5'	2.18	0.43
1:AA:1298:C:C4	7:AG:114:ARG:HD2	2.54	0.43
1:AA:134:A:H61	16:AP:25:ARG:HH12	1.65	0.43
1:AA:1452:C:H4'	1:AA:1456:G:C5'	2.46	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:584:G:H2'	1:AA:585:G:C8	2.54	0.43
1:AA:932:C:H5''	7:AG:3:ARG:HD2	1.99	0.43
1:AA:937:A:H1'	1:AA:1379:G:N2	2.33	0.43
2:AB:115:LEU:O	2:AB:118:LEU:HB2	2.19	0.43
2:AB:178:ARG:HD3	2:AB:178:ARG:HA	1.87	0.43
2:AB:95:GLN:HA	2:AB:95:GLN:OE1	2.19	0.43
3:AC:88:ARG:HG2	3:AC:101:LEU:CB	2.48	0.43
4:AD:13:ARG:O	4:AD:14:ARG:HB3	2.18	0.43
6:AF:30:LEU:N	6:AF:30:LEU:HD23	2.09	0.43
7:AG:15:ASP:HB3	7:AG:20:ASP:H	1.83	0.43
8:AH:39:LEU:HD22	8:AH:39:LEU:N	2.33	0.43
9:AI:76:ALA:C	9:AI:78:LYS:H	2.22	0.43
10:AJ:3:LYS:N	10:AJ:74:ILE:O	2.51	0.43
12:AL:32:PHE:HB3	12:AL:84:LEU:HD22	2.00	0.43
17:AQ:45:HIS:CB	17:AQ:65:ILE:HD13	2.47	0.43
19:AS:40:ILE:HD13	19:AS:62:ILE:CD1	2.47	0.43
19:AS:62:ILE:HA	19:AS:66:MET:HE2	1.99	0.43
13:AM:125:ARG:HA	24:AY:160:PRO:N	2.34	0.43
13:AM:123:ALA:HB1	24:AY:162:ALA:HB2	1.99	0.43
26:B1:86:SER:HB2	26:B1:89:GLU:CB	2.34	0.43
35:BA:1111:A:O2'	35:BA:1112:G:H4'	2.18	0.43
35:BA:1131:G:O2'	35:BA:1132:A:H8	2.02	0.43
35:BA:1317:A:H2'	35:BA:1318:C:H6	1.83	0.43
35:BA:1362:C:O2'	35:BA:1363:C:H5'	2.19	0.43
35:BA:2023:G:H4'	35:BA:2617:C:O3'	2.18	0.43
35:BA:2106:G:H1	35:BA:2183:C:H42	1.65	0.43
35:BA:74:A:H5'	35:BA:75:G:O4'	2.17	0.43
35:BA:794:G:H2'	35:BA:795:C:C6	2.53	0.43
36:BB:57:A:C4	41:BG:29:TRP:HB3	2.54	0.43
37:BC:23:ILE:HG13	37:BC:229:SER:O	2.19	0.43
38:BD:80:ALA:O	38:BD:81:ALA:HB2	2.18	0.43
35:BA:614(C):A:C8	40:BF:176:LEU:HD11	2.53	0.43
41:BG:166:ASP:O	41:BG:169:ALA:HB3	2.19	0.43
43:BI:119:PRO:O	43:BI:120:ILE:C	2.57	0.43
43:BI:130:TYR:O	43:BI:131:LYS:HB2	2.18	0.43
46:BN:120:LEU:HD13	46:BN:121:LYS:N	2.34	0.43
46:BN:128:HIS:CE1	46:BN:134:ARG:NH1	2.84	0.43
48:BP:102:ARG:HH21	48:BP:102:ARG:HB2	1.84	0.43
57:BY:38:ILE:HG22	57:BY:39:VAL:H	1.84	0.43
58:BZ:163:LEU:N	58:BZ:163:LEU:CD2	2.79	0.43
58:BZ:24:LEU:HD23	58:BZ:25:PRO:CD	2.48	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:532:A:H61	3:CC:156:ARG:NH1	2.14	0.43
1:CA:536:C:H2'	1:CA:537:G:H8	1.84	0.43
1:CA:960:U:O2	1:CA:960:U:H2'	2.18	0.43
5:CE:76:ILE:HG13	5:CE:77:PRO:HD2	1.99	0.43
7:CG:92:SER:O	7:CG:93:PRO:C	2.57	0.43
9:CI:108:VAL:O	9:CI:110:GLU:N	2.52	0.43
9:CI:40:LEU:C	9:CI:42:ARG:N	2.72	0.43
13:CM:94:ARG:NH1	19:CS:81:ARG:HG3	2.34	0.43
16:CP:52:ASP:OD2	16:CP:54:GLU:HB2	2.18	0.43
23:CX:21:A:N1	24:CY:201:ARG:HD3	2.34	0.43
26:D1:68:PRO:C	26:D1:70:VAL:H	2.22	0.43
33:D8:50:LEU:O	33:D8:51:ALA:HB3	2.19	0.43
35:DA:1077:A:C2'	35:DA:1078:U:H5'	2.49	0.43
35:DA:1047:G:H2'	35:DA:1110:G:N2	2.33	0.43
35:DA:1114:G:C3'	35:DA:1115:G:C5'	2.96	0.43
35:DA:2100:G:O2'	35:DA:2101:G:H5'	2.18	0.43
33:D8:32:LEU:CD1	35:DA:2392:A:OP1	2.62	0.43
35:DA:2410:G:C2	35:DA:2411:A:H1'	2.53	0.43
35:DA:320:A:H2'	40:DF:136:THR:OG1	2.19	0.43
32:D7:40:TRP:CZ3	35:DA:459:U:H4'	2.54	0.43
36:DB:37:C:C2'	36:DB:38:C:H5'	2.48	0.43
38:DD:245:PRO:O	38:DD:246:PRO:C	2.56	0.43
38:DD:30:GLU:HG3	38:DD:63:ARG:NH2	2.32	0.43
38:DD:48:ARG:NH1	38:DD:48:ARG:HG3	2.34	0.43
40:DF:24:LEU:HD12	40:DF:25:PRO:CD	2.49	0.43
41:DG:60:LEU:HD23	41:DG:68:PRO:HG2	2.00	0.43
42:DH:109:PHE:O	42:DH:111:HIS:N	2.49	0.43
42:DH:26:VAL:HG11	42:DH:76:VAL:HA	2.01	0.43
44:DJ:101:UNK:C	44:DJ:103:UNK:N	2.82	0.43
45:DK:10:LEU:HD13	45:DK:12:LEU:HG	2.00	0.43
47:DO:22:ILE:HA	47:DO:22:ILE:HD13	1.82	0.43
51:DS:88:ASP:CG	51:DS:89:ARG:N	2.71	0.43
52:DT:26:ASP:C	52:DT:26:ASP:OD2	2.54	0.43
52:DT:91:ARG:HG2	52:DT:116:ALA:HA	1.99	0.43
54:DV:20:LEU:HD12	54:DV:20:LEU:N	2.34	0.43
56:DX:64:LYS:HZ3	56:DX:73:ARG:HH21	1.67	0.43
49:DQ:130:LYS:HD2	58:DZ:80:ARG:HH22	1.84	0.43
1:AA:1004:A:H3'	1:AA:1036:G:O6	2.18	0.43
1:AA:226:G:H2'	1:AA:227:G:H8	1.83	0.43
1:AA:291:C:O2'	1:AA:292:G:H5'	2.18	0.43
2:AB:133:LYS:O	2:AB:137:ARG:HB2	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AB:56:ARG:HG2	2:AB:56:ARG:HH11	1.84	0.43
3:AC:83:ARG:C	3:AC:85:ARG:H	2.22	0.43
4:AD:153:ARG:HG2	4:AD:181:MET:SD	2.58	0.43
7:AG:15:ASP:OD1	7:AG:18:TYR:HB2	2.19	0.43
8:AH:134:ILE:O	8:AH:135:CYS:HB3	2.19	0.43
13:AM:58:GLU:C	13:AM:60:VAL:N	2.71	0.43
13:AM:66:LEU:O	13:AM:70:LEU:N	2.52	0.43
14:AN:13:THR:HG22	14:AN:13:THR:O	2.18	0.43
1:AA:624:C:O2'	16:AP:10:GLY:HA2	2.18	0.43
20:AT:41:ILE:HG13	20:AT:42:GLN:N	2.34	0.43
13:AM:126:LYS:N	24:AY:162:ALA:H	2.15	0.43
26:B1:92:LYS:HG3	26:B1:93:GLU:OE2	2.17	0.43
28:B3:6:VAL:HG23	28:B3:28:LEU:HD11	2.01	0.43
35:BA:1077:A:C2	35:BA:1088:A:H2'	2.53	0.43
35:BA:1105:U:H2'	35:BA:1106:G:H8	1.82	0.43
35:BA:1480:G:C6	35:BA:1481:U:N3	2.86	0.43
35:BA:1539:G:H2'	35:BA:1540:U:C4'	2.49	0.43
35:BA:1794:U:H2'	35:BA:1795:C:C6	2.53	0.43
35:BA:178:G:O2'	35:BA:179:G:H5'	2.19	0.43
35:BA:1826:G:H2'	35:BA:1827:C:H6	1.82	0.43
35:BA:2016:U:H2'	35:BA:2017:U:C6	2.54	0.43
35:BA:2051:A:H5'	35:BA:2578:G:O4'	2.18	0.43
35:BA:2715:C:O2'	35:BA:2716:U:H5'	2.18	0.43
35:BA:412:A:H2'	35:BA:413:C:H5'	2.00	0.43
35:BA:553:G:O2'	35:BA:554:U:H5'	2.19	0.43
35:BA:676:A:H2	35:BA:802:A:N6	2.10	0.43
35:BA:816:C:H2'	35:BA:817:C:H6	1.84	0.43
35:BA:963:U:H2'	35:BA:964:C:C6	2.54	0.43
36:BB:42:C:O2	41:BG:93:THR:N	2.38	0.43
36:BB:94:C:O2'	36:BB:95:C:H5'	2.19	0.43
37:BC:46:ALA:HB1	37:BC:213:VAL:HG22	2.01	0.43
38:BD:10:THR:HG23	38:BD:13:ARG:CB	2.37	0.43
38:BD:165:ILE:HD13	38:BD:175:LEU:HD23	2.00	0.43
38:BD:72:LYS:NZ	38:BD:75:ILE:CD1	2.78	0.43
42:BH:26:VAL:HG11	42:BH:76:VAL:HA	2.00	0.43
43:BI:99:GLU:HG2	43:BI:103:ARG:NH2	2.33	0.43
48:BP:115:LEU:CD2	48:BP:115:LEU:N	2.81	0.43
49:BQ:55:VAL:HG12	49:BQ:64:ILE:HD12	2.00	0.43
52:BT:105:LEU:O	52:BT:107:ASP:OD1	2.36	0.43
1:CA:1228:C:C5'	13:CM:108:ARG:HH22	2.30	0.43
1:CA:1356:G:H2'	1:CA:1357:A:H8	1.80	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:142:G:H2'	1:CA:143:A:C8	2.54	0.43
1:CA:1429:C:H2'	1:CA:1430:C:C6	2.54	0.43
1:CA:245:C:O2'	1:CA:246:A:H5'	2.18	0.43
1:CA:276:G:C5	1:CA:277:C:C5	3.06	0.43
1:CA:503:C:C6	1:CA:504:C:H5	2.36	0.43
2:CB:133:LYS:O	2:CB:137:ARG:HB2	2.19	0.43
3:CC:83:ARG:C	3:CC:85:ARG:H	2.22	0.43
4:CD:191:ARG:NE	4:CD:200:GLU:OE1	2.50	0.43
5:CE:146:ALA:O	5:CE:147:ASP:C	2.57	0.43
12:CL:54:LYS:N	12:CL:54:LYS:HD2	2.34	0.43
1:CA:552:U:H4'	12:CL:86:ARG:HG2	2.00	0.43
14:CN:41:ARG:HH11	14:CN:41:ARG:HG2	1.84	0.43
19:CS:41:VAL:CG1	19:CS:42:PRO:HD2	2.47	0.43
19:CS:48:THR:HG22	19:CS:61:TYR:HD1	1.83	0.43
20:CT:42:GLN:NE2	20:CT:42:GLN:HA	2.33	0.43
20:CT:89:ARG:HB2	20:CT:104:LEU:CD1	2.49	0.43
22:CW:19:G:C6	35:DA:2112:G:C6	3.06	0.43
22:CW:49:C:H2'	22:CW:49:C:O2	2.18	0.43
24:CY:117:ILE:CG1	24:CY:170:LEU:HD13	2.48	0.43
24:CY:140:TYR:OH	24:CY:187:HIS:NE2	2.46	0.43
24:CY:234:ALA:HB2	24:CY:247:SER:HG	1.82	0.43
24:CY:326:THR:CG2	24:CY:328:LEU:HD22	2.46	0.43
26:D1:49:VAL:O	26:D1:59:THR:HA	2.19	0.43
27:D2:23:LYS:O	27:D2:26:ARG:HB3	2.18	0.43
28:D3:3:ARG:H	28:D3:3:ARG:HG2	1.67	0.43
33:D8:30:ARG:NE	33:D8:30:ARG:HA	2.34	0.43
33:D8:33:ASN:HD22	33:D8:36:LYS:CD	2.31	0.43
35:DA:1177:A:H5'	35:DA:1178:C:C6	2.54	0.43
26:D1:3:LYS:HD2	35:DA:1364:G:OP2	2.17	0.43
35:DA:1403:C:H5''	35:DA:1471:A:C1'	2.39	0.43
35:DA:1625:C:H2'	35:DA:1626:G:H5'	2.01	0.43
35:DA:1888:G:N3	35:DA:1888:G:H5'	2.34	0.43
35:DA:2223:G:O2'	35:DA:2224:G:H5'	2.18	0.43
35:DA:2461:C:H2'	35:DA:2462:U:H6	1.82	0.43
35:DA:2564:A:OP1	35:DA:2648:C:H4'	2.18	0.43
35:DA:2689:U:H4'	35:DA:2690:C:H6	1.82	0.43
35:DA:271(A):A:H1'	35:DA:365:C:O4'	2.18	0.43
35:DA:271(L):U:H4'	35:DA:271(M):G:C2	2.53	0.43
35:DA:272(D):G:H1	35:DA:364:C:N4	2.15	0.43
35:DA:637:A:N1	35:DA:652:C:H5'	2.34	0.43
36:DB:81:G:N3	36:DB:81:G:H5'	2.33	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:DD:148:GLU:CB	38:DD:151:LYS:HD2	2.48	0.43
38:DD:89:SER:C	38:DD:159:ALA:HB2	2.39	0.43
35:DA:2579:C:O2'	39:DE:131:ALA:HB3	2.18	0.43
35:DA:2052:G:O4'	39:DE:142:GLY:HA3	2.18	0.43
39:DE:67:PHE:O	39:DE:70:ALA:CB	2.66	0.43
40:DF:4:VAL:HG22	40:DF:19:GLU:CD	2.37	0.43
41:DG:55:LYS:C	41:DG:58:GLN:NE2	2.72	0.43
42:DH:40:GLU:OE1	42:DH:61:HIS:NE2	2.51	0.43
45:DK:104:VAL:HG12	45:DK:104:VAL:O	2.18	0.43
46:DN:74:ARG:NH2	46:DN:85:ILE:HD11	2.33	0.43
49:DQ:134:ARG:HG3	49:DQ:134:ARG:HH11	1.83	0.43
51:DS:107:GLU:O	51:DS:108:GLY:C	2.57	0.43
51:DS:89:ARG:O	51:DS:92:TYR:CG	2.72	0.43
52:DT:60:THR:HG22	52:DT:77:PRO:HA	2.00	0.43
57:DY:6:HIS:HE1	57:DY:30:VAL:HG11	1.83	0.43
57:DY:50:ARG:O	57:DY:50:ARG:CD	2.67	0.43
1:AA:1049:U:O2'	1:AA:1050:G:OP2	2.35	0.43
1:AA:1134:G:N1	1:AA:1142:G:C6	2.87	0.43
1:AA:119:A:H4'	1:AA:120:A:O5'	2.19	0.43
1:AA:376:G:H5''	16:AP:5:ARG:HB2	2.00	0.43
2:AB:142:LEU:HA	2:AB:145:LEU:CB	2.48	0.43
3:AC:40:ARG:O	3:AC:44:GLU:HB2	2.18	0.43
3:AC:82:GLU:H	3:AC:82:GLU:CD	2.21	0.43
8:AH:1:MET:O	8:AH:2:LEU:O	2.37	0.43
9:AI:118:LYS:HZ2	9:AI:118:LYS:CB	2.31	0.43
9:AI:43:ALA:O	9:AI:45:ALA:N	2.44	0.43
9:AI:8:GLY:O	9:AI:14:VAL:HG13	2.19	0.43
10:AJ:8:LEU:C	10:AJ:16:LEU:HD21	2.39	0.43
11:AK:120:ARG:HA	11:AK:121:PRO:HD3	1.80	0.43
12:AL:88:GLY:O	12:AL:89:ARG:O	2.36	0.43
12:AL:93:LEU:O	12:AL:96:VAL:HG23	2.19	0.43
1:AA:177:C:OP1	20:AT:65:LYS:HD3	2.19	0.43
22:AV:20:U:C2'	22:AV:21:A:H4'	2.46	0.43
22:AW:18:G:N1	22:AW:55:U:H1'	2.34	0.43
24:AY:71:GLY:O	24:AY:87:LEU:HD11	2.19	0.43
25:B0:51:VAL:HG22	25:B0:81:VAL:HG23	2.00	0.43
26:B1:53:VAL:O	26:B1:54:ALA:HB3	2.18	0.43
29:B4:15:ILE:HD13	29:B4:21:VAL:HG13	2.00	0.43
35:BA:1053:C:N4	35:BA:1107:G:N2	2.66	0.43
35:BA:1348:G:C2'	35:BA:1349:A:C5'	2.91	0.43
35:BA:1541:G:H4'	35:BA:1542:A:O5'	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:1579:A:H2'	35:BA:1580:A:O4'	2.19	0.43
35:BA:158:U:H2'	35:BA:158:U:O2	2.17	0.43
35:BA:158:U:H3'	35:BA:158:U:O2	2.19	0.43
35:BA:562:U:C4	35:BA:2036:C:O4'	2.71	0.43
35:BA:2152:G:H2'	35:BA:2153:G:O4'	2.19	0.43
35:BA:2476:A:C2	35:BA:2477:C:H6	2.36	0.43
22:AW:77:PHA:CD2	35:BA:248:G:O3'	2.61	0.43
35:BA:2784:C:H4'	39:BE:41:LYS:O	2.17	0.43
35:BA:2787:C:H1'	39:BE:61:ARG:HD2	1.96	0.43
35:BA:609:A:H2'	35:BA:610:G:O4'	2.19	0.43
35:BA:629:G:H4'	35:BA:650:C:O2	2.19	0.43
35:BA:874:G:H1	35:BA:903:C:H42	1.65	0.43
36:BB:48:A:H2'	36:BB:49:C:C6	2.53	0.43
36:BB:86:G:O2'	36:BB:87:G:H5'	2.19	0.43
37:BC:57:GLN:HG3	37:BC:202:PRO:HB2	2.01	0.43
38:BD:112:GLN:O	38:BD:115:GLN:HB2	2.19	0.43
38:BD:35:LYS:CD	38:BD:35:LYS:O	2.67	0.43
40:BF:116:ASP:OD1	40:BF:119:ARG:NH2	2.52	0.43
40:BF:133:ASN:N	40:BF:133:ASN:HD22	2.16	0.43
35:BA:2445:G:OP1	40:BF:74:ARG:NH2	2.52	0.43
41:BG:102:PHE:C	41:BG:104:GLU:N	2.71	0.43
41:BG:125:PHE:CD1	41:BG:125:PHE:N	2.86	0.43
41:BG:58:GLN:NE2	41:BG:59:GLU:N	2.66	0.43
43:BI:1:MET:N	43:BI:20:ASP:OD1	2.44	0.43
45:BK:122:ALA:CB	45:BK:125:ARG:HH21	2.32	0.43
45:BK:38:VAL:CG2	45:BK:39:LYS:N	2.82	0.43
46:BN:34:LEU:O	46:BN:49:GLY:HA3	2.18	0.43
47:BO:2:ILE:HD11	47:BO:82:ASN:ND2	2.34	0.43
48:BP:101:VAL:CB	48:BP:107:LYS:HA	2.36	0.43
48:BP:56:SER:O	48:BP:58:THR:N	2.52	0.43
50:BR:103:ARG:HH12	50:BR:110:PRO:HD3	1.83	0.43
51:BS:15:ARG:C	51:BS:17:ARG:N	2.71	0.43
52:BT:90:GLN:HB3	52:BT:90:GLN:HE21	1.64	0.43
55:BW:6:ILE:HG12	55:BW:104:THR:OG1	2.18	0.43
57:BY:76:CYS:CB	57:BY:77:PRO:HD2	2.45	0.43
58:BZ:155:LEU:HD23	58:BZ:155:LEU:H	1.84	0.43
1:CA:9:G:H2'	1:CA:10:A:C8	2.53	0.43
1:CA:1250:A:C2	1:CA:1370:G:H1'	2.54	0.43
1:CA:1374:A:C5	1:CA:1375:A:N7	2.86	0.43
1:CA:186:C:H5'	20:CT:78:ALA:HB1	2.00	0.43
1:CA:32:A:H2'	1:CA:33:A:H8	1.81	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:715:A:H2'	1:CA:716:A:C8	2.54	0.43
1:CA:666:G:H5'	1:CA:726:C:H1'	1.99	0.43
2:CB:77:ALA:O	2:CB:78:GLN:C	2.56	0.43
4:CD:153:ARG:HG2	4:CD:181:MET:SD	2.59	0.43
7:CG:50:ILE:C	7:CG:52:GLU:N	2.72	0.43
13:CM:13:LYS:HA	13:CM:44:ARG:NH1	2.33	0.43
14:CN:4:LYS:HD3	14:CN:7:ILE:HD11	2.01	0.43
22:CW:36:A:H2'	22:CW:37:A:O4'	2.18	0.43
30:D5:6:VAL:HG13	30:D5:7:PRO:HD2	1.99	0.43
31:D6:40:CYS:CB	31:D6:46:HIS:ND1	2.82	0.43
33:D8:23:VAL:HG12	33:D8:46:ARG:HH11	1.82	0.43
35:DA:1270:C:H5''	35:DA:1271:G:C5'	2.49	0.43
35:DA:1363:C:O2'	35:DA:1364:G:H5'	2.19	0.43
35:DA:1539:G:H2'	35:DA:1540:U:C4'	2.48	0.43
35:DA:1639:U:H2'	35:DA:1640:C:C5'	2.48	0.43
35:DA:2143:C:C2'	35:DA:2144:U:H5'	2.48	0.43
35:DA:2267:A:H5''	35:DA:2268:A:C5'	2.48	0.43
35:DA:231:C:O2'	35:DA:232:G:H5'	2.18	0.43
35:DA:2340:G:O2'	35:DA:2341:G:H5'	2.19	0.43
35:DA:2680:C:H5'	39:DE:189:PRO:HA	2.00	0.43
35:DA:26:G:C6	35:DA:27:G:N1	2.87	0.43
35:DA:346:A:C2'	35:DA:347:A:H5'	2.47	0.43
35:DA:491:G:H2'	35:DA:492:A:H8	1.84	0.43
35:DA:528:A:H2	35:DA:2043:C:C5'	2.32	0.43
35:DA:794:G:H2'	35:DA:795:C:C6	2.54	0.43
36:DB:48:A:H2'	36:DB:49:C:C6	2.54	0.43
37:DC:28:ARG:CB	37:DC:28:ARG:NH1	2.81	0.43
37:DC:42:VAL:HG22	37:DC:217:THR:CG2	2.37	0.43
38:DD:136:ILE:HA	38:DD:137:PRO:HD3	1.90	0.43
38:DD:239:ARG:NH2	38:DD:239:ARG:HG2	2.32	0.43
39:DE:56:PRO:O	39:DE:57:LYS:O	2.36	0.43
41:DG:47:LYS:HZ2	41:DG:81:LYS:HB2	1.84	0.43
42:DH:105:LEU:H	42:DH:105:LEU:HD23	1.84	0.43
43:DI:72:LEU:CD1	43:DI:138:ILE:HD11	2.43	0.43
45:DK:92:GLY:HA3	58:DZ:112:ARG:HH22	1.84	0.43
46:DN:57:ALA:C	46:DN:58:ASP:O	2.57	0.43
49:DQ:109:VAL:HG13	49:DQ:113:GLN:OE1	2.17	0.43
51:DS:106:ARG:CZ	51:DS:106:ARG:HB3	2.46	0.43
52:DT:78:LEU:HB3	52:DT:79:HIS:ND1	2.34	0.43
53:DU:29:SER:O	53:DU:30:LYS:HD3	2.18	0.43
58:DZ:3:TYR:N	58:DZ:3:TYR:CD1	2.86	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1062:U:H2'	1:AA:1063:C:C5	2.54	0.43
1:AA:1280:A:H5'	10:AJ:40:LEU:HD22	2.00	0.43
1:AA:1327:C:H5''	21:AU:20:LYS:HB3	2.01	0.43
1:AA:1483:A:H1'	35:BA:1948:G:O4'	2.19	0.43
3:AC:99:VAL:HG23	3:AC:99:VAL:O	2.18	0.43
4:AD:191:ARG:NE	4:AD:200:GLU:OE1	2.49	0.43
7:AG:113:GLU:HB2	7:AG:119:ARG:CG	2.48	0.43
12:AL:27:LEU:HD12	12:AL:64:TYR:CE1	2.54	0.43
14:AN:21:TYR:OH	14:AN:23:ARG:NH2	2.51	0.43
21:AU:5:ASP:O	21:AU:11:GLY:HA3	2.18	0.43
24:AY:233:ARG:HB2	24:AY:233:ARG:HE	1.64	0.43
24:AY:305:ILE:O	24:AY:305:ILE:HG22	2.17	0.43
25:B0:68:GLU:OE2	25:B0:82:ARG:HB2	2.19	0.43
28:B3:1:MET:O	28:B3:2:PRO:C	2.56	0.43
30:B5:36:CYS:SG	30:B5:48:GLU:O	2.76	0.43
33:B8:61:LEU:HD23	33:B8:61:LEU:H	1.84	0.43
35:BA:1518:U:H2'	35:BA:1519:G:O4'	2.17	0.43
35:BA:1930:G:O2'	35:BA:1931:U:OP2	2.37	0.43
35:BA:2134:A:H5''	35:BA:2156:G:H22	1.84	0.43
35:BA:2305:A:H2'	35:BA:2306:C:O4'	2.19	0.43
35:BA:2688:U:H1'	35:BA:2721:A:N6	2.34	0.43
35:BA:491:G:H2'	35:BA:492:A:C8	2.54	0.43
35:BA:608:A:H2'	35:BA:609:A:C8	2.54	0.43
35:BA:729:G:C5	38:BD:208:LYS:HB2	2.53	0.43
36:BB:56:G:H4'	36:BB:57:A:C8	2.54	0.43
37:BC:28:ARG:CB	37:BC:28:ARG:NH1	2.81	0.43
38:BD:136:ILE:HA	38:BD:137:PRO:HD3	1.92	0.43
35:BA:2784:C:H1'	39:BE:37:ARG:HH12	1.84	0.43
42:BH:105:LEU:HD23	42:BH:113:VAL:O	2.18	0.43
43:BI:3:VAL:HG12	43:BI:36:ALA:HB1	2.01	0.43
45:BK:95:LYS:HG3	45:BK:136:VAL:HA	2.00	0.43
48:BP:108:LYS:C	48:BP:110:TYR:N	2.72	0.43
48:BP:30:THR:HG22	48:BP:31:ALA:H	1.84	0.43
49:BQ:140:ALA:O	49:BQ:141:GLN:CB	2.64	0.43
50:BR:65:LEU:HD12	50:BR:65:LEU:HA	1.89	0.43
52:BT:62:THR:HG22	52:BT:75:ILE:HG12	1.99	0.43
52:BT:78:LEU:O	52:BT:79:HIS:ND1	2.52	0.43
52:BT:83:ILE:HD11	52:BT:84:GLN:HE21	1.82	0.43
35:BA:1151:G:H5''	53:BU:81:HIS:CE1	2.54	0.43
54:BV:28:GLU:HB2	54:BV:31:ALA:HB2	2.00	0.43
56:BX:57:LEU:HD22	56:BX:57:LEU:O	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
57:BY:31:LEU:HD23	57:BY:36:ALA:C	2.39	0.43
57:BY:6:HIS:HE1	57:BY:30:VAL:HG11	1.83	0.43
58:BZ:71:VAL:HG22	58:BZ:88:PHE:HE2	1.84	0.43
49:BQ:130:LYS:HZ3	58:BZ:80:ARG:HD2	1.84	0.43
1:CA:240:C:H2'	1:CA:241:C:C6	2.54	0.43
1:CA:693:G:H2'	1:CA:694:A:O4'	2.18	0.43
1:CA:827:U:H2'	1:CA:870:U:O4	2.18	0.43
2:CB:187:LEU:CD2	2:CB:201:ILE:O	2.64	0.43
5:CE:84:PHE:CE2	5:CE:133:TYR:HD1	2.37	0.43
5:CE:144:THR:C	5:CE:146:ALA:N	2.72	0.43
5:CE:64:ARG:HH11	5:CE:64:ARG:HG3	1.84	0.43
5:CE:73:ASN:ND2	5:CE:73:ASN:N	2.66	0.43
7:CG:116:ALA:H	7:CG:118:VAL:HG22	1.84	0.43
11:CK:122:LYS:O	11:CK:126:ARG:HG3	2.19	0.43
11:CK:56:GLY:O	11:CK:89:ALA:HB3	2.19	0.43
12:CL:32:PHE:HB3	12:CL:84:LEU:HD22	2.00	0.43
13:CM:115:LYS:C	13:CM:117:VAL:N	2.69	0.43
1:CA:1220:G:O3'	19:CS:36:ARG:HD3	2.19	0.43
22:CV:12:U:C3'	22:CV:13:C:H5''	2.49	0.43
22:CV:36:A:C2	23:CX:17:U:C2	3.06	0.43
24:CY:218:VAL:HG13	24:CY:218:VAL:O	2.19	0.43
24:CY:267:SER:OG	24:CY:270:LYS:HG3	2.19	0.43
27:D2:48:HIS:O	27:D2:52:ASP:CB	2.66	0.43
31:D6:12:GLU:OE1	31:D6:52:VAL:HB	2.18	0.43
31:D6:35:GLU:HB3	31:D6:51:GLU:OE2	2.18	0.43
35:DA:1053:C:N4	35:DA:1107:G:N2	2.66	0.43
35:DA:1142:U:C5'	35:DA:1142(A):A:H5''	2.46	0.43
35:DA:1503:U:C4	35:DA:1504:C:N4	2.87	0.43
35:DA:2307:G:N3	35:DA:2307:G:H5''	2.34	0.43
35:DA:2320:A:C2	35:DA:2333:A:C8	3.07	0.43
35:DA:2593:U:H2'	35:DA:2594:C:C6	2.54	0.43
35:DA:2648:C:H2'	35:DA:2649:U:H6	1.83	0.43
35:DA:2808:U:H5'	35:DA:2891:G:O6	2.19	0.43
35:DA:392:C:H5''	35:DA:409:C:H5''	2.00	0.43
37:DC:14:LYS:O	37:DC:15:VAL:HG13	2.18	0.43
35:DA:729:G:C5	38:DD:208:LYS:HB2	2.54	0.43
38:DD:21:PHE:HB3	38:DD:24:ILE:HG21	1.99	0.43
38:DD:3:VAL:HG12	38:DD:17:THR:HB	2.01	0.43
38:DD:30:GLU:CG	38:DD:63:ARG:NH2	2.82	0.43
40:DF:125:LEU:HA	40:DF:194:MET:O	2.17	0.43
40:DF:129:PHE:CZ	40:DF:156:LEU:HD11	2.53	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:DH:109:PHE:C	42:DH:111:HIS:N	2.72	0.43
35:DA:2657:A:O2'	42:DH:160:LYS:HE2	2.18	0.43
43:DI:75:LEU:O	43:DI:139:GLN:HB3	2.19	0.43
45:DK:88:ALA:HB3	45:DK:134:MET:O	2.19	0.43
46:DN:128:HIS:HE1	46:DN:134:ARG:HH11	1.62	0.43
46:DN:45:ASN:HD22	46:DN:45:ASN:N	2.15	0.43
48:DP:101:VAL:HG13	48:DP:106:LEU:HD23	2.00	0.43
48:DP:7:ARG:CA	48:DP:7:ARG:HH11	2.23	0.43
35:DA:494:G:N2	55:DW:57:ASN:HD21	2.17	0.43
57:DY:62:GLU:OE1	57:DY:63:LYS:O	2.36	0.43
58:DZ:150:LEU:C	58:DZ:150:LEU:HD23	2.39	0.43
1:AA:1020:U:H2'	1:AA:1021:G:C8	2.54	0.43
1:AA:1179:A:O2'	1:AA:1180:A:H5'	2.19	0.43
1:AA:986:A:H2'	1:AA:987:G:H8	1.81	0.43
3:AC:155:GLY:O	3:AC:156:ARG:CB	2.66	0.43
3:AC:52:LEU:CD2	3:AC:52:LEU:N	2.79	0.43
4:AD:194:LEU:N	4:AD:194:LEU:HD22	2.34	0.43
4:AD:46:LYS:O	4:AD:47:ARG:C	2.56	0.43
4:AD:98:GLU:O	4:AD:100:ARG:N	2.52	0.43
5:AE:76:ILE:HG13	5:AE:142:LEU:CD1	2.47	0.43
7:AG:67:GLU:HA	7:AG:67:GLU:OE2	2.18	0.43
11:AK:21:ILE:HA	11:AK:30:VAL:HG12	2.01	0.43
13:AM:66:LEU:N	13:AM:70:LEU:HD12	2.34	0.43
17:AQ:22:LEU:HD11	17:AQ:39:SER:HB2	2.01	0.43
17:AQ:7:THR:HG22	17:AQ:58:GLU:HA	1.99	0.43
19:AS:11:VAL:CG1	19:AS:16:LEU:HD11	2.46	0.43
20:AT:89:ARG:CZ	20:AT:104:LEU:HD21	2.49	0.43
22:AV:4:C:H2'	22:AV:5:G:C8	2.53	0.43
22:AW:8:U:C2'	22:AW:8:U:O2	2.60	0.43
24:AY:345:ILE:O	24:AY:349:LEU:HG	2.19	0.43
26:B1:26:ARG:HG3	26:B1:26:ARG:NH1	2.33	0.43
33:B8:61:LEU:CD2	33:B8:61:LEU:H	2.29	0.43
35:BA:1077:A:C2'	35:BA:1078:U:H5'	2.48	0.43
35:BA:1721:G:H2'	35:BA:1741:A:H61	1.83	0.43
35:BA:2033:A:H2'	35:BA:2035:G:OP2	2.19	0.43
35:BA:2148:G:O2'	35:BA:2149:G:H5'	2.18	0.43
22:AV:76:8AN:H8	35:BA:2602:A:N1	2.33	0.43
35:BA:721:C:O2	35:BA:721:C:H2'	2.18	0.43
35:BA:813:U:H2'	35:BA:814:C:C6	2.53	0.43
35:BA:845:G:H8	35:BA:845:G:OP2	2.02	0.43
37:BC:14:LYS:O	37:BC:15:VAL:HG13	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:BD:35:LYS:C	38:BD:37:LEU:N	2.72	0.43
43:BI:93:THR:O	43:BI:96:ASP:N	2.51	0.43
46:BN:62:VAL:HG22	46:BN:66:LYS:HB2	2.00	0.43
48:BP:91:PHE:HZ	48:BP:100:LEU:CD2	2.32	0.43
49:BQ:118:LEU:CD1	49:BQ:131:ILE:HG23	2.48	0.43
49:BQ:136:ALA:C	49:BQ:138:ASP:N	2.70	0.43
49:BQ:39:PRO:O	49:BQ:40:ALA:HB2	2.19	0.43
35:BA:911:A:H2'	49:BQ:9:TYR:OH	2.19	0.43
51:BS:18:ILE:C	51:BS:20:ARG:N	2.72	0.43
52:BT:32:TYR:HD1	52:BT:33:LYS:H	1.60	0.43
54:BV:18:LEU:CG	54:BV:19:LYS:N	2.82	0.43
57:BY:63:LYS:CG	57:BY:64:GLU:H	2.22	0.43
57:BY:97:ARG:NH2	57:BY:98:VAL:CG2	2.81	0.43
58:BZ:52:SER:OG	58:BZ:53:ILE:N	2.51	0.43
58:BZ:9:TYR:HD2	58:BZ:37:VAL:HG12	1.84	0.43
1:CA:1144:G:N2	1:CA:1146:A:H62	2.15	0.43
1:CA:1269:A:H2	1:CA:1312:G:N3	2.17	0.43
1:CA:1402:C:H2'	1:CA:1403:C:O4'	2.19	0.43
1:CA:389:A:H2'	1:CA:390:C:C5'	2.48	0.43
1:CA:520:A:OP2	12:CL:51:ALA:HB1	2.18	0.43
2:CB:71:VAL:O	2:CB:164:VAL:HA	2.18	0.43
3:CC:121:ALA:HB2	3:CC:198:VAL:CG2	2.45	0.43
3:CC:83:ARG:C	3:CC:85:ARG:N	2.72	0.43
4:CD:165:MET:HB3	4:CD:178:VAL:HG22	2.01	0.43
4:CD:38:TYR:CD2	4:CD:45:GLN:HB3	2.53	0.43
7:CG:100:ALA:C	7:CG:104:LEU:HD23	2.38	0.43
7:CG:113:GLU:HB2	7:CG:119:ARG:HG2	2.00	0.43
7:CG:15:ASP:OD1	7:CG:18:TYR:HB2	2.19	0.43
8:CH:12:ARG:NH1	8:CH:27:PRO:CD	2.80	0.43
12:CL:82:VAL:O	12:CL:83:VAL:HG23	2.19	0.43
14:CN:24:CYS:SG	14:CN:40:CYS:N	2.85	0.43
1:CA:278:G:OP2	17:CQ:41:LYS:HE2	2.18	0.43
18:CR:71:LYS:HA	18:CR:74:ARG:CD	2.48	0.43
24:CY:150:GLN:HB3	24:CY:172:LYS:HD3	2.01	0.43
24:CY:326:THR:OG1	24:CY:328:LEU:HD13	2.19	0.43
24:CY:78:GLU:O	24:CY:80:PRO:HD3	2.18	0.43
24:CY:85:GLU:HG2	24:CY:85:GLU:O	2.18	0.43
27:D2:47:ASN:OD1	35:DA:61:G:H1'	2.19	0.43
29:D4:11:PRO:HA	29:D4:25:TYR:HA	2.01	0.43
35:DA:1323:U:H2'	35:DA:1324:G:H5'	2.00	0.43
35:DA:1625:C:C2'	35:DA:1626:G:H5'	2.49	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:2373:G:H2'	35:DA:2374:C:C6	2.54	0.43
35:DA:2877:G:O2'	35:DA:2878:U:H5'	2.18	0.43
35:DA:902:C:H2'	35:DA:903:C:C6	2.54	0.43
37:DC:23:ILE:HG13	37:DC:229:SER:O	2.18	0.43
39:DE:77:ILE:CG2	39:DE:78:LEU:N	2.62	0.43
40:DF:160:ASN:ND2	40:DF:160:ASN:C	2.72	0.43
43:DI:102:SER:HA	43:DI:107:VAL:H	1.84	0.43
45:DK:72:PRO:HB2	45:DK:77:LEU:HD21	2.00	0.43
45:DK:95:LYS:HG3	45:DK:136:VAL:HA	2.00	0.43
48:DP:66:GLY:O	48:DP:67:MET:CB	2.66	0.43
48:DP:84:ASN:HD22	48:DP:84:ASN:N	2.16	0.43
50:DR:28:LEU:O	50:DR:29:LEU:C	2.57	0.43
50:DR:7:GLY:CA	50:DR:8:ARG:HH21	2.23	0.43
51:DS:26:LEU:HD23	51:DS:39:ILE:HG12	2.00	0.43
35:DA:1188:U:C4'	54:DV:79:VAL:HG22	2.47	0.43
58:DZ:105:VAL:O	58:DZ:105:VAL:HG13	2.18	0.43
58:DZ:146:ILE:HG13	58:DZ:147:GLY:N	2.26	0.43
1:AA:19:C:H2'	1:AA:20:U:H6	1.84	0.43
1:AA:227:G:O2'	1:AA:228:A:H5'	2.19	0.43
1:AA:393:A:C2	1:AA:394:G:C8	3.07	0.43
1:AA:418:C:H2'	1:AA:419:C:C6	2.52	0.43
1:AA:993:G:N3	1:AA:993:G:H2'	2.33	0.43
3:AC:156:ARG:CD	3:AC:194:GLY:HA3	2.48	0.43
3:AC:23:TYR:CG	3:AC:24:ALA:N	2.87	0.43
3:AC:47:LEU:HD21	3:AC:68:VAL:CG1	2.48	0.43
6:AF:45:LEU:HD23	6:AF:46:ARG:N	2.32	0.43
8:AH:119:LEU:HB2	8:AH:124:ALA:HB2	2.01	0.43
9:AI:40:LEU:C	9:AI:42:ARG:N	2.71	0.43
12:AL:48:PRO:C	12:AL:49:ASN:HD22	2.22	0.43
13:AM:80:ARG:HH22	19:AS:69:HIS:CE1	2.36	0.43
14:AN:39:LEU:HD13	14:AN:47:LEU:HD12	2.01	0.43
15:AO:65:ARG:NH1	15:AO:65:ARG:HG2	2.33	0.43
24:AY:251:VAL:HG11	24:AY:276:LEU:HD23	2.01	0.43
35:BA:1608:A:H1'	35:BA:1610:A:OP2	2.19	0.43
35:BA:1668:A:H4'	35:BA:1669:A:O5'	2.19	0.43
33:B8:33:ASN:O	35:BA:2420:C:P	2.76	0.43
35:BA:2564:A:OP1	35:BA:2648:C:H4'	2.19	0.43
35:BA:271(A):A:H1'	35:BA:365:C:O4'	2.19	0.43
35:BA:272(H):C:N4	35:BA:363(A):A:H61	2.17	0.43
35:BA:565:C:H2'	35:BA:566:U:O4'	2.19	0.43
35:BA:912:C:O2'	35:BA:913:U:H5'	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BB:105:A:H2'	36:BB:106:G:O4'	2.19	0.43
37:BC:28:ARG:HH11	37:BC:28:ARG:HB2	1.84	0.43
38:BD:24:ILE:CD1	38:BD:25:THR:N	2.80	0.43
39:BE:51:PHE:CE1	39:BE:52:LEU:HD22	2.53	0.43
40:BF:22:ALA:HB1	40:BF:26:ALA:CB	2.49	0.43
42:BH:24:VAL:CG1	42:BH:24:VAL:O	2.66	0.43
45:BK:88:ALA:HB3	45:BK:134:MET:O	2.19	0.43
35:BA:625:G:O6	48:BP:107:LYS:HD3	2.18	0.43
49:BQ:58:PHE:CD1	49:BQ:58:PHE:O	2.71	0.43
50:BR:44:LEU:HD12	50:BR:114:VAL:HG11	2.01	0.43
56:BX:34:ALA:HA	56:BX:38:GLU:OE1	2.19	0.43
57:BY:7:VAL:CB	57:BY:8:LYS:HZ1	2.32	0.43
58:BZ:135:GLU:O	58:BZ:137:ILE:N	2.52	0.43
1:CA:1475:G:OP1	35:DA:1689:A:H1'	2.18	0.43
1:CA:192:U:H4'	20:CT:57:ARG:HD2	2.01	0.43
1:CA:522:C:O2'	1:CA:523:A:H5'	2.18	0.43
1:CA:572:A:N3	1:CA:917:G:H1'	2.34	0.43
1:CA:9:G:O2'	1:CA:10:A:H5'	2.19	0.43
2:CB:43:ASP:O	2:CB:46:LYS:HB2	2.19	0.43
2:CB:96:ARG:O	2:CB:98:LEU:N	2.52	0.43
3:CC:82:GLU:CD	3:CC:82:GLU:H	2.21	0.43
3:CC:91:LEU:C	3:CC:93:LYS:N	2.71	0.43
6:CF:3:ARG:NH1	6:CF:38:GLU:OE1	2.51	0.43
7:CG:53:LYS:O	7:CG:54:THR:HB	2.19	0.43
8:CH:72:PRO:O	8:CH:73:ASP:HB3	2.19	0.43
1:CA:1152:A:OP1	10:CJ:68:HIS:CD2	2.71	0.43
10:CJ:3:LYS:N	10:CJ:74:ILE:O	2.51	0.43
10:CJ:49:VAL:HG23	14:CN:41:ARG:HD3	2.00	0.43
14:CN:4:LYS:C	14:CN:6:LEU:H	2.22	0.43
16:CP:3:LYS:C	16:CP:4:ILE:HD12	2.39	0.43
22:CV:29:G:H1	22:CV:41:C:H42	1.66	0.43
22:CW:21:A:N6	22:CW:46:G:C4	2.87	0.43
24:CY:283:LEU:C	24:CY:285:GLU:H	2.21	0.43
24:CY:341:LEU:HA	24:CY:344:LEU:HD21	2.01	0.43
24:CY:72:LEU:HD13	24:CY:91:LEU:CG	2.48	0.43
29:D4:15:ILE:HA	29:D4:21:VAL:HG22	2.01	0.43
29:D4:36:CYS:HB2	41:DG:108:ASN:O	2.19	0.43
33:D8:62:LEU:C	33:D8:64:TYR:N	2.72	0.43
35:DA:1231:G:H2'	35:DA:1232:G:H8	1.82	0.43
35:DA:1826:G:H2'	35:DA:1827:C:H6	1.84	0.43
35:DA:1914:C:H2'	35:DA:1915:U:H5'	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:D5:7:PRO:HA	35:DA:2615:U:C2	2.54	0.43
35:DA:887:A:H1'	35:DA:889:C:C4	2.52	0.43
35:DA:92:A:H3'	35:DA:93:G:C8	2.51	0.43
38:DD:9:TYR:CZ	38:DD:13:ARG:HD3	2.53	0.43
38:DD:181:GLU:OE2	38:DD:270:ILE:HG22	2.19	0.43
39:DE:144:ARG:HB3	39:DE:145:LYS:H	1.49	0.43
41:DG:46:ALA:HA	41:DG:53:LEU:HG	2.00	0.43
41:DG:55:LYS:HA	41:DG:58:GLN:NE2	2.34	0.43
42:DH:138:LYS:O	42:DH:139:GLN:C	2.55	0.43
42:DH:138:LYS:O	42:DH:141:VAL:N	2.52	0.43
42:DH:92:ILE:O	42:DH:94:TYR:N	2.51	0.43
44:DJ:86:UNK:O	44:DJ:87:UNK:CB	2.66	0.43
48:DP:71:VAL:HG12	48:DP:72:PRO:HD3	1.98	0.43
52:DT:28:VAL:HG11	52:DT:46:GLU:CD	2.38	0.43
47:DO:122:LEU:CD2	52:DT:43:GLN:NE2	2.81	0.43
54:DV:1:MET:HB3	54:DV:99:ILE:HG13	2.01	0.43
54:DV:6:LYS:HB3	54:DV:37:VAL:HG11	1.97	0.43
1:AA:1109:C:C2'	1:AA:1110:A:H5'	2.49	0.42
1:AA:1293:G:O2'	1:AA:1294:G:P	2.78	0.42
1:AA:1250:A:H61	1:AA:1354:C:H1'	1.84	0.42
1:AA:1353:G:O2'	1:AA:1354:C:H5'	2.19	0.42
1:AA:197:A:C6	1:AA:221:C:H5'	2.54	0.42
1:AA:253:U:H2'	1:AA:254:G:H8	1.84	0.42
1:AA:341:C:O2'	1:AA:342:C:H5'	2.19	0.42
1:AA:409:G:H5'	4:AD:25:ARG:HB2	1.99	0.42
2:AB:46:LYS:HE3	2:AB:46:LYS:CA	2.47	0.42
3:AC:148:GLY:HA2	3:AC:172:ARG:H	1.84	0.42
3:AC:138:VAL:CG2	3:AC:151:VAL:HG23	2.49	0.42
6:AF:37:VAL:HG12	6:AF:38:GLU:N	2.34	0.42
6:AF:5:GLU:HB3	6:AF:62:TRP:HE1	1.82	0.42
8:AH:29:SER:HB3	8:AH:32:LYS:HB2	2.01	0.42
8:AH:83:ILE:HG23	8:AH:83:ILE:O	2.19	0.42
16:AP:12:LYS:C	16:AP:14:ASN:H	2.23	0.42
16:AP:4:ILE:N	16:AP:4:ILE:HD12	2.34	0.42
21:AU:12:LYS:HB3	21:AU:22:ARG:HD2	2.01	0.42
22:AV:66:U:H2'	22:AV:67:C:H6	1.83	0.42
22:AW:47:U:O2'	22:AW:48:C:C5'	2.61	0.42
22:AW:53:G:C2	22:AW:62:C:C4	3.07	0.42
24:AY:336:VAL:HG13	24:AY:341:LEU:HD23	2.01	0.42
24:AY:38:LEU:HD21	24:AY:48:VAL:HG21	2.01	0.42
26:B1:66:HIS:O	26:B1:67:ILE:C	2.57	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:B2:56:GLN:O	27:B2:60:LEU:HG	2.19	0.42
35:BA:1888:G:N3	35:BA:1888:G:H5'	2.34	0.42
35:BA:2027:G:O2'	35:BA:2028:U:H5'	2.19	0.42
35:BA:2166:G:H2'	35:BA:2167:U:C6	2.54	0.42
35:BA:2179:C:O2	35:BA:2181:G:O6	2.37	0.42
35:BA:2593:U:H2'	35:BA:2594:C:C6	2.53	0.42
35:BA:271(J):C:H2'	35:BA:271(K):U:H5''	2.00	0.42
35:BA:272(G):C:N4	35:BA:363(C):G:H1	2.17	0.42
35:BA:442:G:O4'	40:BF:46:ARG:HG2	2.19	0.42
37:BC:180:SER:O	37:BC:181:PHE:C	2.57	0.42
35:BA:2132:U:H3	37:BC:6:LYS:HE2	1.84	0.42
38:BD:117:VAL:HG13	38:BD:128:GLY:O	2.19	0.42
38:BD:35:LYS:HZ1	38:BD:35:LYS:HB3	1.84	0.42
39:BE:14:ILE:CG1	39:BE:21:VAL:HG23	2.49	0.42
40:BF:206:ILE:HG22	40:BF:207:GLY:N	2.33	0.42
41:BG:162:THR:HG22	41:BG:162:THR:O	2.19	0.42
41:BG:5:VAL:H	41:BG:8:LYS:CD	2.32	0.42
42:BH:20:ALA:HB1	42:BH:21:PRO:HD2	2.01	0.42
43:BI:26:ALA:HA	43:BI:30:LEU:HB2	2.00	0.42
44:BJ:130:UNK:C	44:BJ:132:UNK:N	2.79	0.42
46:BN:74:ARG:NH2	46:BN:85:ILE:HD11	2.34	0.42
48:BP:23:PRO:CB	48:BP:33:ARG:HG3	2.49	0.42
35:BA:833:U:O2	48:BP:55:ARG:NH1	2.51	0.42
49:BQ:21:THR:HG21	49:BQ:101:ARG:CD	2.48	0.42
52:BT:48:ILE:HD12	52:BT:48:ILE:H	1.84	0.42
46:BN:40:PRO:HB3	53:BU:68:ALA:HB2	2.00	0.42
54:BV:19:LYS:HZ3	54:BV:20:LEU:HB2	1.84	0.42
56:BX:44:GLU:O	56:BX:48:LYS:HA	2.19	0.42
58:BZ:141:VAL:O	58:BZ:141:VAL:HG12	2.19	0.42
49:BQ:137:TYR:CZ	58:BZ:81:ARG:HD3	2.53	0.42
1:CA:1320:C:C4	1:CA:1321:C:C4	3.07	0.42
1:CA:1400:C:H6	1:CA:1400:C:O5'	2.01	0.42
1:CA:355:C:C4	1:CA:356:A:N7	2.87	0.42
2:CB:193:ASP:O	2:CB:193:ASP:OD2	2.37	0.42
3:CC:69:HIS:CD2	3:CC:69:HIS:N	2.85	0.42
4:CD:18:LYS:HG3	4:CD:31:CYS:HB3	2.00	0.42
4:CD:73:ARG:NH1	4:CD:73:ARG:HG2	2.34	0.42
7:CG:72:ARG:O	7:CG:91:VAL:HG23	2.18	0.42
8:CH:134:ILE:O	8:CH:135:CYS:HB3	2.18	0.42
9:CI:17:VAL:HG22	9:CI:81:ILE:CD1	2.49	0.42
11:CK:116:HIS:O	11:CK:117:ASN:HB2	2.17	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:CL:27:LEU:O	12:CL:28:LYS:HB3	2.19	0.42
1:CA:657:G:H4'	15:CO:28:GLN:HG2	2.01	0.42
18:CR:53:ARG:C	18:CR:55:ARG:N	2.72	0.42
21:CU:2:GLY:C	21:CU:4:GLY:N	2.71	0.42
24:CY:112:ALA:HA	24:CY:177:TYR:HB3	2.01	0.42
24:CY:27:LYS:HE3	24:CY:31:ARG:CZ	2.49	0.42
24:CY:304:PRO:O	24:CY:305:ILE:HB	2.19	0.42
26:D1:3:LYS:HG2	26:D1:4:VAL:HG12	2.01	0.42
31:D6:25:LYS:HZ1	35:DA:2284:C:N4	2.17	0.42
35:DA:1042:G:C2	35:DA:1043:C:H1'	2.54	0.42
32:D7:9:ARG:NH2	35:DA:1310:G:OP2	2.48	0.42
35:DA:1668:A:H4'	35:DA:1669:A:O5'	2.19	0.42
35:DA:1794:U:H2'	35:DA:1795:C:C6	2.54	0.42
35:DA:225:A:N6	35:DA:226:G:C2	2.87	0.42
35:DA:2473:U:C5	35:DA:2474:C:C6	3.07	0.42
35:DA:2533:A:C2'	35:DA:2534:A:H5'	2.49	0.42
35:DA:580:C:H2'	35:DA:581:C:C6	2.54	0.42
38:DD:23:GLU:O	38:DD:24:ILE:C	2.57	0.42
38:DD:83:GLU:OE1	38:DD:104:TYR:CE2	2.72	0.42
46:DN:118:LYS:O	46:DN:121:LYS:HE3	2.19	0.42
48:DP:18:ARG:CB	48:DP:18:ARG:NH1	2.74	0.42
49:DQ:55:VAL:CG2	49:DQ:56:ARG:N	2.80	0.42
1:AA:1281:U:H5'	1:AA:1282:C:H5	1.84	0.42
1:AA:353:A:H2'	1:AA:354:G:OP2	2.19	0.42
1:AA:522:C:O2'	1:AA:523:A:H5'	2.19	0.42
1:AA:52:G:O2'	1:AA:53:A:H5'	2.20	0.42
1:AA:542:G:H2'	1:AA:543:C:H6	1.83	0.42
2:AB:41:ILE:HD12	2:AB:41:ILE:N	2.34	0.42
2:AB:97:TRP:CH2	2:AB:176:GLU:OE2	2.72	0.42
4:AD:10:ARG:HG2	4:AD:10:ARG:O	2.18	0.42
4:AD:145:GLU:HG2	4:AD:184:LYS:NZ	2.34	0.42
5:AE:110:LEU:CD2	5:AE:139:LEU:HD21	2.49	0.42
6:AF:78:GLU:OE2	6:AF:78:GLU:HA	2.19	0.42
7:AG:139:GLU:O	7:AG:143:ARG:N	2.50	0.42
9:AI:99:LEU:HB3	9:AI:101:PHE:CE1	2.54	0.42
11:AK:88:GLY:C	11:AK:90:GLY:H	2.23	0.42
12:AL:7:ILE:HD12	12:AL:7:ILE:HA	1.94	0.42
16:AP:20:VAL:HG21	16:AP:32:TYR:CB	2.49	0.42
19:AS:22:LEU:CD1	19:AS:27:GLU:HB2	2.48	0.42
20:AT:73:HIS:O	20:AT:76:ALA:HB3	2.18	0.42
24:AY:290:LYS:HB2	24:AY:294:GLU:OE1	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:B1:77:ALA:O	26:B1:78:LYS:C	2.57	0.42
27:B2:4:SER:O	27:B2:7:ARG:CG	2.68	0.42
30:B5:36:CYS:SG	30:B5:38:ALA:HB3	2.59	0.42
30:B5:51:TYR:CD2	30:B5:52:TYR:OH	2.71	0.42
33:B8:32:LEU:CB	33:B8:36:LYS:HZ2	2.32	0.42
34:B9:4:ARG:HD2	34:B9:34:GLN:HE21	1.84	0.42
35:BA:1499:C:C2'	35:BA:1500:G:H5'	2.49	0.42
35:BA:1349:A:N6	35:BA:1598:C:N4	2.66	0.42
35:BA:1861:G:O2'	35:BA:1862:G:H5'	2.19	0.42
35:BA:2291:U:OP1	35:BA:2381:C:H5'	2.19	0.42
35:BA:2302:G:O2'	41:BG:128:ARG:HG2	2.19	0.42
35:BA:2340:G:O2'	35:BA:2341:G:H5'	2.19	0.42
35:BA:234:C:H2'	35:BA:235:U:C6	2.55	0.42
35:BA:2713:A:H3'	35:BA:2714:G:C5'	2.49	0.42
35:BA:286:C:H2'	35:BA:287:C:H6	1.83	0.42
35:BA:80:G:C2'	35:BA:81:G:H5'	2.49	0.42
35:BA:898:C:O2'	35:BA:899:A:H5'	2.19	0.42
35:BA:898:C:H2'	35:BA:899:A:H5'	2.00	0.42
37:BC:193:PHE:O	37:BC:197:LEU:HG	2.19	0.42
37:BC:226:ASN:C	37:BC:228:HIS:H	2.21	0.42
37:BC:49:GLY:HA3	37:BC:211:ARG:HH12	1.85	0.42
38:BD:28:GLU:HB2	38:BD:29:PRO:CD	2.48	0.42
39:BE:61:ARG:HB3	39:BE:62:PRO:CD	2.49	0.42
40:BF:83:PHE:O	40:BF:84:VAL:HB	2.19	0.42
41:BG:167:GLU:C	41:BG:169:ALA:N	2.70	0.42
41:BG:38:VAL:HG12	41:BG:39:ILE:N	2.34	0.42
42:BH:147:ASN:O	42:BH:150:ALA:HB3	2.19	0.42
42:BH:37:VAL:CG1	42:BH:38:SER:N	2.82	0.42
43:BI:130:TYR:O	43:BI:131:LYS:CG	2.67	0.42
43:BI:40:THR:C	43:BI:42:SER:H	2.22	0.42
45:BK:110:GLN:HE21	45:BK:110:GLN:HB3	1.57	0.42
45:BK:54:PRO:HD3	45:BK:72:PRO:HA	2.01	0.42
46:BN:134:ARG:H	46:BN:135:PRO:HD3	1.84	0.42
48:BP:125:VAL:CG2	48:BP:125:VAL:O	2.68	0.42
48:BP:25:SER:C	48:BP:30:THR:HG23	2.39	0.42
48:BP:41:ARG:HA	48:BP:41:ARG:HE	1.83	0.42
49:BQ:109:VAL:HG13	49:BQ:113:GLN:OE1	2.19	0.42
57:BY:7:VAL:CB	57:BY:8:LYS:NZ	2.82	0.42
58:BZ:42:VAL:HG22	58:BZ:43:GLU:N	2.33	0.42
1:CA:560:U:H5'	1:CA:566:G:N2	2.34	0.42
2:CB:43:ASP:OD2	2:CB:46:LYS:HD2	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CC:206:GLU:O	3:CC:207:VAL:C	2.57	0.42
3:CC:58:GLU:O	3:CC:59:ARG:CG	2.67	0.42
3:CC:71:ALA:HA	3:CC:106:VAL:H	1.83	0.42
5:CE:41:VAL:HG21	5:CE:113:ALA:CB	2.49	0.42
6:CF:30:LEU:CD2	6:CF:30:LEU:H	2.04	0.42
6:CF:3:ARG:NH1	6:CF:3:ARG:HG3	2.30	0.42
6:CF:5:GLU:HB3	6:CF:62:TRP:HE1	1.84	0.42
7:CG:67:GLU:HA	7:CG:67:GLU:OE2	2.18	0.42
8:CH:1:MET:O	8:CH:2:LEU:O	2.36	0.42
1:CA:1249:C:H4'	9:CI:36:TYR:OH	2.18	0.42
10:CJ:23:ILE:HG23	10:CJ:85:LEU:HD22	2.00	0.42
10:CJ:88:LEU:O	10:CJ:88:LEU:HG	2.20	0.42
1:CA:692:U:C5	11:CK:26:ASN:ND2	2.87	0.42
13:CM:100:GLY:C	13:CM:101:GLN:HG3	2.40	0.42
14:CN:39:LEU:CD1	14:CN:47:LEU:HD12	2.49	0.42
20:CT:13:LEU:O	20:CT:17:ARG:HG3	2.18	0.42
1:CA:186:C:H4'	20:CT:82:SER:HB3	2.00	0.42
25:D0:36:ILE:C	25:D0:36:ILE:HD12	2.40	0.42
27:D2:43:GLN:O	27:D2:44:LEU:C	2.58	0.42
28:D3:40:THR:O	28:D3:44:ARG:HG3	2.19	0.42
30:D5:51:TYR:HD2	30:D5:52:TYR:CE1	2.36	0.42
34:D9:17:ILE:HG21	34:D9:19:ARG:HE	1.83	0.42
35:DA:1088:A:H2'	35:DA:1088:A:N3	2.33	0.42
35:DA:1354:A:H2'	35:DA:1355:G:O4'	2.18	0.42
35:DA:680:G:H2'	35:DA:681:G:C8	2.54	0.42
37:DC:204:GLY:O	37:DC:206:LYS:N	2.52	0.42
38:DD:158:ALA:HB3	38:DD:161:THR:CG2	2.49	0.42
39:DE:51:PHE:C	39:DE:74:PRO:HB3	2.40	0.42
39:DE:54:GLN:O	39:DE:75:VAL:HG23	2.19	0.42
41:DG:109:VAL:C	41:DG:112:PRO:HD2	2.38	0.42
44:DJ:10:UNK:C	44:DJ:12:UNK:N	2.81	0.42
46:DN:51:PHE:CZ	46:DN:119:ARG:HD2	2.54	0.42
48:DP:108:LYS:C	48:DP:110:TYR:N	2.72	0.42
51:DS:12:PHE:O	51:DS:13:ARG:C	2.57	0.42
54:DV:18:LEU:CG	54:DV:19:LYS:N	2.82	0.42
58:DZ:103:ARG:HB2	58:DZ:136:PHE:HB2	2.00	0.42
1:AA:1055:A:H2	3:AC:194:GLY:CA	2.31	0.42
1:AA:1250:A:C2	1:AA:1370:G:H1'	2.54	0.42
1:AA:1505:G:H4'	1:AA:1506:U:C5'	2.48	0.42
1:AA:188:C:H2'	1:AA:189:G:H8	1.85	0.42
1:AA:693:G:H2'	1:AA:694:A:O4'	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:745:C:H1'	1:AA:836:G:O2'	2.19	0.42
2:AB:98:LEU:HB2	2:AB:101:MET:CE	2.50	0.42
2:AB:168:THR:O	2:AB:171:ALA:N	2.53	0.42
3:AC:83:ARG:C	3:AC:85:ARG:N	2.72	0.42
5:AE:57:LYS:HA	5:AE:60:TYR:HB3	2.00	0.42
7:AG:92:SER:O	7:AG:93:PRO:C	2.57	0.42
7:AG:9:VAL:O	7:AG:10:ARG:C	2.57	0.42
9:AI:81:ILE:HG22	9:AI:81:ILE:O	2.18	0.42
10:AJ:49:VAL:CG2	10:AJ:50:ILE:N	2.82	0.42
10:AJ:50:ILE:HD11	14:AN:41:ARG:HH11	1.83	0.42
3:AC:29:TYR:CE1	10:AJ:65:LEU:HD21	2.54	0.42
12:AL:47:LYS:C	12:AL:49:ASN:H	2.21	0.42
19:AS:21:GLU:HG3	19:AS:22:LEU:HD22	2.01	0.42
20:AT:42:GLN:NE2	20:AT:42:GLN:HA	2.34	0.42
24:AY:177:TYR:CZ	24:AY:212:PRO:HD3	2.54	0.42
24:AY:319:ASN:HA	24:AY:333:PRO:HG3	2.01	0.42
27:B2:33:MET:O	27:B2:36:ARG:HB2	2.18	0.42
33:B8:62:LEU:O	33:B8:64:TYR:N	2.52	0.42
35:BA:1499:C:H2'	35:BA:1500:G:H5'	2.01	0.42
35:BA:1525:G:H2'	35:BA:1526:G:C8	2.54	0.42
35:BA:1996:C:H4'	35:BA:1997:G:OP1	2.19	0.42
35:BA:2320:A:C2	35:BA:2333:A:C8	3.07	0.42
35:BA:2709:G:O2'	35:BA:2710:C:H5'	2.19	0.42
30:B5:43:HIS:HD2	35:BA:2815:C:O2'	1.99	0.42
35:BA:654(U):A:H5''	35:BA:654(V):A:OP2	2.18	0.42
35:BA:874:G:H5'	58:BZ:118:GLN:HE22	1.84	0.42
38:BD:107:ALA:O	38:BD:196:VAL:O	2.37	0.42
38:BD:230:ASP:O	38:BD:231:HIS:HB2	2.18	0.42
39:BE:167:VAL:CG1	39:BE:189:PRO:HD3	2.49	0.42
42:BH:138:LYS:C	42:BH:140:LYS:N	2.66	0.42
45:BK:104:VAL:O	45:BK:104:VAL:HG12	2.18	0.42
46:BN:21:LYS:HD3	46:BN:26:LEU:HB2	2.00	0.42
49:BQ:109:VAL:CG1	49:BQ:113:GLN:CB	2.95	0.42
49:BQ:59:ARG:O	49:BQ:59:ARG:HD3	2.19	0.42
50:BR:9:LYS:HE3	50:BR:9:LYS:HB2	1.83	0.42
52:BT:129:ARG:CG	52:BT:129:ARG:O	2.65	0.42
52:BT:76:PHE:HA	52:BT:77:PRO:HD3	1.74	0.42
54:BV:39:LEU:O	54:BV:40:LEU:HB3	2.19	0.42
58:BZ:6:LYS:NZ	58:BZ:6:LYS:HB2	2.35	0.42
1:CA:148:G:H1	1:CA:174:C:H42	1.66	0.42
1:CA:188:C:H2'	1:CA:189:G:H8	1.85	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:197:A:C6	1:CA:221:C:H5'	2.54	0.42
1:CA:321:A:H62	1:CA:328:C:HO2'	1.64	0.42
1:CA:424:G:O2'	1:CA:425:G:H5'	2.20	0.42
1:CA:745:C:H1'	1:CA:836:G:O2'	2.19	0.42
1:CA:805:C:O2'	1:CA:806:C:H5'	2.19	0.42
4:CD:104:VAL:O	4:CD:104:VAL:HG12	2.19	0.42
4:CD:175:SER:CB	4:CD:186:LEU:HD11	2.44	0.42
4:CD:3:ARG:O	4:CD:4:TYR:C	2.58	0.42
5:CE:40:ARG:HG2	5:CE:40:ARG:NH1	2.31	0.42
4:CD:88:VAL:HG13	5:CE:97:GLY:CA	2.49	0.42
9:CI:118:LYS:CB	9:CI:118:LYS:HZ2	2.32	0.42
10:CJ:8:LEU:HD23	10:CJ:96:ILE:HG21	2.00	0.42
11:CK:44:SER:H	11:CK:47:VAL:CG2	2.32	0.42
12:CL:22:SER:C	12:CL:24:VAL:N	2.72	0.42
13:CM:58:GLU:O	13:CM:60:VAL:N	2.52	0.42
19:CS:12:ASP:HB3	19:CS:14:HIS:CE1	2.54	0.42
19:CS:21:GLU:HG3	19:CS:22:LEU:HD22	2.02	0.42
19:CS:64:GLU:O	19:CS:65:ASN:C	2.58	0.42
22:CV:19:G:H21	41:DG:78:SER:HB2	1.85	0.42
22:CW:49:C:H2'	22:CW:50:U:H5'	2.00	0.42
26:D1:20:ARG:HA	26:D1:33:LYS:O	2.19	0.42
27:D2:59:ARG:HD3	35:DA:76:C:O3'	2.19	0.42
35:DA:1040:C:O2'	35:DA:1041:C:P	2.77	0.42
35:DA:1042:G:H1'	35:DA:1114:G:N2	2.34	0.42
35:DA:1153:C:H2'	35:DA:1154:G:O4'	2.19	0.42
35:DA:1861:G:O2'	35:DA:1862:G:H5'	2.19	0.42
35:DA:2313:C:H2'	35:DA:2314:C:H6	1.84	0.42
35:DA:2364:C:H2'	35:DA:2365:G:O4'	2.19	0.42
35:DA:2476:A:C2	35:DA:2477:C:H6	2.35	0.42
35:DA:2567:G:H2'	35:DA:2568:C:C6	2.55	0.42
35:DA:2734:A:H5'	35:DA:2735:G:OP2	2.20	0.42
35:DA:2762:G:H2'	35:DA:2763:G:C5'	2.49	0.42
35:DA:223:A:O2'	35:DA:420:C:O2	2.37	0.42
35:DA:438:G:O2'	35:DA:440:G:H5'	2.19	0.42
36:DB:90:A:N7	36:DB:91:C:H1'	2.34	0.42
38:DD:211:ARG:O	38:DD:215:LEU:HG	2.19	0.42
38:DD:24:ILE:C	38:DD:24:ILE:HD13	2.39	0.42
42:DH:143:GLN:HE21	42:DH:143:GLN:C	2.22	0.42
46:DN:4:TYR:OH	53:DU:61:TRP:NE1	2.39	0.42
49:DQ:21:THR:O	49:DQ:22:LYS:CB	2.63	0.42
50:DR:9:LYS:HB3	50:DR:43:GLU:CD	2.39	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
51:DS:46:VAL:HG12	51:DS:47:THR:N	2.35	0.42
52:DT:57:PHE:C	52:DT:58:ASN:HD22	2.22	0.42
52:DT:91:ARG:O	52:DT:93:ARG:N	2.52	0.42
57:DY:10:GLY:O	57:DY:27:VAL:HG22	2.18	0.42
58:DZ:143:GLY:O	58:DZ:144:LEU:HD22	2.19	0.42
58:DZ:165:VAL:CG1	58:DZ:168:GLU:H	2.32	0.42
1:AA:1357:A:N6	1:AA:1363(A):A:H2	2.17	0.42
1:AA:448:A:P	1:AA:485:G:H22	2.43	0.42
1:AA:759:A:H2'	1:AA:760:G:H5'	2.01	0.42
2:AB:187:LEU:HA	2:AB:201:ILE:O	2.18	0.42
4:AD:206:PHE:CD2	4:AD:207:TYR:CE2	3.08	0.42
8:AH:72:PRO:O	8:AH:73:ASP:HB3	2.19	0.42
9:AI:63:ILE:HD13	9:AI:77:ILE:CG2	2.49	0.42
13:AM:48:LEU:HG	13:AM:53:VAL:CG2	2.50	0.42
13:AM:88:ARG:HH11	13:AM:88:ARG:HG2	1.84	0.42
16:AP:82:GLN:OE1	16:AP:82:GLN:N	2.45	0.42
18:AR:66:LEU:O	18:AR:70:ILE:HG13	2.18	0.42
24:AY:118:LEU:HD23	24:AY:210:VAL:HG22	2.00	0.42
24:AY:30:GLU:HA	24:AY:33:LEU:CD1	2.49	0.42
24:AY:312:ARG:CZ	24:AY:312:ARG:HB2	2.49	0.42
35:BA:1403:C:H5''	35:BA:1471:A:C1'	2.40	0.42
35:BA:1515:G:H2'	35:BA:1516:C:C6	2.54	0.42
35:BA:152:G:H2'	35:BA:153:C:C6	2.55	0.42
35:BA:2125:G:H21	35:BA:2173:A:H62	1.68	0.42
35:BA:648:G:O4'	35:BA:2351:G:H5''	2.19	0.42
35:BA:2768:C:C2'	35:BA:2769:C:H5'	2.50	0.42
35:BA:389:G:H1	48:BP:71:VAL:HG12	1.84	0.42
33:B8:4:MET:HE2	35:BA:593:G:O4'	2.18	0.42
35:BA:654(U):A:N7	35:BA:654(V):A:N6	2.68	0.42
38:BD:166:GLN:HA	38:BD:166:GLN:NE2	2.34	0.42
38:BD:33:LEU:HD23	38:BD:33:LEU:C	2.39	0.42
39:BE:39:PRO:HA	39:BE:43:GLY:CA	2.50	0.42
40:BF:187:VAL:CG1	40:BF:187:VAL:O	2.67	0.42
41:BG:107:LEU:HA	41:BG:111:LEU:CD1	2.49	0.42
41:BG:111:LEU:HA	41:BG:114:ILE:HD11	1.98	0.42
43:BI:41:GLU:HA	43:BI:44:LEU:CB	2.50	0.42
45:BK:135:GLY:O	45:BK:136:VAL:C	2.57	0.42
49:BQ:21:THR:CG2	49:BQ:101:ARG:HD3	2.49	0.42
52:BT:91:ARG:HG2	52:BT:116:ALA:HA	2.01	0.42
53:BU:91:ASP:O	53:BU:92:ARG:C	2.57	0.42
54:BV:1:MET:HA	54:BV:1:MET:CE	2.49	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
53:BU:88:ILE:CG2	54:BV:47:VAL:HG23	2.43	0.42
35:BA:1188:U:C4'	54:BV:79:VAL:HG22	2.47	0.42
54:BV:21:ARG:HG2	54:BV:91:TYR:CG	2.55	0.42
1:CA:1055:A:H2	3:CC:194:GLY:CA	2.32	0.42
1:CA:1442(B):A:H2'	52:DT:118:ARG:HH12	1.80	0.42
1:CA:343:U:O2'	1:CA:344:A:H2'	2.19	0.42
1:CA:676:A:O2'	1:CA:677:U:H5'	2.20	0.42
1:CA:22:G:H4'	1:CA:885:G:C8	2.54	0.42
2:CB:213:LEU:C	2:CB:213:LEU:HD23	2.40	0.42
2:CB:47:THR:O	2:CB:50:GLU:HB2	2.20	0.42
4:CD:171:GLY:HA2	4:CD:172:PRO:HD3	1.84	0.42
4:CD:46:LYS:O	4:CD:47:ARG:C	2.58	0.42
5:CE:139:LEU:C	5:CE:141:GLN:H	2.21	0.42
9:CI:8:GLY:O	9:CI:14:VAL:HG13	2.19	0.42
13:CM:58:GLU:C	13:CM:60:VAL:N	2.72	0.42
16:CP:12:LYS:C	16:CP:14:ASN:H	2.22	0.42
24:CY:345:ILE:O	24:CY:348:GLY:N	2.52	0.42
25:D0:51:VAL:HG22	25:D0:81:VAL:HG23	1.99	0.42
26:D1:53:VAL:HG22	26:D1:74:VAL:HG13	2.00	0.42
27:D2:8:LYS:O	27:D2:9:GLN:C	2.58	0.42
29:D4:31:ILE:HG22	29:D4:32:TYR:N	2.34	0.42
32:D7:13:ALA:O	32:D7:17:GLY:HA3	2.19	0.42
34:D9:18:ARG:NE	35:DA:1034:G:H5'	2.34	0.42
35:DA:1021:A:OP2	46:DN:65:LYS:NZ	2.50	0.42
35:DA:1480:G:C6	35:DA:1481:U:N3	2.88	0.42
35:DA:150:C:H2'	35:DA:151:C:C6	2.52	0.42
35:DA:1784:A:H4'	35:DA:1785:A:O5'	2.19	0.42
35:DA:1917:U:O2'	35:DA:1918:A:H5'	2.19	0.42
35:DA:654(U):A:H5''	35:DA:654(V):A:OP2	2.18	0.42
35:DA:719:C:H2'	35:DA:720:C:H6	1.84	0.42
35:DA:962:G:C2'	35:DA:963:U:H5'	2.48	0.42
35:DA:963:U:H2'	35:DA:964:C:C6	2.55	0.42
36:DB:86:G:O2'	36:DB:87:G:H5'	2.20	0.42
35:DA:2124:G:H5''	37:DC:175:PRO:HG3	2.00	0.42
37:DC:28:ARG:HB2	37:DC:28:ARG:HH11	1.84	0.42
37:DC:57:GLN:HG3	37:DC:202:PRO:HB2	2.01	0.42
38:DD:33:LEU:HD23	38:DD:33:LEU:C	2.40	0.42
38:DD:52:ARG:HB2	38:DD:53:PHE:CD2	2.55	0.42
38:DD:35:LYS:CG	38:DD:63:ARG:HD2	2.42	0.42
39:DE:37:ARG:O	39:DE:45:THR:HA	2.19	0.42
40:DF:206:ILE:HG22	40:DF:207:GLY:N	2.35	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:DG:6:ALA:HB3	41:DG:104:GLU:OE2	2.20	0.42
43:DI:112:LYS:CD	43:DI:112:LYS:H	2.04	0.42
43:DI:40:THR:HG23	43:DI:43:ASN:ND2	2.34	0.42
43:DI:88:ILE:HD11	43:DI:122:GLU:O	2.18	0.42
44:DJ:16:UNK:O	44:DJ:17:UNK:CB	2.68	0.42
33:D8:59:LYS:CD	48:DP:50:ARG:HB3	2.46	0.42
50:DR:59:ASP:OD2	50:DR:59:ASP:N	2.51	0.42
52:DT:125:ARG:O	52:DT:128:GLU:CG	2.65	0.42
54:DV:38:LEU:O	54:DV:51:VAL:HG13	2.20	0.42
55:DW:18:ARG:CG	55:DW:76:VAL:CG1	2.95	0.42
58:DZ:165:VAL:CG1	58:DZ:169:GLU:H	2.33	0.42
1:AA:151:A:C2'	1:AA:152:A:H5'	2.50	0.42
1:AA:1527:C:O5'	1:AA:1527:C:H6	2.02	0.42
1:AA:343:U:O2'	1:AA:344:A:H2'	2.19	0.42
1:AA:59:A:N3	1:AA:59:A:H2'	2.35	0.42
1:AA:617:G:H1	1:AA:623:C:H42	1.66	0.42
1:AA:705:U:C5	1:AA:706:A:C5	3.07	0.42
1:AA:836:G:C6	1:AA:851:G:C6	3.07	0.42
1:AA:955:U:H2'	1:AA:956:U:O4'	2.20	0.42
2:AB:112:VAL:C	2:AB:114:ARG:N	2.71	0.42
2:AB:43:ASP:OD2	2:AB:46:LYS:HD2	2.19	0.42
2:AB:58:ILE:O	2:AB:62:ALA:N	2.50	0.42
2:AB:95:GLN:NE2	2:AB:147:LYS:CE	2.83	0.42
4:AD:88:VAL:HG13	5:AE:97:GLY:CA	2.50	0.42
6:AF:3:ARG:NH1	6:AF:38:GLU:OE1	2.53	0.42
1:AA:1346:A:H5''	9:AI:120:ARG:HH12	1.84	0.42
1:AA:973:G:C1'	10:AJ:55:LYS:HE2	2.48	0.42
11:AK:126:ARG:O	11:AK:127:LYS:C	2.58	0.42
12:AL:27:LEU:C	12:AL:29:GLY:N	2.73	0.42
12:AL:54:LYS:HD2	12:AL:54:LYS:N	2.34	0.42
19:AS:29:ARG:HD3	19:AS:30:LEU:H	1.79	0.42
20:AT:13:LEU:O	20:AT:17:ARG:HG3	2.20	0.42
26:B1:77:ALA:O	26:B1:79:GLY:N	2.53	0.42
34:B9:17:ILE:CG2	34:B9:18:ARG:N	2.82	0.42
35:BA:1053:C:H2'	35:BA:1054:A:C8	2.54	0.42
35:BA:2052:G:O4'	39:BE:142:GLY:HA3	2.19	0.42
35:BA:2161:C:H2'	35:BA:2162:G:C8	2.50	0.42
35:BA:2267:A:H5''	35:BA:2268:A:C5'	2.49	0.42
35:BA:2287:A:N6	35:BA:2344:U:N3	2.58	0.42
35:BA:2307:G:H5''	35:BA:2307:G:N3	2.35	0.42
35:BA:231:C:O2'	35:BA:232:G:H5'	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:2465:C:O2'	35:BA:2466:C:H5'	2.20	0.42
24:AY:243:ASN:O	35:BA:2573:C:N4	2.53	0.42
35:BA:2789:C:H1'	35:BA:2892:A:C2	2.51	0.42
35:BA:491:G:H2'	35:BA:492:A:H8	1.84	0.42
35:BA:605:C:H1'	35:BA:657:U:O2'	2.20	0.42
35:BA:717:G:H2'	35:BA:718:A:O4'	2.18	0.42
35:BA:776:G:H4'	35:BA:777:A:O5'	2.19	0.42
35:BA:876:C:H2'	35:BA:877:U:O4'	2.20	0.42
36:BB:87:G:H2'	36:BB:88:C:H5''	2.01	0.42
37:BC:42:VAL:HA	37:BC:217:THR:HA	2.00	0.42
38:BD:121:PRO:HB3	38:BD:135:PHE:CE1	2.55	0.42
39:BE:52:LEU:C	39:BE:74:PRO:HB3	2.40	0.42
36:BB:42:C:O2'	41:BG:66:GLN:HG2	2.19	0.42
42:BH:20:ALA:HB1	42:BH:21:PRO:CD	2.49	0.42
43:BI:4:ILE:HD11	43:BI:44:LEU:CD1	2.49	0.42
45:BK:95:LYS:H	45:BK:95:LYS:HD2	1.82	0.42
45:BK:99:ILE:HG23	45:BK:103:GLN:CG	2.50	0.42
46:BN:133:GLN:O	46:BN:134:ARG:HB3	2.19	0.42
46:BN:17:ASP:C	46:BN:19:GLU:H	2.22	0.42
40:BF:34:TRP:CZ2	48:BP:12:ALA:HB2	2.55	0.42
50:BR:9:LYS:HB3	50:BR:43:GLU:CD	2.40	0.42
51:BS:54:LEU:HD13	51:BS:58:LEU:H	1.84	0.42
56:BX:8:ILE:H	56:BX:8:ILE:CD1	2.32	0.42
1:CA:1457:G:H2'	1:CA:1458:G:C8	2.53	0.42
1:CA:353:A:H2'	1:CA:354:G:OP2	2.20	0.42
3:CC:182:ILE:HG12	3:CC:203:PHE:HD1	1.84	0.42
4:CD:73:ARG:HH11	4:CD:73:ARG:HG2	1.83	0.42
7:CG:14:PRO:HG3	7:CG:21:VAL:CG1	2.50	0.42
8:CH:122:ARG:NH1	8:CH:122:ARG:HB2	2.35	0.42
10:CJ:84:GLN:O	10:CJ:88:LEU:N	2.47	0.42
10:CJ:95:GLU:OE2	10:CJ:95:GLU:HA	2.19	0.42
13:CM:68:GLY:O	13:CM:69:GLU:HB2	2.19	0.42
13:CM:81:LEU:HB3	13:CM:89:GLY:HA2	2.01	0.42
6:CF:50:TYR:CE1	18:CR:77:GLY:HA2	2.54	0.42
19:CS:22:LEU:CD1	19:CS:27:GLU:HB2	2.49	0.42
24:CY:137:LEU:HD12	24:CY:167:ALA:CB	2.49	0.42
24:CY:72:LEU:HG	24:CY:76:MET:CE	2.49	0.42
24:CY:81:ALA:CB	24:CY:84:ARG:NE	2.78	0.42
25:D0:23:VAL:HA	25:D0:38:VAL:HG22	2.01	0.42
27:D2:43:GLN:HG3	27:D2:44:LEU:N	2.35	0.42
29:D4:12:ALA:HA	29:D4:29:PRO:HB3	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D4:36:CYS:O	29:D4:38:LYS:N	2.50	0.42
34:D9:24:TYR:CE2	34:D9:35:ARG:HG3	2.54	0.42
26:D1:41:ARG:NH1	35:DA:1365:A:OP1	2.51	0.42
35:DA:1494:A:O2'	35:DA:1496:A:H2	2.03	0.42
35:DA:152:G:H1	35:DA:174:C:N4	2.10	0.42
35:DA:1541:G:H4'	35:DA:1542:A:O5'	2.19	0.42
35:DA:1654:A:OP2	50:DR:3:HIS:HB3	2.19	0.42
35:DA:1719:G:C6	35:DA:1720:U:C4	3.08	0.42
35:DA:2126:A:O2'	35:DA:2127:G:OP2	2.34	0.42
35:DA:2298:A:H62	35:DA:2318:G:H8	1.66	0.42
35:DA:412:A:H2'	35:DA:413:C:H5'	2.00	0.42
35:DA:589:C:O3'	40:DF:95:ARG:NH1	2.53	0.42
35:DA:649:G:H2'	35:DA:650:C:C6	2.54	0.42
35:DA:754:C:H2'	35:DA:755:C:C6	2.55	0.42
35:DA:80:G:C2'	35:DA:81:G:H5'	2.49	0.42
35:DA:880:G:C2	35:DA:881:G:C8	3.07	0.42
35:DA:941:A:H4'	48:DP:35:HIS:CE1	2.54	0.42
38:DD:102:LYS:C	38:DD:103:ARG:HG2	2.39	0.42
39:DE:55:ASN:O	39:DE:57:LYS:N	2.50	0.42
39:DE:87:GLU:C	39:DE:89:ASP:N	2.72	0.42
40:DF:140:LEU:HD12	40:DF:140:LEU:HA	1.81	0.42
41:DG:23:PHE:N	41:DG:23:PHE:CD1	2.87	0.42
41:DG:49:ASP:C	41:DG:51:ARG:N	2.73	0.42
41:DG:53:LEU:HD13	41:DG:53:LEU:HA	1.84	0.42
42:DH:13:LYS:O	42:DH:15:VAL:HG22	2.18	0.42
46:DN:46:VAL:HG13	46:DN:48:MET:HG3	2.01	0.42
47:DO:35:VAL:HA	47:DO:62:VAL:HG12	2.01	0.42
47:DO:71:ARG:HG3	47:DO:71:ARG:HH11	1.84	0.42
48:DP:146:VAL:O	48:DP:148:LEU:N	2.52	0.42
48:DP:16:ARG:NH2	48:DP:18:ARG:HG2	2.34	0.42
48:DP:18:ARG:O	48:DP:20:GLY:N	2.53	0.42
49:DQ:42:ILE:N	49:DQ:42:ILE:CD1	2.83	0.42
53:DU:57:PHE:O	53:DU:58:ARG:C	2.58	0.42
53:DU:97:ASP:OD1	53:DU:97:ASP:C	2.58	0.42
54:DV:19:LYS:CG	54:DV:20:LEU:N	2.82	0.42
1:AA:1109:C:H2'	1:AA:1110:A:O4'	2.19	0.42
1:AA:149:A:O2'	1:AA:150:C:P	2.78	0.42
1:AA:216:G:C2	1:AA:217:C:N3	2.87	0.42
1:AA:376:G:P	16:AP:67:THR:HG21	2.60	0.42
1:AA:715:A:H2'	1:AA:716:A:C8	2.55	0.42
2:AB:50:GLU:OE1	2:AB:200:ILE:HB	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AC:173:VAL:N	3:AC:174:PRO:HD3	2.34	0.42
3:AC:141:VAL:HG11	3:AC:202:ILE:HG23	2.01	0.42
4:AD:128:VAL:CG1	4:AD:129:ASN:ND2	2.82	0.42
5:AE:93:PRO:CG	8:AH:105:ARG:HH21	2.27	0.42
8:AH:122:ARG:NH1	8:AH:122:ARG:HB2	2.35	0.42
8:AH:63:LEU:N	8:AH:63:LEU:HD22	2.35	0.42
10:AJ:45:ARG:HB3	10:AJ:65:LEU:HB3	2.01	0.42
10:AJ:58:ASP:O	10:AJ:60:ARG:N	2.52	0.42
11:AK:124:LYS:NZ	11:AK:124:LYS:CB	2.83	0.42
12:AL:82:VAL:O	12:AL:83:VAL:HG23	2.19	0.42
17:AQ:7:THR:HA	17:AQ:57:VAL:O	2.19	0.42
24:AY:260:VAL:HG11	24:AY:278:ILE:HB	2.02	0.42
31:B6:15:GLU:HG2	31:B6:18:ARG:CZ	2.50	0.42
35:BA:1049:C:H2'	35:BA:1050:A:C8	2.50	0.42
35:BA:1547:C:H2'	35:BA:1548:C:H6	1.84	0.42
35:BA:2008:C:H2'	35:BA:2009:G:H8	1.84	0.42
35:BA:2126:A:O2'	35:BA:2127:G:OP2	2.32	0.42
35:BA:2103:C:N4	35:BA:2186:G:H1	2.14	0.42
35:BA:2199:A:H5''	35:BA:2200:C:H5	1.85	0.42
35:BA:2207:G:O2'	35:BA:2208:A:H5''	2.20	0.42
24:AY:243:ASN:O	35:BA:2507:C:H4'	2.20	0.42
35:BA:271(D):G:O2'	35:BA:271(E):U:H5'	2.19	0.42
35:BA:697:C:H2'	35:BA:698:C:C6	2.54	0.42
36:BB:80:U:O2'	36:BB:81:G:H5''	2.20	0.42
37:BC:10:ALA:O	37:BC:13:GLU:HG2	2.20	0.42
39:BE:49:LEU:O	39:BE:78:LEU:CB	2.67	0.42
41:BG:77:ILE:O	41:BG:81:LYS:O	2.38	0.42
42:BH:89:ILE:HD11	42:BH:94:TYR:C	2.40	0.42
43:BI:2:LYS:HB2	43:BI:39:ALA:CB	2.50	0.42
45:BK:108:ALA:O	45:BK:120:LEU:HG	2.20	0.42
52:BT:65:LYS:NZ	52:BT:66:VAL:N	2.44	0.42
53:BU:21:ALA:HB2	53:BU:35:ALA:HB1	2.00	0.42
54:BV:18:LEU:CD1	54:BV:18:LEU:N	2.82	0.42
54:BV:47:VAL:O	54:BV:48:GLY:C	2.57	0.42
56:BX:3:THR:O	56:BX:4:ALA:HB3	2.19	0.42
58:BZ:127:LYS:O	58:BZ:162:GLU:HG3	2.20	0.42
1:CA:1005:A:H62	1:CA:1025:U:H4'	1.82	0.42
1:CA:1056:U:O2'	1:CA:1057:G:H5'	2.20	0.42
1:CA:1419:G:O2'	1:CA:1420:C:H5'	2.20	0.42
1:CA:1466:C:C2'	1:CA:1467:G:H5'	2.48	0.42
1:CA:556:C:C2'	1:CA:557:G:H5'	2.50	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:818:G:C2'	1:CA:819:A:H5''	2.50	0.42
2:CB:111:ARG:HH21	2:CB:114:ARG:HG2	1.84	0.42
2:CB:164:VAL:HG11	2:CB:170:GLU:HB2	2.01	0.42
2:CB:97:TRP:HH2	2:CB:176:GLU:HB2	1.84	0.42
2:CB:178:ARG:NH1	2:CB:178:ARG:CG	2.82	0.42
2:CB:76:GLN:H	2:CB:76:GLN:HG3	1.57	0.42
3:CC:173:VAL:N	3:CC:174:PRO:HD3	2.34	0.42
3:CC:88:ARG:HG2	3:CC:101:LEU:HB3	2.00	0.42
4:CD:25:ARG:NH1	4:CD:30:LYS:O	2.52	0.42
4:CD:25:ARG:HH22	4:CD:35:ARG:HH12	1.68	0.42
5:CE:94:ALA:O	5:CE:117:ASP:HB3	2.20	0.42
7:CG:113:GLU:O	7:CG:119:ARG:HD3	2.19	0.42
7:CG:151:TYR:N	7:CG:151:TYR:CD1	2.87	0.42
9:CI:78:LYS:CB	9:CI:78:LYS:NZ	2.83	0.42
10:CJ:96:ILE:N	10:CJ:96:ILE:CD1	2.83	0.42
11:CK:124:LYS:HB3	11:CK:125:PHE:HD1	1.85	0.42
11:CK:59:TYR:O	11:CK:63:LEU:HG	2.20	0.42
12:CL:27:LEU:HD12	12:CL:64:TYR:CE1	2.54	0.42
21:CU:25:LYS:CG	21:CU:26:LYS:N	2.82	0.42
22:CW:51:U:H2'	22:CW:52:G:O4'	2.19	0.42
24:CY:196:ASP:OD1	24:CY:202:HIS:NE2	2.50	0.42
24:CY:222:LEU:HD22	24:CY:222:LEU:N	2.34	0.42
24:CY:242:VAL:O	24:CY:245:THR:HG22	2.19	0.42
24:CY:245:THR:O	24:CY:245:THR:HG23	2.19	0.42
28:D3:17:LYS:HA	28:D3:17:LYS:HD3	1.66	0.42
35:DA:111:A:O2'	35:DA:112:U:H5'	2.19	0.42
35:DA:1144:G:H2'	35:DA:1145:C:H6	1.85	0.42
35:DA:1539:G:H2'	35:DA:1540:U:C5'	2.49	0.42
35:DA:1996:C:H4'	35:DA:1997:G:OP1	2.19	0.42
35:DA:2166:G:H2'	35:DA:2167:U:C6	2.54	0.42
35:DA:2171:A:H5''	35:DA:2172:U:OP1	2.19	0.42
35:DA:2222:G:H5'	38:DD:149:PRO:HG3	2.01	0.42
35:DA:2784:C:H1'	39:DE:37:ARG:NH1	2.35	0.42
35:DA:302:C:H2'	35:DA:303:U:H6	1.85	0.42
37:DC:52:PRO:C	37:DC:54:ARG:H	2.22	0.42
38:DD:267:SER:C	38:DD:269:PHE:H	2.23	0.42
38:DD:31:LYS:HB3	38:DD:34:VAL:HG22	2.01	0.42
39:DE:55:ASN:HA	39:DE:55:ASN:HD22	1.60	0.42
40:DF:28:ILE:N	40:DF:28:ILE:CD1	2.76	0.42
42:DH:111:HIS:CG	42:DH:112:PRO:HD2	2.55	0.42
42:DH:85:LYS:CD	42:DH:133:VAL:HB	2.49	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:DH:30:LYS:HB2	42:DH:79:VAL:HA	2.01	0.42
43:DI:77:LEU:O	43:DI:78:THR:HB	2.20	0.42
35:DA:1056:G:OP1	44:DJ:34:UNK:HA	2.19	0.42
45:DK:9:LYS:HA	45:DK:56:GLU:HB2	2.02	0.42
45:DK:84:LEU:CB	45:DK:96:VAL:HG23	2.49	0.42
47:DO:7:TYR:OH	47:DO:44:LYS:HG3	2.20	0.42
51:DS:84:GLN:HB3	51:DS:105:ALA:HB3	2.02	0.42
52:DT:89:VAL:HB	52:DT:91:ARG:HG3	2.02	0.42
27:D2:41:ILE:HG22	56:DX:13:LEU:HD21	2.01	0.42
58:DZ:152:ALA:HB1	58:DZ:167:PRO:CB	2.50	0.42
49:DQ:130:LYS:NZ	58:DZ:80:ARG:NH1	2.61	0.42
58:DZ:94:GLU:HG3	58:DZ:95:PRO:HD2	2.01	0.42
1:AA:1249:C:H4'	9:AI:36:TYR:OH	2.19	0.42
1:AA:1438:G:H2'	1:AA:1439:C:C6	2.54	0.42
1:AA:424:G:N3	1:AA:425:G:C8	2.88	0.42
1:AA:458:C:H2'	1:AA:460:G:O4'	2.20	0.42
1:AA:640:A:O2'	1:AA:641:U:H5'	2.20	0.42
1:AA:662:G:H2'	1:AA:663:A:C8	2.55	0.42
2:AB:37:ASN:O	2:AB:37:ASN:OD1	2.38	0.42
3:AC:111:LEU:HD23	3:AC:141:VAL:HG13	2.00	0.42
3:AC:16:ARG:HB2	3:AC:16:ARG:CZ	2.49	0.42
3:AC:186:PHE:HZ	3:AC:188:LEU:HD11	1.83	0.42
5:AE:135:THR:O	5:AE:136:MET:C	2.56	0.42
7:AG:50:ILE:C	7:AG:52:GLU:N	2.73	0.42
12:AL:102:ARG:HH11	12:AL:102:ARG:HG2	1.85	0.42
12:AL:60:LEU:C	12:AL:62:SER:N	2.72	0.42
13:AM:124:PRO:HB3	24:AY:158:PRO:HB3	2.02	0.42
19:AS:12:ASP:O	19:AS:16:LEU:HD12	2.20	0.42
20:AT:26:ASN:HB2	20:AT:71:THR:HG23	2.00	0.42
24:AY:6:LEU:C	24:AY:8:GLN:H	2.23	0.42
26:B1:48:LYS:HA	26:B1:60:PHE:O	2.19	0.42
35:BA:1106:G:H2'	35:BA:1107:G:H5'	2.02	0.42
35:BA:1270:C:H5''	35:BA:1271:G:C5'	2.50	0.42
35:BA:1747:G:H2'	35:BA:1747(A):G:C8	2.54	0.42
35:BA:1755:A:O2'	35:BA:1756:G:H5'	2.19	0.42
35:BA:1778:U:H2'	35:BA:1784:A:N6	2.35	0.42
35:BA:2087:G:O2'	35:BA:2088:G:H5'	2.19	0.42
35:BA:2737:G:H2'	35:BA:2738:A:C8	2.52	0.42
35:BA:601:C:O2	35:BA:605:C:H4'	2.19	0.42
35:BA:858:U:O2	35:BA:2268:A:H2'	2.19	0.42
37:BC:45:HIS:CE1	37:BC:173:HIS:HD1	2.37	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:BD:147:LEU:HD12	38:BD:147:LEU:HA	1.89	0.42
38:BD:181:GLU:OE2	38:BD:270:ILE:HG22	2.20	0.42
38:BD:35:LYS:N	38:BD:36:PRO:HD2	2.33	0.42
39:BE:55:ASN:HB2	39:BE:72:VAL:HG11	2.01	0.42
42:BH:83:TYR:O	42:BH:84:SER:CB	2.68	0.42
43:BI:25:TYR:HE2	43:BI:29:TYR:CD2	2.38	0.42
43:BI:94:ALA:O	43:BI:97:ILE:HB	2.19	0.42
45:BK:53:VAL:CG2	45:BK:53:VAL:O	2.67	0.42
47:BO:43:VAL:HG21	47:BO:52:VAL:CG1	2.49	0.42
48:BP:62:LEU:N	48:BP:62:LEU:CD2	2.56	0.42
51:BS:107:GLU:HG3	51:BS:108:GLY:N	2.35	0.42
51:BS:93:LYS:O	51:BS:94:TYR:C	2.57	0.42
52:BT:23:ARG:CB	52:BT:24:PRO:HD2	2.48	0.42
52:BT:40:THR:O	52:BT:41:ARG:HB2	2.19	0.42
52:BT:60:THR:HG22	52:BT:77:PRO:HA	2.00	0.42
53:BU:90:VAL:HG12	53:BU:91:ASP:N	2.35	0.42
54:BV:22:VAL:O	54:BV:23:GLU:HG2	2.19	0.42
56:BX:65:ARG:CG	56:BX:66:LEU:H	2.33	0.42
56:BX:29:TRP:CZ3	56:BX:78:LYS:HB3	2.55	0.42
58:BZ:24:LEU:HD23	58:BZ:25:PRO:HD2	2.01	0.42
1:CA:1203:C:O2'	1:CA:1204:A:H5'	2.19	0.42
1:CA:1317:C:OP2	14:CN:17:LYS:HE2	2.18	0.42
1:CA:976:G:H22	1:CA:1362:C:H2'	1.80	0.42
1:CA:216:G:C2	1:CA:217:C:N3	2.88	0.42
1:CA:867:G:H2'	1:CA:868:C:H6	1.83	0.42
2:CB:136:VAL:HA	2:CB:139:LYS:HB2	2.02	0.42
3:CC:155:GLY:O	3:CC:196:LEU:HD13	2.19	0.42
3:CC:113:ALA:HB1	3:CC:185:GLY:N	2.35	0.42
4:CD:18:LYS:HG3	4:CD:31:CYS:CB	2.50	0.42
4:CD:42:GLN:CG	4:CD:42:GLN:O	2.68	0.42
4:CD:98:GLU:OE2	4:CD:103:ASN:ND2	2.52	0.42
10:CJ:4:ILE:HD11	10:CJ:77:PRO:CB	2.39	0.42
11:CK:40:ILE:HG23	11:CK:75:TYR:CD2	2.55	0.42
1:CA:521:G:O5'	12:CL:73:GLU:HG2	2.20	0.42
15:CO:62:GLN:O	15:CO:66:LEU:HD13	2.19	0.42
20:CT:100:ILE:HG13	20:CT:100:ILE:O	2.20	0.42
24:CY:181:SER:N	24:CY:182:PRO:CD	2.83	0.42
24:CY:270:LYS:HD3	25:D0:5:LYS:CD	2.50	0.42
30:D5:55:ARG:NE	50:DR:33:ARG:NH1	2.67	0.42
33:D8:48:PHE:C	33:D8:49:VAL:CG2	2.88	0.42
35:DA:1221:C:H2'	35:DA:1221(A):C:C6	2.52	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:12:U:O2	35:DA:12:U:C2'	2.63	0.42
35:DA:1515:G:H2'	35:DA:1516:C:C6	2.55	0.42
35:DA:414:C:H4'	35:DA:1879:C:O2	2.19	0.42
35:DA:2148:G:O2'	35:DA:2149:G:H5'	2.19	0.42
35:DA:271(J):C:H2'	35:DA:271(K):U:H5''	2.01	0.42
35:DA:302:C:H2'	35:DA:303:U:C6	2.55	0.42
37:DC:47:LYS:HD2	37:DC:170:GLY:O	2.19	0.42
38:DD:92:ILE:HD13	38:DD:92:ILE:N	2.29	0.42
39:DE:110:GLY:HA3	39:DE:162:ALA:HB2	2.00	0.42
39:DE:65:GLY:HA2	39:DE:70:ALA:CB	2.49	0.42
51:DS:18:ILE:C	51:DS:20:ARG:N	2.73	0.42
55:DW:91:GLY:O	55:DW:93:ALA:N	2.52	0.42
1:AA:287:U:O2'	1:AA:288:A:H5'	2.19	0.42
1:AA:350:G:O2'	1:AA:351:G:H5'	2.20	0.42
1:AA:418:C:N4	1:AA:426:G:N1	2.67	0.42
1:AA:983:A:N1	1:AA:1222:G:N2	2.68	0.42
2:AB:220:ASP:C	2:AB:222:ILE:N	2.73	0.42
2:AB:83:MET:HB3	2:AB:234:PRO:HG2	2.02	0.42
3:AC:60:ALA:O	3:AC:61:ALA:CB	2.67	0.42
3:AC:90:GLU:HA	3:AC:90:GLU:OE1	2.20	0.42
4:AD:68:TYR:N	4:AD:68:TYR:CD1	2.87	0.42
5:AE:107:ARG:O	5:AE:108:ALA:C	2.56	0.42
12:AL:38:THR:HG23	12:AL:57:LYS:O	2.19	0.42
1:AA:1302:U:H5	13:AM:17:VAL:HG21	1.85	0.42
13:AM:81:LEU:HB3	13:AM:89:GLY:HA2	2.01	0.42
14:AN:39:LEU:CD1	14:AN:47:LEU:HD12	2.49	0.42
15:AO:22:THR:OG1	15:AO:23:GLY:N	2.52	0.42
15:AO:25:THR:O	15:AO:26:GLU:C	2.57	0.42
20:AT:57:ARG:NH1	20:AT:100:ILE:CG1	2.82	0.42
22:AW:63:G:H4'	37:BC:54:ARG:NH2	2.35	0.42
24:AY:54:ARG:CZ	24:AY:54:ARG:HB3	2.46	0.42
24:AY:55:LEU:O	24:AY:59:VAL:HB	2.20	0.42
26:B1:74:VAL:O	26:B1:74:VAL:HG12	2.20	0.42
30:B5:42:PRO:HB2	30:B5:43:HIS:CD2	2.55	0.42
34:B9:13:LYS:HE3	34:B9:28:GLU:OE1	2.19	0.42
35:BA:1042:G:C2	35:BA:1043:C:H1'	2.54	0.42
35:BA:1055:G:H2'	35:BA:1056:G:H5'	2.00	0.42
35:BA:1385:G:H4'	35:BA:1386:C:OP1	2.19	0.42
35:BA:1464:C:O2'	35:BA:1528:A:C8	2.48	0.42
35:BA:1532:C:C2'	35:BA:1533:G:H5'	2.50	0.42
35:BA:1657:C:H2'	35:BA:1658:C:C6	2.55	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:570:G:H2'	35:BA:2030:A:N7	2.34	0.42
35:BA:2704:C:H2'	35:BA:2705:A:O4'	2.19	0.42
35:BA:330:A:O2'	35:BA:331:A:C8	2.71	0.42
35:BA:364:C:H2'	35:BA:365:C:H5''	2.01	0.42
35:BA:607:U:N3	35:BA:621:A:C2	2.75	0.42
35:BA:686:G:N2	35:BA:788:A:H61	2.18	0.42
35:BA:894:C:O2'	35:BA:895:U:H5'	2.19	0.42
36:BB:28:C:OP1	51:BS:31:SER:OG	2.32	0.42
36:BB:82:G:O2'	36:BB:83:G:H5'	2.20	0.42
37:BC:167:ASP:OD2	37:BC:171:ALA:HB3	2.20	0.42
37:BC:46:ALA:HB1	37:BC:212:SER:O	2.20	0.42
38:BD:35:LYS:NZ	38:BD:35:LYS:CB	2.83	0.42
39:BE:103:ASP:OD2	39:BE:202:LYS:HD3	2.19	0.42
40:BF:129:PHE:HZ	40:BF:156:LEU:HD11	1.83	0.42
40:BF:162:LEU:HD12	40:BF:162:LEU:HA	1.85	0.42
40:BF:32:LEU:C	40:BF:32:LEU:HD23	2.39	0.42
40:BF:33:LEU:HA	40:BF:33:LEU:HD12	1.86	0.42
42:BH:101:ARG:O	42:BH:117:PRO:HG3	2.19	0.42
43:BI:79:ILE:HG23	43:BI:80:PRO:HD2	2.01	0.42
44:BJ:93:UNK:HA	44:BJ:96:UNK:CB	2.50	0.42
45:BK:115:LEU:O	45:BK:116:ASN:CG	2.58	0.42
45:BK:79:ARG:HH11	45:BK:79:ARG:HG2	1.83	0.42
46:BN:119:ARG:NH1	46:BN:119:ARG:HG3	2.35	0.42
48:BP:16:ARG:CB	48:BP:16:ARG:HH11	2.32	0.42
52:BT:100:TYR:CD2	52:BT:103:ARG:NH2	2.79	0.42
54:BV:99:ILE:H	54:BV:99:ILE:HD13	1.84	0.42
55:BW:17:VAL:O	55:BW:18:ARG:C	2.58	0.42
55:BW:34:ASN:O	55:BW:37:ARG:HB3	2.19	0.42
1:CA:1354:C:H2'	1:CA:1355:G:H8	1.85	0.42
1:CA:141:A:H1'	1:CA:182:U:C2	2.55	0.42
1:CA:19:C:H4'	1:CA:864:A:O4'	2.19	0.42
1:CA:382:A:C2	1:CA:383:A:C4	3.07	0.42
1:CA:424:G:N3	1:CA:425:G:C8	2.88	0.42
1:CA:445:G:H2'	1:CA:446:G:C8	2.54	0.42
1:CA:458:C:H2'	1:CA:460:G:O4'	2.20	0.42
1:CA:684:A:H2'	1:CA:685:G:H8	1.84	0.42
1:CA:790:A:H2	1:CA:1497:G:OP1	2.02	0.42
1:CA:802:A:H3'	1:CA:803:G:H8	1.85	0.42
1:CA:948:C:P	13:CM:109:THR:HG1	2.42	0.42
1:CA:950:U:H4'	1:CA:971:G:C2	2.54	0.42
2:CB:95:GLN:HA	2:CB:95:GLN:OE1	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:CF:10:LEU:HD13	6:CF:61:LEU:CD1	2.50	0.42
7:CG:108:ALA:C	7:CG:110:GLN:H	2.22	0.42
7:CG:22:LEU:C	7:CG:22:LEU:HD23	2.40	0.42
8:CH:4:ASP:CG	8:CH:85:ARG:HH21	2.22	0.42
10:CJ:49:VAL:CG2	10:CJ:50:ILE:N	2.82	0.42
13:CM:16:ASP:OD2	13:CM:17:VAL:N	2.53	0.42
14:CN:12:ARG:HB2	14:CN:12:ARG:CZ	2.50	0.42
17:CQ:29:HIS:HA	17:CQ:30:PRO:HD2	1.82	0.42
1:CA:177:C:OP1	20:CT:65:LYS:HD3	2.20	0.42
20:CT:73:HIS:O	20:CT:74:LYS:O	2.37	0.42
24:CY:138:ARG:CZ	24:CY:337:LEU:HB3	2.50	0.42
24:CY:300:GLY:O	24:CY:301:GLU:HG3	2.20	0.42
24:CY:326:THR:HG23	24:CY:328:LEU:HD13	2.02	0.42
26:D1:83:GLU:CD	26:D1:83:GLU:N	2.73	0.42
35:DA:999:U:O2'	35:DA:1000:A:H5'	2.20	0.42
35:DA:1021:A:H2'	35:DA:1023:U:H5'	2.01	0.42
35:DA:1028:A:N6	35:DA:1125:G:H2'	2.34	0.42
35:DA:1243:G:HO2'	48:DP:9:ASN:HA	1.84	0.42
35:DA:1434:A:H2'	35:DA:1435:G:C8	2.55	0.42
35:DA:1516:C:H2'	35:DA:1517:G:H8	1.83	0.42
35:DA:1532:C:C2'	35:DA:1533:G:H5'	2.50	0.42
35:DA:1528:A:N1	35:DA:1542:A:C2	2.87	0.42
35:DA:1547:C:H2'	35:DA:1548:C:H6	1.84	0.42
35:DA:1750:G:O2'	35:DA:1751:C:H5'	2.19	0.42
35:DA:570:G:H2'	35:DA:2030:A:N7	2.35	0.42
22:CW:77:PHA:O	35:DA:2395:C:H1'	2.20	0.42
35:DA:2713:A:C3'	35:DA:2714:G:H5'	2.50	0.42
35:DA:71:A:C2	56:DX:31:HIS:CE1	3.08	0.42
35:DA:2124:G:H5'	37:DC:175:PRO:HD3	2.01	0.42
38:DD:134:ARG:HG3	38:DD:135:PHE:CE2	2.55	0.42
38:DD:28:GLU:HB2	38:DD:29:PRO:CD	2.49	0.42
39:DE:101:ARG:HH11	39:DE:171:GLU:N	2.18	0.42
40:DF:32:LEU:C	40:DF:32:LEU:HD23	2.40	0.42
40:DF:83:PHE:O	40:DF:84:VAL:C	2.57	0.42
41:DG:114:ILE:CG2	41:DG:115:ARG:N	2.83	0.42
41:DG:47:LYS:HB3	41:DG:82:LEU:HD12	2.01	0.42
42:DH:137:ASP:HB3	42:DH:138:LYS:H	1.61	0.42
43:DI:38:LEU:O	43:DI:40:THR:CG2	2.68	0.42
45:DK:18:THR:HG23	45:DK:38:VAL:CG1	2.46	0.42
45:DK:18:THR:OG1	45:DK:38:VAL:HB	2.19	0.42
46:DN:9:VAL:CG1	46:DN:10:GLU:H	2.32	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:DO:101:PRO:HA	47:DO:120:GLU:O	2.20	0.42
48:DP:97:PRO:O	48:DP:99:LEU:N	2.44	0.42
49:DQ:19:GLY:O	49:DQ:20:ALA:CB	2.66	0.42
49:DQ:55:VAL:HG12	49:DQ:64:ILE:HD12	2.02	0.42
51:DS:54:LEU:HD13	51:DS:58:LEU:H	1.84	0.42
52:DT:24:PRO:HD3	52:DT:52:ILE:HD12	2.01	0.42
53:DU:73:GLY:O	53:DU:74:LEU:O	2.37	0.42
53:DU:102:GLU:HG3	54:DV:2:PHE:CZ	2.55	0.42
35:DA:336:C:HO2'	57:DY:35:TYR:HH	1.66	0.42
58:DZ:42:VAL:HG13	58:DZ:43:GLU:N	2.34	0.42
58:DZ:69:THR:HG22	58:DZ:90:VAL:HG22	2.01	0.42
1:AA:9:G:O2'	1:AA:10:A:H5'	2.19	0.42
1:AA:1318:A:H1'	19:AS:37:ARG:NH2	2.31	0.42
1:AA:1328:C:H2'	1:AA:1329:A:H8	1.85	0.42
1:AA:926:G:H21	1:AA:1505:G:H2'	1.84	0.42
1:AA:1512:U:H2'	1:AA:1513:A:H8	1.84	0.42
1:AA:192:U:H1'	20:AT:103:GLY:HA2	2.01	0.42
1:AA:373:A:H2'	1:AA:374:A:H8	1.85	0.42
1:AA:556:C:C2'	1:AA:557:G:H5'	2.50	0.42
1:AA:656:C:H2'	1:AA:657:G:C8	2.54	0.42
2:AB:136:VAL:HA	2:AB:139:LYS:HB2	2.01	0.42
2:AB:105:PHE:HZ	2:AB:156:LYS:HA	1.84	0.42
11:AK:84:VAL:CG2	11:AK:110:ASP:HA	2.49	0.42
12:AL:84:LEU:HB3	12:AL:101:VAL:HB	2.01	0.42
12:AL:102:ARG:NH1	12:AL:102:ARG:CG	2.83	0.42
13:AM:108:ARG:H	13:AM:108:ARG:HD2	1.83	0.42
13:AM:15:VAL:O	13:AM:19:LEU:CD2	2.68	0.42
13:AM:5:ALA:O	13:AM:6:GLY:C	2.58	0.42
16:AP:50:LYS:HD3	16:AP:50:LYS:C	2.40	0.42
17:AQ:29:HIS:HA	17:AQ:30:PRO:HD2	1.81	0.42
18:AR:19:LYS:O	18:AR:20:ALA:CB	2.67	0.42
22:AV:71:G:C3'	22:AV:72:C:H5''	2.50	0.42
24:AY:198:SER:HB2	24:AY:200:ARG:HG3	2.02	0.42
24:AY:320:TYR:HB2	24:AY:330:ARG:O	2.20	0.42
26:B1:89:GLU:O	26:B1:90:ILE:C	2.56	0.42
32:B7:8:ASN:HD21	32:B7:11:LYS:H	1.55	0.42
35:BA:1234:U:C2'	35:BA:1235:G:H5'	2.50	0.42
35:BA:1313:U:H3'	35:BA:1314:C:H5'	2.00	0.42
35:BA:1352:U:O2'	35:BA:1353:A:H5'	2.19	0.42
35:BA:2001:A:H2'	35:BA:2002:G:C8	2.54	0.42
25:B0:36:ILE:HG23	35:BA:2354:G:O2'	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:2777:G:H5''	35:BA:2778:A:C5'	2.50	0.42
35:BA:301:G:H1'	35:BA:302:C:C6	2.54	0.42
35:BA:664:C:H2'	35:BA:665:C:C6	2.55	0.42
38:BD:121:PRO:HA	38:BD:135:PHE:CD1	2.52	0.42
38:BD:21:PHE:HB3	38:BD:24:ILE:HG21	2.02	0.42
39:BE:35:GLN:HB3	39:BE:48:GLN:HB3	2.02	0.42
40:BF:157:VAL:HG13	40:BF:194:MET:HG2	2.00	0.42
41:BG:161:THR:CG2	41:BG:162:THR:N	2.82	0.42
41:BG:87:PRO:HB2	41:BG:88:ILE:H	1.65	0.42
43:BI:14:ASP:O	43:BI:15:VAL:O	2.38	0.42
43:BI:79:ILE:HD13	43:BI:79:ILE:HA	1.86	0.42
46:BN:9:VAL:CG1	46:BN:10:GLU:N	2.79	0.42
48:BP:85:LEU:O	48:BP:86:LYS:C	2.58	0.42
49:BQ:27:VAL:CG2	49:BQ:137:TYR:CD1	3.01	0.42
49:BQ:29:PHE:HB2	49:BQ:105:GLU:OE2	2.20	0.42
49:BQ:55:VAL:CG2	49:BQ:56:ARG:N	2.82	0.42
51:BS:89:ARG:CG	51:BS:92:TYR:HA	2.47	0.42
52:BT:26:ASP:HB3	52:BT:89:VAL:O	2.19	0.42
52:BT:65:LYS:HG3	52:BT:66:VAL:N	2.34	0.42
53:BU:24:TYR:HB2	53:BU:29:SER:HB3	2.00	0.42
54:BV:46:VAL:CG1	54:BV:47:VAL:H	2.32	0.42
55:BW:10:VAL:HG12	55:BW:12:ILE:HG22	2.02	0.42
56:BX:35:THR:HG22	56:BX:37:THR:H	1.84	0.42
58:BZ:108:PRO:C	58:BZ:110:GLY:N	2.71	0.42
1:CA:1134:G:H2'	1:CA:1135:U:C5'	2.46	0.42
1:CA:119:A:H4'	1:CA:120:A:O5'	2.19	0.42
1:CA:1215:G:O2'	1:CA:1216:G:H5'	2.20	0.42
1:CA:1528:U:O3'	1:CA:1529:G:H3'	2.19	0.42
1:CA:49:U:O2	1:CA:362:G:H1'	2.20	0.42
2:CB:12:GLU:O	2:CB:14:GLY:N	2.53	0.42
2:CB:37:ASN:OD1	2:CB:37:ASN:O	2.37	0.42
2:CB:44:LEU:N	2:CB:44:LEU:CD1	2.81	0.42
3:CC:155:GLY:O	3:CC:156:ARG:CB	2.66	0.42
4:CD:206:PHE:CD2	4:CD:207:TYR:CE2	3.08	0.42
7:CG:95:ARG:O	7:CG:96:GLN:C	2.58	0.42
1:CA:826:C:H5''	8:CH:12:ARG:HH21	1.84	0.42
10:CJ:45:ARG:HB3	10:CJ:65:LEU:HB3	2.01	0.42
19:CS:44:MET:HA	19:CS:44:MET:HE3	2.01	0.42
20:CT:30:LYS:O	20:CT:33:ILE:HB	2.20	0.42
24:CY:123:GLY:HA3	24:CY:305:ILE:HG23	2.02	0.42
24:CY:237:PRO:HD3	35:DA:2604:U:P	2.59	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:CY:312:ARG:HD2	24:CY:314:TYR:CE1	2.55	0.42
26:D1:86:SER:HB2	26:D1:89:GLU:HB2	2.01	0.42
35:DA:2631:G:N2	39:DE:61:ARG:NH1	2.68	0.42
35:DA:2637:U:O2'	35:DA:2638:G:H5'	2.18	0.42
35:DA:2684:U:O2'	47:DO:68:GLU:HG3	2.20	0.42
35:DA:528:A:C2	35:DA:2043:C:C4'	3.01	0.42
35:DA:84:A:OP2	57:DY:9:LYS:HE3	2.20	0.42
35:DA:876:C:H2'	35:DA:877:U:O4'	2.19	0.42
35:DA:898:C:O2'	35:DA:899:A:H5'	2.20	0.42
37:DC:6:LYS:O	37:DC:9:ARG:N	2.53	0.42
38:DD:266:SER:C	38:DD:267:SER:O	2.58	0.42
40:DF:33:LEU:HD12	40:DF:33:LEU:HA	1.87	0.42
41:DG:118:ARG:N	41:DG:181:ARG:HH21	2.12	0.42
41:DG:76:SER:O	41:DG:77:ILE:HG12	2.20	0.42
45:DK:107:ILE:HD12	45:DK:110:GLN:HB2	2.01	0.42
45:DK:69:THR:HG22	45:DK:70:LYS:N	2.35	0.42
48:DP:58:THR:O	48:DP:61:ARG:HD2	2.19	0.42
50:DR:33:ARG:NE	50:DR:115:GLU:HG3	2.31	0.42
53:DU:97:ASP:OD1	53:DU:98:LEU:N	2.53	0.42
54:DV:47:VAL:C	54:DV:49:THR:N	2.73	0.42
56:DX:47:PHE:O	56:DX:48:LYS:C	2.58	0.42
1:AA:353:A:C2'	1:AA:354:G:OP2	2.67	0.42
1:AA:575:G:H4'	1:AA:576:G:H5'	2.02	0.42
1:AA:666:G:H5'	1:AA:726:C:H1'	2.02	0.42
1:AA:991:U:O2	1:AA:993:G:C8	2.73	0.42
2:AB:139:LYS:C	2:AB:143:GLU:HG3	2.40	0.42
3:AC:182:ILE:HG12	3:AC:203:PHE:HD1	1.84	0.42
3:AC:58:GLU:H	3:AC:65:ALA:HB3	1.85	0.42
3:AC:75:VAL:O	3:AC:75:VAL:HG12	2.19	0.42
6:AF:92:LYS:NZ	6:AF:92:LYS:HB2	2.34	0.42
7:AG:105:VAL:O	7:AG:108:ALA:HB3	2.20	0.42
8:AH:4:ASP:CG	8:AH:85:ARG:HH21	2.23	0.42
10:AJ:28:ARG:NH1	10:AJ:28:ARG:HG2	2.34	0.42
14:AN:53:LEU:HA	14:AN:54:PRO:HD3	1.88	0.42
16:AP:12:LYS:O	16:AP:13:HIS:HB2	2.19	0.42
19:AS:31:ILE:HG22	19:AS:48:THR:O	2.19	0.42
19:AS:78:ARG:HD2	19:AS:81:ARG:NH1	2.34	0.42
24:AY:306:GLU:OE2	24:AY:306:GLU:HA	2.20	0.42
24:AY:344:LEU:N	24:AY:344:LEU:HD23	2.35	0.42
27:B2:33:MET:HG3	27:B2:37:PHE:HE1	1.85	0.42
30:B5:47:PRO:C	30:B5:48:GLU:HG2	2.40	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:B5:47:PRO:O	30:B5:48:GLU:OE1	2.38	0.42
35:BA:1048:A:H4'	35:BA:1049:C:OP1	2.19	0.42
35:BA:1079:C:H1'	45:BK:132:ARG:HD3	2.00	0.42
30:B5:4:HIS:HD2	35:BA:2056:G:H1	1.67	0.42
35:BA:2115:G:H4'	35:BA:2167:U:H1'	2.02	0.42
35:BA:2431:U:O2	35:BA:2433:A:C8	2.73	0.42
35:BA:2559:C:O2'	35:BA:2560:C:H5'	2.20	0.42
35:BA:2713:A:C3'	35:BA:2714:G:H5'	2.50	0.42
35:BA:271(V):G:H2'	35:BA:271(W):G:O4'	2.19	0.42
35:BA:2752:C:O5'	35:BA:2752:C:H6	2.03	0.42
35:BA:2740:A:C6	35:BA:2764:A:C8	3.08	0.42
35:BA:2849:U:HO2'	35:BA:2866:U:H6	1.62	0.42
35:BA:2861:G:C2'	35:BA:2862:G:H5'	2.49	0.42
37:BC:6:LYS:O	37:BC:9:ARG:N	2.53	0.42
38:BD:61:LEU:HA	38:BD:61:LEU:HD13	1.80	0.42
39:BE:51:PHE:C	39:BE:74:PRO:HB3	2.41	0.42
40:BF:160:ASN:ND2	40:BF:160:ASN:C	2.72	0.42
40:BF:165:ARG:H	40:BF:165:ARG:HG2	1.51	0.42
40:BF:25:PRO:HB3	40:BF:119:ARG:HD3	2.01	0.42
40:BF:62:ARG:HH22	40:BF:64:ILE:HD12	1.85	0.42
41:BG:133:LEU:C	41:BG:133:LEU:HD12	2.39	0.42
41:BG:36:LYS:O	41:BG:159:VAL:HA	2.19	0.42
41:BG:5:VAL:CG1	41:BG:6:ALA:H	2.32	0.42
42:BH:92:ILE:O	42:BH:94:TYR:N	2.53	0.42
44:BJ:81:UNK:O	44:BJ:83:UNK:N	2.52	0.42
44:BJ:86:UNK:O	44:BJ:87:UNK:CB	2.67	0.42
46:BN:15:LEU:C	46:BN:15:LEU:HD13	2.40	0.42
48:BP:149:GLU:O	48:BP:150:ALA:HB2	2.20	0.42
48:BP:18:ARG:O	48:BP:20:GLY:N	2.53	0.42
48:BP:97:PRO:O	48:BP:99:LEU:N	2.43	0.42
49:BQ:55:VAL:HG22	49:BQ:56:ARG:N	2.34	0.42
50:BR:4:LEU:C	50:BR:5:LYS:HG2	2.40	0.42
52:BT:125:ARG:O	52:BT:128:GLU:N	2.52	0.42
52:BT:19:LEU:HD22	52:BT:85:LYS:HG3	2.02	0.42
53:BU:114:LYS:H	53:BU:114:LYS:HG2	1.69	0.42
54:BV:82:ARG:NH1	54:BV:82:ARG:HG2	2.35	0.42
54:BV:1:MET:CB	54:BV:99:ILE:HG13	2.50	0.42
56:BX:35:THR:HG22	56:BX:36:LYS:N	2.34	0.42
57:BY:34:LYS:HE2	57:BY:34:LYS:HB3	1.71	0.42
49:BQ:56:ARG:HH12	58:BZ:180:VAL:HG13	1.85	0.42
58:BZ:30:ASN:HA	58:BZ:89:PHE:CE2	2.54	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:1134:G:N1	1:CA:1142:G:C6	2.88	0.42
1:CA:376:G:H5''	16:CP:5:ARG:HB2	2.01	0.42
1:CA:833:U:H3	1:CA:853:G:H1	1.67	0.42
1:CA:868:C:H2'	1:CA:869:G:O4'	2.19	0.42
2:CB:168:THR:O	2:CB:171:ALA:N	2.52	0.42
2:CB:50:GLU:OE1	2:CB:200:ILE:HB	2.20	0.42
2:CB:66:GLY:HA2	2:CB:160:ASP:OD2	2.19	0.42
4:CD:17:VAL:O	4:CD:18:LYS:O	2.37	0.42
5:CE:8:GLU:CA	5:CE:34:VAL:HG23	2.50	0.42
7:CG:9:VAL:O	7:CG:10:ARG:C	2.58	0.42
8:CH:86:ILE:CG2	8:CH:133:LEU:HD22	2.44	0.42
8:CH:43:GLY:O	8:CH:79:VAL:HG11	2.20	0.42
9:CI:89:ASN:O	9:CI:92:TYR:HB2	2.19	0.42
12:CL:91:LYS:HE2	12:CL:91:LYS:HA	2.00	0.42
13:CM:5:ALA:O	13:CM:6:GLY:C	2.58	0.42
14:CN:12:ARG:HH12	14:CN:14:PRO:HD3	1.85	0.42
1:CA:191:G:N9	20:CT:105:SER:HB3	2.34	0.42
20:CT:41:ILE:HG13	20:CT:42:GLN:N	2.34	0.42
21:CU:12:LYS:N	21:CU:12:LYS:HD2	2.35	0.42
22:CW:55:U:C4	22:CW:57:G:H5''	2.55	0.42
24:CY:106:LEU:C	24:CY:108:ASN:N	2.72	0.42
24:CY:150:GLN:NE2	24:CY:172:LYS:HZ1	2.13	0.42
25:D0:10:THR:HG21	35:DA:2277:G:P	2.60	0.42
35:DA:1106:G:H2'	35:DA:1107:G:H5'	2.02	0.42
35:DA:1339:G:N2	35:DA:1603:A:H1'	2.35	0.42
35:DA:1923:U:O2'	35:DA:1924:C:H5'	2.20	0.42
35:DA:2124:G:C2'	35:DA:2125:G:H5'	2.48	0.42
35:DA:230:U:O2'	35:DA:231:C:H5'	2.19	0.42
35:DA:2712(A):A:H5''	35:DA:2713:A:OP2	2.20	0.42
35:DA:466:A:C2'	35:DA:467:G:H5'	2.49	0.42
35:DA:565:C:H2'	35:DA:566:U:O4'	2.19	0.42
35:DA:629:G:H4'	35:DA:650:C:O2	2.20	0.42
35:DA:66:C:O2'	35:DA:67:U:H5'	2.20	0.42
37:DC:191:ARG:HG3	37:DC:191:ARG:NH1	2.33	0.42
39:DE:137:HIS:HB3	39:DE:138:PRO:HD2	2.01	0.42
43:DI:86:THR:HG22	43:DI:122:GLU:OE2	2.20	0.42
43:DI:91:SER:C	43:DI:92:VAL:HG12	2.39	0.42
45:DK:115:LEU:O	45:DK:116:ASN:CG	2.58	0.42
45:DK:23:VAL:O	45:DK:27:LEU:HD23	2.20	0.42
46:DN:134:ARG:H	46:DN:135:PRO:HD3	1.85	0.42
47:DO:104:ARG:NE	52:DT:33:LYS:CE	2.82	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
48:DP:91:PHE:HZ	48:DP:100:LEU:CD2	2.33	0.42
50:DR:9:LYS:HE3	50:DR:9:LYS:HB2	1.85	0.42
52:DT:19:LEU:HA	52:DT:20:PRO:HD3	1.96	0.42
52:DT:90:GLN:O	52:DT:91:ARG:O	2.38	0.42
54:DV:60:GLU:O	54:DV:62:LEU:HD22	2.20	0.42
55:DW:29:LEU:HD21	55:DW:33:ARG:NH2	2.35	0.42
56:DX:64:LYS:HD2	56:DX:73:ARG:CZ	2.50	0.42
57:DY:19:LYS:HE3	57:DY:19:LYS:HB2	1.82	0.42
57:DY:52:SER:O	57:DY:54:LYS:N	2.53	0.42
1:AA:1015:A:O5'	1:AA:1015:A:H8	2.03	0.41
1:AA:1131:G:C6	1:AA:1132:C:N4	2.88	0.41
1:AA:1417:G:N2	1:AA:1482:G:H2'	2.34	0.41
1:AA:15:G:H4'	5:AE:24:ARG:CZ	2.50	0.41
3:AC:155:GLY:O	3:AC:196:LEU:HD13	2.20	0.41
4:AD:150:GLU:CG	4:AD:151:LYS:N	2.83	0.41
6:AF:42:GLU:C	6:AF:44:GLY:H	2.23	0.41
7:AG:113:GLU:HB2	7:AG:119:ARG:HG2	2.01	0.41
5:AE:151:LEU:HD11	8:AH:77:GLU:OE2	2.20	0.41
9:AI:104:ARG:HG3	9:AI:104:ARG:HH11	1.84	0.41
9:AI:108:VAL:O	9:AI:110:GLU:N	2.53	0.41
10:AJ:4:ILE:CD1	10:AJ:4:ILE:N	2.79	0.41
10:AJ:4:ILE:HB	10:AJ:74:ILE:HD11	2.01	0.41
12:AL:22:SER:C	12:AL:24:VAL:N	2.73	0.41
20:AT:96:GLY:O	20:AT:97:ALA:O	2.38	0.41
24:AY:122:PRO:HB3	24:AY:130:CYS:HA	2.01	0.41
24:AY:25:ARG:HH12	24:AY:29:LEU:HD23	1.84	0.41
26:B1:37:ILE:CG2	26:B1:38:SER:N	2.83	0.41
26:B1:3:LYS:CG	26:B1:4:VAL:H	2.33	0.41
26:B1:53:VAL:HG12	26:B1:53:VAL:O	2.19	0.41
31:B6:10:LEU:HD11	33:B8:34:TRP:CE2	2.55	0.41
35:BA:1234:U:H2'	35:BA:1235:G:H5'	2.02	0.41
35:BA:1314:C:H6	35:BA:1314:C:H5'	1.85	0.41
35:BA:1494:A:HO2'	35:BA:1496:A:H2	1.60	0.41
35:BA:1516:C:H2'	35:BA:1517:G:C8	2.54	0.41
35:BA:1528:A:N1	35:BA:1542:A:C2	2.87	0.41
35:BA:1970:A:H5''	35:BA:1971:A:OP1	2.20	0.41
35:BA:2320:A:H2'	35:BA:2320:A:N3	2.35	0.41
35:BA:234:C:H2'	35:BA:235:U:H6	1.85	0.41
35:BA:251:A:H2'	35:BA:252:G:O4'	2.20	0.41
35:BA:2862:G:H2'	35:BA:2863:C:H6	1.85	0.41
35:BA:664:C:H2'	35:BA:665:C:H6	1.85	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BB:115:G:C4'	51:BS:47:THR:HB	2.50	0.41
38:BD:102:LYS:C	38:BD:103:ARG:HG2	2.39	0.41
38:BD:145:VAL:HG22	38:BD:191:ALA:HB1	2.01	0.41
38:BD:186:HIS:HD2	38:BD:188:GLU:HB2	1.83	0.41
38:BD:83:GLU:OE1	38:BD:104:TYR:CE2	2.72	0.41
39:BE:101:ARG:HD3	39:BE:171:GLU:HA	2.02	0.41
40:BF:165:ARG:CG	40:BF:165:ARG:HH11	2.31	0.41
40:BF:33:LEU:O	40:BF:37:VAL:HG23	2.20	0.41
41:BG:70:VAL:HA	41:BG:89:GLY:O	2.21	0.41
45:BK:109:LYS:HB3	45:BK:109:LYS:HZ2	1.82	0.41
45:BK:119:ASP:CG	45:BK:122:ALA:HB3	2.40	0.41
47:BO:69:ILE:CD1	47:BO:69:ILE:N	2.83	0.41
48:BP:66:GLY:O	48:BP:67:MET:HB3	2.19	0.41
49:BQ:42:ILE:HD13	49:BQ:97:VAL:CG2	2.50	0.41
52:BT:129:ARG:NH1	52:BT:131:ALA:HB3	2.29	0.41
53:BU:59:ARG:HH11	53:BU:59:ARG:HG2	1.85	0.41
55:BW:99:ARG:HH11	55:BW:99:ARG:HG2	1.84	0.41
56:BX:18:TYR:O	56:BX:20:GLY:N	2.53	0.41
56:BX:41:ASN:O	56:BX:45:THR:HG23	2.20	0.41
58:BZ:56:VAL:C	58:BZ:57:ILE:HD12	2.41	0.41
1:CA:1004:A:H3'	1:CA:1036:G:O6	2.20	0.41
1:CA:1111:A:O2'	1:CA:1112:C:H5'	2.20	0.41
1:CA:1250:A:H61	1:CA:1354:C:H1'	1.84	0.41
1:CA:1255:G:C2'	1:CA:1255:G:N3	2.82	0.41
1:CA:336:C:H2'	1:CA:337:C:C6	2.53	0.41
1:CA:629:G:H2'	1:CA:630:G:O4'	2.20	0.41
1:CA:767:A:H2'	1:CA:768:A:O4'	2.19	0.41
2:CB:15:VAL:C	2:CB:16:HIS:CG	2.93	0.41
5:CE:135:THR:O	5:CE:136:MET:C	2.58	0.41
6:CF:55:ASP:C	6:CF:57:GLN:H	2.24	0.41
7:CG:153:HIS:O	7:CG:154:TYR:HD2	2.03	0.41
10:CJ:4:ILE:HD13	10:CJ:74:ILE:HG13	2.01	0.41
10:CJ:79:ARG:HA	10:CJ:82:ILE:HG12	2.02	0.41
11:CK:100:ALA:O	11:CK:101:SER:HB3	2.20	0.41
13:CM:125:ARG:HG3	24:CY:160:PRO:CD	2.35	0.41
16:CP:59:TRP:CE3	16:CP:59:TRP:HA	2.55	0.41
21:CU:12:LYS:HB3	21:CU:22:ARG:HD2	2.00	0.41
23:CX:15:A:H2'	23:CX:15:A:N3	2.34	0.41
24:CY:254:LEU:N	24:CY:255:PRO:HD2	2.35	0.41
33:D8:63:PRO:O	33:D8:64:TYR:O	2.38	0.41
35:DA:1579:A:H2'	35:DA:1580:A:O4'	2.19	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:1665:A:C2'	35:DA:1666:G:H5'	2.50	0.41
35:DA:2179:C:O2	35:DA:2181:G:O6	2.38	0.41
35:DA:2784:C:H1'	39:DE:37:ARG:HH12	1.85	0.41
38:DD:108:PRO:CG	38:DD:111:LEU:HD23	2.50	0.41
38:DD:118:VAL:CG2	38:DD:119:ALA:N	2.82	0.41
38:DD:69:ARG:NH2	38:DD:128:GLY:O	2.44	0.41
39:DE:137:HIS:CB	39:DE:138:PRO:HD2	2.50	0.41
39:DE:51:PHE:CE1	39:DE:52:LEU:HD22	2.50	0.41
40:DF:128:ALA:O	40:DF:130:ALA:N	2.53	0.41
41:DG:28:VAL:O	41:DG:31:VAL:CG1	2.68	0.41
41:DG:82:LEU:CD2	41:DG:83:ARG:N	2.79	0.41
42:DH:156:ALA:HB3	42:DH:159:GLU:CB	2.50	0.41
42:DH:83:TYR:O	42:DH:84:SER:CB	2.68	0.41
43:DI:99:GLU:C	43:DI:101:LEU:H	2.24	0.41
43:DI:10:GLU:O	43:DI:12:LEU:N	2.50	0.41
43:DI:133:HIS:HB2	43:DI:134:PRO:HD2	1.94	0.41
43:DI:57:ARG:HG2	43:DI:61:ARG:NH1	2.26	0.41
43:DI:81:VAL:CG2	43:DI:88:ILE:HG21	2.48	0.41
46:DN:2:LYS:HZ2	53:DU:95:LEU:CD2	2.18	0.41
51:DS:15:ARG:C	51:DS:17:ARG:N	2.73	0.41
52:DT:76:PHE:HA	52:DT:77:PRO:HD3	1.76	0.41
54:DV:52:VAL:O	54:DV:52:VAL:CG2	2.68	0.41
58:DZ:136:PHE:CD1	58:DZ:136:PHE:O	2.73	0.41
58:DZ:89:PHE:CD2	58:DZ:89:PHE:C	2.93	0.41
1:AA:1011:G:H1	1:AA:1018:C:N4	2.19	0.41
1:AA:1111:A:O2'	1:AA:1112:C:H5'	2.19	0.41
1:AA:1170:A:C2'	1:AA:1171:G:H5'	2.51	0.41
1:AA:1376:U:H2'	1:AA:1377:A:C8	2.55	0.41
1:AA:389:A:H2'	1:AA:390:C:C5'	2.50	0.41
1:AA:49:U:O2	1:AA:362:G:H1'	2.19	0.41
1:AA:950:U:H4'	1:AA:971:G:C2	2.55	0.41
1:AA:978:A:OP2	1:AA:1363:C:N4	2.46	0.41
2:AB:97:TRP:HH2	2:AB:176:GLU:HB2	1.84	0.41
3:AC:81:GLY:O	3:AC:85:ARG:HB2	2.21	0.41
4:AD:42:GLN:CG	4:AD:42:GLN:O	2.67	0.41
4:AD:73:ARG:NH1	4:AD:73:ARG:HG2	2.35	0.41
5:AE:127:ASN:O	5:AE:128:PRO:C	2.58	0.41
8:AH:35:ILE:HD13	8:AH:118:VAL:HG11	2.02	0.41
15:AO:82:ILE:HD13	15:AO:83:GLU:N	2.35	0.41
16:AP:45:THR:HG23	16:AP:46:PRO:CD	2.47	0.41
18:AR:37:VAL:HG23	18:AR:38:GLU:N	2.26	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:AU:2:GLY:C	21:AU:4:GLY:N	2.72	0.41
24:AY:118:LEU:HD11	24:AY:180:LEU:HD13	2.02	0.41
24:AY:151:VAL:CG1	24:AY:169:ILE:HG21	2.50	0.41
24:AY:72:LEU:C	24:AY:74:GLU:H	2.24	0.41
25:B0:26:TYR:O	25:B0:29:GLN:HB2	2.20	0.41
26:B1:29:GLY:O	26:B1:30:VAL:HG22	2.20	0.41
26:B1:45:ASN:C	26:B1:45:ASN:ND2	2.73	0.41
35:BA:156:U:C5'	35:BA:158:U:H5	2.32	0.41
35:BA:1683:C:H2'	35:BA:1684:C:H6	1.86	0.41
35:BA:1923:U:O2'	35:BA:1924:C:H5'	2.19	0.41
35:BA:2124:G:C2'	35:BA:2125:G:H5'	2.49	0.41
35:BA:236:C:H2'	35:BA:237:C:C6	2.55	0.41
35:BA:352:G:H4'	35:BA:353:G:N7	2.35	0.41
35:BA:364:C:C2'	35:BA:365:C:H5''	2.51	0.41
35:BA:716:A:H3'	35:BA:717:G:H5''	2.02	0.41
35:BA:803:U:O2'	35:BA:804:A:H5'	2.20	0.41
37:BC:52:PRO:C	37:BC:54:ARG:H	2.23	0.41
38:BD:198:ASN:CG	38:BD:198:ASN:O	2.59	0.41
38:BD:35:LYS:CG	38:BD:63:ARG:HD2	2.47	0.41
39:BE:137:HIS:HB3	39:BE:138:PRO:HD2	2.02	0.41
39:BE:32:PRO:HA	39:BE:69:LYS:HE3	2.01	0.41
39:BE:60:ASN:O	39:BE:63:LEU:HB2	2.19	0.41
40:BF:53:THR:C	40:BF:55:GLY:H	2.22	0.41
41:BG:171:ALA:O	41:BG:172:LEU:C	2.59	0.41
41:BG:5:VAL:CG1	41:BG:6:ALA:N	2.80	0.41
42:BH:138:LYS:O	42:BH:141:VAL:N	2.53	0.41
44:BJ:102:UNK:HA	44:BJ:106:UNK:CB	2.50	0.41
45:BK:5:VAL:O	45:BK:5:VAL:HG13	2.19	0.41
54:BV:60:GLU:O	54:BV:62:LEU:HD22	2.20	0.41
57:BY:8:LYS:N	57:BY:8:LYS:CD	2.76	0.41
58:BZ:29:TYR:HB3	58:BZ:34:ASN:CB	2.50	0.41
1:CA:1216:G:O2'	1:CA:1217:C:H5'	2.19	0.41
1:CA:1516:G:H2'	1:CA:1518:A:OP2	2.19	0.41
1:CA:151:A:C2'	1:CA:152:A:H5'	2.49	0.41
1:CA:271:C:O2'	1:CA:272:C:H5'	2.20	0.41
2:CB:115:LEU:O	2:CB:118:LEU:HB2	2.20	0.41
3:CC:138:VAL:CG2	3:CC:151:VAL:HG23	2.51	0.41
3:CC:186:PHE:HZ	3:CC:188:LEU:HD11	1.82	0.41
3:CC:47:LEU:HD21	3:CC:68:VAL:CG1	2.50	0.41
4:CD:61:LYS:HD3	4:CD:206:PHE:CE2	2.55	0.41
7:CG:129:GLU:HG2	7:CG:129:GLU:O	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:CI:9:ARG:HG2	9:CI:14:VAL:CG2	2.41	0.41
10:CJ:28:ARG:NH1	10:CJ:28:ARG:HG2	2.34	0.41
1:CA:973:G:C1'	10:CJ:55:LYS:HE2	2.48	0.41
7:CG:150:ALA:HB2	11:CK:50:TYR:OH	2.20	0.41
15:CO:82:ILE:HD13	15:CO:83:GLU:N	2.35	0.41
1:CA:659:U:OP1	15:CO:9:GLN:NE2	2.53	0.41
17:CQ:33:GLY:O	17:CQ:34:LYS:C	2.59	0.41
20:CT:89:ARG:CZ	20:CT:104:LEU:HD21	2.50	0.41
20:CT:96:GLY:O	20:CT:97:ALA:C	2.59	0.41
22:CV:18:G:H21	22:CV:58:A:C5'	2.32	0.41
24:CY:224:PRO:C	24:CY:227:LEU:HB2	2.40	0.41
24:CY:242:VAL:HA	24:CY:245:THR:HG22	2.02	0.41
25:D0:68:GLU:OE2	25:D0:82:ARG:HB2	2.20	0.41
26:D1:17:SER:O	26:D1:37:ILE:HA	2.20	0.41
30:D5:4:HIS:HD2	35:DA:2056:G:H1	1.67	0.41
33:D8:61:LEU:HD12	33:D8:62:LEU:H	1.85	0.41
33:D8:61:LEU:HD12	33:D8:62:LEU:HG	2.02	0.41
35:DA:1115:G:C2	35:DA:1116:C:H1'	2.56	0.41
35:DA:1281:G:H5'	35:DA:1281:G:C8	2.49	0.41
35:DA:1348:G:C2'	35:DA:1349:A:C5'	2.92	0.41
35:DA:16:G:O2'	35:DA:17:G:H5'	2.19	0.41
35:DA:2277:G:H2'	35:DA:2278:A:H5'	2.02	0.41
35:DA:2291:U:OP1	35:DA:2381:C:H5'	2.20	0.41
35:DA:234:C:O2'	35:DA:235:U:H5'	2.20	0.41
35:DA:2676:C:H2'	35:DA:2677:G:H8	1.85	0.41
35:DA:2737:G:H2'	35:DA:2738:A:C8	2.53	0.41
35:DA:335:C:H4'	57:DY:73:ARG:CZ	2.50	0.41
35:DA:341:G:C2'	35:DA:342:G:H5'	2.49	0.41
35:DA:819:A:OP2	35:DA:1187:G:N2	2.43	0.41
38:DD:76:PRO:O	38:DD:98:VAL:HG23	2.20	0.41
35:DA:2572:A:N7	39:DE:145:LYS:HB2	2.35	0.41
39:DE:61:ARG:HB3	39:DE:62:PRO:CD	2.50	0.41
40:DF:136:THR:O	40:DF:137:LYS:C	2.59	0.41
40:DF:25:PRO:HB3	40:DF:119:ARG:HD3	2.01	0.41
40:DF:34:TRP:CZ2	48:DP:12:ALA:HB2	2.55	0.41
40:DF:68:LYS:HB3	40:DF:69:HIS:H	1.52	0.41
29:D4:33:VAL:HG21	41:DG:109:VAL:HG13	2.02	0.41
43:DI:120:ILE:O	43:DI:121:LYS:C	2.58	0.41
46:DN:89:LYS:O	46:DN:93:THR:CG2	2.68	0.41
47:DO:2:ILE:CD1	47:DO:6:THR:HG21	2.50	0.41
48:DP:102:ARG:HH21	48:DP:102:ARG:HB2	1.85	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
49:DQ:29:PHE:N	49:DQ:105:GLU:OE2	2.52	0.41
50:DR:44:LEU:HD12	50:DR:114:VAL:HG11	2.02	0.41
51:DS:74:ALA:HB1	51:DS:103:GLU:CG	2.49	0.41
51:DS:90:GLY:C	51:DS:92:TYR:H	2.23	0.41
47:DO:77:ILE:CD1	52:DT:74:ARG:HD3	2.42	0.41
57:DY:90:LEU:CD1	57:DY:91:GLU:HG2	2.50	0.41
58:DZ:139:VAL:CG2	58:DZ:155:LEU:HD12	2.50	0.41
1:AA:1434:A:O2'	1:AA:1435:G:H5'	2.18	0.41
1:AA:1463:C:H2'	1:AA:1464:G:C8	2.54	0.41
1:AA:189(C):C:C2'	1:AA:189(D):C:H5'	2.50	0.41
1:AA:890:G:O2'	1:AA:906:G:O6	2.37	0.41
2:AB:145:LEU:O	2:AB:149:LEU:HB2	2.20	0.41
2:AB:164:VAL:HG11	2:AB:170:GLU:HB2	2.01	0.41
3:AC:74:GLY:O	3:AC:76:VAL:N	2.54	0.41
9:AI:113:LYS:H	9:AI:119:ALA:HA	1.85	0.41
13:AM:66:LEU:O	13:AM:70:LEU:HB2	2.20	0.41
14:AN:4:LYS:HD3	14:AN:7:ILE:HD11	2.02	0.41
20:AT:57:ARG:HH12	20:AT:100:ILE:CG1	2.33	0.41
22:AW:15:G:H22	22:AW:59:U:C2'	2.33	0.41
24:AY:330:ARG:NH2	24:AY:343:ASP:OD1	2.54	0.41
24:AY:320:TYR:CA	24:AY:333:PRO:HD3	2.49	0.41
24:AY:270:LYS:CD	25:B0:5:LYS:HD3	2.50	0.41
29:B4:31:ILE:HG22	29:B4:32:TYR:N	2.35	0.41
32:B7:5:TRP:CD1	32:B7:7:PRO:HD3	2.55	0.41
35:BA:1057:A:H62	35:BA:1086:A:H2'	1.86	0.41
35:BA:1409:C:H2'	35:BA:1410:G:C8	2.55	0.41
35:BA:2165:G:C2'	35:BA:2166:G:H5'	2.50	0.41
35:BA:2463:C:C2'	35:BA:2464:C:H5'	2.50	0.41
35:BA:880:G:C2	35:BA:881:G:C8	3.07	0.41
37:BC:7:ARG:NH2	37:BC:219:MET:HB3	2.35	0.41
38:BD:116:GLN:HG3	38:BD:117:VAL:N	2.36	0.41
39:BE:182:LEU:O	39:BE:183:LEU:HD12	2.20	0.41
39:BE:78:LEU:O	39:BE:78:LEU:HD12	2.19	0.41
35:BA:2757:A:N1	42:BH:67:LEU:HD22	2.35	0.41
35:BA:1056:G:OP1	44:BJ:34:UNK:HA	2.20	0.41
46:BN:82:LEU:HA	46:BN:82:LEU:HD12	1.85	0.41
46:BN:93:THR:O	46:BN:94:HIS:CB	2.67	0.41
50:BR:59:ASP:OD2	50:BR:59:ASP:N	2.54	0.41
51:BS:84:GLN:HB3	51:BS:105:ALA:HB3	2.02	0.41
35:BA:1216:G:OP2	53:BU:12:ARG:NH2	2.53	0.41
58:BZ:77:ASP:CG	58:BZ:77:ASP:O	2.58	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:134:A:H61	16:CP:25:ARG:HH12	1.67	0.41
1:CA:142:G:H2'	1:CA:143:A:H8	1.85	0.41
1:CA:153:C:O2'	1:CA:154:C:H5'	2.20	0.41
1:CA:363:A:N7	12:CL:30:ALA:HB1	2.35	0.41
1:CA:448:A:P	1:CA:485:G:H22	2.43	0.41
1:CA:559:A:H4'	1:CA:560:U:C5'	2.50	0.41
1:CA:705:U:C5	1:CA:706:A:C5	3.09	0.41
1:CA:939:G:O3'	7:CG:102:ARG:NH1	2.54	0.41
1:CA:978:A:OP2	1:CA:1363:C:N4	2.46	0.41
2:CB:162:ILE:HD11	2:CB:184:VAL:HG13	2.02	0.41
3:CC:48:TYR:HA	3:CC:52:LEU:CD2	2.50	0.41
3:CC:58:GLU:H	3:CC:65:ALA:HB3	1.84	0.41
5:CE:102:ALA:HB2	5:CE:120:THR:OG1	2.20	0.41
5:CE:64:ARG:HB2	5:CE:64:ARG:CZ	2.51	0.41
9:CI:104:ARG:HH11	9:CI:104:ARG:HG3	1.85	0.41
9:CI:81:ILE:HG22	9:CI:81:ILE:O	2.21	0.41
9:CI:99:LEU:HB3	9:CI:101:PHE:CE1	2.55	0.41
12:CL:35:GLY:HA3	12:CL:58:VAL:HG11	2.01	0.41
13:CM:65:LYS:O	13:CM:65:LYS:HG3	2.19	0.41
1:CA:376:G:O3'	16:CP:5:ARG:HD2	2.20	0.41
17:CQ:59:ILE:HG22	17:CQ:71:PHE:CD1	2.55	0.41
19:CS:31:ILE:HG22	19:CS:48:THR:O	2.20	0.41
19:CS:33:THR:CG2	19:CS:51:VAL:HA	2.49	0.41
24:CY:117:ILE:HG12	24:CY:170:LEU:HD13	2.02	0.41
31:D6:25:LYS:NZ	35:DA:2284:C:N4	2.66	0.41
33:D8:56:GLU:HA	33:D8:59:LYS:CE	2.50	0.41
35:DA:1308:A:H2'	35:DA:1309:G:O4'	2.20	0.41
35:DA:1351:C:H2'	35:DA:1352:U:C6	2.55	0.41
35:DA:1386:C:OP2	35:DA:1396:U:H5	2.03	0.41
1:CA:1407:C:O2'	35:DA:1912:A:N1	2.44	0.41
35:DA:2038:G:H2'	35:DA:2039:C:O4'	2.20	0.41
35:DA:2757:A:N1	42:DH:67:LEU:HD22	2.35	0.41
35:DA:247:G:H4'	35:DA:386:G:C5	2.55	0.41
36:DB:111:G:C2'	36:DB:112:U:H5'	2.51	0.41
35:DA:958:U:O2	36:DB:90:A:H4'	2.19	0.41
38:DD:176:ARG:HH11	38:DD:176:ARG:HG2	1.85	0.41
38:DD:35:LYS:NZ	38:DD:35:LYS:CB	2.83	0.41
39:DE:35:GLN:HB3	39:DE:48:GLN:HB3	2.03	0.41
40:DF:196:LEU:HD23	40:DF:196:LEU:HA	1.74	0.41
35:DA:1078:U:H5''	45:DK:132:ARG:HH12	1.86	0.41
46:DN:24:GLY:HA2	46:DN:27:ALA:HB3	2.01	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
48:DP:105:LEU:HD12	48:DP:105:LEU:N	2.34	0.41
48:DP:40:SER:O	48:DP:41:ARG:NH1	2.53	0.41
48:DP:47:ASP:CB	48:DP:48:PRO:CA	2.97	0.41
49:DQ:27:VAL:CG2	49:DQ:137:TYR:CD1	3.02	0.41
50:DR:116:LEU:HA	50:DR:116:LEU:HD23	1.79	0.41
30:D5:45:VAL:HG23	50:DR:99:LYS:O	2.20	0.41
51:DS:63:THR:O	51:DS:66:ALA:HB3	2.21	0.41
52:DT:129:ARG:O	52:DT:129:ARG:CG	2.64	0.41
52:DT:63:VAL:O	52:DT:73:GLU:HA	2.20	0.41
53:DU:78:THR:O	53:DU:81:HIS:N	2.53	0.41
54:DV:19:LYS:HZ3	54:DV:20:LEU:HB2	1.85	0.41
54:DV:21:ARG:HG2	54:DV:91:TYR:CG	2.55	0.41
54:DV:43:GLU:O	54:DV:44:LYS:C	2.59	0.41
55:DW:64:MET:HB3	55:DW:64:MET:HE2	1.93	0.41
58:DZ:93:ASP:O	58:DZ:130:PRO:HD2	2.20	0.41
58:DZ:150:LEU:HD23	58:DZ:171:ILE:HG13	2.02	0.41
58:DZ:79:ARG:O	58:DZ:79:ARG:HG3	2.20	0.41
1:AA:1206:G:O2'	3:AC:193:TYR:HA	2.20	0.41
1:AA:1316:G:O3'	14:AN:18:VAL:HG13	2.20	0.41
1:AA:148:G:O2'	1:AA:149:A:H5'	2.20	0.41
1:AA:355:C:C4	1:AA:356:A:N7	2.88	0.41
1:AA:521:G:O5'	12:AL:73:GLU:HG2	2.20	0.41
1:AA:536:C:H2'	1:AA:537:G:C8	2.54	0.41
1:AA:559:A:H4'	1:AA:560:U:C5'	2.49	0.41
1:AA:629:G:H2'	1:AA:630:G:O4'	2.20	0.41
1:AA:832:C:O2'	1:AA:833:U:P	2.77	0.41
2:AB:193:ASP:OD2	2:AB:193:ASP:O	2.38	0.41
3:AC:14:ILE:O	3:AC:16:ARG:N	2.52	0.41
4:AD:128:VAL:CG1	4:AD:129:ASN:N	2.59	0.41
4:AD:196:LEU:CD1	4:AD:196:LEU:H	2.24	0.41
5:AE:8:GLU:CA	5:AE:34:VAL:HG23	2.50	0.41
7:AG:54:THR:OG1	7:AG:56:GLN:HG2	2.21	0.41
7:AG:95:ARG:O	7:AG:96:GLN:C	2.59	0.41
10:AJ:18:ALA:O	10:AJ:22:LYS:HB2	2.21	0.41
10:AJ:25:GLU:C	10:AJ:27:ALA:H	2.24	0.41
11:AK:31:THR:O	11:AK:31:THR:HG23	2.20	0.41
14:AN:12:ARG:CZ	14:AN:12:ARG:HB2	2.49	0.41
19:AS:12:ASP:HB3	19:AS:14:HIS:CE1	2.55	0.41
22:AW:11:C:O5'	22:AW:11:C:H6	2.03	0.41
23:AX:17:U:O2'	23:AX:18:C:H5'	2.21	0.41
24:AY:83:GLU:CG	24:AY:83:GLU:O	2.68	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:B8:17:THR:OG1	33:B8:21:LYS:HB2	2.20	0.41
35:BA:107:C:O2'	35:BA:108:U:H5'	2.21	0.41
35:BA:1109:C:O2	35:BA:1109:C:C3'	2.69	0.41
35:BA:1170:G:H1	35:BA:1179:C:N4	1.99	0.41
35:BA:1386:C:OP2	35:BA:1396:U:H5	2.03	0.41
35:BA:387:U:H4'	35:BA:388:G:O5'	2.20	0.41
36:BB:104:U:H5''	49:BQ:141:GLN:HE21	1.86	0.41
38:BD:108:PRO:HA	38:BD:196:VAL:O	2.20	0.41
40:BF:68:LYS:O	40:BF:70:THR:N	2.49	0.41
41:BG:131:TYR:O	41:BG:159:VAL:HG12	2.20	0.41
41:BG:68:PRO:HB2	41:BG:90:LEU:CD1	2.50	0.41
42:BH:85:LYS:O	42:BH:85:LYS:HD3	2.19	0.41
44:BJ:16:UNK:O	44:BJ:17:UNK:CB	2.68	0.41
47:BO:115:VAL:CG1	47:BO:121:VAL:HG21	2.50	0.41
47:BO:17:ARG:HH12	47:BO:47:ILE:CD1	2.33	0.41
48:BP:48:PRO:CG	48:BP:49:ARG:H	2.31	0.41
51:BS:85:VAL:O	51:BS:106:ARG:CG	2.65	0.41
51:BS:12:PHE:O	51:BS:13:ARG:C	2.58	0.41
55:BW:18:ARG:CG	55:BW:76:VAL:CG1	2.97	0.41
56:BX:64:LYS:CD	56:BX:73:ARG:CZ	2.97	0.41
1:CA:1076:C:C2'	1:CA:1077:G:H5'	2.50	0.41
1:CA:1128:C:O2'	1:CA:1130:A:C8	2.72	0.41
1:CA:1131:G:C6	1:CA:1132:C:N4	2.88	0.41
1:CA:376:G:P	16:CP:67:THR:HG21	2.60	0.41
4:CD:119:GLN:CG	4:CD:123:HIS:CD2	3.04	0.41
4:CD:20:TYR:HA	4:CD:26:CYS:SG	2.60	0.41
6:CF:30:LEU:HD12	6:CF:37:VAL:CG2	2.50	0.41
7:CG:15:ASP:OD2	7:CG:16:LEU:N	2.51	0.41
10:CJ:25:GLU:C	10:CJ:27:ALA:H	2.24	0.41
13:CM:37:THR:O	13:CM:39:ILE:HG13	2.21	0.41
15:CO:25:THR:O	15:CO:26:GLU:C	2.58	0.41
15:CO:43:LEU:HD11	15:CO:53:HIS:HA	2.03	0.41
16:CP:82:GLN:N	16:CP:82:GLN:OE1	2.45	0.41
20:CT:57:ARG:NH1	20:CT:100:ILE:CG1	2.83	0.41
20:CT:26:ASN:HB2	20:CT:71:THR:HG23	2.03	0.41
22:CW:28:G:N2	22:CW:43:C:N3	2.68	0.41
25:D0:24:LYS:HG3	25:D0:36:ILE:HD11	2.02	0.41
26:D1:71:TYR:O	26:D1:74:VAL:HB	2.20	0.41
31:D6:25:LYS:HB2	33:D8:34:TRP:HE1	1.85	0.41
33:D8:50:LEU:HA	33:D8:53:PRO:HG3	2.01	0.41
34:D9:8:LYS:HE3	35:DA:1032:A:OP1	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:1049:C:C5	35:DA:1111:A:C2	3.08	0.41
35:DA:2033:A:O2'	35:DA:2034:U:P	2.78	0.41
35:DA:2332:U:H5'	35:DA:2336:A:N6	2.34	0.41
35:DA:1027:A:C2	35:DA:2488:A:H5'	2.54	0.41
35:DA:375:C:H2'	35:DA:376:C:C6	2.55	0.41
35:DA:605:C:H1'	35:DA:657:U:O2'	2.20	0.41
37:DC:10:ALA:O	37:DC:13:GLU:HG2	2.20	0.41
37:DC:46:ALA:HB1	37:DC:212:SER:O	2.20	0.41
22:CW:62:C:C4'	37:DC:53:ARG:HG3	2.51	0.41
37:DC:6:LYS:O	37:DC:7:ARG:C	2.59	0.41
38:DD:116:GLN:HG3	38:DD:117:VAL:N	2.35	0.41
39:DE:70:ALA:O	39:DE:71:GLY:C	2.59	0.41
41:DG:62:LEU:HD12	41:DG:62:LEU:O	2.20	0.41
41:DG:92:VAL:HG22	41:DG:93:THR:N	2.35	0.41
42:DH:86:GLU:HA	42:DH:132:ARG:HA	2.02	0.41
43:DI:9:LEU:HD22	43:DI:12:LEU:HG	2.01	0.41
46:DN:126:PRO:O	46:DN:127:ASP:CB	2.67	0.41
46:DN:93:THR:O	46:DN:94:HIS:CB	2.68	0.41
48:DP:48:PRO:CG	48:DP:49:ARG:N	2.84	0.41
48:DP:47:ASP:HB2	48:DP:51:PHE:HB2	2.03	0.41
49:DQ:29:PHE:HB2	49:DQ:105:GLU:OE2	2.21	0.41
50:DR:11:ASN:O	50:DR:12:ARG:CB	2.68	0.41
53:DU:76:TYR:CZ	53:DU:80:ILE:HG13	2.56	0.41
53:DU:88:ILE:CG2	54:DV:47:VAL:HG23	2.43	0.41
54:DV:76:LYS:HB2	54:DV:81:TYR:HB3	2.03	0.41
56:DX:8:ILE:H	56:DX:8:ILE:HD12	1.82	0.41
1:AA:1018:C:H2'	1:AA:1019:C:O4'	2.19	0.41
1:AA:1254:C:H2'	1:AA:1255:G:H8	1.85	0.41
1:AA:1269:A:H2	1:AA:1312:G:N3	2.17	0.41
1:AA:1374:A:C4	1:AA:1375:A:C8	3.08	0.41
1:AA:141:A:H1'	1:AA:182:U:O2	2.21	0.41
1:AA:253:U:H2'	1:AA:254:G:C8	2.55	0.41
1:AA:276:G:C5	1:AA:277:C:C5	3.08	0.41
1:AA:570:G:H2'	1:AA:571:U:C6	2.55	0.41
1:AA:767:A:H2'	1:AA:768:A:O4'	2.21	0.41
2:AB:119:GLU:C	2:AB:121:LEU:N	2.74	0.41
2:AB:119:GLU:O	2:AB:121:LEU:N	2.52	0.41
2:AB:12:GLU:O	2:AB:14:GLY:N	2.53	0.41
3:AC:122:GLU:C	3:AC:124:ILE:N	2.74	0.41
3:AC:113:ALA:HB1	3:AC:185:GLY:N	2.36	0.41
4:AD:132:ARG:NH1	4:AD:132:ARG:CG	2.84	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AD:61:LYS:HA	4:AD:203:VAL:HG22	2.01	0.41
7:AG:129:GLU:O	7:AG:129:GLU:HG2	2.19	0.41
1:AA:963:G:N2	10:AJ:55:LYS:HD2	2.36	0.41
11:AK:20:TYR:O	11:AK:30:VAL:HA	2.21	0.41
13:AM:67:GLU:O	13:AM:69:GLU:N	2.54	0.41
13:AM:68:GLY:O	13:AM:69:GLU:HB2	2.20	0.41
17:AQ:50:LYS:HG2	17:AQ:51:TYR:CE1	2.56	0.41
1:AA:267:C:OP2	17:AQ:67:LYS:HD2	2.20	0.41
18:AR:85:LEU:HD12	18:AR:85:LEU:N	2.36	0.41
21:AU:6:ARG:HG2	21:AU:15:ARG:NH1	2.35	0.41
22:AW:2:C:O2	22:AW:2:C:H2'	2.19	0.41
22:AW:36:A:H2'	22:AW:37:A:O4'	2.20	0.41
22:AW:52:G:H1'	22:AW:63:G:O6	2.20	0.41
24:AY:235:SER:H	24:AY:263:GLN:NE2	2.18	0.41
29:B4:12:ALA:HA	29:B4:29:PRO:HB3	2.02	0.41
35:BA:1040:C:O2'	35:BA:1041:C:P	2.79	0.41
35:BA:1412:A:H2'	35:BA:1413:G:H8	1.85	0.41
35:BA:1490:A:H2'	38:BD:99:ASP:OD2	2.20	0.41
35:BA:1539:G:H2'	35:BA:1540:U:C5'	2.50	0.41
35:BA:1541:G:C4'	35:BA:1542:A:O4'	2.65	0.41
35:BA:1860:G:O3'	37:BC:206:LYS:HB2	2.21	0.41
35:BA:2287:A:N1	35:BA:2346:A:C2	2.89	0.41
35:BA:2676:C:H2'	35:BA:2677:G:H8	1.85	0.41
35:BA:272(B):G:H2'	35:BA:272(C):G:H8	1.85	0.41
35:BA:330:A:HO2'	35:BA:331:A:H8	1.59	0.41
25:B0:74:ARG:CG	36:BB:12:C:O2'	2.63	0.41
35:BA:2784:C:H1'	39:BE:37:ARG:NH1	2.35	0.41
42:BH:109:PHE:O	42:BH:111:HIS:N	2.50	0.41
43:BI:43:ASN:HA	43:BI:46:ALA:CB	2.42	0.41
43:BI:88:ILE:HG22	43:BI:90:GLY:N	2.35	0.41
45:BK:107:ILE:HD12	45:BK:110:GLN:HG3	2.03	0.41
45:BK:20:ALA:CB	45:BK:25:PRO:HD3	2.50	0.41
45:BK:69:THR:HG22	45:BK:70:LYS:N	2.34	0.41
46:BN:123:TYR:C	46:BN:125:GLY:H	2.23	0.41
48:BP:47:ASP:CB	48:BP:48:PRO:CA	2.95	0.41
48:BP:88:LEU:O	48:BP:89:ALA:C	2.58	0.41
49:BQ:65:PHE:HB2	49:BQ:105:GLU:HB2	2.02	0.41
49:BQ:116:GLU:O	49:BQ:120:ILE:HG12	2.20	0.41
50:BR:63:ARG:NH1	50:BR:80:PHE:CD1	2.89	0.41
51:BS:63:THR:O	51:BS:66:ALA:HB3	2.21	0.41
52:BT:128:GLU:CD	52:BT:129:ARG:N	2.73	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
52:BT:41:ARG:O	52:BT:42:ILE:C	2.59	0.41
54:BV:1:MET:HB3	54:BV:99:ILE:HG13	2.01	0.41
58:BZ:64:GLY:O	58:BZ:65:GLN:C	2.57	0.41
1:CA:1053:G:H3'	1:CA:1054:C:H5'	2.01	0.41
1:CA:1109:C:H2'	1:CA:1110:A:O4'	2.21	0.41
1:CA:1170:A:C2'	1:CA:1171:G:H5'	2.50	0.41
1:CA:1327:C:H5''	21:CU:20:LYS:HB3	2.02	0.41
1:CA:59:A:H3'	1:CA:331:G:H22	1.85	0.41
1:CA:662:G:H2'	1:CA:663:A:C8	2.56	0.41
1:CA:764:C:O2'	1:CA:765:G:H5'	2.21	0.41
2:CB:112:VAL:C	2:CB:114:ARG:N	2.71	0.41
2:CB:47:THR:HG22	2:CB:51:LEU:CD1	2.50	0.41
4:CD:128:VAL:CG1	4:CD:129:ASN:ND2	2.82	0.41
5:CE:110:LEU:CD2	5:CE:139:LEU:HD21	2.51	0.41
5:CE:127:ASN:O	5:CE:128:PRO:C	2.59	0.41
9:CI:15:ALA:CA	9:CI:65:VAL:HA	2.48	0.41
16:CP:18:ARG:O	16:CP:19:ILE:C	2.59	0.41
17:CQ:6:LEU:O	17:CQ:58:GLU:HA	2.21	0.41
6:CF:97:PHE:CB	18:CR:32:ARG:HH11	2.34	0.41
22:CV:76:8AN:H3'	24:CY:240:GLN:H	1.85	0.41
22:CW:48:C:H3'	22:CW:50:U:C5	2.56	0.41
24:CY:118:LEU:HD22	24:CY:208:VAL:HG13	2.01	0.41
27:D2:45:SER:O	27:D2:46:GLN:OE1	2.38	0.41
27:D2:64:LEU:O	27:D2:68:ARG:HG3	2.21	0.41
33:D8:33:ASN:O	35:DA:2420:C:P	2.79	0.41
25:D0:42:GLY:HA2	35:DA:2330:G:H21	1.85	0.41
35:DA:2811:G:C2'	35:DA:2812:G:H5'	2.50	0.41
35:DA:622:G:O2'	35:DA:623:G:H5'	2.20	0.41
35:DA:642:G:H21	35:DA:646:A:H2	1.59	0.41
35:DA:716:A:H3'	35:DA:717:G:H5''	2.03	0.41
35:DA:717:G:H2'	35:DA:718:A:O4'	2.20	0.41
35:DA:784:A:C8	35:DA:792:G:C5	3.08	0.41
35:DA:813:U:H2'	35:DA:814:C:C6	2.55	0.41
35:DA:898:C:H2'	35:DA:899:A:H5'	2.00	0.41
35:DA:904:C:H2'	35:DA:905:U:C6	2.56	0.41
37:DC:176:VAL:HB	37:DC:189:ASN:HD22	1.86	0.41
38:DD:101:GLU:HG2	38:DD:102:LYS:N	2.35	0.41
38:DD:257:LEU:C	38:DD:257:LEU:HD13	2.41	0.41
35:DA:2580:U:H5'	39:DE:131:ALA:N	2.36	0.41
39:DE:181:LEU:HD21	52:DT:7:ILE:HG23	2.01	0.41
39:DE:53:PRO:O	39:DE:54:GLN:C	2.59	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:DF:108:LYS:O	40:DF:112:MET:HG3	2.20	0.41
40:DF:33:LEU:O	40:DF:37:VAL:HG23	2.21	0.41
41:DG:125:PHE:HB3	41:DG:166:ASP:HB2	2.01	0.41
35:DA:271(K):U:O2	43:DI:50:ARG:HD3	2.20	0.41
45:DK:23:VAL:O	45:DK:23:VAL:CG1	2.69	0.41
47:DO:8:LEU:N	47:DO:8:LEU:HD22	2.35	0.41
48:DP:100:LEU:CD1	48:DP:112:LEU:HD21	2.48	0.41
48:DP:48:PRO:CG	48:DP:49:ARG:H	2.31	0.41
49:DQ:65:PHE:HB2	49:DQ:105:GLU:HB2	2.02	0.41
50:DR:83:ILE:O	50:DR:84:ALA:C	2.59	0.41
54:DV:85:LYS:HE2	54:DV:85:LYS:HB2	1.88	0.41
54:DV:1:MET:CB	54:DV:99:ILE:HG13	2.50	0.41
56:DX:8:ILE:N	56:DX:8:ILE:CD1	2.80	0.41
58:DZ:185:GLU:O	58:DZ:187:ALA:N	2.53	0.41
1:AA:1054:C:O2	1:AA:1054:C:C3'	2.65	0.41
1:AA:1224:G:H4'	13:AM:102:ARG:HH11	1.85	0.41
1:AA:1416:G:C6	1:AA:1417:G:C4	3.09	0.41
1:AA:272:C:O2'	1:AA:273:A:H5'	2.21	0.41
1:AA:328:C:HO2'	1:AA:329:A:P	2.42	0.41
1:AA:851:G:H2'	1:AA:852:G:H8	1.85	0.41
1:AA:827:U:H2'	1:AA:870:U:O4	2.20	0.41
1:AA:972:C:OP2	10:AJ:57:LYS:HE2	2.21	0.41
4:AD:58:LEU:CD2	4:AD:62:GLN:CG	2.98	0.41
5:AE:41:VAL:HG21	5:AE:113:ALA:CB	2.51	0.41
7:AG:113:GLU:O	7:AG:119:ARG:HD3	2.20	0.41
10:AJ:76:ASN:HA	10:AJ:77:PRO:HD2	1.92	0.41
18:AR:53:ARG:NH2	18:AR:59:SER:HA	2.36	0.41
31:B6:25:LYS:NZ	35:BA:2284:C:N4	2.65	0.41
33:B8:37:SER:O	33:B8:40:GLU:HB2	2.20	0.41
33:B8:59:LYS:HE3	33:B8:59:LYS:HB2	1.90	0.41
34:B9:17:ILE:CG1	34:B9:26:ILE:HD13	2.50	0.41
34:B9:18:ARG:NE	35:BA:1034:G:H5'	2.35	0.41
35:BA:1230:C:H2'	35:BA:1231:G:H8	1.83	0.41
35:BA:1366:A:H2'	35:BA:1367:A:C5'	2.50	0.41
35:BA:1601:G:OP2	56:BX:58:HIS:HD2	2.03	0.41
35:BA:1652:A:O2'	35:BA:1653:G:H5'	2.20	0.41
30:B5:6:VAL:CG1	35:BA:2016:U:H1'	2.51	0.41
35:BA:259:G:H1'	35:BA:621:A:O2'	2.20	0.41
35:BA:271(H):G:O2'	35:BA:271(I):G:P	2.79	0.41
35:BA:626:U:H5''	35:BA:627:A:C5'	2.49	0.41
40:BF:53:THR:C	40:BF:55:GLY:N	2.74	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:BF:8:GLN:HG2	40:BF:126:VAL:CG1	2.48	0.41
41:BG:60:LEU:C	41:BG:60:LEU:HD13	2.41	0.41
45:BK:54:PRO:O	45:BK:70:LYS:HD3	2.20	0.41
46:BN:89:LYS:NZ	46:BN:89:LYS:CB	2.83	0.41
48:BP:115:LEU:HG	48:BP:116:GLY:N	2.35	0.41
48:BP:71:VAL:HG12	48:BP:72:PRO:HD3	2.00	0.41
50:BR:7:GLY:CA	50:BR:8:ARG:HH21	2.23	0.41
52:BT:28:VAL:HG11	52:BT:46:GLU:CD	2.40	0.41
54:BV:55:ALA:HA	54:BV:101:GLY:HA2	2.01	0.41
1:CA:1015:A:H8	1:CA:1015:A:O5'	2.03	0.41
1:CA:1129:C:H41	1:CA:1135:U:H3	1.68	0.41
1:CA:1252:A:H2'	1:CA:1253:G:O4'	2.21	0.41
1:CA:1328:C:H2'	1:CA:1329:A:H8	1.86	0.41
1:CA:937:A:H1'	1:CA:1379:G:N2	2.36	0.41
1:CA:926:G:C6	1:CA:1505:G:C6	3.09	0.41
1:CA:226:G:H2'	1:CA:227:G:H8	1.85	0.41
1:CA:640:A:O2'	1:CA:641:U:H5'	2.20	0.41
2:CB:35:GLU:HA	2:CB:39:ILE:O	2.21	0.41
4:CD:11:LEU:HD13	4:CD:66:ARG:HD3	2.02	0.41
5:CE:45:PHE:CE2	5:CE:47:LYS:HD2	2.56	0.41
5:CE:41:VAL:HG21	5:CE:69:VAL:HG21	2.01	0.41
6:CF:20:ALA:O	6:CF:24:GLU:HB2	2.20	0.41
6:CF:33:TYR:OH	6:CF:78:GLU:HB2	2.21	0.41
1:CA:939:G:P	7:CG:95:ARG:HH22	2.44	0.41
10:CJ:18:ALA:O	10:CJ:22:LYS:HB2	2.21	0.41
12:CL:53:ARG:CB	12:CL:93:LEU:HD11	2.50	0.41
13:CM:122:LYS:O	13:CM:123:ALA:HB2	2.20	0.41
13:CM:67:GLU:O	13:CM:69:GLU:N	2.54	0.41
16:CP:18:ARG:HD3	16:CP:35:LYS:CE	2.47	0.41
18:CR:61:LYS:HG2	18:CR:65:ILE:HD11	2.02	0.41
19:CS:58:VAL:HG21	19:CS:75:ALA:CB	2.51	0.41
1:CA:192:U:H1'	20:CT:103:GLY:HA2	2.02	0.41
22:CV:36:A:C2	23:CX:17:U:O2	2.74	0.41
27:D2:7:ARG:HG2	27:D2:7:ARG:NH1	2.36	0.41
35:DA:1053:C:H2'	35:DA:1054:A:C8	2.54	0.41
35:DA:1055:G:H2'	35:DA:1056:G:H5'	2.01	0.41
35:DA:1057:A:H62	35:DA:1086:A:H2'	1.84	0.41
35:DA:1540:U:C4	35:DA:1541:G:N7	2.89	0.41
35:DA:1666:G:O2'	35:DA:1667:G:H5'	2.21	0.41
35:DA:2100:G:H1	35:DA:2189:U:H3	1.69	0.41
35:DA:2023:G:H4'	35:DA:2617:C:O3'	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:271(F):C:H2'	35:DA:271(G):C:H6	1.83	0.41
35:DA:2789:C:N3	35:DA:2894:G:O6	2.54	0.41
35:DA:364:C:C2'	35:DA:365:C:H5''	2.50	0.41
35:DA:387:U:H4'	35:DA:388:G:O5'	2.21	0.41
35:DA:394:A:C2'	35:DA:395:U:H5'	2.51	0.41
35:DA:706:A:H2'	35:DA:707:G:O4'	2.20	0.41
36:DB:28:C:H2'	36:DB:29:A:C8	2.56	0.41
36:DB:87:G:C2'	36:DB:88:C:H5''	2.50	0.41
37:DC:46:ALA:HB1	37:DC:213:VAL:HG22	2.02	0.41
38:DD:139:GLY:H	38:DD:165:ILE:HB	1.85	0.41
38:DD:18:VAL:CG1	38:DD:19:ALA:N	2.83	0.41
40:DF:22:ALA:HB1	40:DF:26:ALA:CB	2.51	0.41
41:DG:107:LEU:HD11	41:DG:178:PHE:CE1	2.55	0.41
41:DG:26:GLN:CA	41:DG:26:GLN:HE21	2.33	0.41
43:DI:140:LEU:HD23	43:DI:141:LYS:N	2.36	0.41
45:DK:39:LYS:C	45:DK:41:PHE:H	2.24	0.41
48:DP:24:GLY:O	48:DP:25:SER:CB	2.60	0.41
50:DR:99:LYS:HA	50:DR:112:ALA:HA	2.02	0.41
51:DS:92:TYR:CG	51:DS:93:LYS:N	2.85	0.41
51:DS:93:LYS:O	51:DS:94:TYR:C	2.59	0.41
52:DT:41:ARG:HD2	52:DT:41:ARG:O	2.20	0.41
52:DT:24:PRO:HA	52:DT:49:VAL:HG13	2.02	0.41
52:DT:89:VAL:HG21	52:DT:91:ARG:CZ	2.51	0.41
35:DA:1151:G:H5''	53:DU:81:HIS:CE1	2.56	0.41
53:DU:95:LEU:HD13	54:DV:4:ILE:CG2	2.50	0.41
53:DU:68:ALA:HB2	53:DU:99:ALA:HB1	2.02	0.41
57:DY:20:TYR:N	57:DY:20:TYR:CD1	2.87	0.41
58:DZ:74:VAL:HG22	58:DZ:86:VAL:HG12	2.01	0.41
1:AA:1129:C:H41	1:AA:1135:U:H3	1.68	0.41
1:AA:142:G:H2'	1:AA:143:A:C8	2.55	0.41
1:AA:557:G:H2'	1:AA:558:G:C8	2.56	0.41
1:AA:598:U:H4'	8:AH:94:TYR:CD2	2.55	0.41
2:AB:44:LEU:CD1	2:AB:44:LEU:N	2.81	0.41
4:AD:199:ASN:ND2	4:AD:202:LEU:HG	2.35	0.41
4:AD:73:ARG:HG2	4:AD:73:ARG:HH11	1.85	0.41
5:AE:116:THR:HG22	5:AE:116:THR:O	2.20	0.41
6:AF:80:ARG:HG3	6:AF:88:VAL:CG2	2.51	0.41
7:AG:116:ALA:H	7:AG:118:VAL:HG22	1.86	0.41
7:AG:47:CYS:HB3	7:AG:58:PRO:HG3	2.02	0.41
9:AI:4:TYR:HB3	9:AI:84:ALA:HB1	2.03	0.41
10:AJ:49:VAL:HG23	14:AN:41:ARG:HD3	2.01	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AK:32:ILE:HD12	11:AK:68:ALA:O	2.21	0.41
11:AK:30:VAL:HG21	11:AK:65:ALA:HA	2.03	0.41
11:AK:40:ILE:HG23	11:AK:75:TYR:CD2	2.55	0.41
12:AL:74:GLY:O	12:AL:102:ARG:NH2	2.54	0.41
13:AM:13:LYS:HA	13:AM:44:ARG:NH1	2.32	0.41
13:AM:22:ILE:N	13:AM:22:ILE:HD12	2.34	0.41
18:AR:88:LYS:CD	18:AR:88:LYS:C	2.85	0.41
19:AS:6:LYS:CD	19:AS:6:LYS:N	2.83	0.41
22:AV:76:8AN:O1P	22:AV:76:8AN:H4'	2.19	0.41
13:AM:125:ARG:CD	24:AY:165:ASP:HA	2.51	0.41
24:AY:188:ARG:HB2	24:AY:310:GLN:CG	2.33	0.41
24:AY:188:ARG:HH21	24:AY:313:SER:HB3	1.86	0.41
24:AY:279:LEU:HD23	24:AY:283:LEU:HG	2.02	0.41
24:AY:6:LEU:CD2	24:AY:9:ARG:HD2	2.51	0.41
26:B1:81:LYS:C	26:B1:82:LEU:HD13	2.40	0.41
28:B3:8:LEU:HD13	28:B3:31:LEU:CD2	2.24	0.41
29:B4:15:ILE:HA	29:B4:21:VAL:HG22	2.01	0.41
33:B8:50:LEU:O	33:B8:51:ALA:HB3	2.21	0.41
33:B8:62:LEU:C	33:B8:64:TYR:N	2.74	0.41
35:BA:585:G:H2'	35:BA:1251:C:H42	1.86	0.41
35:BA:1494:A:H4'	35:BA:1494:A:OP1	2.21	0.41
35:BA:1882:C:O2	35:BA:1882:C:H2'	2.20	0.41
35:BA:1928:A:H2'	35:BA:1929:G:O4'	2.20	0.41
35:BA:2473:U:C5	35:BA:2474:C:C6	3.08	0.41
35:BA:2533:A:C2'	35:BA:2534:A:H5'	2.51	0.41
35:BA:527:C:O2	35:BA:527:C:O4'	2.36	0.41
35:BA:654(U):A:H2'	35:BA:654(V):A:C8	2.55	0.41
37:BC:2:PRO:HG2	37:BC:3:LYS:H	1.85	0.41
38:BD:211:ARG:O	38:BD:215:LEU:HG	2.20	0.41
38:BD:52:ARG:HB2	38:BD:53:PHE:CD2	2.55	0.41
35:BA:1654:A:C2	39:BE:113:PHE:CD1	3.08	0.41
39:BE:33:VAL:HG13	39:BE:33:VAL:O	2.20	0.41
39:BE:67:PHE:O	39:BE:70:ALA:CB	2.67	0.41
43:BI:6:LEU:HD23	43:BI:15:VAL:HG23	2.01	0.41
45:BK:39:LYS:C	45:BK:41:PHE:H	2.24	0.41
48:BP:132:LYS:O	48:BP:136:GLU:HG2	2.21	0.41
48:BP:18:ARG:HH11	48:BP:18:ARG:CA	2.34	0.41
48:BP:23:PRO:HB2	48:BP:33:ARG:HG3	2.02	0.41
49:BQ:132:VAL:HG11	58:BZ:81:ARG:NE	2.17	0.41
35:BA:1276:A:O2'	50:BR:16:HIS:HE1	2.02	0.41
50:BR:42:LYS:O	50:BR:45:ARG:HB2	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
52:BT:1:MET:O	52:BT:1:MET:HG3	2.20	0.41
53:BU:89:GLU:O	53:BU:89:GLU:HG2	2.20	0.41
1:CA:1254:C:H2'	1:CA:1255:G:H8	1.84	0.41
1:CA:179:A:H2'	1:CA:180:U:C6	2.54	0.41
1:CA:386:C:O2'	1:CA:387:U:H5'	2.21	0.41
1:CA:577:G:C8	1:CA:816:A:C6	3.08	0.41
1:CA:956:U:O2'	1:CA:957:U:H5'	2.20	0.41
2:CB:130:ARG:HA	2:CB:131:PRO:HD2	1.80	0.41
2:CB:95:GLN:NE2	2:CB:147:LYS:HE2	2.35	0.41
3:CC:14:ILE:O	3:CC:16:ARG:N	2.53	0.41
3:CC:19:GLU:O	3:CC:19:GLU:HG2	2.21	0.41
1:CA:921:U:O2'	5:CE:19:MET:O	2.38	0.41
6:CF:21:LEU:O	6:CF:24:GLU:HB3	2.20	0.41
6:CF:91:VAL:HG12	6:CF:92:LYS:N	2.35	0.41
8:CH:9:MET:O	8:CH:13:ILE:HG12	2.19	0.41
1:CA:963:G:N2	10:CJ:55:LYS:HD2	2.35	0.41
11:CK:109:VAL:HG13	18:CR:85:LEU:O	2.20	0.41
11:CK:88:GLY:C	11:CK:90:GLY:H	2.23	0.41
12:CL:86:ARG:HB2	12:CL:101:VAL:CG2	2.50	0.41
16:CP:15:PRO:HB2	16:CP:41:PRO:CG	2.50	0.41
16:CP:45:THR:HG23	16:CP:46:PRO:CD	2.49	0.41
24:CY:112:ALA:HB1	24:CY:178:GLY:HA2	2.03	0.41
24:CY:220:VAL:O	24:CY:220:VAL:HG12	2.19	0.41
28:D3:46:ASN:HA	28:D3:46:ASN:HD22	1.77	0.41
31:D6:10:LEU:HD11	33:D8:34:TRP:CE2	2.56	0.41
34:D9:17:ILE:CG2	34:D9:18:ARG:N	2.84	0.41
35:DA:1385:G:H1'	35:DA:1386:C:C6	2.55	0.41
35:DA:1408:C:H2'	35:DA:1409:C:H6	1.85	0.41
35:DA:1537:G:H2'	35:DA:1538:G:C8	2.52	0.41
35:DA:236:C:H2'	35:DA:237:C:H6	1.86	0.41
35:DA:272(G):C:N4	35:DA:363(C):G:H1	2.17	0.41
35:DA:512:G:O2'	35:DA:513:A:OP2	2.38	0.41
35:DA:751:A:C6	35:DA:789:A:C6	3.09	0.41
35:DA:803:U:O2'	35:DA:804:A:H5'	2.21	0.41
37:DC:3:LYS:O	37:DC:4:HIS:HD2	2.04	0.41
38:DD:267:SER:O	38:DD:269:PHE:N	2.54	0.41
38:DD:26:LYS:HD2	38:DD:26:LYS:HA	1.91	0.41
39:DE:33:VAL:O	39:DE:33:VAL:HG13	2.20	0.41
39:DE:52:LEU:O	39:DE:74:PRO:CB	2.69	0.41
39:DE:32:PRO:HA	39:DE:69:LYS:HE3	2.02	0.41
40:DF:129:PHE:HZ	40:DF:156:LEU:HD11	1.85	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:DH:159:GLU:HB3	42:DH:160:LYS:H	1.56	0.41
42:DH:43:VAL:HG11	42:DH:52:VAL:HA	2.02	0.41
43:DI:132:PRO:HG2	43:DI:133:HIS:NE2	2.32	0.41
43:DI:65:ALA:C	43:DI:67:ARG:N	2.74	0.41
45:DK:67:PHE:CD1	45:DK:67:PHE:N	2.81	0.41
46:DN:133:GLN:CG	46:DN:134:ARG:H	2.19	0.41
46:DN:14:VAL:HG22	46:DN:137:LYS:HE3	2.02	0.41
46:DN:28:THR:HG22	46:DN:29:LYS:N	2.35	0.41
46:DN:94:HIS:N	46:DN:95:PRO:CD	2.84	0.41
47:DO:26:LYS:HB3	47:DO:27:GLY:H	1.68	0.41
47:DO:1:MET:HE2	47:DO:32:TYR:CE2	2.56	0.41
35:DA:661:C:H5'	48:DP:18:ARG:HD3	2.01	0.41
48:DP:17:LYS:C	48:DP:19:VAL:N	2.74	0.41
56:DX:41:ASN:O	56:DX:45:THR:HG23	2.21	0.41
57:DY:8:LYS:HB2	57:DY:28:LYS:CE	2.51	0.41
58:DZ:16:SER:O	58:DZ:20:ARG:CG	2.55	0.41
1:AA:1221:G:H4'	19:AS:77:THR:HG21	2.03	0.41
1:AA:28:G:O2'	1:AA:296:U:H5''	2.20	0.41
1:AA:59:A:H3'	1:AA:331:G:H22	1.86	0.41
1:AA:335:C:H2'	1:AA:336:C:H6	1.86	0.41
2:AB:174:VAL:HG13	2:AB:184:VAL:HG11	2.03	0.41
2:AB:35:GLU:HA	2:AB:39:ILE:O	2.21	0.41
4:AD:101:LEU:HD23	4:AD:121:VAL:CG1	2.51	0.41
5:AE:103:GLY:C	5:AE:105:VAL:H	2.23	0.41
5:AE:94:ALA:O	5:AE:117:ASP:HB3	2.21	0.41
7:AG:15:ASP:OD2	7:AG:16:LEU:N	2.51	0.41
10:AJ:87:THR:C	10:AJ:89:ASP:N	2.74	0.41
11:AK:92:GLU:HG3	11:AK:96:ARG:CD	2.50	0.41
12:AL:91:LYS:HE2	12:AL:91:LYS:HA	2.03	0.41
15:AO:11:VAL:O	15:AO:14:GLU:HB3	2.21	0.41
11:AK:108:ILE:HG22	18:AR:88:LYS:HB3	2.02	0.41
22:AV:1:G:N3	22:AV:1:G:H2'	2.36	0.41
24:AY:115:ASN:HB3	24:AY:172:LYS:HA	2.01	0.41
26:B1:93:GLU:O	26:B1:94:LEU:C	2.57	0.41
34:B9:17:ILE:HG21	34:B9:19:ARG:HE	1.85	0.41
35:BA:1059:G:H2'	35:BA:1060:U:C6	2.55	0.41
35:BA:1144:G:H2'	35:BA:1145:C:C6	2.54	0.41
35:BA:1682:G:H2'	35:BA:1683:C:C6	2.56	0.41
35:BA:1945:G:H2'	35:BA:1946:U:H6	1.83	0.41
35:BA:2248:C:H2'	35:BA:2249:U:O4'	2.21	0.41
24:AY:233:ARG:NH2	35:BA:2508:G:OP1	2.53	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:2491:U:C4'	35:BA:2570:G:OP1	2.63	0.41
35:BA:2808:U:C2'	35:BA:2809:A:H5'	2.51	0.41
35:BA:2819:G:H2'	35:BA:2821:A:N7	2.35	0.41
35:BA:613:G:C5'	35:BA:613:G:C8	2.97	0.41
35:BA:696:G:O2'	35:BA:697:C:H5'	2.20	0.41
35:BA:709:U:H2'	35:BA:710:G:C8	2.56	0.41
35:BA:751:A:H8	35:BA:751:A:O5'	2.03	0.41
35:BA:869:G:C2'	35:BA:870:A:H5'	2.50	0.41
39:BE:115:GLY:C	39:BE:116:VAL:O	2.54	0.41
39:BE:50:GLY:HA2	39:BE:78:LEU:HB3	2.02	0.41
40:BF:107:LYS:N	40:BF:107:LYS:HZ3	2.19	0.41
41:BG:111:LEU:O	41:BG:114:ILE:HD12	2.21	0.41
41:BG:40:ASN:HB3	41:BG:156:ASP:HB2	2.02	0.41
44:BJ:10:UNK:C	44:BJ:12:UNK:N	2.82	0.41
44:BJ:81:UNK:C	44:BJ:83:UNK:N	2.81	0.41
45:BK:18:THR:OG1	45:BK:38:VAL:HB	2.20	0.41
46:BN:70:LYS:HE3	46:BN:72:TYR:CZ	2.56	0.41
48:BP:35:HIS:C	48:BP:36:LYS:HG3	2.41	0.41
50:BR:72:ASP:O	50:BR:76:VAL:HG12	2.20	0.41
54:BV:6:LYS:HB3	54:BV:37:VAL:HG11	2.02	0.41
56:BX:12:VAL:CG1	56:BX:27:THR:O	2.64	0.41
56:BX:29:TRP:CE3	56:BX:78:LYS:HB3	2.56	0.41
57:BY:14:LEU:CD1	57:BY:15:VAL:H	2.32	0.41
58:BZ:56:VAL:CG1	58:BZ:57:ILE:N	2.83	0.41
1:CA:1316:G:O3'	14:CN:18:VAL:HG13	2.21	0.41
1:CA:1357:A:N6	1:CA:1363(A):A:H2	2.18	0.41
1:CA:15:G:C4'	5:CE:24:ARG:HH22	2.34	0.41
1:CA:243:A:H4'	1:CA:244:U:H5''	2.03	0.41
1:CA:817:C:H1'	1:CA:819:A:H5'	2.03	0.41
1:CA:992:U:O2'	1:CA:993:G:P	2.79	0.41
2:CB:45:GLN:HE21	2:CB:46:LYS:NZ	2.18	0.41
3:CC:75:VAL:O	3:CC:75:VAL:HG12	2.20	0.41
7:CG:54:THR:OG1	7:CG:56:GLN:HG2	2.21	0.41
12:CL:84:LEU:HG	12:CL:105:TYR:CE1	2.56	0.41
13:CM:124:PRO:HB2	24:CY:163:GLY:O	2.20	0.41
15:CO:63:ARG:HH12	15:CO:87:ILE:HG21	1.86	0.41
17:CQ:45:HIS:CD2	17:CQ:47:PRO:HD3	2.56	0.41
19:CS:78:ARG:NH1	19:CS:81:ARG:HH12	1.98	0.41
1:CA:194:C:O2'	20:CT:68:LYS:HD3	2.21	0.41
22:CV:14:A:N6	22:CV:21:A:H2	2.19	0.41
22:CW:27:G:H1	22:CW:43:C:H42	1.68	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:CY:323:ASP:HB3	24:CY:326:THR:CG2	2.35	0.41
24:CY:50:GLN:HE21	24:CY:51:GLU:N	2.19	0.41
24:CY:76:MET:O	24:CY:77:GLU:HG2	2.21	0.41
26:D1:75:GLU:HA	26:D1:75:GLU:OE2	2.19	0.41
27:D2:65:ASN:ND2	27:D2:69:ARG:NH2	2.68	0.41
32:D7:37:LYS:HE2	35:DA:469:G:O6	2.20	0.41
35:DA:1131:G:HO2'	35:DA:1132:A:H8	1.64	0.41
35:DA:1317:A:H2'	35:DA:1318:C:H6	1.85	0.41
22:CV:24:G:H21	35:DA:1923:U:H4'	1.86	0.41
35:DA:1945:G:O2'	35:DA:1946:U:H5'	2.20	0.41
35:DA:2199:A:N3	35:DA:2199:A:H2'	2.35	0.41
35:DA:748:G:OP1	35:DA:2612:C:N4	2.53	0.41
35:DA:271(Q):G:HO2'	35:DA:271(R):G:H8	1.65	0.41
35:DA:548:A:C3'	35:DA:549:G:C5'	2.98	0.41
35:DA:671:C:H2'	35:DA:672:C:C6	2.56	0.41
35:DA:693:C:O2'	35:DA:694:U:H5'	2.20	0.41
35:DA:814:C:O2'	35:DA:815:C:H5'	2.21	0.41
37:DC:49:GLY:HA3	37:DC:211:ARG:HH12	1.85	0.41
37:DC:6:LYS:C	37:DC:8:TYR:H	2.24	0.41
38:DD:145:VAL:HG22	38:DD:191:ALA:HB1	2.02	0.41
38:DD:73:VAL:O	38:DD:75:ILE:N	2.53	0.41
39:DE:98:PRO:HD3	39:DE:175:VAL:CG1	2.51	0.41
39:DE:69:LYS:HE3	39:DE:90:THR:OG1	2.20	0.41
44:DJ:102:UNK:HA	44:DJ:106:UNK:CB	2.51	0.41
46:DN:123:TYR:C	46:DN:125:GLY:N	2.74	0.41
48:DP:18:ARG:HH11	48:DP:18:ARG:CA	2.33	0.41
48:DP:21:ARG:HD3	48:DP:29:LYS:HE3	2.03	0.41
49:DQ:1:MET:HE1	49:DQ:48:GLU:CB	2.46	0.41
53:DU:95:LEU:HA	53:DU:95:LEU:HD23	1.70	0.41
57:DY:38:ILE:HD12	57:DY:66:PRO:HA	2.02	0.41
58:DZ:28:MET:CE	58:DZ:37:VAL:HG11	2.50	0.41
1:AA:782:A:H4'	1:AA:1514:C:O2'	2.20	0.41
1:AA:818:G:C2'	1:AA:819:A:H5''	2.51	0.41
1:AA:971:G:H3'	1:AA:971:G:OP1	2.21	0.41
2:AB:200:ILE:CG2	2:AB:201:ILE:N	2.84	0.41
3:AC:19:GLU:O	3:AC:19:GLU:HG2	2.21	0.41
5:AE:140:ARG:CG	5:AE:140:ARG:O	2.68	0.41
6:AF:10:LEU:HD13	6:AF:61:LEU:HD13	2.03	0.41
8:AH:91:ARG:CG	8:AH:91:ARG:NH1	2.80	0.41
9:AI:78:LYS:NZ	9:AI:78:LYS:CB	2.83	0.41
10:AJ:13:HIS:NE2	10:AJ:14:LYS:HG3	2.36	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:AL:27:LEU:O	12:AL:28:LYS:HB3	2.20	0.41
15:AO:74:ASP:HA	15:AO:75:PRO:HD2	1.94	0.41
24:AY:25:ARG:NH1	24:AY:29:LEU:HD23	2.35	0.41
24:AY:312:ARG:CZ	24:AY:344:LEU:HD12	2.51	0.41
24:AY:336:VAL:O	24:AY:338:ASP:N	2.54	0.41
24:AY:50:GLN:C	24:AY:50:GLN:HE21	2.22	0.41
24:AY:76:MET:HG3	24:AY:88:LYS:HZ3	1.84	0.41
24:AY:92:GLU:OE2	24:AY:93:GLU:HB2	2.21	0.41
35:BA:1038:C:N4	35:BA:1117:G:H1	2.15	0.41
35:BA:1396:U:O2	35:BA:1396:U:C2'	2.68	0.41
35:BA:1425:G:H2'	35:BA:1426:G:O4'	2.21	0.41
35:BA:2277:G:H2'	35:BA:2278:A:H5'	2.03	0.41
35:BA:2506:U:OP1	39:BE:144:ARG:NH2	2.54	0.41
35:BA:2716:U:O2'	35:BA:2717:G:H5'	2.20	0.41
35:BA:275:G:N3	35:BA:275:G:C2'	2.84	0.41
35:BA:2808:U:N3	35:BA:2892:A:N7	2.62	0.41
35:BA:671:C:H2'	35:BA:672:C:C6	2.56	0.41
38:BD:23:GLU:O	38:BD:24:ILE:C	2.58	0.41
40:BF:9:ILE:HG12	40:BF:14:PRO:HA	2.03	0.41
42:BH:88:LEU:CD2	42:BH:130:ARG:HG2	2.47	0.41
43:BI:71:ILE:HG13	43:BI:72:LEU:HG	2.03	0.41
43:BI:99:GLU:HG2	43:BI:103:ARG:HH21	1.86	0.41
46:BN:51:PHE:CE2	46:BN:119:ARG:HD2	2.56	0.41
47:BO:18:LYS:HB2	47:BO:45:GLU:CG	2.51	0.41
48:BP:101:VAL:C	48:BP:103:ALA:N	2.74	0.41
33:B8:13:ARG:CB	48:BP:63:PRO:HB3	2.41	0.41
51:BS:46:VAL:HG12	51:BS:47:THR:N	2.36	0.41
1:AA:1442(A):G:H22	52:BT:119:LYS:HB2	1.86	0.41
35:BA:71:A:C2	56:BX:31:HIS:CE1	3.09	0.41
57:BY:19:LYS:HE3	57:BY:19:LYS:HB2	1.83	0.41
58:BZ:90:VAL:O	58:BZ:91:LEU:HD23	2.20	0.41
1:CA:1300:G:HO2'	1:CA:1301:U:P	2.43	0.41
1:CA:1350:A:P	9:CI:121:ARG:HG3	2.61	0.41
1:CA:563:A:C6	1:CA:567:G:C2	3.08	0.41
2:CB:111:ARG:HG2	2:CB:111:ARG:HH11	1.86	0.41
2:CB:91:PRO:CG	2:CB:155:LEU:HD23	2.51	0.41
2:CB:235:SER:OG	2:CB:236:TYR:HD1	2.04	0.41
2:CB:80:ILE:HG22	2:CB:80:ILE:O	2.20	0.41
3:CC:11:ARG:O	3:CC:12:LEU:C	2.59	0.41
3:CC:111:LEU:HD23	3:CC:141:VAL:HG13	2.03	0.41
3:CC:14:ILE:CG1	3:CC:15:THR:N	2.72	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:CF:26:ILE:O	6:CF:30:LEU:HD23	2.20	0.41
6:CF:26:ILE:O	6:CF:30:LEU:CD2	2.69	0.41
6:CF:91:VAL:HG11	18:CR:72:ARG:NH1	2.17	0.41
8:CH:119:LEU:HB2	8:CH:124:ALA:HB2	2.02	0.41
9:CI:113:LYS:H	9:CI:119:ALA:HA	1.85	0.41
9:CI:76:ALA:C	9:CI:78:LYS:H	2.24	0.41
3:CC:29:TYR:CE1	10:CJ:65:LEU:HD21	2.55	0.41
11:CK:126:ARG:O	11:CK:127:LYS:C	2.58	0.41
12:CL:84:LEU:HD12	12:CL:104:VAL:CG1	2.41	0.41
15:CO:26:GLU:HA	15:CO:81:LEU:HD22	2.02	0.41
16:CP:76:GLN:HG2	16:CP:76:GLN:O	2.21	0.41
19:CS:6:LYS:N	19:CS:6:LYS:CD	2.81	0.41
24:CY:119:THR:HG22	24:CY:121:GLN:HG3	2.01	0.41
24:CY:138:ARG:NH2	24:CY:337:LEU:CB	2.84	0.41
24:CY:12:GLY:O	24:CY:16:TYR:N	2.54	0.41
24:CY:11:GLU:HB3	24:CY:98:LEU:HD21	2.02	0.41
30:D5:42:PRO:HB2	30:D5:43:HIS:CD2	2.56	0.41
35:DA:1059:G:H2'	35:DA:1060:U:C6	2.56	0.41
35:DA:1109:C:O2	35:DA:1109:C:C3'	2.69	0.41
35:DA:1186:G:H2'	35:DA:1187:G:O4'	2.21	0.41
35:DA:1494:A:H4'	35:DA:1494:A:OP1	2.19	0.41
35:DA:1541:G:C4'	35:DA:1542:A:O4'	2.66	0.41
35:DA:251:A:H5''	48:DP:51:PHE:CZ	2.55	0.41
35:DA:654(P):C:O2'	35:DA:654(Q):C:H5'	2.21	0.41
35:DA:654(S):G:H2'	35:DA:654(T):C:N1	2.34	0.41
36:DB:105:A:H2'	36:DB:106:G:O4'	2.21	0.41
35:DA:2132:U:H3	37:DC:6:LYS:HE2	1.86	0.41
38:DD:230:ASP:O	38:DD:231:HIS:HB2	2.20	0.41
38:DD:45:ASN:CG	38:DD:46:GLN:H	2.24	0.41
39:DE:181:LEU:HD11	52:DT:7:ILE:HG21	2.02	0.41
40:DF:31:HIS:O	40:DF:34:TRP:HB3	2.21	0.41
42:DH:147:ASN:O	42:DH:150:ALA:HB3	2.21	0.41
43:DI:126:TYR:O	43:DI:140:LEU:O	2.39	0.41
43:DI:136:VAL:HG13	43:DI:136:VAL:O	2.21	0.41
45:DK:109:LYS:HB3	45:DK:109:LYS:HZ3	1.85	0.41
46:DN:123:TYR:C	46:DN:125:GLY:H	2.24	0.41
46:DN:62:VAL:HG22	46:DN:66:LYS:HB2	2.01	0.41
48:DP:101:VAL:C	48:DP:103:ALA:N	2.74	0.41
35:DA:1653:G:H3'	50:DR:4:LEU:HD23	2.03	0.41
53:DU:78:THR:O	53:DU:79:PHE:C	2.58	0.41
54:DV:14:VAL:HG21	54:DV:57:VAL:HG21	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
54:DV:18:LEU:HD22	54:DV:19:LYS:HA	2.03	0.41
1:AA:1058:G:C5	1:AA:1059:C:C4	3.09	0.41
1:AA:1065:U:HO2'	1:AA:1066:C:P	2.44	0.41
1:AA:1128:C:O2'	1:AA:1130:A:C8	2.73	0.41
1:AA:960:U:O2'	1:AA:1223:C:H4'	2.21	0.41
1:AA:1525:G:O2'	1:AA:1526:G:H5'	2.20	0.41
1:AA:547:A:H4'	1:AA:548:G:O5'	2.21	0.41
3:AC:11:ARG:O	3:AC:12:LEU:C	2.59	0.41
4:AD:17:VAL:CG1	4:AD:17:VAL:O	2.67	0.41
4:AD:25:ARG:NH1	4:AD:30:LYS:O	2.54	0.41
5:AE:144:THR:C	5:AE:146:ALA:N	2.74	0.41
5:AE:57:LYS:O	5:AE:61:TYR:HD2	2.03	0.41
6:AF:45:LEU:C	6:AF:45:LEU:CD2	2.88	0.41
7:AG:108:ALA:C	7:AG:110:GLN:H	2.23	0.41
10:AJ:16:LEU:HD23	10:AJ:94:VAL:HG11	2.02	0.41
10:AJ:26:ALA:HA	10:AJ:29:ARG:NH1	2.23	0.41
11:AK:21:ILE:CD1	11:AK:21:ILE:N	2.81	0.41
12:AL:28:LYS:NZ	12:AL:33:ARG:HH22	2.19	0.41
12:AL:38:THR:O	12:AL:79:GLU:HG2	2.21	0.41
12:AL:35:GLY:HA3	12:AL:58:VAL:HG11	2.02	0.41
14:AN:41:ARG:HG2	14:AN:41:ARG:HH11	1.86	0.41
15:AO:33:THR:CG2	15:AO:85:LEU:HD21	2.37	0.41
17:AQ:90:ILE:HA	17:AQ:93:GLN:HB3	2.02	0.41
19:AS:41:VAL:O	19:AS:44:MET:SD	2.79	0.41
20:AT:30:LYS:O	20:AT:33:ILE:HB	2.21	0.41
22:AW:52:G:C2	22:AW:62:C:N4	2.89	0.41
24:AY:276:LEU:C	24:AY:278:ILE:H	2.25	0.41
31:B6:9:LEU:HD22	31:B6:10:LEU:N	2.36	0.41
35:BA:1076:C:H1'	45:BK:91:PRO:HD2	2.03	0.41
35:BA:1171:G:H1	35:BA:1178:C:N4	2.19	0.41
35:BA:1317:A:H2'	35:BA:1318:C:C6	2.56	0.41
35:BA:1540:U:C4	35:BA:1541:G:N7	2.89	0.41
35:BA:622:G:O2'	35:BA:623:G:H5'	2.21	0.41
35:BA:802:A:H2'	35:BA:803:U:C6	2.56	0.41
35:BA:828:U:O2	35:BA:828:U:H3'	2.20	0.41
36:BB:25:A:C2	36:BB:26:A:H1'	2.56	0.41
37:BC:44:VAL:HG13	37:BC:214:TYR:O	2.20	0.41
38:BD:139:GLY:H	38:BD:165:ILE:HB	1.86	0.41
39:BE:181:LEU:HD11	52:BT:7:ILE:HG21	2.02	0.41
41:BG:9:ARG:NH1	41:BG:9:ARG:CB	2.82	0.41
42:BH:94:TYR:N	42:BH:94:TYR:HD1	2.19	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:BK:107:ILE:HG21	45:BK:127:ILE:HD12	2.03	0.41
35:BA:1078:U:H5''	45:BK:132:ARG:HH12	1.86	0.41
46:BN:120:LEU:HD11	46:BN:122:VAL:CG2	2.40	0.41
46:BN:65:LYS:HD2	46:BN:69:GLN:NE2	2.35	0.41
48:BP:146:VAL:O	48:BP:148:LEU:N	2.54	0.41
48:BP:111:ARG:NH1	48:BP:149:GLU:CD	2.74	0.41
48:BP:17:LYS:C	48:BP:19:VAL:N	2.73	0.41
36:BB:104:U:H5''	49:BQ:141:GLN:NE2	2.36	0.41
49:BQ:27:VAL:CG2	49:BQ:137:TYR:HD1	2.33	0.41
35:BA:2870:C:C5'	50:BR:65:LEU:HD21	2.51	0.41
51:BS:58:LEU:HD23	51:BS:65:VAL:CG1	2.50	0.41
53:BU:73:GLY:O	53:BU:74:LEU:O	2.39	0.41
35:BA:143:G:C1'	56:BX:37:THR:HG21	2.47	0.41
58:BZ:109:ALA:HB3	58:BZ:145:GLU:HA	2.03	0.41
58:BZ:146:ILE:O	58:BZ:174:VAL:HG12	2.21	0.41
58:BZ:90:VAL:HG12	58:BZ:91:LEU:N	2.36	0.41
1:CA:1014:A:H4'	19:CS:14:HIS:CD2	2.56	0.41
1:CA:1036:G:H5''	1:CA:1037:C:C5	2.56	0.41
1:CA:1058:G:C5	1:CA:1059:C:C4	3.09	0.41
1:CA:1376:U:H2'	1:CA:1377:A:C8	2.56	0.41
1:CA:1432:G:O2'	1:CA:1468:A:N6	2.52	0.41
1:CA:1442:G:C6	1:CA:1442(B):A:H2	2.39	0.41
1:CA:356:A:H2'	1:CA:357:G:C8	2.53	0.41
1:CA:59:A:H2'	1:CA:59:A:N3	2.36	0.41
1:CA:927:G:O2'	1:CA:928:G:H5'	2.21	0.41
2:CB:97:TRP:HH2	2:CB:176:GLU:CG	2.34	0.41
2:CB:83:MET:HB3	2:CB:234:PRO:HG2	2.03	0.41
4:CD:47:ARG:NE	4:CD:49:ARG:NH2	2.68	0.41
5:CE:116:THR:HG22	5:CE:116:THR:O	2.21	0.41
6:CF:1:MET:HA	6:CF:67:MET:O	2.21	0.41
9:CI:5:TYR:HA	9:CI:17:VAL:O	2.21	0.41
9:CI:19:LEU:C	9:CI:20:ARG:HG3	2.41	0.41
11:CK:22:HIS:O	11:CK:28:THR:HA	2.21	0.41
11:CK:37:GLY:O	11:CK:39:PRO:HD3	2.21	0.41
13:CM:48:LEU:HG	13:CM:53:VAL:CG2	2.51	0.41
15:CO:50:HIS:O	15:CO:53:HIS:HB3	2.21	0.41
25:D0:26:TYR:O	25:D0:29:GLN:HB2	2.21	0.41
27:D2:30:ARG:HB2	56:DX:5:TYR:CZ	2.56	0.41
27:D2:43:GLN:HG3	27:D2:44:LEU:H	1.85	0.41
32:D7:47:ARG:CZ	56:DX:60:ARG:NH2	2.84	0.41
32:D7:5:TRP:O	35:DA:1612:C:H4'	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:1049:C:H2'	35:DA:1050:A:C8	2.50	0.41
35:DA:1108:U:C3'	35:DA:1109:C:C5'	2.99	0.41
35:DA:1131:G:O2'	35:DA:1132:A:H8	2.04	0.41
35:DA:1688:U:O2	35:DA:1700:A:H8	2.03	0.41
35:DA:1820:U:O2	38:DD:201:HIS:HB3	2.21	0.41
35:DA:1902:C:H2'	35:DA:1903:G:O5'	2.20	0.41
35:DA:2386:C:H2'	35:DA:2387:U:C6	2.55	0.41
35:DA:2552:U:H2'	35:DA:2554:U:OP2	2.21	0.41
35:DA:272(B):G:H2'	35:DA:272(C):G:H8	1.86	0.41
35:DA:2807:G:C2'	35:DA:2808:U:H5''	2.50	0.41
37:DC:200:HIS:O	37:DC:202:PRO:HD3	2.21	0.41
37:DC:44:VAL:HG13	37:DC:214:TYR:O	2.21	0.41
38:DD:125:ILE:HG22	38:DD:125:ILE:O	2.19	0.41
42:DH:44:VAL:O	42:DH:46:GLU:N	2.54	0.41
43:DI:132:PRO:O	43:DI:133:HIS:C	2.59	0.41
43:DI:66:GLU:OE1	43:DI:69:LYS:HD2	2.20	0.41
44:DJ:130:UNK:C	44:DJ:132:UNK:N	2.79	0.41
45:DK:79:ARG:HG2	45:DK:79:ARG:HH11	1.85	0.41
48:DP:35:HIS:C	48:DP:36:LYS:HG3	2.40	0.41
48:DP:50:ARG:CG	48:DP:51:PHE:H	2.33	0.41
49:DQ:16:ARG:C	49:DQ:17:LEU:HD23	2.40	0.41
51:DS:107:GLU:HG3	51:DS:108:GLY:N	2.36	0.41
55:DW:17:VAL:O	55:DW:18:ARG:C	2.59	0.41
57:DY:31:LEU:HD23	57:DY:36:ALA:C	2.41	0.41
57:DY:37:VAL:HG23	57:DY:38:ILE:N	2.36	0.41
58:DZ:125:LEU:HD23	58:DZ:125:LEU:C	2.42	0.41
1:AA:1215:G:O2'	1:AA:1216:G:H5'	2.21	0.41
1:AA:175:C:H2'	1:AA:176:C:C6	2.56	0.41
1:AA:382:A:C2	1:AA:383:A:C4	3.09	0.41
1:AA:524:G:C6	1:AA:525:C:N4	2.89	0.41
1:AA:763:G:O2'	1:AA:764:C:H5'	2.21	0.41
2:AB:111:ARG:HG2	2:AB:111:ARG:HH11	1.86	0.41
2:AB:165:VAL:CG2	2:AB:166:ASP:N	2.81	0.41
2:AB:91:PRO:CG	2:AB:155:LEU:HD23	2.52	0.41
3:AC:76:VAL:O	3:AC:84:ILE:HB	2.21	0.41
5:AE:63:ARG:C	5:AE:65:ASN:H	2.24	0.41
6:AF:14:LEU:HB3	6:AF:18:GLN:HB2	2.03	0.41
6:AF:26:ILE:O	6:AF:30:LEU:CD2	2.69	0.41
7:AG:145:ALA:O	7:AG:146:GLU:HB3	2.21	0.41
9:AI:128:ARG:HG2	9:AI:128:ARG:OXT	2.21	0.41
9:AI:19:LEU:C	9:AI:20:ARG:HG3	2.41	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AK:44:SER:H	11:AK:47:VAL:CG2	2.33	0.41
14:AN:4:LYS:C	14:AN:6:LEU:H	2.23	0.41
16:AP:59:TRP:HA	16:AP:59:TRP:CE3	2.55	0.41
16:AP:80:PHE:CD1	16:AP:80:PHE:N	2.89	0.41
25:B0:70:GLN:NE2	25:B0:80:HIS:NE2	2.61	0.41
26:B1:44:PRO:HB2	26:B1:46:LEU:HD12	2.03	0.41
31:B6:15:GLU:O	31:B6:16:CYS:C	2.59	0.41
35:BA:107:C:H2'	35:BA:108:U:H6	1.86	0.41
35:BA:9:U:O2'	35:BA:10:G:P	2.79	0.41
35:BA:1542:A:C8	35:BA:1544:A:H5'	2.55	0.41
35:BA:1410:G:H1	35:BA:1592:C:H42	1.68	0.41
35:BA:2321:G:H2'	35:BA:2321:G:N3	2.35	0.41
35:BA:2700:C:O2'	35:BA:2701:C:H5'	2.21	0.41
35:BA:271(Z):C:H1'	35:BA:272(C):G:H1'	2.03	0.41
35:BA:2811:G:C2'	35:BA:2812:G:H5'	2.51	0.41
35:BA:902:C:H2'	35:BA:903:C:H6	1.86	0.41
36:BB:7:G:H2'	36:BB:8:U:O4'	2.21	0.41
37:BC:39:ASP:OD1	37:BC:178:LYS:HB3	2.20	0.41
37:BC:197:LEU:C	37:BC:199:ALA:N	2.74	0.41
38:BD:125:ILE:HG13	38:BD:137:PRO:CD	2.51	0.41
38:BD:9:TYR:CZ	38:BD:13:ARG:HD3	2.56	0.41
39:BE:11:MET:HE1	39:BE:187:ALA:H	1.86	0.41
39:BE:44:TYR:O	39:BE:45:THR:HB	2.21	0.41
41:BG:152:LEU:HD23	41:BG:152:LEU:N	2.11	0.41
41:BG:44:GLY:HA2	41:BG:88:ILE:CG1	2.50	0.41
41:BG:48:GLU:O	41:BG:49:ASP:CB	2.67	0.41
41:BG:4:ASP:HA	41:BG:8:LYS:HZ2	1.86	0.41
42:BH:105:LEU:HD23	42:BH:105:LEU:H	1.86	0.41
42:BH:137:ASP:O	42:BH:138:LYS:HB2	2.21	0.41
42:BH:38:SER:HA	42:BH:39:PRO:HD3	1.93	0.41
43:BI:31:LEU:N	43:BI:32:PRO:CD	2.84	0.41
46:BN:19:GLU:O	46:BN:60:ILE:HA	2.21	0.41
48:BP:45:LEU:HD23	48:BP:45:LEU:HA	1.87	0.41
35:BA:389:G:N1	48:BP:70:GLN:CG	2.84	0.41
49:BQ:61:GLY:O	49:BQ:62:GLY:O	2.39	0.41
51:BS:89:ARG:HG2	51:BS:92:TYR:CA	2.44	0.41
52:BT:91:ARG:O	52:BT:93:ARG:N	2.54	0.41
56:BX:55:ASN:HB2	56:BX:80:ILE:HG23	2.03	0.41
56:BX:83:VAL:CG1	56:BX:87:GLN:HB2	2.51	0.41
57:BY:39:VAL:C	57:BY:40:GLU:OE1	2.60	0.41
58:BZ:111:VAL:O	58:BZ:111:VAL:HG23	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
58:BZ:128:VAL:CG2	58:BZ:132:ASN:HB3	2.51	0.41
58:BZ:168:GLU:O	58:BZ:170:THR:N	2.54	0.41
58:BZ:151:HIS:HA	58:BZ:171:ILE:CG1	2.50	0.41
1:CA:1109:C:O2'	1:CA:1110:A:H5'	2.20	0.41
1:CA:1206:G:O2'	3:CC:193:TYR:HA	2.21	0.41
1:CA:924:C:O2'	1:CA:1502:A:N6	2.54	0.41
1:CA:1505:G:H4'	1:CA:1506:U:H5'	2.03	0.41
1:CA:743:U:O2'	1:CA:744:C:H5'	2.22	0.41
1:CA:926:G:C2	1:CA:1505:G:C8	3.09	0.41
2:CB:13:ALA:O	2:CB:14:GLY:C	2.59	0.41
2:CB:223:ILE:H	2:CB:223:ILE:HG13	1.76	0.41
2:CB:24:TRP:CG	2:CB:25:ASN:N	2.88	0.41
2:CB:95:GLN:NE2	2:CB:147:LYS:CE	2.84	0.41
3:CC:156:ARG:CD	3:CC:194:GLY:HA3	2.51	0.41
3:CC:88:ARG:HG2	3:CC:101:LEU:CB	2.51	0.41
4:CD:194:LEU:N	4:CD:194:LEU:HD22	2.36	0.41
6:CF:45:LEU:HD23	6:CF:46:ARG:N	2.36	0.41
6:CF:78:GLU:HA	6:CF:78:GLU:OE2	2.21	0.41
8:CH:12:ARG:HH12	8:CH:27:PRO:HD2	1.81	0.41
8:CH:11:THR:CG2	8:CH:14:ARG:HH12	2.33	0.41
8:CH:88:LYS:HB3	8:CH:89:PRO:CD	2.45	0.41
9:CI:63:ILE:HD13	9:CI:77:ILE:CG2	2.51	0.41
10:CJ:32:ALA:HB1	10:CJ:75:ILE:HD11	2.02	0.41
10:CJ:6:ILE:HA	10:CJ:97:GLU:O	2.21	0.41
11:CK:21:ILE:HA	11:CK:30:VAL:HG12	2.02	0.41
12:CL:42:THR:HG23	12:CL:42:THR:O	2.21	0.41
12:CL:44:THR:HA	12:CL:45:PRO:HD3	1.78	0.41
13:CM:40:ASN:HA	13:CM:41:PRO:HD3	1.88	0.41
15:CO:11:VAL:O	15:CO:14:GLU:HB3	2.21	0.41
22:CV:19:G:H21	41:DG:78:SER:CB	2.34	0.41
22:CW:38:A:H3'	22:CW:39:U:C5'	2.47	0.41
24:CY:282:ARG:HB2	24:CY:282:ARG:NH2	2.36	0.41
33:D8:32:LEU:HG	33:D8:36:LYS:HZ3	1.86	0.41
35:DA:1657:C:H2'	35:DA:1658:C:C6	2.56	0.41
35:DA:211:A:H2'	35:DA:212:G:O4'	2.21	0.41
31:D6:25:LYS:HZ1	35:DA:2284:C:H41	1.68	0.41
35:DA:2431:U:O2	35:DA:2433:A:C8	2.74	0.41
35:DA:2684:U:O5'	35:DA:2684:U:H6	2.02	0.41
35:DA:2713:A:C3'	35:DA:2714:G:C5'	2.98	0.41
35:DA:2862:G:H2'	35:DA:2863:C:H6	1.86	0.41
35:DA:893:C:O2'	35:DA:894:C:H5'	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:1805:U:H5''	38:DD:250:TRP:CD2	2.56	0.41
39:DE:39:PRO:HA	39:DE:43:GLY:CA	2.50	0.41
40:DF:24:LEU:CD1	40:DF:118:ALA:HB1	2.51	0.41
41:DG:131:TYR:HB3	41:DG:159:VAL:CG2	2.51	0.41
42:DH:89:ILE:HD11	42:DH:94:TYR:C	2.40	0.41
45:DK:84:LEU:HD21	45:DK:136:VAL:HG12	2.03	0.41
47:DO:100:GLY:O	47:DO:119:PRO:HD2	2.20	0.41
49:DQ:115:MET:O	49:DQ:116:GLU:C	2.58	0.41
52:DT:62:THR:HA	52:DT:74:ARG:O	2.21	0.41
53:DU:31:SER:C	53:DU:33:ARG:N	2.75	0.41
53:DU:68:ALA:O	53:DU:71:GLN:HB2	2.20	0.41
57:DY:62:GLU:OE2	57:DY:63:LYS:O	2.39	0.41
57:DY:63:LYS:CG	57:DY:64:GLU:H	2.24	0.41
1:AA:1056:U:O2'	1:AA:1057:G:H5'	2.21	0.40
1:AA:1289:A:H3'	1:AA:1290:G:H8	1.87	0.40
1:AA:193:C:H2'	1:AA:194:C:C6	2.55	0.40
1:AA:320:C:H2'	1:AA:321:A:O4'	2.21	0.40
1:AA:659:U:HO2'	1:AA:660:G:H5'	1.86	0.40
1:AA:951:G:H1'	1:AA:970:C:O2'	2.21	0.40
2:AB:25:ASN:HA	2:AB:26:PRO:HD2	1.83	0.40
2:AB:76:GLN:H	2:AB:76:GLN:HG3	1.57	0.40
3:AC:196:LEU:N	3:AC:196:LEU:HD22	2.37	0.40
3:AC:32:LEU:CB	3:AC:59:ARG:HH22	2.23	0.40
5:AE:101:ILE:H	5:AE:101:ILE:CD1	2.29	0.40
5:AE:146:ALA:O	5:AE:147:ASP:C	2.59	0.40
6:AF:55:ASP:C	6:AF:57:GLN:H	2.25	0.40
6:AF:68:PRO:HG2	6:AF:71:ARG:CG	2.39	0.40
7:AG:102:ARG:HG2	7:AG:106:GLN:NE2	2.24	0.40
10:AJ:79:ARG:HA	10:AJ:82:ILE:HG12	2.03	0.40
10:AJ:6:ILE:HA	10:AJ:97:GLU:O	2.21	0.40
15:AO:26:GLU:HA	15:AO:81:LEU:HD22	2.02	0.40
1:AA:656:C:O2'	15:AO:28:GLN:OE1	2.38	0.40
15:AO:43:LEU:HD11	15:AO:53:HIS:HA	2.01	0.40
16:AP:67:THR:HG22	16:AP:68:ASP:N	2.36	0.40
22:AW:51:U:C4	22:AW:52:G:C2	3.09	0.40
24:AY:311:ILE:HD12	24:AY:325:ARG:HH21	1.87	0.40
24:AY:61:THR:C	24:AY:63:ARG:H	2.24	0.40
25:B0:31:VAL:HG22	25:B0:65:GLY:O	2.21	0.40
29:B4:25:TYR:O	41:BG:101:ILE:HG23	2.20	0.40
30:B5:45:VAL:HG23	50:BR:99:LYS:O	2.21	0.40
35:BA:1173:G:H2'	35:BA:1175:U:C5	2.56	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:1408:C:O2'	35:BA:1409:C:H5'	2.21	0.40
35:BA:191:A:O2'	35:BA:192:C:H5'	2.21	0.40
35:BA:2199:A:N3	35:BA:2199:A:H2'	2.35	0.40
35:BA:2394:C:OP1	48:BP:63:PRO:CD	2.53	0.40
35:BA:311:A:C6	35:BA:328:U:C4	3.09	0.40
35:BA:341:G:C2'	35:BA:342:G:H5'	2.51	0.40
35:BA:398:G:H2'	35:BA:399:G:H8	1.84	0.40
35:BA:654(P):C:O2'	35:BA:654(Q):C:H5'	2.20	0.40
27:B2:47:ASN:ND2	35:BA:94(A):G:N2	2.61	0.40
35:BA:958:U:H5''	49:BQ:14:ARG:CD	2.51	0.40
37:BC:41:THR:HG22	37:BC:175:PRO:HB2	2.02	0.40
41:BG:178:PHE:O	41:BG:180:PHE:CE1	2.73	0.40
43:BI:110:ASP:HA	43:BI:111:PRO:HD2	1.94	0.40
46:BN:123:TYR:C	46:BN:125:GLY:N	2.74	0.40
48:BP:127:ALA:O	48:BP:148:LEU:HG	2.20	0.40
36:BB:117:G:H5'	51:BS:55:ALA:HB1	2.02	0.40
47:BO:122:LEU:CD2	52:BT:43:GLN:NE2	2.83	0.40
53:BU:111:GLU:OE2	53:BU:111:GLU:HA	2.20	0.40
53:BU:68:ALA:HB2	53:BU:99:ALA:HB1	2.02	0.40
53:BU:65:ILE:CD1	53:BU:93:LYS:HA	2.50	0.40
54:BV:4:ILE:HG22	54:BV:39:LEU:CD2	2.50	0.40
54:BV:52:VAL:CG2	54:BV:52:VAL:O	2.68	0.40
58:BZ:45:ASP:O	58:BZ:46:LYS:C	2.58	0.40
36:BB:103:G:N2	58:BZ:73:GLN:NE2	2.70	0.40
1:CA:1000:U:H2'	1:CA:1001:A:C8	2.56	0.40
1:CA:141:A:H1'	1:CA:182:U:O2	2.20	0.40
1:CA:193:C:H2'	1:CA:194:C:C6	2.56	0.40
1:CA:418:C:N4	1:CA:426:G:N1	2.69	0.40
1:CA:509:A:H8	1:CA:509:A:O5'	2.04	0.40
1:CA:910:C:O5'	1:CA:910:C:H6	2.04	0.40
1:CA:991:U:O2	1:CA:993:G:C8	2.74	0.40
2:CB:109:SER:C	2:CB:111:ARG:H	2.25	0.40
2:CB:97:TRP:CH2	2:CB:176:GLU:OE2	2.74	0.40
4:CD:99:SER:HB2	4:CD:139:ARG:HG3	2.03	0.40
4:CD:13:ARG:O	4:CD:14:ARG:HB3	2.21	0.40
5:CE:27:ARG:HD3	5:CE:47:LYS:HB3	2.04	0.40
5:CE:63:ARG:C	5:CE:65:ASN:H	2.24	0.40
8:CH:1:MET:HE2	8:CH:1:MET:N	2.36	0.40
8:CH:83:ILE:CD1	8:CH:137:VAL:HG22	2.51	0.40
1:CA:1346:A:H5''	9:CI:120:ARG:HH12	1.86	0.40
15:CO:32:LEU:O	15:CO:36:ILE:HG13	2.20	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:CP:9:PHE:HB3	16:CP:10:GLY:H	1.73	0.40
24:CY:26:LEU:HB2	24:CY:55:LEU:CD2	2.45	0.40
29:D4:34:GLU:O	29:D4:35:VAL:HB	2.21	0.40
35:DA:1076:C:H1'	45:DK:91:PRO:HD2	2.04	0.40
35:DA:1173:G:H2'	35:DA:1175:U:C5	2.56	0.40
35:DA:1313:U:H3'	35:DA:1314:C:H5'	2.03	0.40
35:DA:1721:G:C2	35:DA:1739:U:OP2	2.74	0.40
35:DA:2278:A:C2'	35:DA:2279:G:O5'	2.69	0.40
35:DA:265:A:H1'	35:DA:266:G:O4'	2.21	0.40
35:DA:581:C:H2'	35:DA:582:G:C8	2.57	0.40
35:DA:2128:C:OP1	37:DC:37:LYS:HG3	2.20	0.40
38:DD:31:LYS:O	38:DD:33:LEU:N	2.54	0.40
35:DA:1816:G:H8	38:DD:62:TYR:OH	2.05	0.40
39:DE:11:MET:HB3	39:DE:24:THR:HA	2.03	0.40
39:DE:55:ASN:HB2	39:DE:72:VAL:HG11	2.03	0.40
40:DF:88:VAL:HG21	40:DF:91:GLY:HA3	2.04	0.40
41:DG:165:THR:OG1	41:DG:166:ASP:N	2.53	0.40
41:DG:33:ARG:HG2	41:DG:33:ARG:H	1.78	0.40
43:DI:9:LEU:CD1	43:DI:9:LEU:N	2.84	0.40
47:DO:3:GLN:HB2	47:DO:4:PRO:HD2	2.03	0.40
51:DS:28:VAL:HG13	51:DS:99:LYS:HZ3	1.85	0.40
52:DT:89:VAL:CG1	52:DT:91:ARG:CG	2.96	0.40
55:DW:18:ARG:HG2	55:DW:18:ARG:NH1	2.34	0.40
57:DY:97:ARG:NH2	57:DY:98:VAL:CG2	2.84	0.40
1:AA:1374:A:C5	1:AA:1375:A:N7	2.89	0.40
1:AA:142:G:H2'	1:AA:143:A:H8	1.87	0.40
1:AA:383:A:H2'	1:AA:384:G:C4'	2.52	0.40
1:AA:503:C:C6	1:AA:504:C:H5	2.39	0.40
1:AA:624:C:O2'	1:AA:625:G:H5'	2.22	0.40
1:AA:684:A:H2'	1:AA:685:G:H8	1.86	0.40
2:AB:15:VAL:C	2:AB:16:HIS:CG	2.94	0.40
2:AB:19:HIS:CD2	2:AB:20:GLU:OE1	2.74	0.40
4:AD:156:GLU:O	4:AD:159:ARG:N	2.49	0.40
4:AD:182:LYS:HB3	4:AD:183:GLY:H	1.74	0.40
5:AE:6:PHE:CB	5:AE:34:VAL:HG22	2.44	0.40
5:AE:64:ARG:CZ	5:AE:64:ARG:HB2	2.51	0.40
7:AG:60:LYS:C	7:AG:62:PHE:H	2.25	0.40
8:AH:88:LYS:HB3	8:AH:89:PRO:CD	2.44	0.40
10:AJ:3:LYS:HD2	10:AJ:77:PRO:CG	2.38	0.40
13:AM:123:ALA:CB	24:AY:162:ALA:HB2	2.51	0.40
13:AM:7:VAL:CG1	41:BG:139:LEU:HD21	2.51	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:AQ:22:LEU:HD12	17:AQ:23:VAL:N	2.35	0.40
22:AW:63:G:H2'	22:AW:64:A:C5'	2.48	0.40
24:AY:106:LEU:HD13	24:AY:106:LEU:C	2.40	0.40
24:AY:46:ARG:NH1	24:AY:50:GLN:HB2	2.36	0.40
25:B0:12:ASN:HA	25:B0:12:ASN:HD22	1.69	0.40
26:B1:25:LYS:O	26:B1:27:GLU:N	2.55	0.40
27:B2:59:ARG:O	27:B2:62:THR:HB	2.22	0.40
28:B3:31:LEU:HD23	28:B3:31:LEU:HA	1.93	0.40
33:B8:4:MET:HE2	35:BA:593:G:H1'	2.03	0.40
35:BA:1045:A:H4'	35:BA:1047:G:C1'	2.52	0.40
35:BA:1721:G:C2	35:BA:1739:U:OP2	2.74	0.40
35:BA:209:C:H2'	35:BA:210:C:H6	1.87	0.40
35:BA:2128:C:OP1	37:BC:37:LYS:HG3	2.21	0.40
35:BA:26:G:C6	35:BA:27:G:N1	2.89	0.40
35:BA:2811:G:OP1	39:BE:60:ASN:CB	2.68	0.40
35:BA:55:G:H2'	35:BA:56:A:H8	1.86	0.40
35:BA:624:C:H1'	35:BA:657:U:H5'	2.03	0.40
35:BA:732:C:H2'	35:BA:733:G:O4'	2.21	0.40
35:BA:754:C:H2'	35:BA:755:C:C6	2.56	0.40
36:BB:55:U:H4'	41:BG:27:ASN:HD21	1.87	0.40
37:BC:181:PHE:CD2	37:BC:185:LYS:HB3	2.54	0.40
38:BD:108:PRO:CG	38:BD:111:LEU:HD23	2.51	0.40
38:BD:72:LYS:NZ	38:BD:72:LYS:HB3	2.36	0.40
38:BD:92:ILE:HD13	38:BD:92:ILE:N	2.27	0.40
39:BE:12:THR:HB	39:BE:13:ARG:H	1.72	0.40
39:BE:87:GLU:C	39:BE:89:ASP:N	2.73	0.40
42:BH:111:HIS:CG	42:BH:112:PRO:HD2	2.56	0.40
45:BK:132:ARG:NH1	45:BK:132:ARG:CB	2.83	0.40
45:BK:82:ALA:HB3	45:BK:84:LEU:CD2	2.51	0.40
46:BN:96:GLU:O	46:BN:100:GLU:HG3	2.21	0.40
47:BO:8:LEU:N	47:BO:8:LEU:HD22	2.36	0.40
48:BP:59:LEU:HD12	48:BP:61:ARG:HH12	1.85	0.40
49:BQ:59:ARG:NH2	49:BQ:60:ARG:HD3	2.37	0.40
50:BR:103:ARG:HD3	55:BW:40:ASN:ND2	2.35	0.40
52:BT:3:ARG:HB2	52:BT:6:LEU:HB2	1.98	0.40
52:BT:80:SER:CB	52:BT:81:PRO:HD3	2.41	0.40
53:BU:95:LEU:HD13	54:BV:4:ILE:CG2	2.49	0.40
1:CA:1109:C:C2'	1:CA:1110:A:H5'	2.51	0.40
1:CA:1332:A:H2'	1:CA:1333:A:H8	1.87	0.40
1:CA:1442(B):A:C4	52:DT:118:ARG:CZ	3.04	0.40
1:CA:1478:C:H2'	1:CA:1479:C:C6	2.55	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:353:A:C2'	1:CA:354:G:OP2	2.70	0.40
1:CA:384:G:O2'	1:CA:385:C:H5'	2.22	0.40
1:CA:630:G:H3'	1:CA:631:G:H5'	2.03	0.40
2:CB:41:ILE:N	2:CB:41:ILE:HD12	2.36	0.40
2:CB:71:VAL:HG13	2:CB:93:VAL:CB	2.31	0.40
2:CB:86:GLU:C	2:CB:88:ALA:N	2.74	0.40
3:CC:122:GLU:C	3:CC:124:ILE:N	2.74	0.40
3:CC:175:LEU:HD12	3:CC:175:LEU:N	2.37	0.40
3:CC:76:VAL:O	3:CC:84:ILE:HB	2.21	0.40
4:CD:170:VAL:CG1	4:CD:171:GLY:N	2.84	0.40
5:CE:37:ARG:HA	5:CE:114:GLY:CA	2.51	0.40
6:CF:58:GLY:O	6:CF:60:PHE:CD1	2.75	0.40
7:CG:106:GLN:O	7:CG:110:GLN:HG3	2.21	0.40
7:CG:43:PHE:O	7:CG:46:ALA:HB3	2.20	0.40
10:CJ:56:HIS:C	10:CJ:58:ASP:H	2.25	0.40
11:CK:30:VAL:HG21	11:CK:65:ALA:HA	2.03	0.40
13:CM:88:ARG:HD3	19:CS:73:GLU:OE1	2.22	0.40
16:CP:67:THR:HG22	16:CP:68:ASP:N	2.37	0.40
19:CS:41:VAL:O	19:CS:44:MET:SD	2.79	0.40
21:CU:22:ARG:N	21:CU:23:PRO:HD3	2.36	0.40
22:CV:27:G:H1	22:CV:43:C:H42	1.69	0.40
23:CX:20:A:N6	24:CX:193:SER:OG	2.53	0.40
25:D0:19:LYS:HD2	25:D0:19:LYS:N	2.36	0.40
25:D0:43:THR:CG2	25:D0:43:THR:O	2.62	0.40
27:D2:21:LEU:HA	27:D2:21:LEU:HD23	1.90	0.40
27:D2:25:VAL:O	27:D2:26:ARG:C	2.60	0.40
27:D2:66:GLU:C	27:D2:68:ARG:H	2.25	0.40
35:DA:1209:G:N2	35:DA:1210:A:H62	2.16	0.40
35:DA:1533:G:H1'	35:DA:1537:G:N1	2.37	0.40
35:DA:1695:G:N7	38:DD:14:ARG:NH2	2.69	0.40
35:DA:1826:G:H2'	35:DA:1827:C:C6	2.56	0.40
35:DA:1899:G:H2'	35:DA:1900:A:OP2	2.21	0.40
35:DA:197:A:H2'	35:DA:198:C:H5'	2.02	0.40
35:DA:2126:A:H61	35:DA:2163:C:C4'	2.32	0.40
35:DA:2115:G:H4'	35:DA:2167:U:H1'	2.02	0.40
35:DA:2240:C:O2'	35:DA:2241:A:H5'	2.21	0.40
35:DA:2320:A:N3	35:DA:2320:A:H2'	2.36	0.40
35:DA:2494:G:O2'	49:DQ:80:GLU:HA	2.21	0.40
35:DA:2639:A:H2'	35:DA:2640:G:O4'	2.21	0.40
35:DA:626:U:C5'	35:DA:627:A:H5'	2.50	0.40
35:DA:654(U):A:H2'	35:DA:654(V):A:C8	2.56	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:DC:193:PHE:O	37:DC:197:LEU:HG	2.20	0.40
38:DD:130:ALA:HB2	38:DD:192:THR:HB	2.03	0.40
38:DD:68:LYS:HB2	38:DD:70:TRP:CZ2	2.56	0.40
38:DD:80:ALA:O	38:DD:81:ALA:HB2	2.21	0.40
42:DH:98:LEU:HD12	42:DH:125:VAL:HG23	2.03	0.40
43:DI:15:VAL:C	43:DI:17:GLN:N	2.74	0.40
45:DK:107:ILE:HG21	45:DK:127:ILE:HD12	2.03	0.40
46:DN:51:PHE:CZ	46:DN:119:ARG:CD	3.04	0.40
47:DO:15:GLY:O	47:DO:46:ALA:HB1	2.21	0.40
47:DO:43:VAL:HG12	47:DO:54:GLU:HA	2.03	0.40
48:DP:35:HIS:O	48:DP:36:LYS:CB	2.69	0.40
48:DP:96:THR:O	48:DP:99:LEU:HB3	2.22	0.40
50:DR:116:LEU:O	50:DR:117:VAL:HB	2.21	0.40
57:DY:13:VAL:CB	57:DY:28:LYS:HD3	2.51	0.40
57:DY:97:ARG:O	57:DY:97:ARG:HG3	2.21	0.40
1:AA:1030(B):C:C2'	1:AA:1030(C):G:H5'	2.51	0.40
1:AA:1060:C:O2'	1:AA:1061:G:H5'	2.21	0.40
1:AA:1207:G:H2'	1:AA:1208:C:C6	2.56	0.40
1:AA:1401:G:H2'	1:AA:1402:C:O4'	2.21	0.40
1:AA:1414:U:H2'	1:AA:1415:G:H8	1.86	0.40
1:AA:141:A:H1'	1:AA:182:U:C2	2.56	0.40
1:AA:295:C:H2'	1:AA:296:U:H6	1.87	0.40
1:AA:817:C:H1'	1:AA:819:A:H5'	2.03	0.40
1:AA:80:G:N1	1:AA:88:A:OP2	2.55	0.40
2:AB:7:VAL:HA	2:AB:217:ARG:HH22	1.86	0.40
3:AC:25:GLY:C	3:AC:27:LYS:H	2.24	0.40
3:AC:3:ASN:HB2	3:AC:4:LYS:H	1.75	0.40
4:AD:58:LEU:CD2	4:AD:62:GLN:HG2	2.50	0.40
5:AE:57:LYS:HB3	5:AE:61:TYR:HE2	1.85	0.40
7:AG:46:ALA:O	7:AG:49:ILE:N	2.52	0.40
8:AH:127:LEU:N	8:AH:127:LEU:HD22	2.37	0.40
8:AH:61:VAL:O	8:AH:63:LEU:HD22	2.21	0.40
1:AA:1343:G:C1'	9:AI:121:ARG:HH12	2.34	0.40
13:AM:73:GLU:O	13:AM:76:ALA:HB3	2.20	0.40
13:AM:90:LEU:O	13:AM:91:ARG:HB2	2.21	0.40
22:AV:44:G:H2'	22:AV:45:U:C5'	2.49	0.40
23:AX:14:A:H2	23:AX:15:A:N6	2.16	0.40
29:B4:11:PRO:HA	29:B4:25:TYR:HA	2.03	0.40
30:B5:51:TYR:HD2	30:B5:52:TYR:OH	2.04	0.40
31:B6:25:LYS:HB2	33:B8:34:TRP:HE1	1.86	0.40
35:BA:1053:C:H2'	35:BA:1054:A:H8	1.86	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:1054:A:H2'	35:BA:1055:G:O4'	2.21	0.40
35:BA:1114:G:C3'	35:BA:1115:G:C5'	2.96	0.40
35:BA:1385:G:H1'	35:BA:1386:C:C6	2.56	0.40
35:BA:1528(A):A:C5	35:BA:1529:G:H8	2.40	0.40
35:BA:1750:G:O2'	35:BA:1751:C:H5'	2.21	0.40
35:BA:2345:G:N3	35:BA:2381:C:H2'	2.36	0.40
35:BA:2352:A:C2'	35:BA:2353:G:H5'	2.50	0.40
22:AW:77:PHA:CE1	35:BA:2395:C:H4'	2.51	0.40
35:BA:2453:A:O2'	35:BA:2454:G:H5'	2.21	0.40
35:BA:2552:U:H2'	35:BA:2554:U:OP2	2.21	0.40
35:BA:244:A:C2	35:BA:255:A:C4	3.09	0.40
35:BA:693:C:O2'	35:BA:694:U:H5'	2.21	0.40
35:BA:904:C:H2'	35:BA:905:U:C6	2.56	0.40
38:BD:45:ASN:CG	38:BD:46:GLN:H	2.25	0.40
39:BE:111:ARG:CZ	50:BR:2:ARG:HH21	2.34	0.40
39:BE:181:LEU:HD21	52:BT:7:ILE:HG23	2.03	0.40
40:BF:125:LEU:HD13	40:BF:199:TRP:CD2	2.56	0.40
40:BF:132:VAL:HG13	40:BF:133:ASN:N	2.36	0.40
42:BH:46:GLU:O	42:BH:49:VAL:O	2.38	0.40
43:BI:133:HIS:CB	43:BI:134:PRO:HD2	2.45	0.40
43:BI:77:LEU:HD13	43:BI:140:LEU:CG	2.51	0.40
45:BK:9:LYS:HA	45:BK:56:GLU:HB2	2.02	0.40
46:BN:128:HIS:HD2	46:BN:130:HIS:N	2.10	0.40
48:BP:8:PRO:C	48:BP:10:PRO:CD	2.90	0.40
49:BQ:72:LYS:HA	49:BQ:73:PRO:HD3	1.86	0.40
50:BR:9:LYS:O	50:BR:10:LEU:CD2	2.67	0.40
36:BB:28:C:P	51:BS:31:SER:HG	2.45	0.40
51:BS:59:LYS:CG	51:BS:60:GLY:N	2.83	0.40
52:BT:105:LEU:HD22	52:BT:109:GLU:OE1	2.22	0.40
53:BU:45:TYR:O	53:BU:49:HIS:N	2.51	0.40
46:BN:2:LYS:NZ	54:BV:12:TYR:HA	2.36	0.40
54:BV:57:VAL:HB	54:BV:99:ILE:HG22	2.04	0.40
56:BX:36:LYS:HD3	56:BX:56:THR:HG23	2.02	0.40
57:BY:28:LYS:C	57:BY:38:ILE:HG22	2.41	0.40
58:BZ:14:LYS:O	58:BZ:15:PRO:C	2.59	0.40
58:BZ:51:ALA:O	58:BZ:52:SER:HB2	2.21	0.40
1:CA:1354:C:H2'	1:CA:1355:G:C8	2.56	0.40
1:CA:1399:C:C2	1:CA:1401:G:C5	3.09	0.40
1:CA:148:G:O2'	1:CA:149:A:H5'	2.21	0.40
1:CA:269:C:H2'	1:CA:270:A:C8	2.56	0.40
1:CA:818:G:C3'	1:CA:819:A:C5'	2.99	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:851:G:H2'	1:CA:852:G:H8	1.86	0.40
2:CB:181:PHE:CD1	8:CH:70:GLN:HB3	2.55	0.40
2:CB:7:VAL:HA	2:CB:217:ARG:HH22	1.85	0.40
2:CB:56:ARG:HH11	2:CB:56:ARG:HG2	1.85	0.40
3:CC:175:LEU:HD12	3:CC:175:LEU:H	1.86	0.40
3:CC:74:GLY:O	3:CC:76:VAL:N	2.54	0.40
8:CH:116:LYS:HE2	8:CH:127:LEU:HD12	2.03	0.40
9:CI:47:LEU:N	9:CI:47:LEU:HD12	2.37	0.40
10:CJ:13:HIS:NE2	10:CJ:14:LYS:HG3	2.37	0.40
12:CL:27:LEU:C	12:CL:29:GLY:N	2.75	0.40
12:CL:7:ILE:HG23	12:CL:8:ASN:N	2.36	0.40
18:CR:36:ASN:O	18:CR:39:VAL:HB	2.20	0.40
18:CR:85:LEU:N	18:CR:85:LEU:HD12	2.35	0.40
20:CT:57:ARG:HH12	20:CT:100:ILE:CG1	2.34	0.40
22:CV:55:U:C2	22:CV:57:G:H5''	2.55	0.40
24:CY:319:ASN:HA	24:CY:333:PRO:HG3	2.02	0.40
30:D5:50:GLY:HA3	30:D5:56:LYS:HB3	2.02	0.40
35:DA:819:A:C4	35:DA:1189:A:C2	3.09	0.40
35:DA:1425:G:H2'	35:DA:1426:G:O4'	2.21	0.40
35:DA:1746:G:C2	35:DA:1747:G:C8	3.09	0.40
35:DA:2092:U:H4'	35:DA:2093:G:O5'	2.21	0.40
35:DA:2195:C:O2'	35:DA:2196:C:H5'	2.22	0.40
35:DA:2306:C:H5'	35:DA:2307:G:O5'	2.22	0.40
35:DA:2307:G:N3	35:DA:2307:G:H3'	2.37	0.40
35:DA:234:C:H2'	35:DA:235:U:C6	2.55	0.40
35:DA:2463:C:C2'	35:DA:2464:C:H5'	2.50	0.40
35:DA:2464:C:O2'	35:DA:2465:C:P	2.79	0.40
35:DA:2649:U:H2'	35:DA:2650:U:C6	2.57	0.40
35:DA:613:G:C8	35:DA:613:G:C5'	2.98	0.40
37:DC:197:LEU:C	37:DC:199:ALA:N	2.75	0.40
37:DC:226:ASN:HD21	37:DC:228:HIS:HB2	1.86	0.40
38:DD:108:PRO:HA	38:DD:196:VAL:O	2.21	0.40
35:DA:1819:A:H5''	38:DD:161:THR:HG21	2.02	0.40
39:DE:31:CYS:HA	39:DE:32:PRO:HD3	1.78	0.40
39:DE:47:VAL:HG13	39:DE:47:VAL:O	2.20	0.40
41:DG:119:GLY:H	41:DG:181:ARG:NH2	2.15	0.40
41:DG:163:ALA:HB1	41:DG:168:GLU:HG3	2.04	0.40
43:DI:125:GLU:CA	43:DI:125:GLU:OE1	2.69	0.40
46:DN:19:GLU:O	46:DN:60:ILE:HA	2.21	0.40
48:DP:49:ARG:HH21	48:DP:50:ARG:HH22	1.70	0.40
48:DP:88:LEU:O	48:DP:89:ALA:C	2.59	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
50:DR:34:ILE:HA	50:DR:34:ILE:HD13	1.70	0.40
52:DT:65:LYS:HG3	52:DT:66:VAL:N	2.35	0.40
53:DU:21:ALA:CB	53:DU:35:ALA:HB1	2.52	0.40
53:DU:88:ILE:C	53:DU:90:VAL:H	2.24	0.40
53:DU:65:ILE:CD1	53:DU:93:LYS:HA	2.50	0.40
56:DX:53:LYS:NZ	56:DX:55:ASN:HD21	2.19	0.40
57:DY:37:VAL:O	57:DY:38:ILE:HB	2.20	0.40
57:DY:95:LYS:CD	57:DY:99:CYS:O	2.69	0.40
58:DZ:136:PHE:O	58:DZ:138:GLU:N	2.54	0.40
1:AA:363:A:N7	12:AL:30:ALA:HB1	2.36	0.40
1:AA:554:C:H2'	1:AA:555:C:C6	2.56	0.40
1:AA:770:C:O2'	1:AA:771:G:H5'	2.21	0.40
2:AB:213:LEU:C	2:AB:213:LEU:HD23	2.41	0.40
2:AB:86:GLU:C	2:AB:88:ALA:N	2.74	0.40
3:AC:113:ALA:O	3:AC:115:LEU:N	2.54	0.40
3:AC:127:ARG:CD	3:AC:127:ARG:N	2.80	0.40
4:AD:101:LEU:HD23	4:AD:121:VAL:HG11	2.03	0.40
4:AD:12:CYS:HA	4:AD:19:LEU:N	2.27	0.40
5:AE:139:LEU:C	5:AE:141:GLN:N	2.75	0.40
5:AE:150:ARG:HA	5:AE:153:LYS:CE	2.45	0.40
7:AG:151:TYR:CD1	7:AG:151:TYR:N	2.90	0.40
8:AH:121:ASP:OD2	8:AH:122:ARG:HG3	2.21	0.40
11:AK:124:LYS:HB3	11:AK:124:LYS:HZ3	1.86	0.40
13:AM:122:LYS:O	13:AM:123:ALA:HB2	2.21	0.40
13:AM:28:ALA:C	13:AM:30:ALA:N	2.74	0.40
14:AN:15:LYS:HB3	14:AN:16:PHE:CE2	2.57	0.40
19:AS:44:MET:HA	19:AS:44:MET:HE3	2.03	0.40
19:AS:33:THR:CG2	19:AS:51:VAL:HA	2.51	0.40
21:AU:12:LYS:N	21:AU:12:LYS:HD2	2.37	0.40
22:AW:17:C:C2'	22:AW:17:C:O2	2.67	0.40
26:B1:19:GLN:HB2	26:B1:35:THR:CG2	2.51	0.40
30:B5:51:TYR:HD2	30:B5:52:TYR:CE1	2.39	0.40
35:BA:1719:G:C6	35:BA:1720:U:C4	3.09	0.40
35:BA:2356:C:H2'	35:BA:2357:U:O4'	2.21	0.40
35:BA:2399:G:H2'	35:BA:2400:G:O4'	2.21	0.40
35:BA:2498:C:O2'	35:BA:2499:C:H5'	2.21	0.40
22:AW:77:PHA:HD2	35:BA:249:C:OP2	2.20	0.40
35:BA:2661:G:N3	35:BA:2661:G:OP2	2.54	0.40
35:BA:1709:U:H1'	35:BA:2860:A:N3	2.37	0.40
35:BA:621:A:C2'	35:BA:622:G:H5'	2.46	0.40
35:BA:848:G:H5'	35:BA:848:G:C8	2.56	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:BC:48:LEU:HD13	37:BC:172:ILE:HB	2.03	0.40
39:BE:27:LEU:HD12	39:BE:180:ASN:O	2.22	0.40
39:BE:34:VAL:HG13	39:BE:48:GLN:NE2	2.33	0.40
39:BE:37:ARG:O	39:BE:45:THR:HA	2.21	0.40
40:BF:143:ALA:HB1	40:BF:148:LEU:HB2	2.03	0.40
40:BF:157:VAL:HG13	40:BF:157:VAL:O	2.22	0.40
41:BG:180:PHE:CB	41:BG:182:LYS:HG3	2.50	0.40
41:BG:16:ARG:NH2	41:BG:33:ARG:HG3	2.28	0.40
42:BH:43:VAL:HG11	42:BH:52:VAL:HA	2.03	0.40
43:BI:12:LEU:CD1	43:BI:19:VAL:HG21	2.52	0.40
45:BK:4:VAL:CG2	45:BK:5:VAL:H	2.14	0.40
45:BK:79:ARG:NH1	45:BK:79:ARG:HG2	2.37	0.40
51:BS:95:HIS:O	51:BS:96:GLY:C	2.60	0.40
52:BT:48:ILE:N	52:BT:48:ILE:CD1	2.84	0.40
35:BA:2847:U:OP1	52:BT:98:LYS:HD3	2.22	0.40
53:BU:8:VAL:HG23	53:BU:11:ARG:NH2	2.29	0.40
53:BU:9:VAL:O	53:BU:13:LYS:HE3	2.22	0.40
54:BV:14:VAL:HG21	54:BV:57:VAL:HG21	2.02	0.40
54:BV:19:LYS:C	54:BV:20:LEU:HD12	2.42	0.40
57:BY:62:GLU:OE2	57:BY:63:LYS:O	2.39	0.40
1:CA:1104:G:C4	1:CA:1105:A:C8	3.09	0.40
1:CA:1293:G:O2'	1:CA:1294:G:P	2.79	0.40
1:CA:1428:A:H2'	1:CA:1429:C:C6	2.55	0.40
1:CA:1456:G:H3'	1:CA:1456:G:N3	2.37	0.40
1:CA:177:C:O2'	1:CA:178:C:H5'	2.21	0.40
1:CA:180:U:C2'	1:CA:181:G:H5''	2.51	0.40
1:CA:357:G:C2	1:CA:358:U:C5	3.10	0.40
1:CA:374:A:C6	1:CA:375:U:C4	3.09	0.40
1:CA:439:A:H2'	1:CA:441:A:O5'	2.22	0.40
1:CA:570:G:H2'	1:CA:571:U:C6	2.56	0.40
1:CA:760:G:H2'	1:CA:761:G:C5'	2.51	0.40
1:CA:78:G:H2'	1:CA:79:G:O4'	2.22	0.40
1:CA:952:U:O2'	1:CA:953:G:H5'	2.22	0.40
1:CA:955:U:H2'	1:CA:956:U:O4'	2.20	0.40
2:CB:19:HIS:CD2	2:CB:20:GLU:OE1	2.74	0.40
3:CC:156:ARG:HD3	3:CC:194:GLY:N	2.36	0.40
5:CE:140:ARG:CG	5:CE:140:ARG:O	2.68	0.40
6:CF:14:LEU:HB3	6:CF:18:GLN:HB2	2.03	0.40
8:CH:100:ILE:HG21	8:CH:121:ASP:HA	2.03	0.40
8:CH:113:SER:O	8:CH:131:GLY:HA3	2.21	0.40
1:CA:826:C:C5'	8:CH:12:ARG:HH21	2.35	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:CI:10:ARG:HD2	9:CI:105:ASP:N	2.36	0.40
10:CJ:87:THR:C	10:CJ:89:ASP:N	2.74	0.40
11:CK:120:ARG:HA	11:CK:121:PRO:HD3	1.81	0.40
17:CQ:83:ASP:O	17:CQ:87:LYS:HG2	2.21	0.40
17:CQ:90:ILE:HA	17:CQ:93:GLN:HB3	2.03	0.40
19:CS:11:VAL:HG13	19:CS:11:VAL:O	2.22	0.40
19:CS:16:LEU:O	19:CS:18:LYS:N	2.54	0.40
19:CS:28:LYS:HZ1	19:CS:29:ARG:NH2	2.19	0.40
21:CU:5:ASP:C	21:CU:7:ARG:H	2.25	0.40
22:CW:18:G:N2	22:CW:55:U:H1'	2.36	0.40
24:CY:46:ARG:NH1	24:CY:50:GLN:HB2	2.36	0.40
26:D1:27:GLU:CG	26:D1:28:GLY:H	2.32	0.40
27:D2:28:LYS:O	27:D2:32:LEU:HB2	2.20	0.40
27:D2:55:ARG:NH1	35:DA:75:G:H4'	2.36	0.40
27:D2:21:LEU:HD13	27:D2:64:LEU:CA	2.52	0.40
29:D4:15:ILE:HD13	29:D4:21:VAL:HG13	2.03	0.40
30:D5:41:PRO:CG	30:D5:44:THR:HG21	2.48	0.40
33:D8:59:LYS:HE3	33:D8:59:LYS:HB2	1.88	0.40
35:DA:1495:A:H2'	35:DA:1495:A:N3	2.37	0.40
35:DA:1532:C:O2'	35:DA:1533:G:H5'	2.22	0.40
35:DA:1948:G:O2'	35:DA:1949:G:H5'	2.22	0.40
22:CW:76:8AN:O2'	35:DA:2394:C:N3	2.46	0.40
35:DA:272(G):C:C2'	35:DA:272(H):C:H5''	2.52	0.40
35:DA:2820:A:O4'	50:DR:5:LYS:HD2	2.21	0.40
35:DA:657:U:OP2	35:DA:657:U:H6	2.04	0.40
35:DA:664:C:H2'	35:DA:665:C:C6	2.56	0.40
35:DA:732:C:H2'	35:DA:733:G:O4'	2.21	0.40
35:DA:970:C:H2'	35:DA:971:C:C6	2.56	0.40
36:DB:104:U:H5''	49:DQ:141:GLN:NE2	2.36	0.40
36:DB:94:C:O2'	36:DB:95:C:H5'	2.22	0.40
37:DC:52:PRO:HG2	37:DC:53:ARG:H	1.86	0.40
38:DD:70:TRP:CZ3	38:DD:146:GLU:CD	2.95	0.40
39:DE:200:GLU:N	39:DE:200:GLU:OE2	2.50	0.40
35:DA:2787:C:O2'	39:DE:61:ARG:HD3	2.21	0.40
41:DG:133:LEU:C	41:DG:133:LEU:HD12	2.41	0.40
41:DG:166:ASP:HA	41:DG:169:ALA:CB	2.47	0.40
42:DH:32:GLU:O	42:DH:33:LEU:HD23	2.22	0.40
43:DI:44:LEU:HA	43:DI:44:LEU:HD12	1.88	0.40
43:DI:79:ILE:O	43:DI:143:SER:N	2.54	0.40
43:DI:84:GLY:O	43:DI:85:GLU:HB3	2.22	0.40
46:DN:29:LYS:O	46:DN:33:LEU:HB2	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:DN:96:GLU:O	46:DN:100:GLU:HG3	2.21	0.40
49:DQ:16:ARG:CB	49:DQ:18:LYS:NZ	2.75	0.40
49:DQ:39:PRO:O	49:DQ:40:ALA:HB2	2.22	0.40
50:DR:2:ARG:CD	50:DR:5:LYS:NZ	2.85	0.40
52:DT:131:ALA:O	52:DT:133:GLU:N	2.53	0.40
54:DV:99:ILE:H	54:DV:99:ILE:HD13	1.85	0.40
35:DA:143:G:C1'	56:DX:37:THR:HG21	2.44	0.40
57:DY:7:VAL:C	57:DY:8:LYS:HD2	2.41	0.40
58:DZ:138:GLU:O	58:DZ:156:LYS:HB2	2.22	0.40
58:DZ:116:VAL:O	58:DZ:174:VAL:HA	2.21	0.40
58:DZ:183:LEU:HD13	58:DZ:184:ALA:N	2.36	0.40
58:DZ:185:GLU:HB3	58:DZ:186:GLU:H	1.63	0.40
1:AA:1120:G:H1	1:AA:1153:C:H42	1.69	0.40
1:AA:1332:A:H2'	1:AA:1333:A:H8	1.87	0.40
1:AA:976:G:H22	1:AA:1362:C:H2'	1.80	0.40
1:AA:1479:C:H2'	1:AA:1480:G:C8	2.48	0.40
1:AA:153:C:O2'	1:AA:154:C:H5'	2.21	0.40
1:AA:439:A:H2'	1:AA:441:A:O5'	2.22	0.40
1:AA:491:G:O2'	1:AA:492:G:H5'	2.22	0.40
1:AA:760:G:H2'	1:AA:761:G:C5'	2.51	0.40
1:AA:764:C:O2'	1:AA:765:G:H5'	2.22	0.40
2:AB:13:ALA:O	2:AB:14:GLY:C	2.59	0.40
8:AH:105:ARG:O	8:AH:105:ARG:HG3	2.21	0.40
9:AI:10:ARG:HD2	9:AI:105:ASP:N	2.36	0.40
10:AJ:86:MET:HG3	10:AJ:87:THR:HG23	2.03	0.40
10:AJ:88:LEU:HG	10:AJ:88:LEU:O	2.21	0.40
13:AM:14:ARG:C	13:AM:16:ASP:H	2.25	0.40
20:AT:97:ALA:HA	20:AT:98:PRO:HD2	1.93	0.40
27:B2:24:LEU:HD12	27:B2:24:LEU:HA	1.92	0.40
33:B8:8:LYS:O	33:B8:12:LYS:HG3	2.21	0.40
33:B8:63:PRO:O	33:B8:64:TYR:O	2.38	0.40
35:BA:1141:U:H4'	35:BA:1142(A):A:O4'	2.21	0.40
35:BA:1186:G:H2'	35:BA:1187:G:O4'	2.21	0.40
35:BA:1532:C:O2'	35:BA:1533:G:H5'	2.22	0.40
35:BA:1533:G:H1'	35:BA:1537:G:N1	2.36	0.40
35:BA:1653:G:H3'	50:BR:4:LEU:HD23	2.03	0.40
35:BA:1926:U:H2'	35:BA:1928:A:OP2	2.22	0.40
35:BA:1947:C:H2'	35:BA:1948:G:C5'	2.48	0.40
35:BA:2112:G:O4'	35:BA:2112:G:P	2.80	0.40
35:BA:2298:A:H62	35:BA:2318:G:H8	1.68	0.40
35:BA:2615:U:H2'	35:BA:2616:C:C6	2.57	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:271(R):G:O2'	35:BA:271(S):G:H5'	2.21	0.40
35:BA:2801(A):A:H5'	35:BA:2802:G:H8	1.86	0.40
35:BA:78:A:H2'	35:BA:79:G:C8	2.56	0.40
35:BA:852:G:C2'	35:BA:853:G:H5'	2.52	0.40
35:BA:962:G:C2'	35:BA:963:U:H5'	2.52	0.40
37:BC:191:ARG:NH1	37:BC:191:ARG:HG3	2.36	0.40
37:BC:23:ILE:CG2	37:BC:191:ARG:HH12	2.35	0.40
37:BC:3:LYS:O	37:BC:4:HIS:HD2	2.05	0.40
38:BD:97:TYR:CE1	38:BD:103:ARG:HG3	2.56	0.40
39:BE:57:LYS:HD2	39:BE:59:VAL:HG12	2.04	0.40
39:BE:93:VAL:HG21	39:BE:180:ASN:CA	2.52	0.40
41:BG:132:ASN:OD1	41:BG:158:ALA:HA	2.22	0.40
41:BG:172:LEU:C	41:BG:172:LEU:CD2	2.90	0.40
42:BH:159:GLU:HB3	42:BH:160:LYS:H	1.57	0.40
43:BI:64:GLU:HG2	43:BI:67:ARG:HD2	2.03	0.40
44:BJ:80:UNK:O	44:BJ:81:UNK:C	2.70	0.40
35:BA:2562:U:C1'	47:BO:23:ARG:HH11	2.28	0.40
48:BP:105:LEU:HD12	48:BP:105:LEU:N	2.32	0.40
48:BP:25:SER:O	48:BP:30:THR:HG23	2.21	0.40
49:BQ:18:LYS:O	49:BQ:19:GLY:O	2.40	0.40
50:BR:45:ARG:HB3	50:BR:46:GLY:H	1.75	0.40
52:BT:89:VAL:CB	52:BT:91:ARG:HG3	2.51	0.40
53:BU:80:ILE:HD13	53:BU:80:ILE:HA	1.89	0.40
54:BV:47:VAL:HG12	54:BV:52:VAL:HG13	2.03	0.40
57:BY:52:SER:O	57:BY:54:LYS:N	2.54	0.40
57:BY:76:CYS:O	57:BY:77:PRO:C	2.60	0.40
58:BZ:166:SER:HB2	58:BZ:167:PRO:CA	2.51	0.40
1:CA:1048:G:OP2	14:CN:3:ARG:NH2	2.55	0.40
1:CA:1409:C:H2'	1:CA:1410:G:C8	2.55	0.40
1:CA:1412:C:H2'	1:CA:1413:A:C8	2.56	0.40
1:CA:189(C):C:C2'	1:CA:189(D):C:H5'	2.51	0.40
1:CA:563:A:C2	1:CA:567:G:C6	3.10	0.40
2:CB:200:ILE:CG2	2:CB:201:ILE:N	2.84	0.40
3:CC:81:GLY:O	3:CC:85:ARG:HB2	2.21	0.40
5:CE:103:GLY:C	5:CE:105:VAL:H	2.24	0.40
7:CG:27:ILE:HG21	7:CG:40:ALA:HB2	2.04	0.40
8:CH:63:LEU:N	8:CH:63:LEU:HD22	2.37	0.40
13:CM:37:THR:HA	13:CM:55:ARG:NH2	2.37	0.40
15:CO:10:LYS:O	15:CO:14:GLU:HB2	2.22	0.40
16:CP:4:ILE:HD12	16:CP:4:ILE:N	2.37	0.40
24:CY:169:ILE:HG22	24:CY:171:VAL:HG23	2.04	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:CY:263:GLN:HA	24:CY:271:ASN:HD22	1.86	0.40
31:D6:27:LYS:O	31:D6:29:ASN:N	2.54	0.40
31:D6:43:CYS:O	31:D6:44:ARG:O	2.39	0.40
33:D8:4:MET:HE2	35:DA:593:G:H1'	2.02	0.40
33:D8:61:LEU:HD23	33:D8:61:LEU:H	1.86	0.40
35:DA:1054:A:H2'	35:DA:1055:G:O4'	2.21	0.40
35:DA:1091:G:H2'	35:DA:1092:C:C6	2.57	0.40
30:D5:11:THR:CG2	35:DA:1263:U:O3'	2.66	0.40
35:DA:1506:C:O2	35:DA:1506:C:C2'	2.68	0.40
35:DA:1511:C:H2'	35:DA:1512:U:O4'	2.22	0.40
35:DA:152:G:H2'	35:DA:153:C:C6	2.55	0.40
35:DA:2110:G:O2'	35:DA:2120:G:H5'	2.22	0.40
35:DA:2555:U:C2'	35:DA:2556:C:H5'	2.52	0.40
35:DA:2709:G:O2'	35:DA:2710:C:H5'	2.22	0.40
35:DA:2819:G:H2'	35:DA:2821:A:N7	2.36	0.40
35:DA:2887:U:H2'	35:DA:2888:C:C6	2.57	0.40
35:DA:341:G:O2'	35:DA:342:G:H5'	2.22	0.40
35:DA:413:C:O5'	35:DA:413:C:H6	2.04	0.40
35:DA:621:A:C2'	35:DA:622:G:H5'	2.46	0.40
32:D7:12:ARG:HG3	35:DA:686:G:O6	2.22	0.40
35:DA:942:G:O2'	35:DA:943:U:H5'	2.22	0.40
36:DB:114:C:O2'	51:DS:46:VAL:HG13	2.22	0.40
37:DC:181:PHE:CD2	37:DC:185:LYS:HB3	2.54	0.40
37:DC:2:PRO:HG2	37:DC:3:LYS:H	1.86	0.40
38:DD:28:GLU:N	38:DD:29:PRO:CD	2.85	0.40
38:DD:35:LYS:N	38:DD:36:PRO:HD2	2.36	0.40
39:DE:129:HIS:O	39:DE:130:GLY:O	2.40	0.40
39:DE:50:GLY:HA2	39:DE:78:LEU:HB3	2.03	0.40
41:DG:47:LYS:HB2	41:DG:82:LEU:HD12	2.02	0.40
41:DG:47:LYS:HZ2	41:DG:81:LYS:CB	2.35	0.40
42:DH:86:GLU:OE1	42:DH:86:GLU:N	2.52	0.40
46:DN:119:ARG:HG3	46:DN:119:ARG:HH11	1.87	0.40
47:DO:73:ASP:C	47:DO:73:ASP:OD1	2.59	0.40
48:DP:30:THR:HG22	48:DP:31:ALA:H	1.85	0.40
48:DP:34:GLY:O	48:DP:35:HIS:CB	2.69	0.40
50:DR:2:ARG:HG3	50:DR:2:ARG:HH11	1.87	0.40
50:DR:67:LEU:CD2	50:DR:76:VAL:HG11	2.51	0.40
51:DS:16:ASN:OD1	51:DS:17:ARG:N	2.55	0.40
52:DT:128:GLU:CD	52:DT:129:ARG:N	2.75	0.40
52:DT:57:PHE:O	52:DT:59:THR:HG22	2.22	0.40
52:DT:19:LEU:HD22	52:DT:85:LYS:HG3	2.02	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
53:DU:24:TYR:HB2	53:DU:29:SER:HB3	2.03	0.40
54:DV:55:ALA:HA	54:DV:101:GLY:HA2	2.04	0.40
54:DV:82:ARG:O	54:DV:83:ARG:HD3	2.21	0.40
56:DX:65:ARG:CG	56:DX:66:LEU:N	2.85	0.40
58:DZ:45:ASP:O	58:DZ:49:ARG:HG2	2.20	0.40
58:DZ:53:ILE:HG13	58:DZ:53:ILE:O	2.21	0.40
58:DZ:79:ARG:O	58:DZ:80:ARG:CB	2.60	0.40

There are no symmetry-related clashes.

5.3 Torsion angles [i](#)

5.3.1 Protein backbone [i](#)

In the following table, the Percentiles column shows the percent Ramachandran outliers of the chain as a percentile score with respect to all X-ray entries followed by that with respect to entries of similar resolution.

The Analysed column shows the number of residues for which the backbone conformation was analysed, and the total number of residues.

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
2	AB	233/256 (91%)	127 (54%)	71 (30%)	35 (15%)	0	0
2	CB	233/256 (91%)	128 (55%)	70 (30%)	35 (15%)	0	0
3	AC	205/239 (86%)	129 (63%)	40 (20%)	36 (18%)	0	0
3	CC	205/239 (86%)	129 (63%)	42 (20%)	34 (17%)	0	0
4	AD	206/209 (99%)	139 (68%)	45 (22%)	22 (11%)	0	2
4	CD	206/209 (99%)	139 (68%)	44 (21%)	23 (11%)	0	2
5	AE	149/162 (92%)	115 (77%)	23 (15%)	11 (7%)	1	6
5	CE	149/162 (92%)	114 (76%)	24 (16%)	11 (7%)	1	6
6	AF	99/101 (98%)	70 (71%)	21 (21%)	8 (8%)	1	5
6	CF	99/101 (98%)	73 (74%)	18 (18%)	8 (8%)	1	5
7	AG	153/156 (98%)	117 (76%)	26 (17%)	10 (6%)	1	8
7	CG	153/156 (98%)	117 (76%)	27 (18%)	9 (6%)	1	10
8	AH	136/138 (99%)	106 (78%)	23 (17%)	7 (5%)	2	13
8	CH	136/138 (99%)	104 (76%)	24 (18%)	8 (6%)	1	10

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
9	AI	121/128 (94%)	86 (71%)	24 (20%)	11 (9%)	1	4
9	CI	121/128 (94%)	86 (71%)	24 (20%)	11 (9%)	1	4
10	AJ	97/105 (92%)	70 (72%)	22 (23%)	5 (5%)	2	12
10	CJ	97/105 (92%)	71 (73%)	21 (22%)	5 (5%)	2	12
11	AK	117/129 (91%)	86 (74%)	27 (23%)	4 (3%)	3	21
11	CK	117/129 (91%)	87 (74%)	26 (22%)	4 (3%)	3	21
12	AL	123/132 (93%)	84 (68%)	21 (17%)	18 (15%)	0	1
12	CL	123/132 (93%)	84 (68%)	21 (17%)	18 (15%)	0	1
13	AM	113/126 (90%)	71 (63%)	25 (22%)	17 (15%)	0	0
13	CM	113/126 (90%)	70 (62%)	26 (23%)	17 (15%)	0	0
14	AN	58/61 (95%)	40 (69%)	13 (22%)	5 (9%)	1	4
14	CN	58/61 (95%)	40 (69%)	12 (21%)	6 (10%)	0	3
15	AO	86/89 (97%)	66 (77%)	18 (21%)	2 (2%)	6	28
15	CO	86/89 (97%)	66 (77%)	18 (21%)	2 (2%)	6	28
16	AP	82/88 (93%)	58 (71%)	17 (21%)	7 (8%)	1	5
16	CP	82/88 (93%)	58 (71%)	16 (20%)	8 (10%)	0	3
17	AQ	98/105 (93%)	76 (78%)	13 (13%)	9 (9%)	1	4
17	CQ	98/105 (93%)	76 (78%)	12 (12%)	10 (10%)	0	3
18	AR	68/88 (77%)	45 (66%)	16 (24%)	7 (10%)	0	3
18	CR	68/88 (77%)	45 (66%)	15 (22%)	8 (12%)	0	1
19	AS	77/93 (83%)	44 (57%)	22 (29%)	11 (14%)	0	1
19	CS	77/93 (83%)	44 (57%)	22 (29%)	11 (14%)	0	1
20	AT	97/106 (92%)	63 (65%)	26 (27%)	8 (8%)	1	5
20	CT	97/106 (92%)	63 (65%)	24 (25%)	10 (10%)	0	3
21	AU	23/27 (85%)	16 (70%)	5 (22%)	2 (9%)	1	4
21	CU	23/27 (85%)	16 (70%)	5 (22%)	2 (9%)	1	4
24	AY	349/351 (99%)	263 (75%)	65 (19%)	21 (6%)	1	9
24	CY	349/351 (99%)	272 (78%)	55 (16%)	22 (6%)	1	8
25	B0	81/85 (95%)	69 (85%)	11 (14%)	1 (1%)	13	44
25	D0	81/85 (95%)	69 (85%)	11 (14%)	1 (1%)	13	44
26	B1	92/98 (94%)	64 (70%)	16 (17%)	12 (13%)	0	1

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
26	D1	92/98 (94%)	72 (78%)	12 (13%)	8 (9%)	1	4
27	B2	69/72 (96%)	46 (67%)	12 (17%)	11 (16%)	0	0
27	D2	69/72 (96%)	42 (61%)	16 (23%)	11 (16%)	0	0
28	B3	58/60 (97%)	52 (90%)	6 (10%)	0	100	100
28	D3	58/60 (97%)	52 (90%)	6 (10%)	0	100	100
29	B4	29/71 (41%)	16 (55%)	10 (34%)	3 (10%)	0	3
29	D4	29/71 (41%)	16 (55%)	10 (34%)	3 (10%)	0	3
30	B5	57/60 (95%)	41 (72%)	5 (9%)	11 (19%)	0	0
30	D5	57/60 (95%)	41 (72%)	5 (9%)	11 (19%)	0	0
31	B6	41/54 (76%)	18 (44%)	7 (17%)	16 (39%)	0	0
31	D6	43/54 (80%)	17 (40%)	9 (21%)	17 (40%)	0	0
32	B7	47/49 (96%)	47 (100%)	0	0	100	100
32	D7	47/49 (96%)	46 (98%)	1 (2%)	0	100	100
33	B8	62/65 (95%)	43 (69%)	11 (18%)	8 (13%)	0	1
33	D8	62/65 (95%)	44 (71%)	9 (14%)	9 (14%)	0	1
34	B9	34/37 (92%)	31 (91%)	2 (6%)	1 (3%)	4	24
34	D9	34/37 (92%)	31 (91%)	2 (6%)	1 (3%)	4	24
37	BC	116/229 (51%)	88 (76%)	19 (16%)	9 (8%)	1	5
37	DC	116/229 (51%)	88 (76%)	19 (16%)	9 (8%)	1	5
38	BD	270/276 (98%)	203 (75%)	37 (14%)	30 (11%)	0	2
38	DD	270/276 (98%)	205 (76%)	37 (14%)	28 (10%)	0	3
39	BE	203/206 (98%)	146 (72%)	34 (17%)	23 (11%)	0	2
39	DE	203/206 (98%)	149 (73%)	32 (16%)	22 (11%)	0	2
40	BF	206/210 (98%)	149 (72%)	33 (16%)	24 (12%)	0	1
40	DF	206/210 (98%)	149 (72%)	34 (16%)	23 (11%)	0	2
41	BG	177/182 (97%)	98 (55%)	50 (28%)	29 (16%)	0	0
41	DG	179/182 (98%)	123 (69%)	26 (14%)	30 (17%)	0	0
42	BH	158/180 (88%)	105 (66%)	27 (17%)	26 (16%)	0	0
42	DH	158/180 (88%)	105 (66%)	28 (18%)	25 (16%)	0	0
43	BI	144/148 (97%)	86 (60%)	34 (24%)	24 (17%)	0	0
43	DI	144/148 (97%)	90 (62%)	40 (28%)	14 (10%)	0	3

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
45	BK	139/147 (95%)	78 (56%)	37 (27%)	24 (17%)	0	0
45	DK	139/147 (95%)	78 (56%)	37 (27%)	24 (17%)	0	0
46	BN	137/140 (98%)	105 (77%)	24 (18%)	8 (6%)	1	10
46	DN	137/140 (98%)	103 (75%)	26 (19%)	8 (6%)	1	10
47	BO	120/122 (98%)	101 (84%)	14 (12%)	5 (4%)	3	16
47	DO	120/122 (98%)	102 (85%)	12 (10%)	6 (5%)	2	13
48	BP	144/150 (96%)	71 (49%)	32 (22%)	41 (28%)	0	0
48	DP	144/150 (96%)	71 (49%)	33 (23%)	40 (28%)	0	0
49	BQ	139/141 (99%)	108 (78%)	25 (18%)	6 (4%)	2	16
49	DQ	139/141 (99%)	109 (78%)	23 (16%)	7 (5%)	2	13
50	BR	115/118 (98%)	92 (80%)	15 (13%)	8 (7%)	1	7
50	DR	115/118 (98%)	93 (81%)	14 (12%)	8 (7%)	1	7
51	BS	97/112 (87%)	51 (53%)	29 (30%)	17 (18%)	0	0
51	DS	97/112 (87%)	51 (53%)	28 (29%)	18 (19%)	0	0
52	BT	136/146 (93%)	84 (62%)	33 (24%)	19 (14%)	0	1
52	DT	136/146 (93%)	85 (62%)	32 (24%)	19 (14%)	0	1
53	BU	115/118 (98%)	97 (84%)	11 (10%)	7 (6%)	1	9
53	DU	115/118 (98%)	98 (85%)	9 (8%)	8 (7%)	1	7
54	BV	99/101 (98%)	72 (73%)	12 (12%)	15 (15%)	0	0
54	DV	99/101 (98%)	72 (73%)	11 (11%)	16 (16%)	0	0
55	BW	111/113 (98%)	93 (84%)	10 (9%)	8 (7%)	1	6
55	DW	111/113 (98%)	93 (84%)	10 (9%)	8 (7%)	1	6
56	BX	91/96 (95%)	73 (80%)	10 (11%)	8 (9%)	1	4
56	DX	91/96 (95%)	73 (80%)	10 (11%)	8 (9%)	1	4
57	BY	99/110 (90%)	55 (56%)	17 (17%)	27 (27%)	0	0
57	DY	99/110 (90%)	54 (54%)	18 (18%)	27 (27%)	0	0
58	BZ	183/206 (89%)	107 (58%)	45 (25%)	31 (17%)	0	0
58	DZ	183/206 (89%)	127 (69%)	38 (21%)	18 (10%)	0	3
All	All	12522/13582 (92%)	8790 (70%)	2335 (19%)	1397 (11%)	0	2

All (1397) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
2	AB	12	GLU
2	AB	15	VAL
2	AB	19	HIS
2	AB	20	GLU
2	AB	64	ARG
2	AB	97	TRP
2	AB	123	ALA
2	AB	135	GLN
2	AB	194	PRO
2	AB	195	ASP
3	AC	15	THR
3	AC	47	LEU
3	AC	52	LEU
3	AC	79	ARG
3	AC	165	THR
3	AC	167	TRP
3	AC	207	VAL
4	AD	3	ARG
4	AD	4	TYR
4	AD	5	ILE
4	AD	30	LYS
4	AD	44	GLY
4	AD	110	PHE
4	AD	129	ASN
4	AD	156	GLU
4	AD	177	ASP
5	AE	11	ILE
5	AE	21	ALA
5	AE	153	LYS
6	AF	40	VAL
7	AG	115	ARG
8	AH	2	LEU
9	AI	41	VAL
9	AI	44	VAL
9	AI	89	ASN
10	AJ	57	LYS
11	AK	25	TYR
12	AL	18	VAL
12	AL	27	LEU
12	AL	46	LYS
12	AL	89	ARG
12	AL	91	LYS
12	AL	92	ASP

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Mol	Chain	Res	Type
12	AL	115	LYS
13	AM	4	ILE
13	AM	63	THR
13	AM	107	ALA
13	AM	116	THR
13	AM	117	VAL
16	AP	52	ASP
18	AR	20	ALA
18	AR	37	VAL
19	AS	10	PHE
19	AS	28	LYS
20	AT	11	SER
20	AT	74	LYS
21	AU	3	LYS
24	AY	160	PRO
24	AY	217	GLU
24	AY	303	ARG
24	AY	317	ASP
26	B1	52	ARG
26	B1	58	ILE
26	B1	78	LYS
26	B1	95	LEU
27	B2	10	LEU
27	B2	20	GLU
27	B2	47	ASN
27	B2	70	GLN
29	B4	26	SER
30	B5	4	HIS
30	B5	36	CYS
30	B5	49	CYS
30	B5	53	ALA
30	B5	57	VAL
31	B6	17	LYS
31	B6	19	ARG
31	B6	20	ASN
31	B6	23	THR
31	B6	28	ARG
31	B6	31	PRO
31	B6	33	LYS
31	B6	49	HIS
33	B8	33	ASN
33	B8	34	TRP

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Mol	Chain	Res	Type
33	B8	64	TYR
38	BD	24	ILE
38	BD	25	THR
38	BD	27	THR
38	BD	123	ALA
38	BD	169	GLU
38	BD	239	ARG
38	BD	271	ILE
39	BE	18	ASP
39	BE	72	VAL
39	BE	87	GLU
39	BE	90	THR
39	BE	118	LYS
39	BE	203	LYS
40	BF	21	ALA
40	BF	59	TYR
40	BF	68	LYS
40	BF	132	VAL
41	BG	43	LEU
41	BG	47	LYS
41	BG	49	ASP
41	BG	84	LYS
41	BG	126	ASP
41	BG	143	GLU
41	BG	146	TYR
41	BG	159	VAL
42	BH	42	ARG
42	BH	45	VAL
42	BH	80	SER
42	BH	83	TYR
42	BH	92	ILE
42	BH	137	ASP
42	BH	138	LYS
42	BH	156	ALA
42	BH	159	GLU
42	BH	165	ALA
43	BI	5	LEU
43	BI	6	LEU
43	BI	15	VAL
43	BI	73	GLU
43	BI	85	GLU
43	BI	120	ILE

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Mol	Chain	Res	Type
43	BI	122	GLU
43	BI	127	VAL
43	BI	131	LYS
43	BI	133	HIS
43	BI	145	VAL
45	BK	6	ALA
45	BK	19	PRO
45	BK	113	PRO
45	BK	136	VAL
45	BK	139	VAL
46	BN	4	TYR
46	BN	57	ALA
46	BN	59	LYS
47	BO	48	PRO
48	BP	11	GLY
48	BP	17	LYS
48	BP	18	ARG
48	BP	19	VAL
48	BP	25	SER
48	BP	35	HIS
48	BP	40	SER
48	BP	47	ASP
48	BP	49	ARG
48	BP	83	VAL
48	BP	111	ARG
48	BP	144	GLU
48	BP	147	LEU
49	BQ	2	LEU
50	BR	8	ARG
50	BR	45	ARG
51	BS	13	ARG
51	BS	59	LYS
51	BS	97	ARG
51	BS	102	ALA
51	BS	103	GLU
51	BS	104	GLY
51	BS	108	GLY
52	BT	24	PRO
52	BT	28	VAL
52	BT	30	VAL
52	BT	33	LYS
52	BT	39	ARG

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Mol	Chain	Res	Type
52	BT	42	ILE
52	BT	58	ASN
52	BT	80	SER
52	BT	91	ARG
53	BU	32	PHE
53	BU	74	LEU
53	BU	90	VAL
53	BU	91	ASP
53	BU	93	LYS
54	BV	2	PHE
54	BV	19	LYS
54	BV	23	GLU
54	BV	31	ALA
54	BV	46	VAL
54	BV	79	VAL
55	BW	11	ARG
55	BW	92	ARG
55	BW	111	HIS
56	BX	12	VAL
56	BX	48	LYS
56	BX	66	LEU
57	BY	3	VAL
57	BY	17	SER
57	BY	38	ILE
57	BY	39	VAL
57	BY	42	VAL
57	BY	53	PRO
57	BY	60	PHE
57	BY	77	PRO
57	BY	78	ALA
57	BY	96	ILE
58	BZ	42	VAL
58	BZ	51	ALA
58	BZ	52	SER
58	BZ	65	GLN
58	BZ	92	SER
58	BZ	98	MET
58	BZ	120	ILE
58	BZ	136	PHE
58	BZ	150	LEU
58	BZ	163	LEU
58	BZ	185	GLU

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Mol	Chain	Res	Type
2	CB	12	GLU
2	CB	15	VAL
2	CB	19	HIS
2	CB	20	GLU
2	CB	24	TRP
2	CB	64	ARG
2	CB	97	TRP
2	CB	123	ALA
2	CB	135	GLN
2	CB	194	PRO
2	CB	195	ASP
3	CC	15	THR
3	CC	18	TRP
3	CC	47	LEU
3	CC	52	LEU
3	CC	79	ARG
3	CC	165	THR
3	CC	167	TRP
3	CC	207	VAL
4	CD	3	ARG
4	CD	4	TYR
4	CD	5	ILE
4	CD	30	LYS
4	CD	44	GLY
4	CD	110	PHE
4	CD	129	ASN
4	CD	177	ASP
5	CE	11	ILE
5	CE	21	ALA
5	CE	153	LYS
6	CF	40	VAL
7	CG	115	ARG
8	CH	2	LEU
9	CI	41	VAL
9	CI	44	VAL
9	CI	89	ASN
9	CI	109	VAL
10	CJ	57	LYS
10	CJ	59	SER
11	CK	25	TYR
12	CL	18	VAL
12	CL	27	LEU

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Mol	Chain	Res	Type
12	CL	46	LYS
12	CL	89	ARG
12	CL	91	LYS
12	CL	92	ASP
12	CL	115	LYS
13	CM	4	ILE
13	CM	107	ALA
13	CM	116	THR
13	CM	117	VAL
16	CP	52	ASP
18	CR	20	ALA
18	CR	37	VAL
19	CS	10	PHE
19	CS	28	LYS
20	CT	11	SER
20	CT	74	LYS
21	CU	3	LYS
24	CY	110	PRO
24	CY	218	VAL
24	CY	237	PRO
24	CY	263	GLN
24	CY	305	ILE
26	D1	95	LEU
27	D2	17	SER
27	D2	44	LEU
27	D2	48	HIS
27	D2	71	ASN
29	D4	26	SER
30	D5	4	HIS
30	D5	36	CYS
30	D5	49	CYS
30	D5	53	ALA
30	D5	57	VAL
31	D6	17	LYS
31	D6	19	ARG
31	D6	20	ASN
31	D6	23	THR
31	D6	28	ARG
31	D6	31	PRO
31	D6	33	LYS
31	D6	46	HIS
31	D6	48	VAL

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Mol	Chain	Res	Type
31	D6	49	HIS
33	D8	33	ASN
33	D8	34	TRP
38	DD	24	ILE
38	DD	25	THR
38	DD	27	THR
38	DD	123	ALA
38	DD	169	GLU
38	DD	239	ARG
38	DD	271	ILE
39	DE	18	ASP
39	DE	72	VAL
39	DE	87	GLU
39	DE	90	THR
39	DE	118	LYS
39	DE	203	LYS
40	DF	21	ALA
40	DF	59	TYR
40	DF	68	LYS
40	DF	132	VAL
41	DG	3	LEU
41	DG	4	ASP
41	DG	47	LYS
41	DG	52	ILE
41	DG	82	LEU
41	DG	87	PRO
41	DG	96	ARG
41	DG	110	ALA
41	DG	115	ARG
41	DG	125	PHE
41	DG	127	GLY
41	DG	130	ASN
41	DG	149	VAL
41	DG	150	ASP
42	DH	42	ARG
42	DH	45	VAL
42	DH	80	SER
42	DH	81	GLU
42	DH	83	TYR
42	DH	92	ILE
42	DH	137	ASP
42	DH	138	LYS

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Mol	Chain	Res	Type
42	DH	156	ALA
42	DH	159	GLU
42	DH	165	ALA
43	DI	7	GLU
43	DI	8	PRO
43	DI	15	VAL
43	DI	133	HIS
43	DI	145	VAL
45	DK	6	ALA
45	DK	19	PRO
45	DK	113	PRO
45	DK	136	VAL
45	DK	139	VAL
46	DN	4	TYR
46	DN	57	ALA
46	DN	59	LYS
47	DO	48	PRO
48	DP	11	GLY
48	DP	17	LYS
48	DP	18	ARG
48	DP	19	VAL
48	DP	35	HIS
48	DP	40	SER
48	DP	47	ASP
48	DP	49	ARG
48	DP	52	GLU
48	DP	83	VAL
48	DP	144	GLU
48	DP	147	LEU
49	DQ	2	LEU
50	DR	8	ARG
50	DR	45	ARG
51	DS	13	ARG
51	DS	59	LYS
51	DS	97	ARG
51	DS	102	ALA
51	DS	103	GLU
51	DS	104	GLY
51	DS	108	GLY
52	DT	24	PRO
52	DT	28	VAL
52	DT	30	VAL

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Mol	Chain	Res	Type
52	DT	33	LYS
52	DT	39	ARG
52	DT	42	ILE
52	DT	58	ASN
52	DT	80	SER
52	DT	91	ARG
53	DU	32	PHE
53	DU	74	LEU
53	DU	90	VAL
53	DU	91	ASP
53	DU	93	LYS
54	DV	2	PHE
54	DV	19	LYS
54	DV	23	GLU
54	DV	31	ALA
54	DV	46	VAL
54	DV	79	VAL
55	DW	11	ARG
55	DW	92	ARG
55	DW	111	HIS
56	DX	12	VAL
56	DX	48	LYS
56	DX	66	LEU
57	DY	3	VAL
57	DY	17	SER
57	DY	38	ILE
57	DY	39	VAL
57	DY	42	VAL
57	DY	53	PRO
57	DY	60	PHE
57	DY	77	PRO
57	DY	78	ALA
57	DY	96	ILE
58	DZ	80	ARG
58	DZ	93	ASP
58	DZ	120	ILE
58	DZ	137	ILE
58	DZ	146	ILE
58	DZ	158	PRO
58	DZ	165	VAL
58	DZ	166	SER
2	AB	24	TRP

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Mol	Chain	Res	Type
2	AB	26	PRO
2	AB	66	GLY
2	AB	84	GLU
2	AB	154	LEU
2	AB	165	VAL
2	AB	181	PHE
2	AB	204	ASN
2	AB	230	VAL
3	AC	4	LYS
3	AC	18	TRP
3	AC	45	LYS
3	AC	61	ALA
3	AC	73	PRO
3	AC	74	GLY
3	AC	156	ARG
4	AD	18	LYS
4	AD	24	GLU
4	AD	99	SER
4	AD	176	LEU
4	AD	178	VAL
6	AF	29	ALA
6	AF	80	ARG
6	AF	81	ILE
7	AG	7	ALA
7	AG	17	VAL
7	AG	54	THR
8	AH	41	ARG
8	AH	91	ARG
9	AI	95	LYS
9	AI	98	PRO
9	AI	109	VAL
10	AJ	32	ALA
10	AJ	36	GLY
10	AJ	59	SER
11	AK	89	ALA
11	AK	101	SER
12	AL	19	ARG
12	AL	22	SER
12	AL	26	ALA
12	AL	47	LYS
12	AL	66	VAL
12	AL	121	GLY

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Mol	Chain	Res	Type
13	AM	3	ARG
13	AM	12	ASN
13	AM	15	VAL
13	AM	59	TYR
13	AM	68	GLY
13	AM	100	GLY
13	AM	124	PRO
14	AN	15	LYS
14	AN	36	PHE
14	AN	60	SER
16	AP	50	LYS
16	AP	63	GLY
17	AQ	34	LYS
17	AQ	66	SER
17	AQ	68	ARG
17	AQ	74	LEU
17	AQ	99	SER
18	AR	52	PRO
18	AR	61	LYS
19	AS	29	ARG
19	AS	30	LEU
19	AS	64	GLU
20	AT	25	ARG
20	AT	103	GLY
21	AU	25	LYS
24	AY	7	ALA
24	AY	114	LYS
24	AY	158	PRO
24	AY	174	GLU
24	AY	237	PRO
24	AY	305	ILE
24	AY	337	LEU
25	B0	6	GLY
26	B1	27	GLU
26	B1	28	GLY
26	B1	30	VAL
27	B2	14	ARG
27	B2	41	ILE
29	B4	35	VAL
30	B5	46	CYS
30	B5	51	TYR
30	B5	52	TYR

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Mol	Chain	Res	Type
31	B6	16	CYS
31	B6	18	ARG
31	B6	29	ASN
31	B6	34	LEU
31	B6	45	LYS
33	B8	31	HIS
33	B8	43	GLN
33	B8	49	VAL
33	B8	61	LEU
34	B9	31	LYS
37	BC	52	PRO
37	BC	167	ASP
38	BD	58	HIS
38	BD	122	ASP
38	BD	127	VAL
38	BD	238	GLY
38	BD	266	SER
38	BD	267	SER
39	BE	54	GLN
39	BE	57	LYS
39	BE	70	ALA
39	BE	74	PRO
39	BE	77	ILE
39	BE	88	GLY
39	BE	130	GLY
39	BE	186	GLY
40	BF	8	GLN
40	BF	16	GLY
40	BF	27	GLU
40	BF	84	VAL
40	BF	89	VAL
40	BF	133	ASN
40	BF	134	GLY
41	BG	6	ALA
41	BG	27	ASN
41	BG	50	ALA
41	BG	87	PRO
41	BG	117	PHE
41	BG	120	LEU
41	BG	129	GLY
41	BG	148	MET
41	BG	171	ALA

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Mol	Chain	Res	Type
42	BH	14	GLY
42	BH	81	GLU
42	BH	154	PRO
42	BH	155	SER
43	BI	60	GLU
43	BI	97	ILE
43	BI	114	LEU
43	BI	123	LEU
45	BK	5	VAL
45	BK	13	PRO
45	BK	18	THR
45	BK	88	ALA
45	BK	112	MET
45	BK	116	ASN
47	BO	5	GLN
47	BO	14	THR
47	BO	29	ASN
48	BP	9	ASN
48	BP	14	LYS
48	BP	23	PRO
48	BP	31	ALA
48	BP	33	ARG
48	BP	34	GLY
48	BP	51	PHE
48	BP	52	GLU
48	BP	58	THR
48	BP	88	LEU
48	BP	103	ALA
48	BP	107	LYS
48	BP	116	GLY
49	BQ	19	GLY
49	BQ	62	GLY
49	BQ	135	ASP
50	BR	107	ASP
50	BR	117	VAL
51	BS	53	SER
51	BS	92	TYR
51	BS	94	TYR
51	BS	96	GLY
52	BT	38	ASN
52	BT	90	GLN
52	BT	107	ASP

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Mol	Chain	Res	Type
54	BV	44	LYS
55	BW	63	ASP
56	BX	19	ALA
57	BY	27	VAL
57	BY	29	GLU
57	BY	33	LYS
57	BY	37	VAL
57	BY	57	GLN
57	BY	80	GLY
57	BY	90	LEU
57	BY	99	CYS
57	BY	101	LYS
58	BZ	5	LEU
58	BZ	40	ASP
58	BZ	147	GLY
58	BZ	151	HIS
58	BZ	169	GLU
58	BZ	183	LEU
58	BZ	184	ALA
2	CB	26	PRO
2	CB	66	GLY
2	CB	83	MET
2	CB	84	GLU
2	CB	120	ALA
2	CB	154	LEU
2	CB	165	VAL
2	CB	181	PHE
2	CB	204	ASN
2	CB	230	VAL
3	CC	4	LYS
3	CC	45	LYS
3	CC	61	ALA
3	CC	73	PRO
3	CC	74	GLY
3	CC	156	ARG
4	CD	18	LYS
4	CD	24	GLU
4	CD	99	SER
4	CD	156	GLU
4	CD	176	LEU
4	CD	178	VAL
6	CF	29	ALA

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Mol	Chain	Res	Type
6	CF	80	ARG
7	CG	7	ALA
7	CG	17	VAL
7	CG	54	THR
8	CH	41	ARG
8	CH	91	ARG
9	CI	95	LYS
9	CI	98	PRO
10	CJ	36	GLY
11	CK	89	ALA
11	CK	101	SER
12	CL	19	ARG
12	CL	22	SER
12	CL	26	ALA
12	CL	47	LYS
12	CL	66	VAL
12	CL	121	GLY
13	CM	3	ARG
13	CM	12	ASN
13	CM	15	VAL
13	CM	59	TYR
13	CM	63	THR
13	CM	68	GLY
13	CM	100	GLY
13	CM	124	PRO
14	CN	15	LYS
14	CN	36	PHE
14	CN	60	SER
16	CP	50	LYS
16	CP	63	GLY
17	CQ	34	LYS
17	CQ	68	ARG
17	CQ	74	LEU
19	CS	29	ARG
19	CS	30	LEU
19	CS	64	GLU
20	CT	25	ARG
20	CT	103	GLY
21	CU	25	LYS
24	CY	7	ALA
24	CY	80	PRO
24	CY	106	LEU

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Mol	Chain	Res	Type
24	CY	160	PRO
24	CY	164	ILE
25	D0	6	GLY
26	D1	53	VAL
26	D1	58	ILE
26	D1	85	LEU
26	D1	86	SER
27	D2	43	GLN
27	D2	47	ASN
27	D2	51	ARG
27	D2	69	ARG
29	D4	35	VAL
30	D5	46	CYS
30	D5	51	TYR
30	D5	52	TYR
31	D6	16	CYS
31	D6	18	ARG
31	D6	29	ASN
31	D6	34	LEU
31	D6	44	ARG
31	D6	45	LYS
33	D8	43	GLN
33	D8	49	VAL
33	D8	61	LEU
33	D8	64	TYR
34	D9	31	LYS
37	DC	52	PRO
37	DC	167	ASP
38	DD	58	HIS
38	DD	122	ASP
38	DD	127	VAL
38	DD	238	GLY
38	DD	245	PRO
38	DD	266	SER
38	DD	267	SER
39	DE	54	GLN
39	DE	57	LYS
39	DE	74	PRO
39	DE	77	ILE
39	DE	88	GLY
39	DE	130	GLY
39	DE	186	GLY

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Mol	Chain	Res	Type
40	DF	8	GLN
40	DF	16	GLY
40	DF	27	GLU
40	DF	69	HIS
40	DF	84	VAL
40	DF	89	VAL
40	DF	133	ASN
40	DF	134	GLY
41	DG	14	GLU
41	DG	24	GLY
41	DG	45	GLU
41	DG	48	GLU
41	DG	70	VAL
41	DG	81	LYS
41	DG	84	LYS
41	DG	97	ASP
41	DG	128	ARG
41	DG	146	TYR
41	DG	155	MET
42	DH	14	GLY
42	DH	98	LEU
42	DH	154	PRO
42	DH	155	SER
43	DI	16	GLY
43	DI	68	LEU
43	DI	119	PRO
45	DK	5	VAL
45	DK	13	PRO
45	DK	18	THR
45	DK	88	ALA
45	DK	112	MET
45	DK	116	ASN
47	DO	5	GLN
47	DO	29	ASN
48	DP	9	ASN
48	DP	14	LYS
48	DP	23	PRO
48	DP	25	SER
48	DP	31	ALA
48	DP	33	ARG
48	DP	34	GLY
48	DP	51	PHE

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Mol	Chain	Res	Type
48	DP	58	THR
48	DP	88	LEU
48	DP	103	ALA
48	DP	107	LYS
48	DP	111	ARG
48	DP	116	GLY
48	DP	136	GLU
49	DQ	19	GLY
49	DQ	62	GLY
49	DQ	135	ASP
50	DR	107	ASP
50	DR	117	VAL
51	DS	53	SER
51	DS	92	TYR
51	DS	94	TYR
51	DS	96	GLY
52	DT	38	ASN
52	DT	56	GLY
52	DT	90	GLN
52	DT	107	ASP
54	DV	44	LYS
55	DW	63	ASP
56	DX	19	ALA
57	DY	27	VAL
57	DY	29	GLU
57	DY	33	LYS
57	DY	37	VAL
57	DY	57	GLN
57	DY	80	GLY
57	DY	90	LEU
57	DY	99	CYS
57	DY	101	LYS
58	DZ	31	ARG
58	DZ	81	ARG
58	DZ	111	VAL
2	AB	18	GLY
2	AB	52	GLU
2	AB	62	ALA
2	AB	83	MET
2	AB	120	ALA
2	AB	153	ARG
2	AB	232	PRO

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Mol	Chain	Res	Type
3	AC	29	TYR
3	AC	81	GLY
3	AC	91	LEU
3	AC	94	LEU
3	AC	206	GLU
4	AD	157	LEU
5	AE	7	GLU
5	AE	20	GLN
5	AE	27	ARG
7	AG	58	PRO
7	AG	116	ALA
7	AG	149	ARG
8	AH	27	PRO
8	AH	50	ARG
8	AH	133	LEU
9	AI	102	LEU
12	AL	23	LYS
13	AM	106	ASN
16	AP	49	LEU
17	AQ	12	SER
19	AS	26	GLY
20	AT	73	HIS
24	AY	127	THR
24	AY	214	VAL
24	AY	220	VAL
24	AY	281	ALA
27	B2	21	LEU
27	B2	44	LEU
27	B2	48	HIS
29	B4	29	PRO
30	B5	56	LYS
37	BC	53	ARG
37	BC	205	ALA
38	BD	32	SER
38	BD	156	ALA
38	BD	246	PRO
39	BE	68	ALA
39	BE	69	LYS
39	BE	185	LYS
40	BF	5	ALA
40	BF	7	TYR
40	BF	17	ARG

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Mol	Chain	Res	Type
40	BF	24	LEU
40	BF	58	ALA
40	BF	69	HIS
40	BF	128	ALA
40	BF	167	ALA
41	BG	68	PRO
41	BG	110	ALA
41	BG	145	THR
42	BH	98	LEU
43	BI	62	LYS
43	BI	134	PRO
46	BN	47	ALA
46	BN	125	GLY
46	BN	134	ARG
48	BP	39	LYS
48	BP	106	LEU
48	BP	108	LYS
48	BP	115	LEU
48	BP	136	GLU
49	BQ	134	ARG
50	BR	88	ARG
51	BS	57	LYS
52	BT	32	TYR
52	BT	56	GLY
54	BV	18	LEU
54	BV	49	THR
56	BX	13	LEU
56	BX	40	LYS
57	BY	48	ALA
57	BY	56	PRO
58	BZ	101	PRO
58	BZ	111	VAL
58	BZ	134	PRO
58	BZ	166	SER
2	CB	18	GLY
2	CB	52	GLU
2	CB	62	ALA
2	CB	113	HIS
2	CB	153	ARG
2	CB	232	PRO
3	CC	29	TYR
3	CC	46	GLU

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Mol	Chain	Res	Type
3	CC	81	GLY
3	CC	91	LEU
3	CC	94	LEU
3	CC	181	ASN
3	CC	206	GLU
4	CD	157	LEU
5	CE	7	GLU
5	CE	20	GLN
5	CE	27	ARG
6	CF	65	VAL
6	CF	70	ASP
7	CG	58	PRO
7	CG	116	ALA
8	CH	27	PRO
8	CH	50	ARG
8	CH	86	ILE
9	CI	102	LEU
10	CJ	32	ALA
12	CL	23	LYS
13	CM	106	ASN
16	CP	49	LEU
17	CQ	12	SER
17	CQ	66	SER
17	CQ	99	SER
18	CR	52	PRO
18	CR	61	LYS
19	CS	26	GLY
20	CT	28	ALA
20	CT	73	HIS
24	CY	42	PRO
24	CY	200	ARG
24	CY	354	GLY
26	D1	24	ALA
26	D1	57	GLU
27	D2	67	LYS
29	D4	29	PRO
30	D5	56	LYS
33	D8	31	HIS
37	DC	53	ARG
37	DC	198	GLU
37	DC	205	ALA
38	DD	32	SER

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Mol	Chain	Res	Type
38	DD	74	GLY
38	DD	156	ALA
38	DD	246	PRO
39	DE	68	ALA
39	DE	69	LYS
39	DE	70	ALA
39	DE	185	LYS
40	DF	5	ALA
40	DF	7	TYR
40	DF	17	ARG
40	DF	24	LEU
40	DF	58	ALA
40	DF	128	ALA
40	DF	167	ALA
41	DG	126	ASP
42	DH	84	SER
43	DI	115	ALA
43	DI	131	LYS
45	DK	67	PHE
46	DN	47	ALA
46	DN	125	GLY
47	DO	14	THR
48	DP	106	LEU
48	DP	108	LYS
48	DP	115	LEU
49	DQ	134	ARG
51	DS	42	ASP
51	DS	57	LYS
52	DT	31	SER
54	DV	18	LEU
54	DV	49	THR
56	DX	13	LEU
56	DX	40	LYS
57	DY	56	PRO
57	DY	69	ALA
57	DY	82	PRO
58	DZ	34	ASN
58	DZ	78	LYS
58	DZ	108	PRO
58	DZ	180	VAL
2	AB	113	HIS
2	AB	130	ARG

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Mol	Chain	Res	Type
2	AB	227	GLY
3	AC	20	SER
3	AC	46	GLU
3	AC	127	ARG
3	AC	180	ALA
3	AC	181	ASN
3	AC	196	LEU
4	AD	29	PRO
4	AD	34	GLU
4	AD	104	VAL
4	AD	108	LEU
4	AD	162	LEU
5	AE	72	GLN
5	AE	105	VAL
6	AF	65	VAL
6	AF	70	ASP
8	AH	86	ILE
9	AI	10	ARG
9	AI	117	HIS
10	AJ	84	GLN
11	AK	102	GLY
12	AL	51	ALA
13	AM	21	TYR
13	AM	28	ALA
15	AO	23	GLY
16	AP	44	THR
18	AR	38	GLU
18	AR	54	ARG
19	AS	17	GLU
20	AT	28	ALA
20	AT	97	ALA
24	AY	37	SER
24	AY	340	ASP
26	B1	54	ALA
27	B2	19	VAL
31	B6	44	ARG
37	BC	15	VAL
37	BC	198	GLU
38	BD	12	SER
38	BD	36	PRO
38	BD	45	ASN
38	BD	74	GLY

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Mol	Chain	Res	Type
38	BD	242	ARG
38	BD	244	ARG
38	BD	245	PRO
39	BE	4	ILE
39	BE	55	ASN
39	BE	129	HIS
39	BE	187	ALA
40	BF	22	ALA
41	BG	7	LEU
41	BG	42	GLY
41	BG	86	MET
41	BG	176	LEU
42	BH	47	GLU
42	BH	84	SER
42	BH	110	SER
42	BH	158	HIS
43	BI	14	ASP
43	BI	72	LEU
43	BI	103	ARG
43	BI	121	LYS
43	BI	129	THR
45	BK	21	PRO
45	BK	67	PHE
45	BK	114	ASP
48	BP	57	THR
48	BP	63	PRO
48	BP	110	TYR
50	BR	14	SER
51	BS	35	ILE
51	BS	42	ASP
51	BS	100	ALA
52	BT	31	SER
52	BT	41	ARG
54	BV	16	PRO
55	BW	6	ILE
57	BY	82	PRO
58	BZ	45	ASP
58	BZ	80	ARG
58	BZ	148	ASP
58	BZ	164	ALA
2	CB	130	ARG
2	CB	227	GLY

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Mol	Chain	Res	Type
3	CC	20	SER
3	CC	26	LYS
3	CC	127	ARG
3	CC	180	ALA
4	CD	34	GLU
4	CD	104	VAL
4	CD	108	LEU
4	CD	162	LEU
5	CE	72	GLN
5	CE	105	VAL
6	CF	81	ILE
7	CG	149	ARG
8	CH	133	LEU
9	CI	10	ARG
9	CI	117	HIS
10	CJ	84	GLN
13	CM	21	TYR
13	CM	28	ALA
13	CM	67	GLU
14	CN	16	PHE
15	CO	23	GLY
16	CP	44	THR
18	CR	25	THR
18	CR	54	ARG
19	CS	17	GLU
19	CS	65	ASN
20	CT	97	ALA
24	CY	243	ASN
27	D2	14	ARG
33	D8	48	PHE
37	DC	15	VAL
38	DD	12	SER
38	DD	36	PRO
38	DD	242	ARG
38	DD	244	ARG
39	DE	4	ILE
39	DE	55	ASN
39	DE	129	HIS
39	DE	187	ALA
40	DF	22	ALA
41	DG	117	PHE
41	DG	139	LEU

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Mol	Chain	Res	Type
42	DH	47	GLU
42	DH	158	HIS
43	DI	78	THR
43	DI	103	ARG
45	DK	21	PRO
45	DK	114	ASP
46	DN	134	ARG
48	DP	39	LYS
48	DP	57	THR
48	DP	63	PRO
48	DP	87	ASP
48	DP	110	TYR
50	DR	88	ARG
50	DR	106	GLY
51	DS	35	ILE
51	DS	100	ALA
52	DT	32	TYR
52	DT	41	ARG
52	DT	68	TYR
53	DU	33	ARG
54	DV	16	PRO
54	DV	40	LEU
54	DV	53	GLU
55	DW	6	ILE
58	DZ	14	LYS
58	DZ	142	SER
58	DZ	148	ASP
2	AB	8	LYS
2	AB	13	ALA
2	AB	76	GLN
2	AB	131	PRO
3	AC	14	ILE
3	AC	26	LYS
3	AC	54	ARG
3	AC	168	ALA
3	AC	193	TYR
4	AD	7	PRO
5	AE	8	GLU
7	AG	100	ALA
9	AI	121	ARG
12	AL	71	PRO
12	AL	90	VAL

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Mol	Chain	Res	Type
14	AN	16	PHE
16	AP	64	ALA
17	AQ	30	PRO
18	AR	25	THR
19	AS	42	PRO
19	AS	65	ASN
20	AT	71	THR
24	AY	200	ARG
24	AY	231	VAL
26	B1	26	ARG
26	B1	85	LEU
26	B1	94	LEU
31	B6	15	GLU
33	B8	3	LYS
38	BD	3	VAL
38	BD	236	GLY
38	BD	241	PRO
41	BG	3	LEU
41	BG	82	LEU
41	BG	105	LYS
41	BG	133	LEU
42	BH	13	LYS
42	BH	49	VAL
42	BH	169	VAL
43	BI	12	LEU
47	BO	91	LEU
48	BP	55	ARG
48	BP	67	MET
48	BP	87	ASP
50	BR	102	GLU
50	BR	106	GLY
52	BT	68	TYR
52	BT	92	GLY
53	BU	33	ARG
54	BV	35	LEU
54	BV	40	LEU
54	BV	42	GLY
54	BV	53	GLU
55	BW	93	ALA
57	BY	69	ALA
57	BY	81	LYS
58	BZ	15	PRO

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Mol	Chain	Res	Type
58	BZ	131	ARG
58	BZ	165	VAL
2	CB	8	LYS
2	CB	13	ALA
2	CB	76	GLN
2	CB	131	PRO
2	CB	229	VAL
3	CC	14	ILE
3	CC	54	ARG
3	CC	141	VAL
3	CC	168	ALA
3	CC	179	ARG
3	CC	193	TYR
3	CC	196	LEU
4	CD	7	PRO
4	CD	29	PRO
4	CD	47	ARG
5	CE	8	GLU
6	CF	16	GLN
7	CG	100	ALA
9	CI	121	ARG
12	CL	51	ALA
12	CL	71	PRO
12	CL	90	VAL
13	CM	31	LYS
14	CN	23	ARG
16	CP	59	TRP
16	CP	64	ALA
17	CQ	30	PRO
17	CQ	77	VAL
18	CR	38	GLU
19	CS	42	PRO
20	CT	71	THR
24	CY	158	PRO
27	D2	40	SER
30	D5	48	GLU
31	D6	47	THR
33	D8	3	LYS
38	DD	3	VAL
38	DD	45	ASN
38	DD	236	GLY
38	DD	241	PRO

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Mol	Chain	Res	Type
39	DE	45	THR
40	DF	12	LEU
41	DG	17	PRO
41	DG	46	ALA
42	DH	13	LYS
42	DH	49	VAL
42	DH	110	SER
42	DH	169	VAL
43	DI	71	ILE
45	DK	42	ASN
48	DP	55	ARG
48	DP	67	MET
49	DQ	60	ARG
50	DR	102	GLU
51	DS	19	LYS
51	DS	89	ARG
52	DT	92	GLY
54	DV	3	ALA
54	DV	35	LEU
55	DW	65	LEU
55	DW	93	ALA
57	DY	48	ALA
57	DY	81	LYS
2	AB	229	VAL
3	AC	141	VAL
3	AC	179	ARG
6	AF	43	LEU
7	AG	90	GLU
9	AI	77	ILE
13	AM	31	LYS
13	AM	67	GLU
17	AQ	47	PRO
17	AQ	77	VAL
19	AS	18	LYS
27	B2	67	LYS
30	B5	48	GLU
37	BC	174	ALA
39	BE	45	THR
40	BF	12	LEU
40	BF	66	PRO
43	BI	39	ALA
45	BK	20	ALA

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Mol	Chain	Res	Type
45	BK	22	PRO
45	BK	23	VAL
45	BK	42	ASN
45	BK	77	LEU
46	BN	58	ASP
48	BP	146	VAL
49	BQ	27	VAL
51	BS	89	ARG
53	BU	102	GLU
54	BV	3	ALA
55	BW	65	LEU
56	BX	94	GLY
57	BY	98	VAL
5	CE	104	ALA
9	CI	77	ILE
11	CK	102	GLY
14	CN	14	PRO
16	CP	65	GLN
17	CQ	47	PRO
18	CR	60	ALA
19	CS	18	LYS
20	CT	34	LYS
24	CY	71	GLY
24	CY	303	ARG
37	DC	174	ALA
38	DD	11	PRO
43	DI	92	VAL
45	DK	20	ALA
45	DK	22	PRO
45	DK	23	VAL
45	DK	77	LEU
46	DN	58	ASP
47	DO	91	LEU
48	DP	109	GLY
48	DP	146	VAL
50	DR	14	SER
53	DU	102	GLU
54	DV	42	GLY
56	DX	94	GLY
57	DY	98	VAL
4	AD	105	VAL
14	AN	14	PRO

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Mol	Chain	Res	Type
16	AP	65	GLN
19	AS	45	VAL
24	AY	333	PRO
37	BC	176	VAL
38	BD	35	LYS
40	BF	14	PRO
45	BK	12	LEU
51	BS	14	VAL
52	BT	88	ILE
56	BX	32	PRO
57	BY	31	LEU
19	CS	45	VAL
37	DC	176	VAL
38	DD	35	LYS
40	DF	14	PRO
45	DK	12	LEU
51	DS	14	VAL
52	DT	88	ILE
57	DY	31	LEU
3	AC	75	VAL
6	AF	88	VAL
15	AO	87	ILE
38	BD	11	PRO
42	BH	168	PRO
48	BP	109	GLY
58	BZ	146	ILE
3	CC	75	VAL
4	CD	105	VAL
6	CF	88	VAL
15	CO	87	ILE
24	CY	224	PRO
24	CY	339	GLY
42	DH	168	PRO
49	DQ	27	VAL
56	DX	32	PRO
57	DY	7	VAL
2	AB	239	VAL
3	AC	55	VAL
3	AC	96	GLY
5	AE	148	VAL
26	B1	53	VAL
30	B5	50	GLY

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Mol	Chain	Res	Type
40	BF	25	PRO
41	BG	142	PRO
45	BK	38	VAL
45	BK	54	PRO
45	BK	96	VAL
2	CB	239	VAL
3	CC	55	VAL
5	CE	148	VAL
12	CL	101	VAL
17	CQ	33	GLY
24	CY	181	SER
24	CY	242	VAL
26	D1	28	GLY
30	D5	50	GLY
40	DF	25	PRO
42	DH	93	GLY
42	DH	151	ILE
45	DK	38	VAL
45	DK	54	PRO
45	DK	96	VAL
47	DO	27	GLY
24	AY	224	PRO
31	B6	41	PRO
38	BD	10	THR
38	BD	125	ILE
42	BH	93	GLY
45	BK	25	PRO
46	BN	135	PRO
48	BP	122	PRO
57	BY	7	VAL
58	BZ	177	PRO
45	DK	25	PRO
48	DP	122	PRO
3	AC	145	GLY
5	AE	128	PRO
7	AG	130	GLY
12	AL	101	VAL
37	BC	221	PRO
39	BE	33	VAL
42	BH	55	PRO
42	BH	151	ILE
55	BW	112	GLY

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Mol	Chain	Res	Type
7	CG	130	GLY
8	CH	51	VAL
20	CT	33	ILE
24	CY	333	PRO
37	DC	221	PRO
46	DN	11	PRO
53	DU	7	GLY
54	DV	22	VAL
55	DW	112	GLY
48	BP	48	PRO

5.3.2 Protein sidechains [i](#)

In the following table, the Percentiles column shows the percent sidechain outliers of the chain as a percentile score with respect to all X-ray entries followed by that with respect to entries of similar resolution.

The Analysed column shows the number of residues for which the sidechain conformation was analysed, and the total number of residues.

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
2	AB	202/220 (92%)	185 (92%)	17 (8%)	11	38
2	CB	202/220 (92%)	185 (92%)	17 (8%)	11	38
3	AC	160/188 (85%)	146 (91%)	14 (9%)	10	36
3	CC	160/188 (85%)	146 (91%)	14 (9%)	10	36
4	AD	180/181 (99%)	160 (89%)	20 (11%)	6	24
4	CD	180/181 (99%)	159 (88%)	21 (12%)	5	22
5	AE	115/123 (94%)	110 (96%)	5 (4%)	29	62
5	CE	115/123 (94%)	110 (96%)	5 (4%)	29	62
6	AF	90/90 (100%)	87 (97%)	3 (3%)	38	69
6	CF	90/90 (100%)	87 (97%)	3 (3%)	38	69
7	AG	126/127 (99%)	121 (96%)	5 (4%)	31	65
7	CG	126/127 (99%)	121 (96%)	5 (4%)	31	65
8	AH	119/119 (100%)	115 (97%)	4 (3%)	37	69
8	CH	119/119 (100%)	114 (96%)	5 (4%)	30	62
9	AI	98/99 (99%)	89 (91%)	9 (9%)	9	33
9	CI	98/99 (99%)	89 (91%)	9 (9%)	9	33

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
10	AJ	88/92 (96%)	82 (93%)	6 (7%)	16	45
10	CJ	88/92 (96%)	82 (93%)	6 (7%)	16	45
11	AK	90/99 (91%)	86 (96%)	4 (4%)	28	61
11	CK	90/99 (91%)	86 (96%)	4 (4%)	28	61
12	AL	104/109 (95%)	90 (86%)	14 (14%)	4	16
12	CL	104/109 (95%)	90 (86%)	14 (14%)	4	16
13	AM	99/101 (98%)	92 (93%)	7 (7%)	14	44
13	CM	99/101 (98%)	91 (92%)	8 (8%)	11	39
14	AN	49/50 (98%)	45 (92%)	4 (8%)	11	38
14	CN	49/50 (98%)	45 (92%)	4 (8%)	11	38
15	AO	79/80 (99%)	73 (92%)	6 (8%)	13	41
15	CO	79/80 (99%)	73 (92%)	6 (8%)	13	41
16	AP	72/74 (97%)	68 (94%)	4 (6%)	21	52
16	CP	72/74 (97%)	68 (94%)	4 (6%)	21	52
17	AQ	94/97 (97%)	92 (98%)	2 (2%)	53	79
17	CQ	94/97 (97%)	92 (98%)	2 (2%)	53	79
18	AR	61/77 (79%)	59 (97%)	2 (3%)	38	69
18	CR	61/77 (79%)	59 (97%)	2 (3%)	38	69
19	AS	69/80 (86%)	60 (87%)	9 (13%)	4	18
19	CS	69/80 (86%)	59 (86%)	10 (14%)	3	13
20	AT	76/82 (93%)	70 (92%)	6 (8%)	12	40
20	CT	76/82 (93%)	69 (91%)	7 (9%)	9	33
21	AU	19/22 (86%)	17 (90%)	2 (10%)	7	26
21	CU	19/22 (86%)	17 (90%)	2 (10%)	7	26
24	AY	298/298 (100%)	267 (90%)	31 (10%)	7	27
24	CY	298/298 (100%)	265 (89%)	33 (11%)	6	24
25	B0	66/67 (98%)	61 (92%)	5 (8%)	13	41
25	D0	66/67 (98%)	61 (92%)	5 (8%)	13	41
26	B1	78/83 (94%)	69 (88%)	9 (12%)	5	22
26	D1	78/83 (94%)	68 (87%)	10 (13%)	4	18
27	B2	66/67 (98%)	64 (97%)	2 (3%)	41	71

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
27	D2	66/67 (98%)	56 (85%)	10 (15%)	3	12
28	B3	51/52 (98%)	49 (96%)	2 (4%)	32	65
28	D3	51/52 (98%)	49 (96%)	2 (4%)	32	65
29	B4	27/63 (43%)	25 (93%)	2 (7%)	13	42
29	D4	27/63 (43%)	25 (93%)	2 (7%)	13	42
30	B5	51/52 (98%)	43 (84%)	8 (16%)	2	11
30	D5	51/52 (98%)	43 (84%)	8 (16%)	2	11
31	B6	43/52 (83%)	34 (79%)	9 (21%)	1	5
31	D6	43/52 (83%)	33 (77%)	10 (23%)	1	3
32	B7	41/42 (98%)	39 (95%)	2 (5%)	25	57
32	D7	41/42 (98%)	39 (95%)	2 (5%)	25	57
33	B8	53/55 (96%)	43 (81%)	10 (19%)	1	6
33	D8	53/55 (96%)	43 (81%)	10 (19%)	1	6
34	B9	33/34 (97%)	32 (97%)	1 (3%)	41	71
34	D9	33/34 (97%)	32 (97%)	1 (3%)	41	71
37	BC	99/181 (55%)	96 (97%)	3 (3%)	41	71
37	DC	99/181 (55%)	96 (97%)	3 (3%)	41	71
38	BD	213/218 (98%)	183 (86%)	30 (14%)	3	15
38	DD	213/218 (98%)	184 (86%)	29 (14%)	3	16
39	BE	165/166 (99%)	140 (85%)	25 (15%)	3	12
39	DE	165/166 (99%)	141 (86%)	24 (14%)	3	13
40	BF	165/166 (99%)	149 (90%)	16 (10%)	8	30
40	DF	165/166 (99%)	149 (90%)	16 (10%)	8	30
41	BG	155/156 (99%)	138 (89%)	17 (11%)	6	25
41	DG	155/156 (99%)	133 (86%)	22 (14%)	3	14
42	BH	132/148 (89%)	116 (88%)	16 (12%)	5	20
42	DH	132/148 (89%)	116 (88%)	16 (12%)	5	20
43	BI	122/124 (98%)	112 (92%)	10 (8%)	11	38
43	DI	122/124 (98%)	101 (83%)	21 (17%)	2	9
45	BK	106/111 (96%)	91 (86%)	15 (14%)	3	14
45	DK	106/111 (96%)	92 (87%)	14 (13%)	4	17

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
46	BN	117/119 (98%)	107 (92%)	10 (8%)	10	37
46	DN	117/119 (98%)	107 (92%)	10 (8%)	10	37
47	BO	100/100 (100%)	94 (94%)	6 (6%)	19	49
47	DO	100/100 (100%)	94 (94%)	6 (6%)	19	49
48	BP	112/116 (97%)	89 (80%)	23 (20%)	1	5
48	DP	112/116 (97%)	89 (80%)	23 (20%)	1	5
49	BQ	111/111 (100%)	101 (91%)	10 (9%)	9	34
49	DQ	111/111 (100%)	100 (90%)	11 (10%)	8	29
50	BR	100/101 (99%)	84 (84%)	16 (16%)	2	11
50	DR	100/101 (99%)	84 (84%)	16 (16%)	2	11
51	BS	77/88 (88%)	66 (86%)	11 (14%)	3	14
51	DS	77/88 (88%)	66 (86%)	11 (14%)	3	14
52	BT	120/127 (94%)	97 (81%)	23 (19%)	1	6
52	DT	120/127 (94%)	98 (82%)	22 (18%)	1	7
53	BU	92/94 (98%)	84 (91%)	8 (9%)	10	36
53	DU	92/94 (98%)	84 (91%)	8 (9%)	10	36
54	BV	82/82 (100%)	64 (78%)	18 (22%)	1	4
54	DV	82/82 (100%)	64 (78%)	18 (22%)	1	4
55	BW	91/92 (99%)	81 (89%)	10 (11%)	6	25
55	DW	91/92 (99%)	81 (89%)	10 (11%)	6	25
56	BX	74/78 (95%)	63 (85%)	11 (15%)	3	13
56	DX	74/78 (95%)	63 (85%)	11 (15%)	3	13
57	BY	84/91 (92%)	70 (83%)	14 (17%)	2	9
57	DY	84/91 (92%)	70 (83%)	14 (17%)	2	9
58	BZ	162/179 (90%)	152 (94%)	10 (6%)	18	49
58	DZ	162/179 (90%)	140 (86%)	22 (14%)	3	16
All	All	10552/11246 (94%)	9458 (90%)	1094 (10%)	7	27

All (1094) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
2	AB	15	VAL
2	AB	17	PHE

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Mol	Chain	Res	Type
2	AB	24	TRP
2	AB	36	ARG
2	AB	46	LYS
2	AB	69	LEU
2	AB	119	GLU
2	AB	137	ARG
2	AB	140	HIS
2	AB	145	LEU
2	AB	172	ILE
2	AB	178	ARG
2	AB	195	ASP
2	AB	196	LEU
2	AB	204	ASN
2	AB	206	ASP
2	AB	232	PRO
3	AC	3	ASN
3	AC	5	ILE
3	AC	16	ARG
3	AC	29	TYR
3	AC	34	LEU
3	AC	52	LEU
3	AC	82	GLU
3	AC	104	GLN
3	AC	107	GLN
3	AC	108	ASN
3	AC	127	ARG
3	AC	156	ARG
3	AC	193	TYR
3	AC	196	LEU
4	AD	3	ARG
4	AD	9	CYS
4	AD	10	ARG
4	AD	13	ARG
4	AD	15	GLU
4	AD	20	TYR
4	AD	35	ARG
4	AD	38	TYR
4	AD	59	ARG
4	AD	86	LYS
4	AD	97	LEU
4	AD	107	ARG
4	AD	110	PHE

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Mol	Chain	Res	Type
4	AD	129	ASN
4	AD	131	ARG
4	AD	132	ARG
4	AD	135	LEU
4	AD	158	ILE
4	AD	170	VAL
4	AD	200	GLU
5	AE	12	LEU
5	AE	16	THR
5	AE	20	GLN
5	AE	79	GLU
5	AE	101	ILE
6	AF	16	GLN
6	AF	30	LEU
6	AF	69	GLU
7	AG	57	GLU
7	AG	62	PHE
7	AG	72	ARG
7	AG	113	GLU
7	AG	137	LYS
8	AH	1	MET
8	AH	27	PRO
8	AH	65	TYR
8	AH	102	ARG
9	AI	10	ARG
9	AI	48	GLU
9	AI	91	ASP
9	AI	92	TYR
9	AI	95	LYS
9	AI	114	TYR
9	AI	121	ARG
9	AI	125	TYR
9	AI	128	ARG
10	AJ	22	LYS
10	AJ	46	ARG
10	AJ	50	ILE
10	AJ	62	HIS
10	AJ	63	PHE
10	AJ	96	ILE
11	AK	103	LEU
11	AK	117	ASN
11	AK	124	LYS

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Mol	Chain	Res	Type
11	AK	125	PHE
12	AL	20	LYS
12	AL	27	LEU
12	AL	38	THR
12	AL	40	VAL
12	AL	41	ARG
12	AL	47	LYS
12	AL	53	ARG
12	AL	80	HIS
12	AL	83	VAL
12	AL	84	LEU
12	AL	85	ILE
12	AL	89	ARG
12	AL	102	ARG
12	AL	110	VAL
13	AM	47	ASP
13	AM	64	TRP
13	AM	79	LYS
13	AM	92	HIS
13	AM	93	ARG
13	AM	108	ARG
13	AM	115	LYS
14	AN	6	LEU
14	AN	16	PHE
14	AN	33	VAL
14	AN	41	ARG
15	AO	7	GLU
15	AO	22	THR
15	AO	39	LEU
15	AO	41	GLU
15	AO	65	ARG
15	AO	82	ILE
16	AP	1	MET
16	AP	17	TYR
16	AP	55	ARG
16	AP	69	THR
17	AQ	38	ARG
17	AQ	52	LYS
18	AR	31	LEU
18	AR	32	ARG
19	AS	5	LEU
19	AS	6	LYS

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Mol	Chain	Res	Type
19	AS	7	LYS
19	AS	15	LEU
19	AS	27	GLU
19	AS	29	ARG
19	AS	37	ARG
19	AS	44	MET
19	AS	65	ASN
20	AT	26	ASN
20	AT	30	LYS
20	AT	73	HIS
20	AT	75	ASN
20	AT	93	GLU
20	AT	100	ILE
21	AU	9	ARG
21	AU	12	LYS
24	AY	16	TYR
24	AY	21	GLN
24	AY	25	ARG
24	AY	30	GLU
24	AY	41	ASP
24	AY	46	ARG
24	AY	50	GLN
24	AY	66	GLU
24	AY	68	ASP
24	AY	75	LEU
24	AY	84	ARG
24	AY	92	GLU
24	AY	93	GLU
24	AY	102	TYR
24	AY	132	TRP
24	AY	191	ARG
24	AY	195	PHE
24	AY	209	GLU
24	AY	219	GLU
24	AY	233	ARG
24	AY	240	GLN
24	AY	243	ASN
24	AY	246	ASP
24	AY	265	THR
24	AY	274	LEU
24	AY	291	ARG
24	AY	295	LEU

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Mol	Chain	Res	Type
24	AY	317	ASP
24	AY	318	LYS
24	AY	335	ASN
24	AY	344	LEU
25	B0	5	LYS
25	B0	19	LYS
25	B0	36	ILE
25	B0	41	ARG
25	B0	64	ASP
26	B1	27	GLU
26	B1	39	LYS
26	B1	40	ARG
26	B1	45	ASN
26	B1	46	LEU
26	B1	58	ILE
26	B1	61	ARG
26	B1	78	LYS
26	B1	82	LEU
27	B2	50	ILE
27	B2	64	LEU
28	B3	8	LEU
28	B3	40	THR
29	B4	20	ASN
29	B4	32	TYR
30	B5	4	HIS
30	B5	11	THR
30	B5	29	THR
30	B5	36	CYS
30	B5	49	CYS
30	B5	52	TYR
30	B5	56	LYS
30	B5	60	VAL
31	B6	11	LEU
31	B6	18	ARG
31	B6	19	ARG
31	B6	31	PRO
31	B6	33	LYS
31	B6	37	ARG
31	B6	41	PRO
31	B6	42	TRP
31	B6	46	HIS
32	B7	1	MET

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Mol	Chain	Res	Type
32	B7	8	ASN
33	B8	6	THR
33	B8	8	LYS
33	B8	16	ILE
33	B8	30	ARG
33	B8	31	HIS
33	B8	33	ASN
33	B8	34	TRP
33	B8	44	LYS
33	B8	49	VAL
33	B8	61	LEU
34	B9	9	ARG
37	BC	53	ARG
37	BC	54	ARG
37	BC	185	LYS
38	BD	10	THR
38	BD	14	ARG
38	BD	24	ILE
38	BD	35	LYS
38	BD	43	ARG
38	BD	46	GLN
38	BD	49	ILE
38	BD	64	ILE
38	BD	65	ILE
38	BD	72	LYS
38	BD	92	ILE
38	BD	94	LEU
38	BD	95	LEU
38	BD	99	ASP
38	BD	103	ARG
38	BD	106	ILE
38	BD	111	LEU
38	BD	131	LEU
38	BD	166	GLN
38	BD	173	VAL
38	BD	192	THR
38	BD	198	ASN
38	BD	200	ASP
38	BD	211	ARG
38	BD	221	VAL
38	BD	229	VAL
38	BD	242	ARG

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Mol	Chain	Res	Type
38	BD	260	ARG
38	BD	268	ARG
38	BD	271	ILE
39	BE	7	VAL
39	BE	12	THR
39	BE	16	ARG
39	BE	18	ASP
39	BE	24	THR
39	BE	52	LEU
39	BE	55	ASN
39	BE	63	LEU
39	BE	67	PHE
39	BE	79	ARG
39	BE	82	ARG
39	BE	92	THR
39	BE	94	GLU
39	BE	111	ARG
39	BE	113	PHE
39	BE	119	ARG
39	BE	144	ARG
39	BE	152	LYS
39	BE	167	VAL
39	BE	175	VAL
39	BE	179	GLU
39	BE	181	LEU
39	BE	197	ILE
39	BE	202	LYS
39	BE	203	LYS
40	BF	2	LYS
40	BF	28	ILE
40	BF	57	VAL
40	BF	66	PRO
40	BF	74	ARG
40	BF	88	VAL
40	BF	107	LYS
40	BF	125	LEU
40	BF	160	ASN
40	BF	164	ARG
40	BF	165	ARG
40	BF	183	VAL
40	BF	192	LEU
40	BF	196	LEU

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Mol	Chain	Res	Type
40	BF	199	TRP
40	BF	200	GLU
41	BG	31	VAL
41	BG	40	ASN
41	BG	43	LEU
41	BG	48	GLU
41	BG	52	ILE
41	BG	54	GLU
41	BG	66	GLN
41	BG	70	VAL
41	BG	74	LYS
41	BG	80	PHE
41	BG	121	ASN
41	BG	125	PHE
41	BG	126	ASP
41	BG	133	LEU
41	BG	147	ASP
41	BG	150	ASP
41	BG	152	LEU
42	BH	13	LYS
42	BH	42	ARG
42	BH	53	GLU
42	BH	71	LEU
42	BH	83	TYR
42	BH	85	LYS
42	BH	86	GLU
42	BH	88	LEU
42	BH	89	ILE
42	BH	94	TYR
42	BH	105	LEU
42	BH	111	HIS
42	BH	143	GLN
42	BH	153	LYS
42	BH	159	GLU
42	BH	162	ILE
43	BI	25	TYR
43	BI	38	LEU
43	BI	61	ARG
43	BI	92	VAL
43	BI	93	THR
43	BI	123	LEU
43	BI	125	GLU

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Mol	Chain	Res	Type
43	BI	127	VAL
43	BI	128	LEU
43	BI	134	PRO
45	BK	5	VAL
45	BK	10	LEU
45	BK	11	GLN
45	BK	16	LYS
45	BK	35	MET
45	BK	37	PHE
45	BK	41	PHE
45	BK	79	ARG
45	BK	84	LEU
45	BK	90	LYS
45	BK	95	LYS
45	BK	109	LYS
45	BK	110	GLN
45	BK	112	MET
45	BK	121	GLU
46	BN	4	TYR
46	BN	28	THR
46	BN	34	LEU
46	BN	43	THR
46	BN	45	ASN
46	BN	48	MET
46	BN	56	ASN
46	BN	61	ARG
46	BN	109	LYS
46	BN	121	LYS
47	BO	7	TYR
47	BO	17	ARG
47	BO	32	TYR
47	BO	48	PRO
47	BO	49	ARG
47	BO	98	VAL
48	BP	13	ASN
48	BP	16	ARG
48	BP	18	ARG
48	BP	27	HIS
48	BP	29	LYS
48	BP	30	THR
48	BP	32	THR
48	BP	39	LYS

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Mol	Chain	Res	Type
48	BP	41	ARG
48	BP	42	SER
48	BP	47	ASP
48	BP	59	LEU
48	BP	61	ARG
48	BP	62	LEU
48	BP	64	LYS
48	BP	67	MET
48	BP	70	GLN
48	BP	84	ASN
48	BP	91	PHE
48	BP	95	VAL
48	BP	108	LYS
48	BP	114	ILE
48	BP	115	LEU
49	BQ	18	LYS
49	BQ	26	TYR
49	BQ	45	GLN
49	BQ	55	VAL
49	BQ	59	ARG
49	BQ	67	ARG
49	BQ	75	THR
49	BQ	110	THR
49	BQ	134	ARG
49	BQ	139	GLU
50	BR	2	ARG
50	BR	8	ARG
50	BR	18	LEU
50	BR	28	LEU
50	BR	29	LEU
50	BR	34	ILE
50	BR	49	ASP
50	BR	54	LEU
50	BR	65	LEU
50	BR	67	LEU
50	BR	73	VAL
50	BR	74	LYS
50	BR	79	LEU
50	BR	81	ASP
50	BR	99	LYS
50	BR	100	LEU
51	BS	11	LYS

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Mol	Chain	Res	Type
51	BS	12	PHE
51	BS	36	TYR
51	BS	41	ASP
51	BS	56	LEU
51	BS	73	LEU
51	BS	89	ARG
51	BS	92	TYR
51	BS	97	ARG
51	BS	103	GLU
51	BS	106	ARG
52	BT	3	ARG
52	BT	6	LEU
52	BT	13	ARG
52	BT	14	TYR
52	BT	24	PRO
52	BT	32	TYR
52	BT	36	GLU
52	BT	38	ASN
52	BT	41	ARG
52	BT	42	ILE
52	BT	51	ARG
52	BT	58	ASN
52	BT	59	THR
52	BT	65	LYS
52	BT	74	ARG
52	BT	78	LEU
52	BT	82	LEU
52	BT	89	VAL
52	BT	90	GLN
52	BT	93	ARG
52	BT	96	ARG
52	BT	99	LEU
52	BT	123	GLN
53	BU	16	LYS
53	BU	60	LEU
53	BU	66	ASN
53	BU	70	ARG
53	BU	74	LEU
53	BU	88	ILE
53	BU	108	GLU
53	BU	117	GLN
54	BV	1	MET

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Mol	Chain	Res	Type
54	BV	13	ARG
54	BV	16	PRO
54	BV	18	LEU
54	BV	19	LYS
54	BV	21	ARG
54	BV	22	VAL
54	BV	35	LEU
54	BV	37	VAL
54	BV	39	LEU
54	BV	40	LEU
54	BV	49	THR
54	BV	66	ARG
54	BV	79	VAL
54	BV	82	ARG
54	BV	89	GLN
54	BV	95	LEU
54	BV	99	ILE
55	BW	11	ARG
55	BW	15	ARG
55	BW	23	LEU
55	BW	51	LEU
55	BW	52	GLU
55	BW	59	VAL
55	BW	92	ARG
55	BW	95	ILE
55	BW	106	ILE
55	BW	107	LEU
56	BX	15	GLU
56	BX	27	THR
56	BX	49	VAL
56	BX	53	LYS
56	BX	57	LEU
56	BX	68	ARG
56	BX	75	ASP
56	BX	76	ARG
56	BX	80	ILE
56	BX	81	VAL
56	BX	87	GLN
57	BY	2	ARG
57	BY	4	LYS
57	BY	6	HIS
57	BY	7	VAL

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Mol	Chain	Res	Type
57	BY	13	VAL
57	BY	29	GLU
57	BY	32	PRO
57	BY	40	GLU
57	BY	53	PRO
57	BY	60	PHE
57	BY	76	CYS
57	BY	77	PRO
57	BY	90	LEU
57	BY	97	ARG
58	BZ	9	TYR
58	BZ	11	GLU
58	BZ	20	ARG
58	BZ	44	PHE
58	BZ	80	ARG
58	BZ	99	TYR
58	BZ	101	PRO
58	BZ	140	ASP
58	BZ	150	LEU
58	BZ	168	GLU
2	CB	15	VAL
2	CB	17	PHE
2	CB	24	TRP
2	CB	36	ARG
2	CB	46	LYS
2	CB	69	LEU
2	CB	119	GLU
2	CB	137	ARG
2	CB	140	HIS
2	CB	145	LEU
2	CB	172	ILE
2	CB	178	ARG
2	CB	195	ASP
2	CB	196	LEU
2	CB	204	ASN
2	CB	206	ASP
2	CB	232	PRO
3	CC	3	ASN
3	CC	5	ILE
3	CC	16	ARG
3	CC	29	TYR
3	CC	34	LEU

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Mol	Chain	Res	Type
3	CC	52	LEU
3	CC	82	GLU
3	CC	104	GLN
3	CC	107	GLN
3	CC	108	ASN
3	CC	127	ARG
3	CC	156	ARG
3	CC	193	TYR
3	CC	196	LEU
4	CD	3	ARG
4	CD	9	CYS
4	CD	10	ARG
4	CD	13	ARG
4	CD	15	GLU
4	CD	20	TYR
4	CD	35	ARG
4	CD	38	TYR
4	CD	42	GLN
4	CD	59	ARG
4	CD	86	LYS
4	CD	97	LEU
4	CD	107	ARG
4	CD	110	PHE
4	CD	129	ASN
4	CD	131	ARG
4	CD	132	ARG
4	CD	135	LEU
4	CD	158	ILE
4	CD	170	VAL
4	CD	200	GLU
5	CE	12	LEU
5	CE	16	THR
5	CE	20	GLN
5	CE	79	GLU
5	CE	101	ILE
6	CF	16	GLN
6	CF	30	LEU
6	CF	69	GLU
7	CG	57	GLU
7	CG	62	PHE
7	CG	72	ARG
7	CG	113	GLU

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Mol	Chain	Res	Type
7	CG	137	LYS
8	CH	1	MET
8	CH	27	PRO
8	CH	65	TYR
8	CH	102	ARG
8	CH	137	VAL
9	CI	10	ARG
9	CI	48	GLU
9	CI	91	ASP
9	CI	92	TYR
9	CI	95	LYS
9	CI	114	TYR
9	CI	121	ARG
9	CI	125	TYR
9	CI	128	ARG
10	CJ	22	LYS
10	CJ	46	ARG
10	CJ	50	ILE
10	CJ	62	HIS
10	CJ	63	PHE
10	CJ	96	ILE
11	CK	103	LEU
11	CK	117	ASN
11	CK	124	LYS
11	CK	125	PHE
12	CL	20	LYS
12	CL	27	LEU
12	CL	38	THR
12	CL	40	VAL
12	CL	41	ARG
12	CL	47	LYS
12	CL	53	ARG
12	CL	80	HIS
12	CL	83	VAL
12	CL	84	LEU
12	CL	85	ILE
12	CL	89	ARG
12	CL	102	ARG
12	CL	110	VAL
13	CM	47	ASP
13	CM	48	LEU
13	CM	64	TRP

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Mol	Chain	Res	Type
13	CM	79	LYS
13	CM	92	HIS
13	CM	93	ARG
13	CM	108	ARG
13	CM	115	LYS
14	CN	6	LEU
14	CN	16	PHE
14	CN	33	VAL
14	CN	41	ARG
15	CO	7	GLU
15	CO	22	THR
15	CO	39	LEU
15	CO	41	GLU
15	CO	65	ARG
15	CO	82	ILE
16	CP	1	MET
16	CP	17	TYR
16	CP	55	ARG
16	CP	69	THR
17	CQ	38	ARG
17	CQ	52	LYS
18	CR	31	LEU
18	CR	32	ARG
19	CS	5	LEU
19	CS	6	LYS
19	CS	7	LYS
19	CS	15	LEU
19	CS	16	LEU
19	CS	27	GLU
19	CS	29	ARG
19	CS	37	ARG
19	CS	44	MET
19	CS	65	ASN
20	CT	26	ASN
20	CT	30	LYS
20	CT	45	GLN
20	CT	73	HIS
20	CT	75	ASN
20	CT	93	GLU
20	CT	100	ILE
21	CU	9	ARG
21	CU	12	LYS

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Mol	Chain	Res	Type
24	CY	8	GLN
24	CY	16	TYR
24	CY	23	GLU
24	CY	26	LEU
24	CY	29	LEU
24	CY	46	ARG
24	CY	50	GLN
24	CY	60	ASP
24	CY	66	GLU
24	CY	68	ASP
24	CY	84	ARG
24	CY	92	GLU
24	CY	93	GLU
24	CY	104	GLN
24	CY	115	ASN
24	CY	132	TRP
24	CY	147	GLN
24	CY	191	ARG
24	CY	240	GLN
24	CY	261	THR
24	CY	265	THR
24	CY	266	ARG
24	CY	291	ARG
24	CY	314	TYR
24	CY	315	VAL
24	CY	316	LEU
24	CY	323	ASP
24	CY	328	LEU
24	CY	335	ASN
24	CY	340	ASP
24	CY	344	LEU
24	CY	346	TRP
24	CY	355	ARG
25	D0	5	LYS
25	D0	19	LYS
25	D0	36	ILE
25	D0	41	ARG
25	D0	64	ASP
26	D1	14	VAL
26	D1	30	VAL
26	D1	35	THR
26	D1	40	ARG

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Mol	Chain	Res	Type
26	D1	45	ASN
26	D1	48	LYS
26	D1	57	GLU
26	D1	72	GLU
26	D1	80	LEU
26	D1	95	LEU
27	D2	3	LEU
27	D2	28	LYS
27	D2	32	LEU
27	D2	41	ILE
27	D2	46	GLN
27	D2	51	ARG
27	D2	53	LEU
27	D2	61	LEU
27	D2	64	LEU
27	D2	70	GLN
28	D3	8	LEU
28	D3	40	THR
29	D4	20	ASN
29	D4	32	TYR
30	D5	4	HIS
30	D5	11	THR
30	D5	29	THR
30	D5	36	CYS
30	D5	49	CYS
30	D5	52	TYR
30	D5	56	LYS
30	D5	60	VAL
31	D6	11	LEU
31	D6	18	ARG
31	D6	19	ARG
31	D6	31	PRO
31	D6	33	LYS
31	D6	37	ARG
31	D6	41	PRO
31	D6	42	TRP
31	D6	45	LYS
31	D6	47	THR
32	D7	1	MET
32	D7	8	ASN
33	D8	6	THR
33	D8	8	LYS

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Mol	Chain	Res	Type
33	D8	16	ILE
33	D8	30	ARG
33	D8	31	HIS
33	D8	33	ASN
33	D8	34	TRP
33	D8	44	LYS
33	D8	49	VAL
33	D8	61	LEU
34	D9	9	ARG
37	DC	53	ARG
37	DC	54	ARG
37	DC	185	LYS
38	DD	10	THR
38	DD	14	ARG
38	DD	24	ILE
38	DD	35	LYS
38	DD	43	ARG
38	DD	46	GLN
38	DD	49	ILE
38	DD	64	ILE
38	DD	65	ILE
38	DD	92	ILE
38	DD	94	LEU
38	DD	95	LEU
38	DD	99	ASP
38	DD	103	ARG
38	DD	106	ILE
38	DD	111	LEU
38	DD	131	LEU
38	DD	166	GLN
38	DD	173	VAL
38	DD	192	THR
38	DD	198	ASN
38	DD	200	ASP
38	DD	211	ARG
38	DD	221	VAL
38	DD	229	VAL
38	DD	242	ARG
38	DD	260	ARG
38	DD	268	ARG
38	DD	271	ILE
39	DE	7	VAL

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Mol	Chain	Res	Type
39	DE	12	THR
39	DE	16	ARG
39	DE	18	ASP
39	DE	24	THR
39	DE	52	LEU
39	DE	55	ASN
39	DE	63	LEU
39	DE	67	PHE
39	DE	79	ARG
39	DE	82	ARG
39	DE	92	THR
39	DE	94	GLU
39	DE	111	ARG
39	DE	113	PHE
39	DE	119	ARG
39	DE	144	ARG
39	DE	167	VAL
39	DE	175	VAL
39	DE	179	GLU
39	DE	181	LEU
39	DE	197	ILE
39	DE	202	LYS
39	DE	203	LYS
40	DF	2	LYS
40	DF	28	ILE
40	DF	57	VAL
40	DF	66	PRO
40	DF	74	ARG
40	DF	88	VAL
40	DF	107	LYS
40	DF	125	LEU
40	DF	160	ASN
40	DF	164	ARG
40	DF	165	ARG
40	DF	183	VAL
40	DF	192	LEU
40	DF	196	LEU
40	DF	199	TRP
40	DF	200	GLU
41	DG	26	GLN
41	DG	28	VAL
41	DG	33	ARG

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Mol	Chain	Res	Type
41	DG	39	ILE
41	DG	51	ARG
41	DG	58	GLN
41	DG	63	ILE
41	DG	67	LYS
41	DG	70	VAL
41	DG	82	LEU
41	DG	84	LYS
41	DG	88	ILE
41	DG	113	ARG
41	DG	121	ASN
41	DG	128	ARG
41	DG	130	ASN
41	DG	133	LEU
41	DG	138	GLN
41	DG	139	LEU
41	DG	147	ASP
41	DG	152	LEU
41	DG	166	ASP
42	DH	13	LYS
42	DH	42	ARG
42	DH	53	GLU
42	DH	71	LEU
42	DH	83	TYR
42	DH	85	LYS
42	DH	86	GLU
42	DH	88	LEU
42	DH	89	ILE
42	DH	94	TYR
42	DH	105	LEU
42	DH	111	HIS
42	DH	143	GLN
42	DH	153	LYS
42	DH	159	GLU
42	DH	162	ILE
43	DI	6	LEU
43	DI	8	PRO
43	DI	9	LEU
43	DI	12	LEU
43	DI	14	ASP
43	DI	21	VAL
43	DI	31	LEU

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Mol	Chain	Res	Type
43	DI	40	THR
43	DI	47	LEU
43	DI	52	ARG
43	DI	58	LEU
43	DI	61	ARG
43	DI	82	ARG
43	DI	89	TYR
43	DI	95	LYS
43	DI	101	LEU
43	DI	108	THR
43	DI	112	LYS
43	DI	117	GLU
43	DI	128	LEU
43	DI	138	ILE
45	DK	5	VAL
45	DK	10	LEU
45	DK	16	LYS
45	DK	35	MET
45	DK	37	PHE
45	DK	41	PHE
45	DK	79	ARG
45	DK	84	LEU
45	DK	90	LYS
45	DK	95	LYS
45	DK	109	LYS
45	DK	110	GLN
45	DK	112	MET
45	DK	121	GLU
46	DN	4	TYR
46	DN	28	THR
46	DN	34	LEU
46	DN	43	THR
46	DN	45	ASN
46	DN	48	MET
46	DN	56	ASN
46	DN	61	ARG
46	DN	109	LYS
46	DN	121	LYS
47	DO	7	TYR
47	DO	17	ARG
47	DO	32	TYR
47	DO	48	PRO

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Mol	Chain	Res	Type
47	DO	49	ARG
47	DO	98	VAL
48	DP	13	ASN
48	DP	16	ARG
48	DP	18	ARG
48	DP	27	HIS
48	DP	29	LYS
48	DP	30	THR
48	DP	32	THR
48	DP	39	LYS
48	DP	41	ARG
48	DP	42	SER
48	DP	47	ASP
48	DP	59	LEU
48	DP	61	ARG
48	DP	62	LEU
48	DP	64	LYS
48	DP	67	MET
48	DP	70	GLN
48	DP	84	ASN
48	DP	91	PHE
48	DP	95	VAL
48	DP	108	LYS
48	DP	114	ILE
48	DP	115	LEU
49	DQ	18	LYS
49	DQ	26	TYR
49	DQ	45	GLN
49	DQ	55	VAL
49	DQ	58	PHE
49	DQ	59	ARG
49	DQ	67	ARG
49	DQ	75	THR
49	DQ	110	THR
49	DQ	134	ARG
49	DQ	139	GLU
50	DR	2	ARG
50	DR	8	ARG
50	DR	18	LEU
50	DR	28	LEU
50	DR	29	LEU
50	DR	34	ILE

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Mol	Chain	Res	Type
50	DR	49	ASP
50	DR	54	LEU
50	DR	65	LEU
50	DR	67	LEU
50	DR	73	VAL
50	DR	74	LYS
50	DR	79	LEU
50	DR	81	ASP
50	DR	99	LYS
50	DR	100	LEU
51	DS	11	LYS
51	DS	12	PHE
51	DS	36	TYR
51	DS	41	ASP
51	DS	56	LEU
51	DS	73	LEU
51	DS	89	ARG
51	DS	92	TYR
51	DS	97	ARG
51	DS	103	GLU
51	DS	106	ARG
52	DT	3	ARG
52	DT	6	LEU
52	DT	13	ARG
52	DT	14	TYR
52	DT	24	PRO
52	DT	32	TYR
52	DT	36	GLU
52	DT	38	ASN
52	DT	41	ARG
52	DT	42	ILE
52	DT	51	ARG
52	DT	58	ASN
52	DT	59	THR
52	DT	65	LYS
52	DT	74	ARG
52	DT	78	LEU
52	DT	82	LEU
52	DT	89	VAL
52	DT	90	GLN
52	DT	93	ARG
52	DT	99	LEU

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Mol	Chain	Res	Type
52	DT	123	GLN
53	DU	16	LYS
53	DU	60	LEU
53	DU	66	ASN
53	DU	70	ARG
53	DU	74	LEU
53	DU	88	ILE
53	DU	108	GLU
53	DU	117	GLN
54	DV	1	MET
54	DV	13	ARG
54	DV	16	PRO
54	DV	18	LEU
54	DV	19	LYS
54	DV	21	ARG
54	DV	22	VAL
54	DV	33	VAL
54	DV	35	LEU
54	DV	37	VAL
54	DV	39	LEU
54	DV	49	THR
54	DV	66	ARG
54	DV	79	VAL
54	DV	82	ARG
54	DV	89	GLN
54	DV	95	LEU
54	DV	99	ILE
55	DW	11	ARG
55	DW	15	ARG
55	DW	23	LEU
55	DW	51	LEU
55	DW	52	GLU
55	DW	59	VAL
55	DW	92	ARG
55	DW	95	ILE
55	DW	106	ILE
55	DW	107	LEU
56	DX	15	GLU
56	DX	27	THR
56	DX	49	VAL
56	DX	53	LYS
56	DX	57	LEU

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Mol	Chain	Res	Type
56	DX	68	ARG
56	DX	75	ASP
56	DX	76	ARG
56	DX	80	ILE
56	DX	81	VAL
56	DX	87	GLN
57	DY	2	ARG
57	DY	4	LYS
57	DY	6	HIS
57	DY	7	VAL
57	DY	13	VAL
57	DY	29	GLU
57	DY	32	PRO
57	DY	40	GLU
57	DY	53	PRO
57	DY	60	PHE
57	DY	76	CYS
57	DY	77	PRO
57	DY	90	LEU
57	DY	97	ARG
58	DZ	3	TYR
58	DZ	6	LYS
58	DZ	11	GLU
58	DZ	20	ARG
58	DZ	37	VAL
58	DZ	41	LEU
58	DZ	44	PHE
58	DZ	49	ARG
58	DZ	71	VAL
58	DZ	81	ARG
58	DZ	87	ASP
58	DZ	89	PHE
58	DZ	97	GLU
58	DZ	119	GLU
58	DZ	121	HIS
58	DZ	132	ASN
58	DZ	140	ASP
58	DZ	145	GLU
58	DZ	150	LEU
58	DZ	154	ASP
58	DZ	155	LEU
58	DZ	166	SER

Some sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (365) such sidechains are listed below:

Mol	Chain	Res	Type
2	AB	37	ASN
2	AB	40	HIS
2	AB	45	GLN
2	AB	78	GLN
2	AB	95	GLN
2	AB	110	GLN
2	AB	135	GLN
2	AB	146	GLN
2	AB	204	ASN
2	AB	212	GLN
3	AC	37	GLN
3	AC	69	HIS
3	AC	107	GLN
3	AC	170	GLN
4	AD	42	GLN
4	AD	62	GLN
4	AD	77	ASN
4	AD	123	HIS
4	AD	129	ASN
4	AD	161	ASN
4	AD	199	ASN
5	AE	20	GLN
5	AE	72	GLN
5	AE	73	ASN
5	AE	141	GLN
6	AF	16	GLN
6	AF	18	GLN
6	AF	27	GLN
6	AF	32	ASN
6	AF	94	GLN
6	AF	100	ASN
7	AG	13	GLN
7	AG	28	ASN
7	AG	37	ASN
7	AG	68	ASN
7	AG	84	ASN
7	AG	97	GLN
7	AG	106	GLN
7	AG	109	ASN
7	AG	148	ASN
8	AH	15	ASN

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Mol	Chain	Res	Type
9	AI	31	GLN
9	AI	124	GLN
10	AJ	56	HIS
10	AJ	84	GLN
11	AK	62	GLN
11	AK	78	GLN
12	AL	8	ASN
12	AL	9	GLN
12	AL	49	ASN
12	AL	75	HIS
13	AM	40	ASN
13	AM	77	ASN
13	AM	101	GLN
14	AN	52	GLN
15	AO	9	GLN
15	AO	37	ASN
15	AO	46	HIS
16	AP	14	ASN
16	AP	16	HIS
16	AP	76	GLN
17	AQ	16	GLN
17	AQ	93	GLN
18	AR	36	ASN
19	AS	23	ASN
20	AT	16	HIS
20	AT	26	ASN
20	AT	42	GLN
20	AT	75	ASN
24	AY	8	GLN
24	AY	50	GLN
24	AY	115	ASN
24	AY	168	GLN
24	AY	202	HIS
24	AY	240	GLN
24	AY	253	HIS
24	AY	263	GLN
24	AY	310	GLN
24	AY	319	ASN
24	AY	335	ASN
25	B0	12	ASN
25	B0	70	GLN
26	B1	45	ASN

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Mol	Chain	Res	Type
26	B1	47	GLN
27	B2	46	GLN
27	B2	47	ASN
27	B2	71	ASN
28	B3	19	GLN
28	B3	33	GLN
28	B3	46	ASN
28	B3	52	HIS
29	B4	20	ASN
30	B5	43	HIS
32	B7	8	ASN
32	B7	36	GLN
33	B8	31	HIS
33	B8	33	ASN
34	B9	34	GLN
37	BC	189	ASN
37	BC	226	ASN
38	BD	58	HIS
38	BD	96	HIS
38	BD	166	GLN
38	BD	186	HIS
38	BD	198	ASN
38	BD	201	HIS
38	BD	253	GLN
39	BE	48	GLN
39	BE	54	GLN
39	BE	55	ASN
39	BE	132	HIS
39	BE	192	ASN
40	BF	29	ASN
40	BF	69	HIS
40	BF	75	HIS
40	BF	133	ASN
40	BF	160	ASN
40	BF	169	ASN
40	BF	204	ASN
41	BG	40	ASN
41	BG	58	GLN
42	BH	65	HIS
42	BH	74	ASN
42	BH	147	ASN
42	BH	158	HIS

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Mol	Chain	Res	Type
43	BI	104	GLN
43	BI	105	HIS
43	BI	133	HIS
43	BI	139	GLN
45	BK	11	GLN
45	BK	33	ASN
45	BK	89	HIS
45	BK	110	GLN
45	BK	116	ASN
46	BN	45	ASN
46	BN	56	ASN
46	BN	69	GLN
46	BN	128	HIS
46	BN	130	HIS
46	BN	131	GLN
47	BO	82	ASN
48	BP	13	ASN
48	BP	35	HIS
48	BP	68	GLN
48	BP	84	ASN
48	BP	128	HIS
49	BQ	12	GLN
49	BQ	45	GLN
49	BQ	89	ASN
50	BR	16	HIS
50	BR	23	ASN
50	BR	24	GLN
50	BR	61	HIS
50	BR	71	GLN
51	BS	34	HIS
51	BS	84	GLN
52	BT	38	ASN
52	BT	84	GLN
52	BT	90	GLN
53	BU	49	HIS
53	BU	66	ASN
53	BU	71	GLN
53	BU	94	ASN
53	BU	117	GLN
54	BV	11	GLN
55	BW	34	ASN
55	BW	57	ASN

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Mol	Chain	Res	Type
55	BW	60	ASN
55	BW	61	ASN
55	BW	62	HIS
55	BW	102	HIS
56	BX	31	HIS
56	BX	41	ASN
56	BX	55	ASN
58	BZ	32	HIS
58	BZ	73	GLN
58	BZ	118	GLN
2	CB	37	ASN
2	CB	40	HIS
2	CB	45	GLN
2	CB	78	GLN
2	CB	95	GLN
2	CB	110	GLN
2	CB	135	GLN
2	CB	146	GLN
2	CB	204	ASN
2	CB	212	GLN
3	CC	37	GLN
3	CC	69	HIS
3	CC	107	GLN
3	CC	170	GLN
4	CD	42	GLN
4	CD	62	GLN
4	CD	77	ASN
4	CD	123	HIS
4	CD	129	ASN
4	CD	161	ASN
4	CD	199	ASN
5	CE	20	GLN
5	CE	72	GLN
5	CE	73	ASN
5	CE	141	GLN
6	CF	16	GLN
6	CF	18	GLN
6	CF	27	GLN
6	CF	32	ASN
6	CF	94	GLN
6	CF	100	ASN
7	CG	13	GLN

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Mol	Chain	Res	Type
7	CG	28	ASN
7	CG	37	ASN
7	CG	64	GLN
7	CG	84	ASN
7	CG	86	GLN
7	CG	97	GLN
7	CG	106	GLN
7	CG	109	ASN
7	CG	148	ASN
9	CI	31	GLN
9	CI	124	GLN
10	CJ	13	HIS
10	CJ	56	HIS
10	CJ	69	ASN
10	CJ	84	GLN
11	CK	62	GLN
11	CK	78	GLN
12	CL	8	ASN
12	CL	9	GLN
12	CL	49	ASN
12	CL	75	HIS
13	CM	40	ASN
13	CM	77	ASN
13	CM	101	GLN
14	CN	52	GLN
15	CO	9	GLN
15	CO	37	ASN
16	CP	14	ASN
16	CP	16	HIS
16	CP	76	GLN
17	CQ	16	GLN
17	CQ	93	GLN
18	CR	36	ASN
19	CS	23	ASN
20	CT	16	HIS
20	CT	26	ASN
20	CT	42	GLN
20	CT	75	ASN
24	CY	50	GLN
24	CY	147	GLN
24	CY	150	GLN
24	CY	168	GLN

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Mol	Chain	Res	Type
24	CY	240	GLN
24	CY	243	ASN
24	CY	324	HIS
24	CY	335	ASN
25	D0	12	ASN
25	D0	70	GLN
26	D1	45	ASN
26	D1	56	GLN
27	D2	9	GLN
27	D2	38	GLN
27	D2	43	GLN
27	D2	47	ASN
27	D2	56	GLN
27	D2	65	ASN
27	D2	70	GLN
27	D2	71	ASN
28	D3	19	GLN
28	D3	33	GLN
28	D3	46	ASN
28	D3	52	HIS
29	D4	20	ASN
30	D5	4	HIS
30	D5	43	HIS
32	D7	8	ASN
32	D7	36	GLN
33	D8	31	HIS
33	D8	33	ASN
34	D9	34	GLN
37	DC	189	ASN
37	DC	226	ASN
38	DD	58	HIS
38	DD	96	HIS
38	DD	166	GLN
38	DD	186	HIS
38	DD	198	ASN
38	DD	201	HIS
38	DD	253	GLN
39	DE	48	GLN
39	DE	54	GLN
39	DE	55	ASN
39	DE	132	HIS
39	DE	192	ASN

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Mol	Chain	Res	Type
40	DF	29	ASN
40	DF	69	HIS
40	DF	75	HIS
40	DF	133	ASN
40	DF	160	ASN
40	DF	169	ASN
40	DF	204	ASN
41	DG	26	GLN
41	DG	58	GLN
41	DG	66	GLN
41	DG	79	ASN
41	DG	121	ASN
42	DH	65	HIS
42	DH	74	ASN
42	DH	147	ASN
42	DH	158	HIS
43	DI	17	GLN
43	DI	43	ASN
43	DI	133	HIS
43	DI	139	GLN
45	DK	11	GLN
45	DK	29	GLN
45	DK	33	ASN
45	DK	89	HIS
45	DK	110	GLN
45	DK	116	ASN
46	DN	45	ASN
46	DN	56	ASN
46	DN	69	GLN
46	DN	128	HIS
46	DN	130	HIS
46	DN	131	GLN
47	DO	82	ASN
48	DP	13	ASN
48	DP	35	HIS
48	DP	68	GLN
48	DP	84	ASN
48	DP	128	HIS
49	DQ	12	GLN
49	DQ	45	GLN
49	DQ	89	ASN
49	DQ	123	HIS

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Mol	Chain	Res	Type
49	DQ	141	GLN
50	DR	16	HIS
50	DR	23	ASN
50	DR	24	GLN
50	DR	61	HIS
50	DR	71	GLN
51	DS	34	HIS
51	DS	84	GLN
51	DS	95	HIS
52	DT	38	ASN
52	DT	84	GLN
52	DT	90	GLN
53	DU	49	HIS
53	DU	66	ASN
53	DU	71	GLN
53	DU	94	ASN
53	DU	117	GLN
54	DV	11	GLN
55	DW	34	ASN
55	DW	57	ASN
55	DW	60	ASN
55	DW	61	ASN
55	DW	62	HIS
55	DW	102	HIS
56	DX	31	HIS
56	DX	41	ASN
56	DX	55	ASN
56	DX	58	HIS
58	DZ	73	GLN
58	DZ	118	GLN

5.3.3 RNA ⓘ

Mol	Chain	Analysed	Backbone Outliers	Pucker Outliers
1	AA	1503/1522 (98%)	203 (13%)	32 (2%)
1	CA	1503/1522 (98%)	207 (13%)	31 (2%)
22	AV	74/77 (96%)	18 (24%)	0
22	AW	74/77 (96%)	17 (22%)	0
22	CV	74/77 (96%)	19 (25%)	0
22	CW	74/77 (96%)	17 (22%)	1 (1%)
23	AX	7/8 (87%)	3 (42%)	0

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Mol	Chain	Analysed	Backbone Outliers	Pucker Outliers
23	CX	7/8 (87%)	2 (28%)	1 (14%)
35	BA	2900/2915 (99%)	503 (17%)	54 (1%)
35	DA	2900/2915 (99%)	509 (17%)	56 (1%)
36	BB	118/122 (96%)	13 (11%)	1 (0%)
36	DB	118/122 (96%)	13 (11%)	1 (0%)
All	All	9352/9442 (99%)	1524 (16%)	177 (1%)

All (1524) RNA backbone outliers are listed below:

Mol	Chain	Res	Type
1	AA	9	G
1	AA	31	G
1	AA	32	A
1	AA	39	G
1	AA	47	C
1	AA	48	C
1	AA	51	A
1	AA	61	G
1	AA	79	G
1	AA	80	G
1	AA	81	U
1	AA	89	C
1	AA	90	U
1	AA	92	C
1	AA	97	G
1	AA	98	G
1	AA	101	A
1	AA	116	A
1	AA	120	A
1	AA	121	C
1	AA	131	C
1	AA	137	C
1	AA	144	G
1	AA	150	C
1	AA	189(H)	G
1	AA	195	A
1	AA	197	A
1	AA	203	U
1	AA	204	U
1	AA	244	U
1	AA	247	G
1	AA	251	G

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Mol	Chain	Res	Type
1	AA	266	G
1	AA	267	C
1	AA	289	G
1	AA	321	A
1	AA	328	C
1	AA	329	A
1	AA	332	G
1	AA	345	C
1	AA	352	C
1	AA	353	A
1	AA	354	G
1	AA	367	U
1	AA	372	C
1	AA	373	A
1	AA	397	A
1	AA	398	C
1	AA	412	A
1	AA	413	G
1	AA	414	A
1	AA	422	C
1	AA	428	G
1	AA	429	U
1	AA	430	A
1	AA	435	C
1	AA	436	C
1	AA	437	U
1	AA	439	A
1	AA	452	A
1	AA	461	A
1	AA	484	G
1	AA	485	G
1	AA	496	A
1	AA	498	U
1	AA	509	A
1	AA	510	A
1	AA	511	C
1	AA	512	U
1	AA	518	C
1	AA	527	G
1	AA	532	A
1	AA	533	A
1	AA	534	U

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Mol	Chain	Res	Type
1	AA	547	A
1	AA	559	A
1	AA	561	U
1	AA	572	A
1	AA	573	A
1	AA	575	G
1	AA	576	G
1	AA	577	G
1	AA	630	G
1	AA	631	G
1	AA	632	A
1	AA	653	A
1	AA	687	A
1	AA	688	G
1	AA	724	G
1	AA	731	G
1	AA	749	C
1	AA	755	G
1	AA	777	A
1	AA	794	A
1	AA	816	A
1	AA	817	C
1	AA	818	G
1	AA	819	A
1	AA	828	A
1	AA	833	U
1	AA	839	U
1	AA	840	C
1	AA	841	U
1	AA	848	C
1	AA	859	A
1	AA	902	G
1	AA	914	A
1	AA	926	G
1	AA	927	G
1	AA	934	C
1	AA	935	A
1	AA	960	U
1	AA	961	U
1	AA	966	G
1	AA	968	A
1	AA	969	A

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Mol	Chain	Res	Type
1	AA	971	G
1	AA	974	A
1	AA	975	A
1	AA	976	G
1	AA	977	A
1	AA	978	A
1	AA	980	C
1	AA	991	U
1	AA	992	U
1	AA	993	G
1	AA	1001(A)	G
1	AA	1009	G
1	AA	1027	C
1	AA	1030	C
1	AA	1050	G
1	AA	1054	C
1	AA	1055	A
1	AA	1065	U
1	AA	1066	C
1	AA	1068	G
1	AA	1094	G
1	AA	1095	U
1	AA	1101	A
1	AA	1108	G
1	AA	1117	G
1	AA	1124	G
1	AA	1126	U
1	AA	1129	C
1	AA	1130	A
1	AA	1131	G
1	AA	1136	U
1	AA	1137	C
1	AA	1138	G
1	AA	1139	G
1	AA	1146	A
1	AA	1152	A
1	AA	1159	U
1	AA	1182	G
1	AA	1196	U
1	AA	1197	G
1	AA	1202	G
1	AA	1212	U

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Mol	Chain	Res	Type
1	AA	1213	A
1	AA	1214	C
1	AA	1225	A
1	AA	1238	A
1	AA	1249	C
1	AA	1255	G
1	AA	1256	A
1	AA	1257	U
1	AA	1280	A
1	AA	1281	U
1	AA	1282	C
1	AA	1286	A
1	AA	1287	A
1	AA	1294	G
1	AA	1299	A
1	AA	1300	G
1	AA	1301	U
1	AA	1302	U
1	AA	1305	G
1	AA	1317	C
1	AA	1322	C
1	AA	1323	G
1	AA	1331	G
1	AA	1347	G
1	AA	1363	C
1	AA	1364	U
1	AA	1416	G
1	AA	1419	G
1	AA	1442	G
1	AA	1442(A)	G
1	AA	1442(B)	A
1	AA	1443	G
1	AA	1447	A
1	AA	1452	C
1	AA	1492	A
1	AA	1493	A
1	AA	1497	G
1	AA	1499	A
1	AA	1504	G
1	AA	1505	G
1	AA	1506	U
1	AA	1507	A

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Mol	Chain	Res	Type
1	AA	1517	G
1	AA	1529	G
1	AA	1530	G
22	AV	2	C
22	AV	6	G
22	AV	8	U
22	AV	17	C
22	AV	18	G
22	AV	19	G
22	AV	20	U
22	AV	21	A
22	AV	22	G
22	AV	32	U
22	AV	41	C
22	AV	42	C
22	AV	46	G
22	AV	47	U
22	AV	48	C
22	AV	72	C
22	AV	73	A
22	AV	75	C
22	AW	8	U
22	AW	16	U
22	AW	17	C
22	AW	18	G
22	AW	19	G
22	AW	20	U
22	AW	21	A
22	AW	22	G
22	AW	39	U
22	AW	40	C
22	AW	43	C
22	AW	47	U
22	AW	51	U
22	AW	52	G
22	AW	57	G
22	AW	71	G
22	AW	73	A
23	AX	15	A
23	AX	19	U
23	AX	21	A
35	BA	10	G

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Mol	Chain	Res	Type
35	BA	34	C
35	BA	35	G
35	BA	45	C
35	BA	49	A
35	BA	50	U
35	BA	55	G
35	BA	71	A
35	BA	72	U
35	BA	74	A
35	BA	75	G
35	BA	88	G
35	BA	90	U
35	BA	94	C
35	BA	95	G
35	BA	100	G
35	BA	102	G
35	BA	118	A
35	BA	119	A
35	BA	120	U
35	BA	129	C
35	BA	139(A)	G
35	BA	141	A
35	BA	142(A)	C
35	BA	146	G
35	BA	154	G
35	BA	154(A)	C
35	BA	155	U
35	BA	157	U
35	BA	171	G
35	BA	174	C
35	BA	175	G
35	BA	196	A
35	BA	197	A
35	BA	199	A
35	BA	200	U
35	BA	204	A
35	BA	205	G
35	BA	215	G
35	BA	216	A
35	BA	221	A
35	BA	222	A
35	BA	228	A

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Mol	Chain	Res	Type
35	BA	229	A
35	BA	230	U
35	BA	233	A
35	BA	248	G
35	BA	252	G
35	BA	261	G
35	BA	271(I)	G
35	BA	271(J)	C
35	BA	271(K)	U
35	BA	271(N)	U
35	BA	271(O)	C
35	BA	271(P)	C
35	BA	271(R)	G
35	BA	272(A)	U
35	BA	272(B)	G
35	BA	272(H)	C
35	BA	272(I)	U
35	BA	275	G
35	BA	276	A
35	BA	278	A
35	BA	279	C
35	BA	280	C
35	BA	299	A
35	BA	311	A
35	BA	329	G
35	BA	330	A
35	BA	332	A
35	BA	333	G
35	BA	352	G
35	BA	353	G
35	BA	356	G
35	BA	362	U
35	BA	363(B)	G
35	BA	363(E)	U
35	BA	363(F)	A
35	BA	365	C
35	BA	372	G
35	BA	386	G
35	BA	388	G
35	BA	396	G
35	BA	405	U
35	BA	406	G

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Mol	Chain	Res	Type
35	BA	411	G
35	BA	428	A
35	BA	444	C
35	BA	448	U
35	BA	456	C
35	BA	457	A
35	BA	470	A
35	BA	475	U
35	BA	481	G
35	BA	494	G
35	BA	505	A
35	BA	508	G
35	BA	509	C
35	BA	513	A
35	BA	528	A
35	BA	529	A
35	BA	530	G
35	BA	531	C
35	BA	532	A
35	BA	533	G
35	BA	563	G
35	BA	573	G
35	BA	575	A
35	BA	588	U
35	BA	603	A
35	BA	604	G
35	BA	607	U
35	BA	613	G
35	BA	614(B)	G
35	BA	615	G
35	BA	622	G
35	BA	627	A
35	BA	637	A
35	BA	645	C
35	BA	646	A
35	BA	651	G
35	BA	653	A
35	BA	654(A)	G
35	BA	654(I)	C
35	BA	654(J)	A
35	BA	654(K)	C
35	BA	654(L)	G

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Mol	Chain	Res	Type
35	BA	655	A
35	BA	656	G
35	BA	657	U
35	BA	673	C
35	BA	686	G
35	BA	708	C
35	BA	717	G
35	BA	722	A
35	BA	730	C
35	BA	753	C
35	BA	764	A
35	BA	776	G
35	BA	782	A
35	BA	784	A
35	BA	785	G
35	BA	790	C
35	BA	791	C
35	BA	792	G
35	BA	805	G
35	BA	812	C
35	BA	819	A
35	BA	827	U
35	BA	828	U
35	BA	830	G
35	BA	845	G
35	BA	848	G
35	BA	856	C
35	BA	859	G
35	BA	866	A
35	BA	878	A
35	BA	890	A
35	BA	896	A
35	BA	897	C
35	BA	904	C
35	BA	910	A
35	BA	917	A
35	BA	932	G
35	BA	941	A
35	BA	945	A
35	BA	946	G
35	BA	958	U
35	BA	959	A

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Mol	Chain	Res	Type
35	BA	961	C
35	BA	965	C
35	BA	974	G
35	BA	975	C
35	BA	983	A
35	BA	991	C
35	BA	996	A
35	BA	1012	U
35	BA	1013	C
35	BA	1022	G
35	BA	1023	U
35	BA	1025	G
35	BA	1026	U
35	BA	1033	U
35	BA	1039	G
35	BA	1041	C
35	BA	1045	A
35	BA	1046	A
35	BA	1047	G
35	BA	1049	C
35	BA	1055	G
35	BA	1067	A
35	BA	1070	A
35	BA	1088	A
35	BA	1108	U
35	BA	1109	C
35	BA	1112	G
35	BA	1113	U
35	BA	1114	G
35	BA	1115	G
35	BA	1122	G
35	BA	1129	A
35	BA	1130	U
35	BA	1135	C
35	BA	1136	G
35	BA	1142	U
35	BA	1143	A
35	BA	1155	A
35	BA	1170	G
35	BA	1173	G
35	BA	1174	A
35	BA	1175	U

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Mol	Chain	Res	Type
35	BA	1176	G
35	BA	1178	C
35	BA	1195	G
35	BA	1204	A
35	BA	1205	U
35	BA	1210	A
35	BA	1211	U
35	BA	1221	C
35	BA	1253	A
35	BA	1256	G
35	BA	1265	A
35	BA	1271	G
35	BA	1272	A
35	BA	1273	U
35	BA	1276	A
35	BA	1281	G
35	BA	1300	U
35	BA	1301	A
35	BA	1302	A
35	BA	1307	A
35	BA	1314	C
35	BA	1321	A
35	BA	1332	G
35	BA	1345	C
35	BA	1349	A
35	BA	1352	U
35	BA	1359	A
35	BA	1379	A
35	BA	1380	G
35	BA	1384	A
35	BA	1385	G
35	BA	1386	C
35	BA	1407	C
35	BA	1416	G
35	BA	1417	C
35	BA	1419	A
35	BA	1420	U
35	BA	1427	A
35	BA	1428	C
35	BA	1437	C
35	BA	1445	A
35	BA	1449	A

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Mol	Chain	Res	Type
35	BA	1450	G
35	BA	1460	A
35	BA	1461	G
35	BA	1467	C
35	BA	1471	A
35	BA	1475	G
35	BA	1481	U
35	BA	1482	G
35	BA	1485	G
35	BA	1488	G
35	BA	1490	A
35	BA	1491	G
35	BA	1493	C
35	BA	1494	A
35	BA	1495	A
35	BA	1497	U
35	BA	1502	C
35	BA	1505	C
35	BA	1509	C
35	BA	1509(A)	A
35	BA	1520	G
35	BA	1529	G
35	BA	1530	C
35	BA	1534	U
35	BA	1541	G
35	BA	1542	A
35	BA	1544	A
35	BA	1554	A
35	BA	1558	A
35	BA	1559	G
35	BA	1569	A
35	BA	1578	U
35	BA	1579	A
35	BA	1584	C
35	BA	1586	A
35	BA	1587	A
35	BA	1588	C
35	BA	1591	G
35	BA	1598	C
35	BA	1603	A
35	BA	1608	A
35	BA	1609	A

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Mol	Chain	Res	Type
35	BA	1617	C
35	BA	1618	A
35	BA	1640	C
35	BA	1648	C
35	BA	1654	A
35	BA	1674	G
35	BA	1694	C
35	BA	1695	G
35	BA	1696	G
35	BA	1718	G
35	BA	1721	G
35	BA	1722	A
35	BA	1739	U
35	BA	1740	G
35	BA	1742	G
35	BA	1748	G
35	BA	1763	G
35	BA	1764	G
35	BA	1773	A
35	BA	1780	A
35	BA	1791	A
35	BA	1800	C
35	BA	1801	G
35	BA	1802	A
35	BA	1816	G
35	BA	1820	U
35	BA	1821	A
35	BA	1835	G
35	BA	1846	G
35	BA	1847	A
35	BA	1848	A
35	BA	1858	G
35	BA	1865	G
35	BA	1866	C
35	BA	1878	G
35	BA	1881	C
35	BA	1882	C
35	BA	1885	A
35	BA	1888	G
35	BA	1889	A
35	BA	1900	A
35	BA	1906	G

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Mol	Chain	Res	Type
35	BA	1912	A
35	BA	1914	C
35	BA	1929	G
35	BA	1936	A
35	BA	1938	A
35	BA	1948	G
35	BA	1955	U
35	BA	1963	U
35	BA	1967	C
35	BA	1969	A
35	BA	1970	A
35	BA	1971	A
35	BA	1972	A
35	BA	1982	C
35	BA	1987	G
35	BA	1993	U
35	BA	1997	G
35	BA	2023	G
35	BA	2031	A
35	BA	2033	A
35	BA	2034	U
35	BA	2036	C
35	BA	2043	C
35	BA	2055	C
35	BA	2056	G
35	BA	2060	A
35	BA	2061	G
35	BA	2062	A
35	BA	2069	G
35	BA	2093	G
35	BA	2099	U
35	BA	2103	C
35	BA	2104	G
35	BA	2108	C
35	BA	2110	G
35	BA	2111	C
35	BA	2112	G
35	BA	2116	G
35	BA	2118	U
35	BA	2127	G
35	BA	2130	U
35	BA	2131	G

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Mol	Chain	Res	Type
35	BA	2132	U
35	BA	2133	G
35	BA	2134	A
35	BA	2159	G
35	BA	2172	U
35	BA	2173	A
35	BA	2177	C
35	BA	2179	C
35	BA	2187	G
35	BA	2190	G
35	BA	2193	G
35	BA	2198	A
35	BA	2199	A
35	BA	2200	C
35	BA	2207	G
35	BA	2208	A
35	BA	2219	G
35	BA	2225	A
35	BA	2226	C
35	BA	2239	G
35	BA	2268	A
35	BA	2273	A
35	BA	2275	C
35	BA	2283	C
35	BA	2287	A
35	BA	2288	A
35	BA	2305	A
35	BA	2307	G
35	BA	2308	G
35	BA	2311	A
35	BA	2313	C
35	BA	2319	G
35	BA	2320	A
35	BA	2336	A
35	BA	2347	C
35	BA	2350	C
35	BA	2360	A
35	BA	2361	A
35	BA	2383	G
35	BA	2385	C
35	BA	2402	C
35	BA	2406	U

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Mol	Chain	Res	Type
35	BA	2423	U
35	BA	2425	A
35	BA	2429	G
35	BA	2430	A
35	BA	2431	U
35	BA	2435	A
35	BA	2439	A
35	BA	2441	C
35	BA	2448	A
35	BA	2459	A
35	BA	2465	C
35	BA	2469	A
35	BA	2470	G
35	BA	2476	A
35	BA	2477	C
35	BA	2478	A
35	BA	2482	G
35	BA	2484	G
35	BA	2491	U
35	BA	2502	G
35	BA	2505	G
35	BA	2506	U
35	BA	2518	A
35	BA	2524	G
35	BA	2529	G
35	BA	2542	A
35	BA	2543	G
35	BA	2554	U
35	BA	2566	A
35	BA	2567	G
35	BA	2573	C
35	BA	2602	A
35	BA	2609	U
35	BA	2611	U
35	BA	2612	C
35	BA	2615	U
35	BA	2630	G
35	BA	2654	A
35	BA	2657	A
35	BA	2659	G
35	BA	2660	A
35	BA	2661	G

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Mol	Chain	Res	Type
35	BA	2662	A
35	BA	2673	G
35	BA	2690	C
35	BA	2691	C
35	BA	2703	C
35	BA	2712	U
35	BA	2712(A)	A
35	BA	2713	A
35	BA	2726	U
35	BA	2733	A
35	BA	2757	A
35	BA	2758	A
35	BA	2762	G
35	BA	2765	A
35	BA	2766	G
35	BA	2778	A
35	BA	2779	U
35	BA	2780	G
35	BA	2789	C
35	BA	2790	A
35	BA	2791	C
35	BA	2794	C
35	BA	2796	U
35	BA	2799	C
35	BA	2801(A)	A
35	BA	2802	G
35	BA	2803	C
35	BA	2808	U
35	BA	2820	A
35	BA	2821	A
35	BA	2833	G
35	BA	2834	G
35	BA	2835	A
35	BA	2836	U
35	BA	2849	U
35	BA	2872	G
35	BA	2892	A
35	BA	2893	G
35	BA	2894	G
35	BA	2895	U
36	BB	8	U
36	BB	15	A

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Mol	Chain	Res	Type
36	BB	22	U
36	BB	41	U
36	BB	42	C
36	BB	44	G
36	BB	45	A
36	BB	53	A
36	BB	67	G
36	BB	73	A
36	BB	81	G
36	BB	88	C
36	BB	110	G
1	CA	9	G
1	CA	31	G
1	CA	32	A
1	CA	39	G
1	CA	47	C
1	CA	48	C
1	CA	51	A
1	CA	61	G
1	CA	79	G
1	CA	80	G
1	CA	81	U
1	CA	89	C
1	CA	90	U
1	CA	92	C
1	CA	97	G
1	CA	98	G
1	CA	101	A
1	CA	116	A
1	CA	120	A
1	CA	121	C
1	CA	131	C
1	CA	137	C
1	CA	144	G
1	CA	150	C
1	CA	189(H)	G
1	CA	195	A
1	CA	197	A
1	CA	203	U
1	CA	204	U
1	CA	244	U
1	CA	247	G

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Mol	Chain	Res	Type
1	CA	251	G
1	CA	266	G
1	CA	267	C
1	CA	289	G
1	CA	321	A
1	CA	328	C
1	CA	329	A
1	CA	332	G
1	CA	345	C
1	CA	352	C
1	CA	353	A
1	CA	354	G
1	CA	367	U
1	CA	372	C
1	CA	373	A
1	CA	397	A
1	CA	398	C
1	CA	412	A
1	CA	413	G
1	CA	414	A
1	CA	422	C
1	CA	428	G
1	CA	429	U
1	CA	430	A
1	CA	435	C
1	CA	436	C
1	CA	437	U
1	CA	439	A
1	CA	452	A
1	CA	461	A
1	CA	484	G
1	CA	485	G
1	CA	496	A
1	CA	498	U
1	CA	509	A
1	CA	510	A
1	CA	511	C
1	CA	512	U
1	CA	518	C
1	CA	527	G
1	CA	532	A
1	CA	533	A

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Mol	Chain	Res	Type
1	CA	534	U
1	CA	547	A
1	CA	559	A
1	CA	561	U
1	CA	572	A
1	CA	573	A
1	CA	575	G
1	CA	576	G
1	CA	577	G
1	CA	630	G
1	CA	631	G
1	CA	632	A
1	CA	653	A
1	CA	687	A
1	CA	688	G
1	CA	724	G
1	CA	731	G
1	CA	749	C
1	CA	755	G
1	CA	777	A
1	CA	794	A
1	CA	816	A
1	CA	817	C
1	CA	818	G
1	CA	819	A
1	CA	828	A
1	CA	833	U
1	CA	839	U
1	CA	840	C
1	CA	841	U
1	CA	848	C
1	CA	859	A
1	CA	902	G
1	CA	914	A
1	CA	926	G
1	CA	927	G
1	CA	934	C
1	CA	935	A
1	CA	960	U
1	CA	961	U
1	CA	966	G
1	CA	968	A

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Mol	Chain	Res	Type
1	CA	969	A
1	CA	971	G
1	CA	974	A
1	CA	975	A
1	CA	976	G
1	CA	977	A
1	CA	978	A
1	CA	980	C
1	CA	991	U
1	CA	992	U
1	CA	993	G
1	CA	1001(A)	G
1	CA	1009	G
1	CA	1027	C
1	CA	1030	C
1	CA	1050	G
1	CA	1054	C
1	CA	1055	A
1	CA	1065	U
1	CA	1066	C
1	CA	1068	G
1	CA	1094	G
1	CA	1095	U
1	CA	1101	A
1	CA	1108	G
1	CA	1117	G
1	CA	1124	G
1	CA	1126	U
1	CA	1129	C
1	CA	1130	A
1	CA	1131	G
1	CA	1136	U
1	CA	1137	C
1	CA	1138	G
1	CA	1139	G
1	CA	1146	A
1	CA	1152	A
1	CA	1159	U
1	CA	1182	G
1	CA	1196	U
1	CA	1197	G
1	CA	1202	G

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Mol	Chain	Res	Type
1	CA	1212	U
1	CA	1213	A
1	CA	1214	C
1	CA	1225	A
1	CA	1238	A
1	CA	1249	C
1	CA	1255	G
1	CA	1256	A
1	CA	1257	U
1	CA	1280	A
1	CA	1281	U
1	CA	1282	C
1	CA	1286	A
1	CA	1287	A
1	CA	1294	G
1	CA	1299	A
1	CA	1300	G
1	CA	1301	U
1	CA	1302	U
1	CA	1305	G
1	CA	1317	C
1	CA	1322	C
1	CA	1323	G
1	CA	1331	G
1	CA	1347	G
1	CA	1363	C
1	CA	1364	U
1	CA	1401	G
1	CA	1419	G
1	CA	1442	G
1	CA	1442(A)	G
1	CA	1442(B)	A
1	CA	1443	G
1	CA	1447	A
1	CA	1452	C
1	CA	1492	A
1	CA	1493	A
1	CA	1497	G
1	CA	1498	U
1	CA	1499	A
1	CA	1502	A
1	CA	1504	G

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Mol	Chain	Res	Type
1	CA	1505	G
1	CA	1506	U
1	CA	1507	A
1	CA	1517	G
1	CA	1520	G
1	CA	1529	G
1	CA	1530	G
1	CA	1531	A
22	CV	8	U
22	CV	13	C
22	CV	17	C
22	CV	18	G
22	CV	19	G
22	CV	20	U
22	CV	21	A
22	CV	22	G
22	CV	37	A
22	CV	42	C
22	CV	44	G
22	CV	46	G
22	CV	47	U
22	CV	48	C
22	CV	52	G
22	CV	61	C
22	CV	72	C
22	CV	73	A
22	CV	75	C
22	CW	8	U
22	CW	16	U
22	CW	17	C
22	CW	18	G
22	CW	19	G
22	CW	21	A
22	CW	22	G
22	CW	23	A
22	CW	39	U
22	CW	40	C
22	CW	43	C
22	CW	44	G
22	CW	47	U
22	CW	51	U
22	CW	52	G

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Mol	Chain	Res	Type
22	CW	61	C
22	CW	71	G
23	CX	15	A
23	CX	21	A
35	DA	10	G
35	DA	34	C
35	DA	35	G
35	DA	45	C
35	DA	49	A
35	DA	50	U
35	DA	55	G
35	DA	71	A
35	DA	72	U
35	DA	74	A
35	DA	75	G
35	DA	88	G
35	DA	90	U
35	DA	94	C
35	DA	100	G
35	DA	102	G
35	DA	118	A
35	DA	119	A
35	DA	120	U
35	DA	129	C
35	DA	139(A)	G
35	DA	141	A
35	DA	142(A)	C
35	DA	146	G
35	DA	154	G
35	DA	154(A)	C
35	DA	155	U
35	DA	157	U
35	DA	171	G
35	DA	174	C
35	DA	175	G
35	DA	196	A
35	DA	197	A
35	DA	199	A
35	DA	200	U
35	DA	204	A
35	DA	205	G
35	DA	215	G

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Mol	Chain	Res	Type
35	DA	216	A
35	DA	221	A
35	DA	222	A
35	DA	228	A
35	DA	229	A
35	DA	230	U
35	DA	233	A
35	DA	248	G
35	DA	252	G
35	DA	261	G
35	DA	271(I)	G
35	DA	271(J)	C
35	DA	271(K)	U
35	DA	271(N)	U
35	DA	271(O)	C
35	DA	271(P)	C
35	DA	271(R)	G
35	DA	272(A)	U
35	DA	272(B)	G
35	DA	272(H)	C
35	DA	272(I)	U
35	DA	275	G
35	DA	276	A
35	DA	278	A
35	DA	279	C
35	DA	280	C
35	DA	299	A
35	DA	311	A
35	DA	329	G
35	DA	330	A
35	DA	332	A
35	DA	333	G
35	DA	352	G
35	DA	353	G
35	DA	356	G
35	DA	362	U
35	DA	363(B)	G
35	DA	363(E)	U
35	DA	363(F)	A
35	DA	365	C
35	DA	372	G
35	DA	386	G

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Mol	Chain	Res	Type
35	DA	388	G
35	DA	396	G
35	DA	405	U
35	DA	406	G
35	DA	411	G
35	DA	428	A
35	DA	444	C
35	DA	448	U
35	DA	456	C
35	DA	457	A
35	DA	470	A
35	DA	475	U
35	DA	481	G
35	DA	494	G
35	DA	505	A
35	DA	508	G
35	DA	509	C
35	DA	513	A
35	DA	528	A
35	DA	529	A
35	DA	530	G
35	DA	531	C
35	DA	532	A
35	DA	533	G
35	DA	556	G
35	DA	563	G
35	DA	573	G
35	DA	575	A
35	DA	588	U
35	DA	603	A
35	DA	604	G
35	DA	607	U
35	DA	613	G
35	DA	614	U
35	DA	614(B)	G
35	DA	615	G
35	DA	622	G
35	DA	627	A
35	DA	637	A
35	DA	645	C
35	DA	646	A
35	DA	651	G

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Mol	Chain	Res	Type
35	DA	653	A
35	DA	654(A)	G
35	DA	654(I)	C
35	DA	654(J)	A
35	DA	654(K)	C
35	DA	654(L)	G
35	DA	654(M)	C
35	DA	655	A
35	DA	656	G
35	DA	657	U
35	DA	673	C
35	DA	686	G
35	DA	708	C
35	DA	717	G
35	DA	722	A
35	DA	730	C
35	DA	753	C
35	DA	764	A
35	DA	776	G
35	DA	782	A
35	DA	784	A
35	DA	785	G
35	DA	790	C
35	DA	791	C
35	DA	792	G
35	DA	805	G
35	DA	812	C
35	DA	819	A
35	DA	827	U
35	DA	828	U
35	DA	830	G
35	DA	845	G
35	DA	848	G
35	DA	856	C
35	DA	859	G
35	DA	866	A
35	DA	878	A
35	DA	890	A
35	DA	896	A
35	DA	897	C
35	DA	904	C
35	DA	910	A

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Mol	Chain	Res	Type
35	DA	917	A
35	DA	932	G
35	DA	941	A
35	DA	945	A
35	DA	946	G
35	DA	958	U
35	DA	959	A
35	DA	961	C
35	DA	965	C
35	DA	974	G
35	DA	975	C
35	DA	983	A
35	DA	991	C
35	DA	996	A
35	DA	1012	U
35	DA	1013	C
35	DA	1022	G
35	DA	1023	U
35	DA	1025	G
35	DA	1026	U
35	DA	1033	U
35	DA	1039	G
35	DA	1041	C
35	DA	1045	A
35	DA	1046	A
35	DA	1047	G
35	DA	1049	C
35	DA	1055	G
35	DA	1067	A
35	DA	1070	A
35	DA	1088	A
35	DA	1108	U
35	DA	1109	C
35	DA	1112	G
35	DA	1113	U
35	DA	1114	G
35	DA	1115	G
35	DA	1122	G
35	DA	1129	A
35	DA	1130	U
35	DA	1135	C
35	DA	1136	G

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Mol	Chain	Res	Type
35	DA	1142	U
35	DA	1143	A
35	DA	1155	A
35	DA	1170	G
35	DA	1173	G
35	DA	1174	A
35	DA	1175	U
35	DA	1176	G
35	DA	1178	C
35	DA	1195	G
35	DA	1204	A
35	DA	1205	U
35	DA	1210	A
35	DA	1211	U
35	DA	1221	C
35	DA	1253	A
35	DA	1256	G
35	DA	1265	A
35	DA	1271	G
35	DA	1272	A
35	DA	1273	U
35	DA	1276	A
35	DA	1281	G
35	DA	1300	U
35	DA	1301	A
35	DA	1302	A
35	DA	1307	A
35	DA	1314	C
35	DA	1321	A
35	DA	1332	G
35	DA	1345	C
35	DA	1349	A
35	DA	1352	U
35	DA	1359	A
35	DA	1379	A
35	DA	1380	G
35	DA	1384	A
35	DA	1385	G
35	DA	1386	C
35	DA	1407	C
35	DA	1416	G
35	DA	1417	C

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Mol	Chain	Res	Type
35	DA	1419	A
35	DA	1420	U
35	DA	1427	A
35	DA	1428	C
35	DA	1437	C
35	DA	1445	A
35	DA	1449	A
35	DA	1450	G
35	DA	1460	A
35	DA	1461	G
35	DA	1471	A
35	DA	1475	G
35	DA	1478	G
35	DA	1481	U
35	DA	1482	G
35	DA	1485	G
35	DA	1488	G
35	DA	1490	A
35	DA	1491	G
35	DA	1493	C
35	DA	1494	A
35	DA	1495	A
35	DA	1497	U
35	DA	1502	C
35	DA	1505	C
35	DA	1509	C
35	DA	1509(A)	A
35	DA	1520	G
35	DA	1529	G
35	DA	1530	C
35	DA	1534	U
35	DA	1541	G
35	DA	1542	A
35	DA	1544	A
35	DA	1554	A
35	DA	1558	A
35	DA	1559	G
35	DA	1569	A
35	DA	1578	U
35	DA	1579	A
35	DA	1584	C
35	DA	1586	A

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Mol	Chain	Res	Type
35	DA	1587	A
35	DA	1588	C
35	DA	1591	G
35	DA	1598	C
35	DA	1603	A
35	DA	1608	A
35	DA	1609	A
35	DA	1617	C
35	DA	1618	A
35	DA	1640	C
35	DA	1648	C
35	DA	1654	A
35	DA	1674	G
35	DA	1694	C
35	DA	1695	G
35	DA	1696	G
35	DA	1703	G
35	DA	1718	G
35	DA	1721	G
35	DA	1722	A
35	DA	1739	U
35	DA	1740	G
35	DA	1742	G
35	DA	1746	G
35	DA	1748	G
35	DA	1763	G
35	DA	1764	G
35	DA	1773	A
35	DA	1780	A
35	DA	1791	A
35	DA	1800	C
35	DA	1801	G
35	DA	1802	A
35	DA	1816	G
35	DA	1820	U
35	DA	1821	A
35	DA	1835	G
35	DA	1846	G
35	DA	1847	A
35	DA	1848	A
35	DA	1858	G
35	DA	1865	G

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Mol	Chain	Res	Type
35	DA	1866	C
35	DA	1878	G
35	DA	1881	C
35	DA	1882	C
35	DA	1885	A
35	DA	1888	G
35	DA	1889	A
35	DA	1900	A
35	DA	1906	G
35	DA	1912	A
35	DA	1914	C
35	DA	1929	G
35	DA	1936	A
35	DA	1938	A
35	DA	1948	G
35	DA	1955	U
35	DA	1963	U
35	DA	1967	C
35	DA	1969	A
35	DA	1970	A
35	DA	1971	A
35	DA	1972	A
35	DA	1982	C
35	DA	1987	G
35	DA	1993	U
35	DA	1997	G
35	DA	2023	G
35	DA	2031	A
35	DA	2033	A
35	DA	2034	U
35	DA	2036	C
35	DA	2043	C
35	DA	2055	C
35	DA	2056	G
35	DA	2060	A
35	DA	2061	G
35	DA	2062	A
35	DA	2069	G
35	DA	2099	U
35	DA	2103	C
35	DA	2104	G
35	DA	2108	C

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Mol	Chain	Res	Type
35	DA	2110	G
35	DA	2111	C
35	DA	2112	G
35	DA	2116	G
35	DA	2118	U
35	DA	2127	G
35	DA	2130	U
35	DA	2131	G
35	DA	2132	U
35	DA	2133	G
35	DA	2134	A
35	DA	2159	G
35	DA	2172	U
35	DA	2173	A
35	DA	2177	C
35	DA	2179	C
35	DA	2187	G
35	DA	2189	U
35	DA	2190	G
35	DA	2193	G
35	DA	2198	A
35	DA	2199	A
35	DA	2200	C
35	DA	2207	G
35	DA	2208	A
35	DA	2219	G
35	DA	2225	A
35	DA	2226	C
35	DA	2239	G
35	DA	2268	A
35	DA	2273	A
35	DA	2275	C
35	DA	2283	C
35	DA	2287	A
35	DA	2288	A
35	DA	2305	A
35	DA	2307	G
35	DA	2308	G
35	DA	2311	A
35	DA	2313	C
35	DA	2319	G
35	DA	2320	A

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Mol	Chain	Res	Type
35	DA	2334	G
35	DA	2336	A
35	DA	2347	C
35	DA	2350	C
35	DA	2360	A
35	DA	2361	A
35	DA	2383	G
35	DA	2385	C
35	DA	2402	C
35	DA	2406	U
35	DA	2423	U
35	DA	2425	A
35	DA	2429	G
35	DA	2430	A
35	DA	2431	U
35	DA	2435	A
35	DA	2439	A
35	DA	2441	C
35	DA	2448	A
35	DA	2459	A
35	DA	2465	C
35	DA	2469	A
35	DA	2470	G
35	DA	2476	A
35	DA	2477	C
35	DA	2478	A
35	DA	2482	G
35	DA	2484	G
35	DA	2491	U
35	DA	2502	G
35	DA	2505	G
35	DA	2506	U
35	DA	2518	A
35	DA	2524	G
35	DA	2529	G
35	DA	2542	A
35	DA	2543	G
35	DA	2554	U
35	DA	2566	A
35	DA	2567	G
35	DA	2573	C
35	DA	2602	A

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Mol	Chain	Res	Type
35	DA	2609	U
35	DA	2611	U
35	DA	2612	C
35	DA	2615	U
35	DA	2630	G
35	DA	2654	A
35	DA	2657	A
35	DA	2658	C
35	DA	2659	G
35	DA	2660	A
35	DA	2661	G
35	DA	2662	A
35	DA	2673	G
35	DA	2690	C
35	DA	2691	C
35	DA	2703	C
35	DA	2712	U
35	DA	2712(A)	A
35	DA	2713	A
35	DA	2726	U
35	DA	2733	A
35	DA	2757	A
35	DA	2758	A
35	DA	2762	G
35	DA	2765	A
35	DA	2766	G
35	DA	2778	A
35	DA	2779	U
35	DA	2780	G
35	DA	2789	C
35	DA	2790	A
35	DA	2791	C
35	DA	2794	C
35	DA	2796	U
35	DA	2799	C
35	DA	2801(A)	A
35	DA	2802	G
35	DA	2803	C
35	DA	2808	U
35	DA	2820	A
35	DA	2821	A
35	DA	2833	G

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Mol	Chain	Res	Type
35	DA	2834	G
35	DA	2835	A
35	DA	2836	U
35	DA	2849	U
35	DA	2872	G
35	DA	2892	A
35	DA	2893	G
35	DA	2894	G
35	DA	2895	U
36	DB	8	U
36	DB	15	A
36	DB	22	U
36	DB	41	U
36	DB	42	C
36	DB	44	G
36	DB	45	A
36	DB	53	A
36	DB	67	G
36	DB	73	A
36	DB	81	G
36	DB	88	C
36	DB	110	G

All (177) RNA pucker outliers are listed below:

Mol	Chain	Res	Type
1	AA	30	U
1	AA	60	A
1	AA	115	G
1	AA	119	A
1	AA	243	A
1	AA	250	A
1	AA	266	G
1	AA	328	C
1	AA	366	C
1	AA	428	G
1	AA	429	U
1	AA	438	G
1	AA	484	G
1	AA	509	A
1	AA	533	A
1	AA	560	U

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Mol	Chain	Res	Type
1	AA	575	G
1	AA	687	A
1	AA	748	C
1	AA	793	U
1	AA	819	A
1	AA	913	A
1	AA	992	U
1	AA	1049	U
1	AA	1065	U
1	AA	1067	A
1	AA	1201	A
1	AA	1281	U
1	AA	1285	A
1	AA	1300	G
1	AA	1498	U
1	AA	1504	G
35	BA	49	A
35	BA	71	A
35	BA	74	A
35	BA	128	C
35	BA	146	G
35	BA	199	A
35	BA	221	A
35	BA	331	A
35	BA	332	A
35	BA	363(E)	U
35	BA	387	U
35	BA	474	G
35	BA	512	G
35	BA	587	C
35	BA	603	A
35	BA	614(C)	A
35	BA	673	C
35	BA	685	A
35	BA	752	A
35	BA	764	A
35	BA	790	C
35	BA	1022	G
35	BA	1210	A
35	BA	1275	A
35	BA	1300	U
35	BA	1301	A

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Mol	Chain	Res	Type
35	BA	1378	A
35	BA	1427	A
35	BA	1558	A
35	BA	1608	A
35	BA	1653	G
35	BA	1694	C
35	BA	1799	G
35	BA	1819	A
35	BA	1820	U
35	BA	1846	G
35	BA	1912	A
35	BA	1948	G
35	BA	1970	A
35	BA	1992	G
35	BA	2033	A
35	BA	2126	A
35	BA	2171	A
35	BA	2225	A
35	BA	2282	G
35	BA	2360	A
35	BA	2422	A
35	BA	2439	A
35	BA	2464	C
35	BA	2481	G
35	BA	2611	U
35	BA	2682	U
35	BA	2689	U
35	BA	2756	U
36	BB	66	A
1	CA	30	U
1	CA	60	A
1	CA	115	G
1	CA	119	A
1	CA	243	A
1	CA	250	A
1	CA	266	G
1	CA	328	C
1	CA	366	C
1	CA	428	G
1	CA	429	U
1	CA	438	G
1	CA	484	G

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Mol	Chain	Res	Type
1	CA	509	A
1	CA	533	A
1	CA	560	U
1	CA	575	G
1	CA	687	A
1	CA	748	C
1	CA	793	U
1	CA	913	A
1	CA	992	U
1	CA	1049	U
1	CA	1065	U
1	CA	1067	A
1	CA	1201	A
1	CA	1281	U
1	CA	1285	A
1	CA	1300	G
1	CA	1498	U
1	CA	1504	G
22	CW	70	G
23	CX	15	A
35	DA	49	A
35	DA	71	A
35	DA	74	A
35	DA	128	C
35	DA	146	G
35	DA	199	A
35	DA	221	A
35	DA	331	A
35	DA	332	A
35	DA	363(E)	U
35	DA	387	U
35	DA	474	G
35	DA	512	G
35	DA	587	C
35	DA	603	A
35	DA	613	G
35	DA	614(C)	A
35	DA	685	A
35	DA	752	A
35	DA	764	A
35	DA	790	C
35	DA	848	G

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Mol	Chain	Res	Type
35	DA	1022	G
35	DA	1210	A
35	DA	1275	A
35	DA	1300	U
35	DA	1301	A
35	DA	1365	A
35	DA	1378	A
35	DA	1427	A
35	DA	1558	A
35	DA	1603	A
35	DA	1608	A
35	DA	1653	G
35	DA	1694	C
35	DA	1799	G
35	DA	1819	A
35	DA	1820	U
35	DA	1846	G
35	DA	1948	G
35	DA	1970	A
35	DA	1992	G
35	DA	2033	A
35	DA	2126	A
35	DA	2171	A
35	DA	2225	A
35	DA	2282	G
35	DA	2360	A
35	DA	2422	A
35	DA	2439	A
35	DA	2464	C
35	DA	2481	G
35	DA	2611	U
35	DA	2682	U
35	DA	2689	U
35	DA	2756	U
36	DB	66	A

5.4 Non-standard residues in protein, DNA, RNA chains ⓘ

8 non-standard protein/DNA/RNA residues are modelled in this entry.

In the following table, the Counts columns list the number of bonds (or angles) for which Mogul statistics could be retrieved, the number of bonds (or angles) that are observed in the model and the number of bonds (or angles) that are defined in the Chemical Component Dictionary. The

Link column lists molecule types, if any, to which the group is linked. The Z score for a bond length (or angle) is the number of standard deviations the observed value is removed from the expected value. A bond length (or angle) with $|Z| > 2$ is considered an outlier worth inspection. RMSZ is the root-mean-square of all Z scores of the bond lengths (or angles).

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
22	8AN	AW	76	35,22	19,24,25	0.89	1 (5%)	13,35,38	0.96	1 (7%)
22	PHA	CV	77	22	10,11,11	0.92	0	10,13,13	0.56	0
22	8AN	AV	76	59,35,22	19,24,25	0.78	1 (5%)	13,35,38	1.01	1 (7%)
22	8AN	CV	76	59,35,22	19,24,25	0.76	1 (5%)	13,35,38	0.98	1 (7%)
22	PHA	CW	77	22	10,11,11	1.00	0	10,13,13	0.22	0
22	PHA	AV	77	22	10,11,11	1.01	0	10,13,13	0.45	0
22	8AN	CW	76	35,22	19,24,25	0.74	0	13,35,38	1.08	1 (7%)
22	PHA	AW	77	22	10,11,11	1.14	0	10,13,13	0.38	0

In the following table, the Chirals column lists the number of chiral outliers, the number of chiral centers analysed, the number of these observed in the model and the number defined in the Chemical Component Dictionary. Similar counts are reported in the Torsion and Rings columns. '-' means no outliers of that kind were identified.

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
22	8AN	AW	76	35,22	-	1/3/25/26	0/3/3/3
22	PHA	CV	77	22	-	4/5/6/6	0/1/1/1
22	8AN	AV	76	59,35,22	-	1/3/25/26	0/3/3/3
22	8AN	CV	76	59,35,22	-	1/3/25/26	0/3/3/3
22	PHA	CW	77	22	-	3/5/6/6	0/1/1/1
22	PHA	AV	77	22	-	3/5/6/6	0/1/1/1
22	8AN	CW	76	35,22	-	0/3/25/26	0/3/3/3
22	PHA	AW	77	22	-	2/5/6/6	0/1/1/1

All (3) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
22	AV	76	8AN	C3'-N3'	-2.27	1.43	1.47
22	AW	76	8AN	C3'-N3'	-2.15	1.44	1.47
22	CV	76	8AN	C3'-N3'	-2.13	1.44	1.47

All (4) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
22	AV	76	8AN	O4'-C4'-C3'	2.24	107.36	104.15

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
22	AW	76	8AN	C5-C6-N6	2.18	123.67	120.35
22	CV	76	8AN	O4'-C4'-C3'	2.08	107.13	104.15
22	CW	76	8AN	C5-C6-N6	2.05	123.46	120.35

There are no chirality outliers.

All (15) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
22	CV	77	PHA	C-CA-CB-CG
22	AV	76	8AN	C4'-C5'-O5'-P
22	CV	76	8AN	C4'-C5'-O5'-P
22	CW	77	PHA	O-C-CA-CB
22	CW	77	PHA	N-CA-CB-CG
22	CW	77	PHA	C-CA-CB-CG
22	AV	77	PHA	C-CA-CB-CG
22	AW	77	PHA	C-CA-CB-CG
22	CV	77	PHA	CA-CB-CG-CD2
22	AV	77	PHA	CA-CB-CG-CD2
22	AV	77	PHA	CA-CB-CG-CD1
22	CV	77	PHA	CA-CB-CG-CD1
22	CV	77	PHA	N-CA-CB-CG
22	AW	77	PHA	N-CA-CB-CG
22	AW	76	8AN	C4'-C5'-O5'-P

There are no ring outliers.

8 monomers are involved in 36 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
22	AW	76	8AN	2	0
22	CV	77	PHA	4	0
22	AV	76	8AN	7	0
22	CV	76	8AN	2	0
22	CW	77	PHA	7	0
22	AV	77	PHA	3	0
22	CW	76	8AN	3	0
22	AW	77	PHA	12	0

5.5 Carbohydrates ⓘ

There are no carbohydrates in this entry.

5.6 Ligand geometry [i](#)

Of 1100 ligands modelled in this entry, 1100 are monoatomic - leaving 0 for Mogul analysis.

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

There are no torsion outliers.

There are no ring outliers.

No monomer is involved in short contacts.

5.7 Other polymers [i](#)

There are no such residues in this entry.

5.8 Polymer linkage issues [i](#)

The following chains have linkage breaks:

Mol	Chain	Number of breaks
13	CM	5
13	AM	5
9	AI	2
9	CI	2
41	BG	1
31	B6	1

All chain breaks are listed below:

Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	B6	46:HIS	C	47:THR	N	7.42
1	AI	104:ARG	C	105:ASP	N	4.76
1	CI	104:ARG	C	105:ASP	N	4.74
1	AM	112:GLY	C	113:PRO	N	4.66
1	CM	112:GLY	C	113:PRO	N	4.66
1	BG	112:PRO	C	113:ARG	N	4.32
1	AM	69:GLU	C	70:LEU	N	4.17
1	CM	69:GLU	C	70:LEU	N	4.16
1	AM	65:LYS	C	66:LEU	N	3.15
1	CM	65:LYS	C	66:LEU	N	3.11
1	CM	118:ALA	C	119:GLY	N	2.99

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Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	AM	118:ALA	C	119:GLY	N	2.98
1	AM	97:PRO	C	98:VAL	N	2.81
1	CM	97:PRO	C	98:VAL	N	2.81
1	AI	53:VAL	C	54:ASP	N	2.79
1	CI	53:VAL	C	54:ASP	N	2.79

6 Fit of model and data ⓘ

6.1 Protein, DNA and RNA chains ⓘ

In the following table, the column labelled ‘#RSRZ> 2’ contains the number (and percentage) of RSRZ outliers, followed by percent RSRZ outliers for the chain as percentile scores relative to all X-ray entries and entries of similar resolution. The OWAB column contains the minimum, median, 95th percentile and maximum values of the occupancy-weighted average B-factor per residue. The column labelled ‘Q< 0.9’ lists the number of (and percentage) of residues with an average occupancy less than 0.9.

Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
1	AA	1504/1522 (98%)	0.05	41 (2%) 54 31	44, 101, 185, 201	0
1	CA	1504/1522 (98%)	-0.00	37 (2%) 57 34	34, 96, 178, 201	0
2	AB	235/256 (91%)	0.69	24 (10%) 6 2	81, 138, 188, 201	0
2	CB	235/256 (91%)	0.39	18 (7%) 13 5	34, 118, 174, 201	0
3	AC	207/239 (86%)	0.64	20 (9%) 7 2	73, 133, 173, 201	0
3	CC	207/239 (86%)	0.17	6 (2%) 51 28	62, 113, 157, 198	0
4	AD	208/209 (99%)	-0.07	3 (1%) 75 56	50, 93, 140, 190	0
4	CD	208/209 (99%)	0.17	1 (0%) 91 81	63, 108, 157, 201	0
5	AE	151/162 (93%)	0.21	3 (1%) 65 44	51, 97, 147, 177	0
5	CE	151/162 (93%)	0.01	2 (1%) 77 59	52, 84, 132, 163	0
6	AF	101/101 (100%)	0.04	2 (1%) 65 44	63, 105, 149, 201	0
6	CF	101/101 (100%)	-0.20	0 100 100	51, 88, 141, 168	0
7	AG	155/156 (99%)	0.67	20 (12%) 3 1	65, 130, 177, 191	0
7	CG	155/156 (99%)	0.35	11 (7%) 16 6	60, 106, 163, 201	0
8	AH	138/138 (100%)	0.14	2 (1%) 75 56	53, 105, 151, 172	0
8	CH	138/138 (100%)	0.02	0 100 100	48, 83, 125, 157	0
9	AI	127/128 (99%)	1.46	33 (25%) 0 0	82, 148, 193, 201	0
9	CI	127/128 (99%)	0.80	15 (11%) 4 2	57, 123, 185, 200	0
10	AJ	99/105 (94%)	1.45	32 (32%) 0 0	62, 148, 189, 201	0
10	CJ	99/105 (94%)	1.17	20 (20%) 1 0	66, 133, 186, 201	0
11	AK	119/129 (92%)	0.45	7 (5%) 22 10	50, 109, 158, 185	0
11	CK	119/129 (92%)	0.05	5 (4%) 36 18	38, 81, 138, 181	0
12	AL	125/132 (94%)	0.13	5 (4%) 38 19	46, 86, 126, 188	0
12	CL	125/132 (94%)	0.26	5 (4%) 38 19	40, 90, 142, 200	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
13	AM	125/126 (99%)	1.34	30 (24%) 0 0	83, 152, 196, 201	0
13	CM	125/126 (99%)	0.65	16 (12%) 3 1	40, 112, 176, 201	0
14	AN	60/61 (98%)	1.20	10 (16%) 1 1	72, 143, 178, 201	0
14	CN	60/61 (98%)	0.18	1 (1%) 70 49	63, 102, 144, 167	0
15	AO	88/89 (98%)	0.22	3 (3%) 45 24	59, 101, 135, 182	0
15	CO	88/89 (98%)	-0.04	0 100 100	45, 82, 126, 162	0
16	AP	84/88 (95%)	0.13	3 (3%) 42 22	45, 83, 143, 196	0
16	CP	84/88 (95%)	0.57	7 (8%) 11 4	63, 105, 145, 168	0
17	AQ	100/105 (95%)	-0.02	1 (1%) 82 67	43, 89, 133, 153	0
17	CQ	100/105 (95%)	0.07	1 (1%) 82 67	49, 86, 121, 161	0
18	AR	70/88 (79%)	0.80	12 (17%) 1 0	74, 104, 159, 191	0
18	CR	70/88 (79%)	0.22	3 (4%) 35 17	61, 85, 129, 150	0
19	AS	79/93 (84%)	1.66	23 (29%) 0 0	102, 156, 194, 200	0
19	CS	79/93 (84%)	1.16	15 (18%) 1 0	69, 126, 187, 201	0
20	AT	99/106 (93%)	0.43	8 (8%) 12 5	54, 96, 158, 201	0
20	CT	99/106 (93%)	0.37	6 (6%) 21 9	49, 101, 152, 192	0
21	AU	25/27 (92%)	3.20	17 (68%) 0 0	92, 133, 184, 200	0
21	CU	25/27 (92%)	1.16	3 (12%) 4 2	77, 106, 145, 200	0
22	AV	75/77 (97%)	0.45	4 (5%) 26 12	82, 133, 176, 185	0
22	AW	75/77 (97%)	0.76	9 (12%) 4 2	91, 175, 200, 201	0
22	CV	75/77 (97%)	0.29	4 (5%) 26 12	61, 107, 152, 192	0
22	CW	75/77 (97%)	0.76	12 (16%) 1 1	64, 165, 200, 201	0
23	AX	8/8 (100%)	0.16	0 100 100	77, 106, 136, 153	0
23	CX	8/8 (100%)	0.43	1 (12%) 3 1	46, 77, 146, 167	0
24	AY	351/351 (100%)	1.50	94 (26%) 0 0	68, 137, 194, 201	0
24	CY	351/351 (100%)	1.61	115 (32%) 0 0	66, 142, 191, 201	0
25	B0	83/85 (97%)	0.53	7 (8%) 11 4	55, 90, 160, 185	0
25	D0	83/85 (97%)	-0.11	4 (4%) 30 14	17, 43, 119, 176	0
26	B1	94/98 (95%)	-0.07	0 100 100	32, 69, 121, 148	0
26	D1	94/98 (95%)	-0.31	1 (1%) 80 64	18, 50, 99, 171	0
27	B2	71/72 (98%)	0.26	4 (5%) 24 11	53, 93, 147, 185	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
27	D2	71/72 (98%)	-0.38	2 (2%) 53 30	23, 48, 119, 154	0
28	B3	60/60 (100%)	0.71	4 (6%) 17 7	53, 82, 125, 183	0
28	D3	60/60 (100%)	-0.39	1 (1%) 70 49	13, 40, 82, 179	0
29	B4	31/71 (43%)	0.71	4 (12%) 3 1	86, 154, 187, 200	0
29	D4	31/71 (43%)	-0.02	1 (3%) 47 25	77, 111, 160, 187	0
30	B5	59/60 (98%)	0.26	7 (11%) 4 2	30, 69, 181, 201	0
30	D5	59/60 (98%)	0.04	4 (6%) 17 7	10, 35, 157, 163	0
31	B6	45/54 (83%)	1.91	20 (44%) 0 0	71, 128, 178, 200	0
31	D6	45/54 (83%)	1.05	10 (22%) 0 0	40, 83, 144, 186	0
32	B7	49/49 (100%)	0.09	3 (6%) 21 9	25, 52, 117, 184	0
32	D7	49/49 (100%)	-0.19	3 (6%) 21 9	12, 26, 103, 200	0
33	B8	64/65 (98%)	0.38	3 (4%) 31 15	38, 78, 141, 201	0
33	D8	64/65 (98%)	-0.23	0 100 100	14, 45, 102, 180	0
34	B9	36/37 (97%)	1.36	6 (16%) 1 1	61, 94, 137, 149	0
34	D9	36/37 (97%)	0.17	0 100 100	29, 48, 106, 125	0
35	BA	2901/2915 (99%)	-0.06	81 (2%) 53 30	31, 70, 183, 201	0
35	DA	2901/2915 (99%)	-0.21	68 (2%) 60 39	10, 41, 178, 201	0
36	BB	119/122 (97%)	0.22	0 100 100	76, 144, 190, 200	0
36	DB	119/122 (97%)	-0.36	0 100 100	29, 59, 101, 171	0
37	BC	120/229 (52%)	2.98	77 (64%) 0 0	107, 177, 201, 201	0
37	DC	120/229 (52%)	2.64	60 (50%) 0 0	91, 170, 200, 201	0
38	BD	272/276 (98%)	-0.24	0 100 100	24, 63, 111, 158	0
38	DD	272/276 (98%)	-0.47	1 (0%) 92 84	15, 40, 84, 154	0
39	BE	205/206 (99%)	0.07	8 (3%) 39 20	29, 67, 136, 201	0
39	DE	205/206 (99%)	-0.24	5 (2%) 59 37	10, 41, 138, 200	0
40	BF	208/210 (99%)	-0.02	6 (2%) 51 28	33, 77, 161, 201	0
40	DF	208/210 (99%)	-0.30	8 (3%) 40 20	9, 44, 158, 196	0
41	BG	181/182 (99%)	0.70	29 (16%) 1 1	67, 137, 182, 201	0
41	DG	181/182 (99%)	-0.06	6 (3%) 46 24	34, 79, 147, 181	0
42	BH	160/180 (88%)	1.32	47 (29%) 0 0	70, 132, 180, 201	0
42	DH	160/180 (88%)	0.02	6 (3%) 40 20	29, 69, 139, 201	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
43	BI	146/148 (98%)	0.43	10 (6%) 17 7	53, 112, 152, 186	0
43	DI	146/148 (98%)	0.16	5 (3%) 45 24	36, 94, 142, 187	0
44	BJ	0/130	-	-	-	-
44	DJ	0/130	-	-	-	-
45	BK	141/147 (95%)	2.99	80 (56%) 0 0	122, 170, 201, 201	0
45	DK	141/147 (95%)	3.43	103 (73%) 0 0	117, 178, 201, 201	0
46	BN	139/140 (99%)	0.18	3 (2%) 62 41	43, 85, 141, 201	0
46	DN	139/140 (99%)	-0.45	1 (0%) 87 75	18, 42, 104, 201	0
47	BO	122/122 (100%)	-0.43	0 100 100	36, 62, 91, 112	0
47	DO	122/122 (100%)	-0.53	0 100 100	20, 43, 81, 130	0
48	BP	146/150 (97%)	0.60	17 (11%) 4 2	37, 100, 161, 198	0
48	DP	146/150 (97%)	0.05	2 (1%) 75 56	16, 58, 135, 188	0
49	BQ	141/141 (100%)	0.20	4 (2%) 53 30	46, 91, 143, 179	0
49	DQ	141/141 (100%)	-0.38	2 (1%) 75 56	21, 46, 101, 181	0
50	BR	117/118 (99%)	-0.09	0 100 100	36, 66, 109, 152	0
50	DR	117/118 (99%)	-0.42	0 100 100	14, 39, 82, 142	0
51	BS	99/112 (88%)	1.22	25 (25%) 0 0	64, 131, 182, 191	0
51	DS	99/112 (88%)	0.15	4 (4%) 38 19	31, 67, 128, 181	0
52	BT	138/146 (94%)	0.25	11 (7%) 12 5	40, 81, 169, 201	0
52	DT	138/146 (94%)	-0.16	4 (2%) 51 28	22, 61, 150, 201	0
53	BU	117/118 (99%)	-0.10	3 (2%) 56 33	33, 73, 134, 191	0
53	DU	117/118 (99%)	-0.51	0 100 100	11, 32, 85, 147	0
54	BV	101/101 (100%)	0.22	3 (2%) 50 27	33, 96, 143, 201	0
54	DV	101/101 (100%)	-0.41	3 (2%) 50 27	7, 45, 101, 201	0
55	BW	113/113 (100%)	-0.18	0 100 100	31, 62, 117, 193	0
55	DW	113/113 (100%)	-0.46	2 (1%) 68 47	9, 32, 68, 201	0
56	BX	93/96 (96%)	-0.04	1 (1%) 80 64	45, 79, 118, 158	0
56	DX	93/96 (96%)	-0.45	0 100 100	12, 43, 80, 121	0
57	BY	101/110 (91%)	0.91	19 (18%) 1 0	52, 102, 172, 201	0
57	DY	101/110 (91%)	0.20	4 (3%) 38 19	18, 73, 156, 191	0
58	BZ	185/206 (89%)	0.51	17 (9%) 9 3	64, 120, 168, 201	0
58	DZ	185/206 (89%)	-0.14	5 (2%) 54 31	36, 75, 154, 201	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
All	All	22130/23284 (95%)	0.21	1524 (6%) 16 7	7, 85, 180, 201	0

All (1524) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
45	BK	3	LYS	14.1
13	CM	123	ALA	13.6
1	AA	82	U	13.5
52	BT	138	ALA	13.2
13	CM	126	LYS	13.0
37	DC	177	GLY	12.3
45	DK	16	LYS	11.4
42	BH	170	ARG	11.4
13	AM	123	ALA	10.8
24	AY	82	GLU	10.7
11	AK	128	ALA	10.5
1	AA	89	C	10.5
45	BK	2	LYS	10.5
11	CK	129	SER	9.9
42	DH	44	VAL	9.8
45	DK	3	LYS	9.8
58	BZ	113	ALA	9.7
24	CY	79	LEU	9.7
11	AK	129	SER	9.5
45	BK	31	GLY	9.4
30	D5	59	GLU	9.3
1	AA	81	U	9.2
30	D5	60	VAL	9.2
35	BA	2802	G	9.1
37	BC	171	ALA	9.1
37	BC	35	THR	9.0
1	CA	89	C	9.0
37	BC	181	PHE	9.0
37	BC	4	HIS	8.8
37	DC	44	VAL	8.8
24	AY	79	LEU	8.8
45	BK	141	ALA	8.7
19	CS	82	GLY	8.6
37	DC	2	PRO	8.6
45	BK	21	PRO	8.5
37	DC	176	VAL	8.4
24	CY	40	ASN	8.4

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Mol	Chain	Res	Type	RSRZ
45	DK	31	GLY	8.4
35	BA	654(G)	C	8.4
45	BK	4	VAL	8.3
45	DK	30	HIS	8.3
45	DK	33	ASN	8.3
24	AY	76	MET	8.3
22	CW	17	C	8.3
10	AJ	34	VAL	8.2
45	BK	7	VAL	8.2
1	AA	84	U	8.1
45	DK	17	ALA	8.1
19	AS	82	GLY	8.1
45	DK	50	ASP	8.0
45	DK	15	GLY	8.0
1	AA	83	U	8.0
42	BH	128	PRO	7.9
24	CY	80	PRO	7.9
21	AU	8	THR	7.8
35	BA	654(F)	C	7.8
45	DK	59	ILE	7.7
45	BK	140	GLY	7.7
35	DA	2802	G	7.7
10	AJ	33	GLN	7.7
1	AA	80	G	7.6
42	DH	170	ARG	7.6
35	BA	654(E)	G	7.5
58	BZ	114	GLY	7.5
45	BK	57	ILE	7.4
42	DH	169	VAL	7.4
13	AM	124	PRO	7.4
42	BH	171	LEU	7.3
35	BA	2795	G	7.3
30	B5	59	GLU	7.3
2	AB	130	ARG	7.2
37	DC	40	GLU	7.1
49	DQ	141	GLN	7.1
45	DK	84	LEU	7.0
37	DC	42	VAL	7.0
37	DC	170	GLY	7.0
45	BK	69	THR	6.9
25	B0	5	LYS	6.9
45	BK	84	LEU	6.9

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Mol	Chain	Res	Type	RSRZ
45	BK	8	VAL	6.9
31	B6	20	ASN	6.8
1	CA	80	G	6.8
35	DA	2795	G	6.8
37	BC	8	TYR	6.7
45	DK	89	HIS	6.7
45	BK	22	PRO	6.7
10	CJ	33	GLN	6.7
45	DK	29	GLN	6.7
24	CY	74	GLU	6.7
41	BG	2	PRO	6.7
30	B5	54	GLY	6.7
37	DC	36	ALA	6.6
24	AY	162	ALA	6.6
35	BA	654(I)	C	6.6
45	DK	137	GLU	6.6
37	BC	221	PRO	6.6
35	BA	654(H)	G	6.5
35	DA	1534	U	6.5
35	BA	2801(A)	A	6.5
45	DK	136	VAL	6.5
24	AY	75	LEU	6.5
45	BK	124	ALA	6.4
24	CY	71	GLY	6.4
24	AY	77	GLU	6.4
45	DK	77	LEU	6.4
45	BK	58	THR	6.4
13	AM	120	LYS	6.4
24	AY	47	LYS	6.4
19	CS	81	ARG	6.3
37	DC	174	ALA	6.3
35	DA	2801	A	6.3
37	BC	11	LEU	6.3
1	AA	88	A	6.3
35	BA	654(V)	A	6.3
24	AY	70	GLN	6.3
24	AY	80	PRO	6.3
24	CY	78	GLU	6.2
45	BK	29	GLN	6.2
1	AA	1030(A)	G	6.2
35	DA	654(E)	G	6.2
24	AY	72	LEU	6.1

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Mol	Chain	Res	Type	RSRZ
24	AY	299	ARG	6.1
37	DC	172	ILE	6.1
21	AU	23	PRO	6.1
35	DA	654(H)	G	6.1
1	CA	81	U	6.1
37	BC	41	THR	6.0
35	BA	654(L)	G	6.0
24	AY	81	ALA	6.0
45	BK	93	ARG	6.0
9	CI	4	TYR	5.9
35	BA	1534	U	5.9
35	DA	654(I)	C	5.9
45	BK	35	MET	5.9
45	BK	115	LEU	5.9
13	AM	121	LYS	5.8
45	DK	111	LYS	5.8
45	DK	96	VAL	5.8
35	BA	1535	A	5.8
45	DK	13	PRO	5.8
24	CY	41	ASP	5.8
24	CY	162	ALA	5.8
24	CY	62	PHE	5.8
24	CY	22	LYS	5.8
37	BC	197	LEU	5.7
12	CL	129	ALA	5.7
24	AY	301	GLU	5.7
45	BK	38	VAL	5.7
58	DZ	114	GLY	5.7
37	DC	14	LYS	5.7
7	CG	83	ALA	5.7
37	BC	174	ALA	5.7
19	AS	13	ASP	5.7
24	CY	259	THR	5.7
35	DA	654(K)	C	5.7
24	AY	86	ALA	5.7
13	AM	125	ARG	5.7
22	CW	35	A	5.6
9	AI	4	TYR	5.6
35	BA	654(K)	C	5.6
24	CY	83	GLU	5.6
1	CA	1001(A)	G	5.6
14	AN	2	ALA	5.6

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Mol	Chain	Res	Type	RSRZ
45	DK	58	THR	5.6
45	BK	59	ILE	5.6
22	CW	34	G	5.6
39	DE	76	ARG	5.6
24	AY	258	ILE	5.6
31	B6	42	TRP	5.5
37	DC	209	PHE	5.5
7	AG	82	GLY	5.5
40	DF	208	GLY	5.5
37	DC	171	ALA	5.5
57	BY	57	GLN	5.5
45	DK	104	VAL	5.5
13	AM	117	VAL	5.4
45	DK	18	THR	5.4
24	AY	172	LYS	5.4
24	CY	48	VAL	5.4
37	BC	193	PHE	5.4
37	DC	178	LYS	5.4
9	AI	36	TYR	5.3
55	DW	112	GLY	5.3
13	CM	124	PRO	5.3
24	AY	298	LEU	5.3
57	BY	50	ARG	5.3
13	AM	84	ILE	5.3
28	B3	2	PRO	5.2
45	DK	6	ALA	5.2
13	AM	69	GLU	5.2
37	BC	12	LEU	5.2
1	CA	1002	G	5.2
45	BK	30	HIS	5.2
45	DK	32	ALA	5.2
45	DK	141	ALA	5.2
43	BI	61	ARG	5.2
13	CM	122	LYS	5.2
24	CY	47	LYS	5.2
35	DA	1535	A	5.2
37	DC	41	THR	5.2
19	AS	47	HIS	5.2
10	CJ	10	GLY	5.1
37	BC	229	SER	5.1
58	DZ	113	ALA	5.1
35	DA	654(G)	C	5.1

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Mol	Chain	Res	Type	RSRZ
25	D0	3	HIS	5.1
24	CY	15	GLY	5.1
21	AU	22	ARG	5.1
37	BC	175	PRO	5.1
37	BC	176	VAL	5.1
35	BA	2796	U	5.1
37	BC	39	ASP	5.1
9	AI	7	THR	5.1
45	DK	129	GLY	5.1
45	DK	19	PRO	5.1
45	DK	22	PRO	5.1
11	CK	127	LYS	5.1
42	BH	24	VAL	5.0
42	BH	18	GLU	5.0
13	AM	112	GLY	5.0
24	AY	199	GLY	5.0
37	BC	42	VAL	5.0
45	DK	76	TYR	5.0
21	AU	18	TYR	5.0
57	BY	59	GLY	5.0
45	DK	47	ASN	5.0
35	DA	654(V)	A	5.0
21	AU	9	ARG	5.0
1	AA	1030(B)	C	4.9
28	B3	1	MET	4.9
24	AY	33	LEU	4.9
24	AY	303	ARG	4.9
24	CY	42	PRO	4.9
37	BC	34	ALA	4.9
35	BA	654	A	4.9
51	BS	104	GLY	4.9
30	B5	60	VAL	4.9
51	DS	54	LEU	4.9
31	B6	49	HIS	4.9
1	AA	1257	U	4.9
40	BF	10	PRO	4.9
24	CY	77	GLU	4.9
35	BA	2803	C	4.9
31	B6	13	CYS	4.9
19	AS	76	PRO	4.9
9	AI	127	LYS	4.8
1	AA	1002	G	4.8

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Mol	Chain	Res	Type	RSRZ
35	BA	654(S)	G	4.8
35	DA	654(L)	G	4.8
35	BA	1509	C	4.8
37	BC	10	ALA	4.8
14	AN	38	GLY	4.8
45	DK	48	MET	4.8
45	DK	121	GLU	4.8
34	B9	15	LYS	4.8
9	AI	115	GLY	4.8
13	AM	7	VAL	4.8
24	CY	39	TRP	4.8
35	BA	1536	C	4.8
45	DK	37	PHE	4.8
21	AU	25	LYS	4.8
45	BK	90	LYS	4.8
24	CY	161	GLU	4.8
31	B6	31	PRO	4.8
45	DK	70	LYS	4.8
45	BK	94	GLU	4.8
12	CL	128	ALA	4.8
45	BK	1	MET	4.8
42	DH	45	VAL	4.8
9	CI	102	LEU	4.8
24	CY	297	ALA	4.8
19	AS	71	LEU	4.7
24	AY	268	GLN	4.7
37	BC	33	LEU	4.7
45	BK	32	ALA	4.7
45	BK	120	LEU	4.7
45	BK	136	VAL	4.7
11	AK	12	ARG	4.7
20	CT	106	ALA	4.7
21	AU	24	ARG	4.7
37	BC	40	GLU	4.7
57	BY	44	ILE	4.7
35	BA	2794	C	4.7
37	DC	39	ASP	4.7
25	D0	5	LYS	4.7
45	DK	120	LEU	4.7
35	BA	2793	G	4.7
1	CA	90	U	4.7
1	AA	1001(A)	G	4.7

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Mol	Chain	Res	Type	RSRZ
35	DA	277	C	4.7
42	BH	43	VAL	4.7
37	BC	37	LYS	4.6
10	AJ	38	ILE	4.6
24	AY	87	LEU	4.6
45	BK	128	ALA	4.6
19	CS	69	HIS	4.6
24	AY	16	TYR	4.6
9	AI	61	ALA	4.6
21	CU	25	LYS	4.6
6	AF	101	ALA	4.6
37	BC	3	LYS	4.6
1	CA	88	A	4.6
31	B6	12	GLU	4.6
45	BK	85	GLU	4.6
24	CY	66	GLU	4.6
24	AY	73	LEU	4.6
21	CU	26	LYS	4.5
42	BH	44	VAL	4.5
3	AC	189	ALA	4.5
14	AN	39	LEU	4.5
24	CY	58	THR	4.5
7	AG	79	ARG	4.5
51	BS	94	TYR	4.5
57	BY	56	PRO	4.5
48	BP	126	VAL	4.5
52	BT	1	MET	4.5
18	AR	54	ARG	4.5
45	DK	49	GLY	4.5
37	BC	219	MET	4.5
7	CG	156	TRP	4.5
1	CA	84	U	4.5
24	CY	90	GLU	4.5
37	BC	178	LYS	4.5
57	BY	28	LYS	4.5
35	BA	654(N)	G	4.5
37	DC	43	GLU	4.5
52	BT	106	SER	4.5
7	AG	85	TYR	4.5
37	DC	173	HIS	4.4
39	BE	204	ALA	4.4
37	DC	219	MET	4.4

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Mol	Chain	Res	Type	RSRZ
45	BK	37	PHE	4.4
10	AJ	74	ILE	4.4
42	BH	45	VAL	4.4
18	AR	31	LEU	4.4
3	AC	194	GLY	4.4
24	CY	6	LEU	4.4
24	CY	20	PRO	4.4
31	D6	20	ASN	4.4
1	CA	82	U	4.4
37	BC	210	LEU	4.4
24	AY	253	HIS	4.4
21	AU	11	GLY	4.4
24	CY	16	TYR	4.4
35	BA	275	G	4.4
24	AY	198	SER	4.4
45	DK	92	GLY	4.4
24	CY	51	GLU	4.4
37	DC	190	ILE	4.3
19	AS	81	ARG	4.3
25	D0	4	LYS	4.3
40	BF	208	GLY	4.3
37	DC	210	LEU	4.3
35	BA	654(J)	A	4.3
45	BK	66	THR	4.3
35	DA	1509	C	4.3
45	DK	2	LYS	4.3
1	AA	1001	A	4.3
24	CY	17	LEU	4.3
22	CW	36	A	4.3
24	AY	69	LEU	4.3
24	CY	86	ALA	4.3
18	CR	56	THR	4.3
37	BC	220	GLY	4.3
58	DZ	112	ARG	4.3
24	AY	256	THR	4.3
45	BK	78	ILE	4.3
35	BA	156	U	4.3
35	BA	2154	G	4.3
24	CY	151	VAL	4.3
14	AN	25	VAL	4.2
35	BA	2165	G	4.2
37	DC	188	ASP	4.2

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Mol	Chain	Res	Type	RSRZ
51	BS	43	GLU	4.2
37	BC	217	THR	4.2
45	DK	97	GLY	4.2
22	AW	34	G	4.2
35	DA	2801(A)	A	4.2
11	AK	127	LYS	4.2
21	AU	26	LYS	4.2
24	CY	75	LEU	4.2
24	CY	84	ARG	4.2
24	AY	259	THR	4.2
37	BC	180	SER	4.2
45	DK	93	ARG	4.2
52	BT	39	ARG	4.2
24	CY	94	ALA	4.2
35	BA	2799	C	4.2
37	DC	35	THR	4.2
9	AI	56	LEU	4.2
24	CY	89	PRO	4.2
24	AY	257	GLY	4.2
25	B0	4	LYS	4.2
45	BK	95	LYS	4.2
24	CY	76	MET	4.2
24	CY	124	ALA	4.2
45	DK	130	SER	4.2
37	BC	24	ASP	4.2
45	BK	127	ILE	4.1
37	BC	182	PRO	4.1
45	DK	65	PHE	4.1
24	CY	82	GLU	4.1
24	CY	244	THR	4.1
24	CY	264	THR	4.1
9	AI	81	ILE	4.1
37	BC	23	ILE	4.1
54	BV	36	PRO	4.1
45	BK	138	VAL	4.1
1	AA	1036	G	4.1
1	CA	1003	G	4.1
2	CB	133	LYS	4.1
7	AG	156	TRP	4.1
37	BC	177	GLY	4.1
32	D7	49	ARG	4.1
45	DK	131	ALA	4.1

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Mol	Chain	Res	Type	RSRZ
37	DC	45	HIS	4.1
9	AI	53	VAL	4.0
24	AY	8	GLN	4.0
30	D5	58	LEU	4.0
24	AY	34	GLU	4.0
42	BH	52	VAL	4.0
45	DK	66	THR	4.0
1	CA	204	U	4.0
7	AG	83	ALA	4.0
13	AM	98	VAL	4.0
19	AS	11	VAL	4.0
21	AU	5	ASP	4.0
49	BQ	141	GLN	4.0
24	CY	88	LYS	4.0
45	DK	69	THR	4.0
45	DK	78	ILE	4.0
45	BK	135	GLY	4.0
35	DA	654(J)	A	4.0
1	AA	1035	A	4.0
9	CI	81	ILE	4.0
37	BC	211	ARG	4.0
41	BG	47	LYS	4.0
22	AW	47	U	4.0
57	DY	28	LYS	4.0
12	AL	127	GLU	4.0
24	AY	89	PRO	4.0
32	B7	46	VAL	4.0
25	B0	85	ALA	4.0
45	BK	89	HIS	4.0
45	BK	131	ALA	4.0
24	CY	30	GLU	3.9
35	BA	654(M)	C	3.9
45	DK	14	ALA	3.9
45	DK	4	VAL	3.9
24	CY	10	LEU	3.9
24	CY	298	LEU	3.9
37	BC	228	HIS	3.9
9	AI	9	ARG	3.9
7	CG	154	TYR	3.9
24	CY	306	GLU	3.9
45	BK	111	LYS	3.9
40	BF	1	MET	3.9

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Mol	Chain	Res	Type	RSRZ
37	BC	30	VAL	3.9
37	BC	32	GLU	3.9
57	DY	63	LYS	3.9
1	CA	1030	C	3.9
37	DC	175	PRO	3.9
45	DK	51	ALA	3.9
24	AY	220	VAL	3.9
7	AG	84	ASN	3.9
24	AY	115	ASN	3.9
37	DC	181	PHE	3.9
2	AB	116	GLU	3.9
7	AG	86	GLN	3.9
37	BC	172	ILE	3.9
37	BC	45	HIS	3.9
48	BP	110	TYR	3.9
35	BA	508	G	3.9
31	B6	45	LYS	3.8
40	DF	1	MET	3.8
35	BA	2132	U	3.8
24	AY	10	LEU	3.8
37	BC	188	ASP	3.8
14	AN	12	ARG	3.8
24	AY	197	ALA	3.8
31	D6	46	HIS	3.8
37	DC	213	VAL	3.8
37	DC	48	LEU	3.8
24	AY	78	GLU	3.8
24	AY	193	SER	3.8
10	AJ	36	GLY	3.8
24	CY	219	GLU	3.8
42	BH	96	ALA	3.8
42	DH	171	LEU	3.8
2	CB	28	PHE	3.8
37	DC	229	SER	3.8
45	DK	5	VAL	3.8
45	DK	87	GLY	3.8
19	AS	15	LEU	3.8
37	BC	189	ASN	3.8
7	CG	85	TYR	3.8
24	CY	87	LEU	3.8
24	CY	198	SER	3.8
24	AY	260	VAL	3.8

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Mol	Chain	Res	Type	RSRZ
45	BK	55	VAL	3.8
24	CY	81	ALA	3.7
45	DK	39	LYS	3.7
51	DS	108	GLY	3.7
35	DA	2805	G	3.7
7	CG	79	ARG	3.7
41	BG	128	ARG	3.7
24	CY	32	ARG	3.7
37	BC	5	GLY	3.7
45	DK	94	GLU	3.7
35	BA	2894	G	3.7
2	AB	234	PRO	3.7
34	B9	25	VAL	3.7
45	DK	56	GLU	3.7
53	BU	118	GLY	3.7
1	AA	90	U	3.7
35	BA	1084	A	3.7
9	CI	19	LEU	3.7
45	DK	27	LEU	3.7
45	BK	34	ILE	3.7
21	AU	17	THR	3.7
45	BK	63	ARG	3.7
51	BS	58	LEU	3.7
10	CJ	71	LEU	3.7
37	DC	31	LYS	3.7
45	DK	61	ALA	3.7
39	BE	54	GLN	3.7
34	B9	37	GLY	3.6
10	AJ	3	LYS	3.6
11	CK	11	LYS	3.6
37	BC	2	PRO	3.6
41	BG	50	ALA	3.6
48	DP	150	ALA	3.6
35	DA	2799	C	3.6
31	D6	49	HIS	3.6
21	AU	7	ARG	3.6
24	AY	165	ASP	3.6
2	AB	127	ILE	3.6
42	BH	95	ARG	3.6
35	BA	654(C)	G	3.6
45	DK	81	ALA	3.6
9	AI	10	ARG	3.6

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Mol	Chain	Res	Type	RSRZ
13	AM	95	GLY	3.6
1	CA	1030(A)	G	3.6
1	CA	1030(D)	A	3.6
35	BA	2127	G	3.6
45	DK	35	MET	3.6
16	CP	1	MET	3.6
35	BA	2164	C	3.6
35	DA	156	U	3.6
24	CY	179	LEU	3.6
24	AY	40	ASN	3.6
45	DK	54	PRO	3.6
18	AR	23	LYS	3.6
48	BP	150	ALA	3.6
24	AY	62	PHE	3.6
7	CG	82	GLY	3.6
35	BA	2173	A	3.6
35	DA	1067	A	3.6
35	DA	654(C)	G	3.6
45	BK	74	ALA	3.6
18	AR	22	VAL	3.5
45	DK	138	VAL	3.5
27	D2	44	LEU	3.5
24	CY	193	SER	3.5
39	BE	69	LYS	3.5
41	DG	50	ALA	3.5
14	AN	14	PRO	3.5
41	BG	98	ARG	3.5
45	BK	25	PRO	3.5
45	DK	112	MET	3.5
37	BC	36	ALA	3.5
37	BC	166	ASN	3.5
19	AS	12	ASP	3.5
45	DK	64	SER	3.5
1	AA	1039	C	3.5
42	BH	30	LYS	3.5
42	BH	158	HIS	3.5
24	AY	329	MET	3.5
1	CA	1026	G	3.5
45	DK	128	ALA	3.5
10	CJ	24	VAL	3.5
42	BH	35	VAL	3.5
9	AI	87	GLN	3.5

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Mol	Chain	Res	Type	RSRZ
13	CM	125	ARG	3.5
24	CY	149	PHE	3.5
7	AG	5	ARG	3.5
37	DC	49	GLY	3.5
21	AU	6	ARG	3.4
42	BH	19	VAL	3.4
45	DK	125	ARG	3.4
9	AI	46	ALA	3.4
24	CY	8	GLN	3.4
14	CN	2	ALA	3.4
13	CM	84	ILE	3.4
45	DK	122	ALA	3.4
35	DA	2115	G	3.4
13	AM	108	ARG	3.4
37	BC	209	PHE	3.4
45	DK	7	VAL	3.4
37	BC	216	THR	3.4
45	BK	76	TYR	3.4
57	BY	55	TYR	3.4
37	DC	38	PHE	3.4
22	CW	33	U	3.4
24	CY	329	MET	3.4
37	DC	28	ARG	3.4
27	B2	71	ASN	3.4
10	AJ	100	THR	3.4
42	BH	47	GLU	3.4
41	BG	49	ASP	3.4
1	CA	1033	G	3.4
35	DA	654(N)	G	3.4
24	AY	17	LEU	3.3
37	DC	179	ALA	3.3
48	BP	88	LEU	3.3
27	B2	72	ALA	3.3
10	AJ	75	ILE	3.3
16	AP	54	GLU	3.3
37	BC	57	GLN	3.3
52	BT	2	ASN	3.3
12	AL	18	VAL	3.3
9	AI	92	TYR	3.3
45	BK	39	LYS	3.3
20	AT	103	GLY	3.3
1	AA	1026	G	3.3

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Mol	Chain	Res	Type	RSRZ
40	DF	24	LEU	3.3
9	AI	128	ARG	3.3
13	CM	120	LYS	3.3
52	BT	115	ARG	3.3
42	BH	94	TYR	3.3
35	BA	654(T)	C	3.3
24	AY	150	GLN	3.3
1	AA	1117	G	3.3
35	BA	1087	G	3.3
35	BA	2896	C	3.3
45	BK	20	ALA	3.3
45	DK	12	LEU	3.3
10	CJ	74	ILE	3.3
3	AC	205	GLY	3.3
9	AI	100	GLY	3.3
31	D6	32	ASN	3.3
41	BG	177	GLY	3.3
2	CB	126	GLU	3.3
41	BG	14	GLU	3.3
45	BK	83	GLY	3.3
45	DK	79	ARG	3.3
22	AV	47	U	3.3
24	AY	42	PRO	3.3
42	BH	17	VAL	3.3
45	BK	97	GLY	3.3
2	AB	37	ASN	3.3
19	AS	9	VAL	3.3
35	DA	654(F)	C	3.3
3	AC	184	TYR	3.3
19	AS	14	HIS	3.3
24	CY	9	ARG	3.2
37	BC	173	HIS	3.2
57	BY	49	VAL	3.2
9	AI	90	PRO	3.2
1	AA	1030(D)	A	3.2
31	D6	42	TRP	3.2
35	DA	1065	U	3.2
52	BT	135	ALA	3.2
57	BY	46	LYS	3.2
16	CP	2	VAL	3.2
41	BG	28	VAL	3.2
35	BA	2131	G	3.2

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Mol	Chain	Res	Type	RSRZ
13	AM	65	LYS	3.2
37	DC	186	LEU	3.2
2	AB	122	PHE	3.2
22	CW	20	U	3.2
45	BK	139	VAL	3.2
1	CA	1030(B)	C	3.2
51	BS	34	HIS	3.2
7	AG	16	LEU	3.2
45	BK	129	GLY	3.2
35	DA	2132	U	3.2
10	AJ	6	ILE	3.2
45	DK	113	PRO	3.2
29	B4	25	TYR	3.2
42	BH	169	VAL	3.2
24	CY	256	THR	3.2
37	BC	183	PRO	3.2
45	DK	60	TYR	3.2
39	BE	76	ARG	3.2
14	AN	11	LYS	3.2
11	CK	12	ARG	3.2
9	AI	103	THR	3.2
9	AI	62	TYR	3.2
24	CY	296	LYS	3.2
24	CY	93	GLU	3.2
35	BA	2792	G	3.2
24	CY	67	SER	3.2
41	BG	34	LEU	3.2
1	CA	1027	C	3.2
22	CV	17	C	3.2
2	CB	127	ILE	3.2
24	CY	29	LEU	3.2
37	DC	180	SER	3.2
10	AJ	73	ASP	3.2
45	BK	104	VAL	3.2
35	BA	2791	C	3.2
31	D6	31	PRO	3.2
2	CB	7	VAL	3.2
35	BA	2179	C	3.1
54	DV	36	PRO	3.1
5	CE	155	GLU	3.1
24	AY	226	GLU	3.1
45	BK	17	ALA	3.1

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Mol	Chain	Res	Type	RSRZ
52	BT	136	GLN	3.1
10	CJ	8	LEU	3.1
45	DK	132	ARG	3.1
35	BA	545	C	3.1
3	AC	117	ALA	3.1
37	DC	168	LYS	3.1
41	BG	13	GLU	3.1
9	AI	99	LEU	3.1
42	BH	111	HIS	3.1
45	BK	101	TRP	3.1
35	BA	229	A	3.1
37	BC	200	HIS	3.1
45	BK	75	SER	3.1
45	DK	99	ILE	3.1
45	DK	117	THR	3.1
37	DC	37	LYS	3.1
1	CA	1447	A	3.1
45	BK	133	SER	3.1
9	CI	100	GLY	3.1
13	AM	122	LYS	3.1
22	CW	47	U	3.1
37	DC	194	ILE	3.1
45	DK	83	GLY	3.1
35	BA	2310	A	3.1
35	BA	2125	G	3.1
57	BY	43	ASN	3.1
24	AY	261	THR	3.1
1	CA	1032	G	3.1
58	BZ	62	PRO	3.1
45	DK	123	ALA	3.1
35	DA	2131	G	3.1
40	DF	133	ASN	3.1
7	AG	78	ARG	3.1
24	AY	195	PHE	3.1
58	BZ	161	VAL	3.1
18	AR	43	PHE	3.1
58	DZ	179	ASP	3.1
1	CA	1030(C)	G	3.1
45	DK	38	VAL	3.1
41	DG	2	PRO	3.0
2	AB	233	SER	3.0
51	BS	45	GLY	3.0

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Mol	Chain	Res	Type	RSRZ
35	BA	2155	G	3.0
45	BK	77	LEU	3.0
48	BP	138	LEU	3.0
2	CB	122	PHE	3.0
45	DK	88	ALA	3.0
10	AJ	35	SER	3.0
10	AJ	59	SER	3.0
24	AY	215	ASP	3.0
31	B6	39	TYR	3.0
48	BP	127	ALA	3.0
31	D6	47	THR	3.0
58	BZ	172	ALA	3.0
42	DH	42	ARG	3.0
51	BS	103	GLU	3.0
51	DS	53	SER	3.0
1	AA	1286	A	3.0
19	CS	39	THR	3.0
35	BA	2801	A	3.0
7	CG	78	ARG	3.0
48	BP	147	LEU	3.0
25	B0	74	ARG	3.0
24	AY	51	GLU	3.0
35	BA	2138	C	3.0
35	DA	1087	G	3.0
35	DA	1092	C	3.0
35	BA	6	A	3.0
35	DA	2796	U	3.0
10	CJ	37	PRO	3.0
45	BK	27	LEU	3.0
12	CL	114	LYS	3.0
24	CY	217	GLU	3.0
52	BT	137	LYS	3.0
51	BS	48	LEU	3.0
1	CA	1257	U	3.0
45	BK	41	PHE	3.0
37	DC	192	ALA	3.0
13	CM	102	ARG	3.0
45	BK	18	THR	3.0
10	AJ	99	LYS	3.0
24	AY	160	PRO	3.0
45	BK	15	GLY	3.0
10	AJ	28	ARG	3.0

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Mol	Chain	Res	Type	RSRZ
31	B6	44	ARG	3.0
2	AB	163	PHE	3.0
28	D3	1	MET	3.0
31	B6	46	HIS	3.0
39	DE	69	LYS	3.0
1	AA	1027	C	3.0
19	CS	41	VAL	3.0
24	CY	52	ALA	3.0
10	CJ	99	LYS	3.0
19	CS	38	SER	3.0
24	AY	74	GLU	3.0
48	BP	149	GLU	3.0
41	BG	72	ARG	2.9
1	CA	83	U	2.9
3	CC	101	LEU	2.9
35	DA	1076	C	2.9
10	AJ	60	ARG	2.9
19	CS	40	ILE	2.9
19	CS	49	ILE	2.9
9	AI	47	LEU	2.9
13	AM	5	ALA	2.9
24	AY	171	VAL	2.9
37	DC	193	PHE	2.9
24	CY	70	GLN	2.9
45	DK	98	ARG	2.9
10	AJ	72	VAL	2.9
24	CY	160	PRO	2.9
35	BA	2139	C	2.9
35	DA	888	C	2.9
58	BZ	112	ARG	2.9
2	AB	7	VAL	2.9
24	CY	302	VAL	2.9
37	DC	33	LEU	2.9
45	DK	82	ALA	2.9
8	AH	130	GLY	2.9
10	AJ	4	ILE	2.9
17	AQ	73	VAL	2.9
24	CY	91	LEU	2.9
24	CY	46	ARG	2.9
58	BZ	97	GLU	2.9
20	AT	101	GLY	2.9
25	B0	3	HIS	2.9

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Mol	Chain	Res	Type	RSRZ
24	AY	83	GLU	2.9
1	CA	71	C	2.9
45	BK	81	ALA	2.9
45	DK	124	ALA	2.9
4	CD	152	SER	2.9
49	BQ	33	GLY	2.9
45	BK	99	ILE	2.9
24	AY	196	ASP	2.9
25	D0	85	ALA	2.9
35	DA	1173	G	2.9
37	DC	166	ASN	2.9
10	CJ	98	ILE	2.9
49	BQ	104	PHE	2.9
45	BK	28	GLY	2.9
13	AM	30	ALA	2.9
3	CC	207	VAL	2.8
13	AM	102	ARG	2.8
34	B9	9	ARG	2.8
1	CA	1035	A	2.8
26	D1	85	LEU	2.8
35	DA	2116	G	2.8
40	BF	207	GLY	2.8
2	AB	152	PHE	2.8
24	AY	50	GLN	2.8
53	BU	86	ALA	2.8
45	DK	67	PHE	2.8
37	BC	179	ALA	2.8
5	AE	80	ILE	2.8
13	CM	121	LYS	2.8
41	DG	49	ASP	2.8
21	CU	23	PRO	2.8
57	BY	47	LYS	2.8
10	CJ	95	GLU	2.8
1	CA	1031	G	2.8
35	DA	2793	G	2.8
42	BH	106	THR	2.8
45	DK	71	THR	2.8
24	CY	110	PRO	2.8
51	BS	95	HIS	2.8
3	AC	72	LYS	2.8
29	B4	23	GLU	2.8
37	BC	17	PRO	2.8

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Mol	Chain	Res	Type	RSRZ
2	CB	237	ALA	2.8
7	AG	4	ARG	2.8
3	AC	33	LEU	2.8
9	AI	125	TYR	2.8
24	CY	268	GLN	2.8
45	DK	63	ARG	2.8
37	BC	49	GLY	2.8
45	DK	140	GLY	2.8
41	DG	88	ILE	2.8
24	AY	24	THR	2.8
35	BA	1060	U	2.8
41	BG	166	ASP	2.8
51	BS	30	ARG	2.8
35	BA	2140	C	2.8
10	AJ	5	ARG	2.8
42	BH	97	ARG	2.8
48	BP	121	LYS	2.8
24	CY	68	ASP	2.8
24	CY	338	ASP	2.8
1	CA	202	U	2.8
43	DI	138	ILE	2.8
24	CY	85	GLU	2.8
35	DA	654(T)	C	2.8
24	CY	69	LEU	2.8
41	BG	11	TYR	2.8
45	DK	73	PRO	2.8
3	CC	208	ILE	2.8
57	DY	89	PHE	2.8
24	AY	6	LEU	2.8
13	AM	119	GLY	2.8
24	CY	7	ALA	2.8
30	B5	53	ALA	2.8
35	BA	654(R)	C	2.8
35	BA	1046	A	2.8
2	AB	40	HIS	2.8
24	CY	97	LYS	2.8
45	BK	100	THR	2.8
24	CY	343	ASP	2.8
35	DA	1536	C	2.8
35	DA	2794	C	2.8
45	DK	23	VAL	2.8
51	BS	49	VAL	2.8

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Mol	Chain	Res	Type	RSRZ
43	BI	4	ILE	2.7
45	DK	115	LEU	2.7
19	AS	61	TYR	2.7
37	BC	227	PRO	2.7
12	CL	61	THR	2.7
37	BC	48	LEU	2.7
2	CB	152	PHE	2.7
42	BH	29	PRO	2.7
42	BH	129	THR	2.7
40	BF	128	ALA	2.7
40	DF	128	ALA	2.7
45	DK	139	VAL	2.7
2	AB	39	ILE	2.7
3	AC	134	ILE	2.7
19	AS	40	ILE	2.7
35	BA	157	U	2.7
7	AG	32	ARG	2.7
3	AC	177	THR	2.7
40	DF	12	LEU	2.7
35	DA	2113	U	2.7
45	DK	133	SER	2.7
6	AF	59	TYR	2.7
45	DK	85	GLU	2.7
1	AA	1031	G	2.7
10	AJ	76	ASN	2.7
13	CM	31	LYS	2.7
43	BI	20	ASP	2.7
48	BP	105	LEU	2.7
7	AG	88	PRO	2.7
9	CI	15	ALA	2.7
31	B6	29	ASN	2.7
46	BN	9	VAL	2.7
37	DC	203	GLU	2.7
37	BC	31	LYS	2.7
20	CT	101	GLY	2.7
24	CY	300	GLY	2.7
39	BE	68	ALA	2.7
22	AV	70	G	2.7
35	BA	1537	G	2.7
35	DA	2112	G	2.7
9	AI	59	PHE	2.7
10	AJ	47	PHE	2.7

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Mol	Chain	Res	Type	RSRZ
15	AO	89	GLY	2.7
9	AI	110	GLU	2.7
24	AY	252	VAL	2.7
24	CY	218	VAL	2.7
43	BI	8	PRO	2.7
20	CT	52	ALA	2.7
52	DT	106	SER	2.7
35	BA	1176	G	2.7
43	BI	60	GLU	2.7
45	DK	68	VAL	2.7
14	AN	34	TYR	2.6
24	CY	289	LYS	2.6
45	DK	75	SER	2.6
58	BZ	5	LEU	2.6
45	DK	42	ASN	2.6
45	BK	96	VAL	2.6
18	AR	24	ALA	2.6
35	DA	2804	C	2.6
9	CI	96	LEU	2.6
10	AJ	8	LEU	2.6
35	BA	2893	G	2.6
27	D2	70	GLN	2.6
30	B5	2	ALA	2.6
41	BG	25	TYR	2.6
37	BC	55	SER	2.6
24	AY	151	VAL	2.6
18	CR	54	ARG	2.6
57	BY	2	ARG	2.6
7	AG	112	PRO	2.6
7	CG	7	ALA	2.6
39	DE	204	ALA	2.6
9	CI	95	LYS	2.6
2	AB	128	GLU	2.6
19	AS	68	GLY	2.6
43	DI	144	VAL	2.6
45	DK	62	ASP	2.6
9	CI	7	THR	2.6
31	B6	23	THR	2.6
22	CW	16	U	2.6
24	CY	95	ALA	2.6
1	AA	1041	A	2.6
53	BU	90	VAL	2.6

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Mol	Chain	Res	Type	RSRZ
1	AA	1161	C	2.6
7	CG	84	ASN	2.6
24	CY	195	PHE	2.6
48	BP	107	LYS	2.6
51	BS	57	LYS	2.6
1	AA	79	G	2.6
24	CY	59	VAL	2.6
37	BC	184	GLU	2.6
41	BG	45	GLU	2.6
48	DP	149	GLU	2.6
57	BY	61	ILE	2.6
5	AE	30	ALA	2.6
41	BG	79	ASN	2.6
52	DT	135	ALA	2.6
34	B9	19	ARG	2.6
45	BK	13	PRO	2.6
3	AC	198	VAL	2.6
12	AL	72	GLY	2.6
8	AH	107	LEU	2.6
13	AM	87	TYR	2.6
35	DA	2125	G	2.6
35	DA	654(Q)	C	2.6
37	DC	32	GLU	2.6
2	CB	40	HIS	2.6
37	DC	201	LYS	2.6
39	BE	52	LEU	2.6
24	AY	338	ASP	2.6
58	BZ	162	GLU	2.6
45	DK	114	ASP	2.6
30	B5	58	LEU	2.6
35	DA	1064	C	2.6
16	CP	34	GLU	2.6
4	AD	49	ARG	2.6
20	AT	89	ARG	2.6
24	CY	336	VAL	2.6
43	DI	52	ARG	2.6
45	DK	8	VAL	2.6
29	B4	31	ILE	2.6
35	DA	654(O)	G	2.5
39	DE	75	VAL	2.5
10	AJ	7	LYS	2.5
52	BT	36	GLU	2.5

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Mol	Chain	Res	Type	RSRZ
43	BI	3	VAL	2.5
42	BH	56	SER	2.5
1	CA	1034	G	2.5
16	CP	59	TRP	2.5
24	AY	161	GLU	2.5
58	BZ	153	SER	2.5
2	AB	85	ALA	2.5
24	AY	297	ALA	2.5
37	DC	218	THR	2.5
1	CA	1024	G	2.5
35	BA	2805	G	2.5
35	DA	2894	G	2.5
54	DV	101	GLY	2.5
46	BN	1	MET	2.5
51	DS	107	GLU	2.5
1	AA	1029	C	2.5
37	DC	30	VAL	2.5
2	AB	214	ILE	2.5
41	DG	86	MET	2.5
37	BC	203	GLU	2.5
24	AY	96	LYS	2.5
5	AE	31	LEU	2.5
13	AM	94	ARG	2.5
15	AO	17	ARG	2.5
24	AY	296	LYS	2.5
16	CP	84	ALA	2.5
22	AW	57	G	2.5
24	CY	267	SER	2.5
45	DK	21	PRO	2.5
35	DA	1093	G	2.5
20	AT	100	ILE	2.5
37	BC	14	LYS	2.5
1	AA	1005	A	2.5
35	DA	2896	C	2.5
10	AJ	12	ASP	2.5
24	AY	212	PRO	2.5
24	AY	227	LEU	2.5
48	BP	91	PHE	2.5
35	DA	1541	G	2.5
7	AG	152	ALA	2.5
19	AS	5	LEU	2.5
45	BK	67	PHE	2.5

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Mol	Chain	Res	Type	RSRZ
37	BC	53	ARG	2.5
1	CA	1036	G	2.5
2	CB	165	VAL	2.5
24	AY	15	GLY	2.5
42	BH	83	TYR	2.5
24	AY	109	PHE	2.5
31	B6	41	PRO	2.5
1	AA	1030	C	2.5
2	AB	35	GLU	2.5
3	AC	124	ILE	2.5
24	CY	252	VAL	2.5
58	BZ	90	VAL	2.5
33	B8	48	PHE	2.5
9	AI	105	ASP	2.5
12	CL	127	GLU	2.5
24	CY	19	ILE	2.5
24	CY	196	ASP	2.5
39	DE	54	GLN	2.5
22	CV	67	C	2.4
9	AI	30	GLY	2.4
24	AY	302	VAL	2.4
7	AG	2	ALA	2.4
12	AL	128	ALA	2.4
19	CS	48	THR	2.4
1	CA	79	G	2.4
13	CM	15	VAL	2.4
35	BA	654(D)	G	2.4
20	CT	9	ASN	2.4
57	BY	65	ALA	2.4
22	AW	7	A	2.4
2	AB	231	GLU	2.4
4	AD	152	SER	2.4
37	BC	212	SER	2.4
7	CG	72	ARG	2.4
18	AR	29	PHE	2.4
35	BA	155	U	2.4
20	AT	104	LEU	2.4
18	AR	28	GLU	2.4
46	DN	3	THR	2.4
3	AC	179	ARG	2.4
9	CI	50	LEU	2.4
18	AR	26	LEU	2.4

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Mol	Chain	Res	Type	RSRZ
1	AA	1021	G	2.4
19	CS	26	GLY	2.4
28	B3	34	GLU	2.4
41	BG	48	GLU	2.4
9	AI	29	ASN	2.4
51	BS	84	GLN	2.4
2	CB	229	VAL	2.4
37	BC	213	VAL	2.4
21	AU	14	TRP	2.4
3	AC	190	ARG	2.4
10	CJ	5	ARG	2.4
13	CM	7	VAL	2.4
24	AY	59	VAL	2.4
10	AJ	22	LYS	2.4
42	BH	112	PRO	2.4
37	DC	211	ARG	2.4
51	BS	26	LEU	2.4
51	BS	80	LEU	2.4
54	BV	5	VAL	2.4
3	AC	160	ALA	2.4
10	AJ	66	ARG	2.4
13	AM	88	ARG	2.4
19	AS	69	HIS	2.4
22	CV	47	U	2.4
22	CW	55	U	2.4
51	BS	24	LEU	2.4
51	BS	65	VAL	2.4
58	BZ	91	LEU	2.4
33	B8	63	PRO	2.4
24	AY	90	GLU	2.4
43	BI	126	TYR	2.4
9	AI	50	LEU	2.4
19	CS	15	LEU	2.4
24	CY	341	LEU	2.4
35	DA	1066	U	2.4
1	CA	1028	C	2.4
24	AY	9	ARG	2.4
1	CA	1005	A	2.4
10	AJ	55	LYS	2.4
11	AK	51	LYS	2.4
32	B7	47	ARG	2.4
35	DA	1176	G	2.4

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Mol	Chain	Res	Type	RSRZ
45	DK	1	MET	2.4
51	BS	52	SER	2.4
2	AB	141	GLU	2.4
48	BP	135	LEU	2.4
19	AS	45	VAL	2.3
37	BC	51	ASP	2.3
45	DK	119	ASP	2.3
27	B2	11	GLU	2.3
35	DA	1081	U	2.3
1	AA	1024	G	2.3
9	CI	92	TYR	2.3
24	CY	44	ALA	2.3
35	BA	654(O)	G	2.3
37	BC	192	ALA	2.3
45	DK	127	ILE	2.3
51	BS	37	ALA	2.3
3	AC	87	LEU	2.3
24	CY	344	LEU	2.3
31	B6	40	CYS	2.3
19	AS	78	ARG	2.3
24	AY	264	THR	2.3
35	BA	888	C	2.3
45	DK	45	THR	2.3
22	AW	36	A	2.3
35	DA	1077	A	2.3
2	CB	232	PRO	2.3
10	CJ	32	ALA	2.3
37	BC	46	ALA	2.3
21	AU	10	ARG	2.3
24	CY	266	ARG	2.3
19	CS	68	GLY	2.3
37	DC	217	THR	2.3
1	AA	470	C	2.3
2	CB	90	MET	2.3
7	AG	33	ASP	2.3
24	AY	66	GLU	2.3
35	BA	654(P)	C	2.3
1	CA	1004	A	2.3
19	AS	37	ARG	2.3
35	BA	1174	A	2.3
51	BS	82	ILE	2.3
2	AB	232	PRO	2.3

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Mol	Chain	Res	Type	RSRZ
52	DT	92	GLY	2.3
41	BG	41	GLN	2.3
35	DA	1091	G	2.3
58	BZ	4	ARG	2.3
2	CB	41	ILE	2.3
10	AJ	27	ALA	2.3
10	CJ	23	ILE	2.3
10	CJ	26	ALA	2.3
10	CJ	35	SER	2.3
19	AS	41	VAL	2.3
24	AY	224	PRO	2.3
24	AY	251	VAL	2.3
42	BH	85	LYS	2.3
42	BH	110	SER	2.3
43	DI	127	VAL	2.3
35	BA	1083	U	2.3
42	BH	58	GLU	2.3
10	CJ	4	ILE	2.3
24	CY	101	LEU	2.3
49	DQ	140	ALA	2.3
22	AW	17	C	2.3
24	AY	149	PHE	2.3
42	BH	115	VAL	2.3
35	DA	1089	G	2.3
42	BH	101	ARG	2.3
34	B9	24	TYR	2.3
57	BY	3	VAL	2.3
11	CK	56	GLY	2.3
48	BP	118	GLY	2.3
37	BC	44	VAL	2.3
31	B6	50	ARG	2.3
41	BG	182	LYS	2.3
45	BK	12	LEU	2.3
9	AI	54	ASP	2.3
10	CJ	36	GLY	2.3
13	CM	108	ARG	2.3
37	BC	7	ARG	2.3
37	BC	215	VAL	2.3
42	BH	26	VAL	2.3
22	AV	19	G	2.3
29	D4	17	GLY	2.3
35	DA	1088	A	2.3

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Mol	Chain	Res	Type	RSRZ
2	CB	226	ARG	2.3
16	AP	19	ILE	2.3
37	BC	190	ILE	2.3
24	AY	234	ALA	2.3
37	DC	34	ALA	2.3
57	BY	89	PHE	2.3
57	BY	54	LYS	2.3
19	CS	71	LEU	2.3
20	AT	92	LEU	2.3
25	B0	7	LEU	2.3
13	CM	94	ARG	2.3
35	BA	2133	G	2.3
2	CB	132	LYS	2.3
11	AK	11	LYS	2.3
12	AL	28	LYS	2.3
24	CY	307	TRP	2.3
13	AM	83	ASP	2.3
45	DK	100	THR	2.3
10	AJ	65	LEU	2.3
37	DC	29	LEU	2.3
24	AY	48	VAL	2.3
35	BA	2120	G	2.2
9	CI	93	ARG	2.2
1	CA	92	C	2.2
21	AU	20	LYS	2.2
35	DA	1090	U	2.2
37	BC	52	PRO	2.2
19	CS	50	ALA	2.2
20	AT	49	ALA	2.2
24	AY	64	SER	2.2
24	CY	152	GLU	2.2
45	BK	56	GLU	2.2
24	CY	13	LEU	2.2
42	BH	71	LEU	2.2
45	BK	47	ASN	2.2
10	CJ	34	VAL	2.2
40	DF	11	VAL	2.2
41	BG	178	PHE	2.2
10	AJ	32	ALA	2.2
24	AY	25	ARG	2.2
30	B5	55	ARG	2.2
2	AB	15	VAL	2.2

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Mol	Chain	Res	Type	RSRZ
41	BG	87	PRO	2.2
22	AW	16	U	2.2
24	AY	84	ARG	2.2
57	DY	2	ARG	2.2
10	AJ	80	LYS	2.2
2	AB	70	PHE	2.2
10	CJ	38	ILE	2.2
37	BC	167	ASP	2.2
7	AG	113	GLU	2.2
11	AK	19	ALA	2.2
14	AN	8	GLU	2.2
35	DA	2119	A	2.2
45	DK	90	LYS	2.2
13	AM	27	LYS	2.2
31	D6	26	ASN	2.2
41	BG	97	ASP	2.2
58	BZ	178	GLU	2.2
9	AI	27	THR	2.2
37	DC	187	ALA	2.2
45	BK	33	ASN	2.2
28	B3	26	LEU	2.2
1	CA	203	U	2.2
41	BG	23	PHE	2.2
42	BH	131	VAL	2.2
24	CY	294	GLU	2.2
1	CA	93	G	2.2
25	B0	6	GLY	2.2
35	BA	2804	C	2.2
24	CY	21	GLN	2.2
48	BP	87	ASP	2.2
13	AM	111	LYS	2.2
20	CT	38	LYS	2.2
24	CY	63	ARG	2.2
22	CV	20	U	2.2
45	BK	112	MET	2.2
35	DA	2803	C	2.2
58	BZ	155	LEU	2.2
19	AS	29	ARG	2.2
24	CY	282	ARG	2.2
24	CY	322	LYS	2.2
35	BA	274	G	2.2
52	DT	137	LYS	2.2

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Mol	Chain	Res	Type	RSRZ
57	BY	51	VAL	2.2
43	DI	143	SER	2.2
1	AA	1447	A	2.2
35	DA	1046	A	2.2
19	AS	16	LEU	2.2
24	CY	73	LEU	2.2
35	DA	2179	C	2.2
29	B4	30	GLU	2.2
22	CW	44	G	2.2
7	AG	6	ARG	2.2
17	CQ	100	LYS	2.2
18	AR	20	ALA	2.2
9	AI	86	VAL	2.2
41	BG	70	VAL	2.2
45	BK	126	MET	2.2
48	BP	119	GLU	2.2
58	DZ	186	GLU	2.2
22	AV	49	C	2.2
16	CP	39	TYR	2.2
24	CY	72	LEU	2.2
27	B2	23	LYS	2.2
22	CW	50	U	2.2
41	BG	86	MET	2.2
42	BH	46	GLU	2.2
43	BI	16	GLY	2.2
46	BN	18	ALA	2.1
39	BE	73	GLU	2.1
1	AA	1033	G	2.1
35	DA	2151	G	2.1
51	BS	61	ASN	2.1
1	AA	994	A	2.1
22	AW	37	A	2.1
23	CX	14	A	2.1
37	DC	214	TYR	2.1
45	BK	44	ALA	2.1
2	AB	129	GLU	2.1
10	CJ	77	PRO	2.1
42	BH	49	VAL	2.1
42	BH	159	GLU	2.1
55	DW	113	LYS	2.1
24	CY	18	ASP	2.1
33	B8	28	GLY	2.1

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Mol	Chain	Res	Type	RSRZ
20	AT	99	LEU	2.1
24	AY	222	LEU	2.1
2	CB	188	ALA	2.1
1	AA	1261	A	2.1
15	AO	88	ARG	2.1
35	DA	654(D)	G	2.1
5	CE	69	VAL	2.1
31	B6	35	GLU	2.1
35	DA	887	A	2.1
24	CY	38	LEU	2.1
42	BH	33	LEU	2.1
14	AN	35	ARG	2.1
24	CY	24	THR	2.1
2	AB	240	GLN	2.1
16	AP	51	VAL	2.1
45	BK	36	GLU	2.1
24	CY	333	PRO	2.1
18	AR	21	LYS	2.1
24	CY	146	ARG	2.1
45	BK	123	ALA	2.1
13	AM	8	GLU	2.1
3	AC	182	ILE	2.1
40	BF	12	LEU	2.1
51	BS	22	GLY	2.1
42	BH	168	PRO	2.1
9	AI	37	PHE	2.1
32	B7	49	ARG	2.1
35	BA	2169	A	2.1
35	BA	2790	A	2.1
35	DA	508	G	2.1
56	BX	90	GLU	2.1
16	CP	22	THR	2.1
24	CY	263	GLN	2.1
42	BH	93	GLY	2.1
13	AM	59	TYR	2.1
37	BC	222	SER	2.1
24	CY	28	GLU	2.1
37	DC	196	ALA	2.1
42	BH	20	ALA	2.1
35	DA	1174	A	2.1
1	AA	1003	G	2.1
13	AM	126	LYS	2.1

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Mol	Chain	Res	Type	RSRZ
38	DD	26	LYS	2.1
51	BS	81	GLY	2.1
40	DF	14	PRO	2.1
3	AC	121	ALA	2.1
3	CC	206	GLU	2.1
37	DC	25	GLU	2.1
41	BG	76	SER	2.1
18	CR	88	LYS	2.1
24	AY	355	ARG	2.1
22	AW	21	A	2.1
42	BH	41	MET	2.1
19	AS	74	PHE	2.1
1	AA	1034	G	2.1
31	D6	39	TYR	2.1
35	BA	2402	C	2.1
2	AB	207	ALA	2.1
13	CM	8	GLU	2.1
24	AY	92	GLU	2.1
24	AY	293	GLU	2.1
42	BH	42	ARG	2.1
13	AM	6	GLY	2.1
24	AY	65	LEU	2.1
7	CG	146	GLU	2.1
9	CI	21	PRO	2.1
31	B6	21	TYR	2.1
48	BP	111	ARG	2.1
51	BS	51	ALA	2.1
35	BA	1104	C	2.1
35	DA	1080	C	2.1
1	AA	1032	G	2.1
37	BC	16	ASP	2.1
37	DC	51	ASP	2.1
24	CY	150	GLN	2.1
2	CB	130	ARG	2.1
43	BI	141	LYS	2.1
45	BK	82	ALA	2.1
45	DK	72	PRO	2.1
54	BV	46	VAL	2.1
9	CI	85	LEU	2.1
22	CW	58	A	2.1
52	BT	105	LEU	2.1
1	AA	995	C	2.1

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Mol	Chain	Res	Type	RSRZ
24	AY	247	SER	2.1
41	BG	81	LYS	2.0
32	D7	46	VAL	2.0
3	AC	77	ILE	2.0
13	CM	112	GLY	2.0
24	AY	173	GLY	2.0
13	AM	13	LYS	2.0
31	B6	38	LYS	2.0
3	CC	126	ARG	2.0
35	BA	654(U)	A	2.0
41	DG	26	GLN	2.0
57	BY	6	HIS	2.0
1	AA	1129	C	2.0
18	AR	46	GLU	2.0
58	BZ	128	VAL	2.0
3	AC	204	LEU	2.0
10	AJ	71	LEU	2.0
24	CY	316	LEU	2.0
35	BA	1047	G	2.0
41	BG	89	GLY	2.0
49	BQ	130	LYS	2.0
32	D7	47	ARG	2.0
37	BC	195	ARG	2.0
24	CY	147	GLN	2.0
24	AY	52	ALA	2.0
21	AU	12	LYS	2.0
37	DC	3	LYS	2.0
31	B6	26	ASN	2.0
35	BA	1082	U	2.0
42	BH	38	SER	2.0
42	BH	50	VAL	2.0
45	BK	50	ASP	2.0
3	CC	93	LYS	2.0
9	CI	84	ALA	2.0
7	AG	155	ARG	2.0
10	AJ	45	ARG	2.0
31	B6	36	LEU	2.0
31	D6	17	LYS	2.0
30	D5	54	GLY	2.0
54	DV	48	GLY	2.0
24	CY	237	PRO	2.0
39	BE	56	PRO	2.0

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Mol	Chain	Res	Type	RSRZ
42	BH	123	PHE	2.0
37	BC	13	GLU	2.0
35	DA	2897	U	2.0
58	BZ	96	VAL	2.0
20	CT	99	LEU	2.0
51	BS	40	ILE	2.0
4	AD	37	PRO	2.0
37	DC	182	PRO	2.0
43	BI	132	PRO	2.0
3	AC	108	ASN	2.0
24	CY	157	THR	2.0
24	CY	293	GLU	2.0
9	AI	31	GLN	2.0
35	BA	2174	C	2.0
19	CS	78	ARG	2.0
24	AY	254	LEU	2.0
37	DC	53	ARG	2.0

6.2 Non-standard residues in protein, DNA, RNA chains ⓘ

In the following table, the Atoms column lists the number of modelled atoms in the group and the number defined in the chemical component dictionary. The B-factors column lists the minimum, median, 95th percentile and maximum values of B factors of atoms in the group. The column labelled 'Q< 0.9' lists the number of atoms with occupancy less than 0.9.

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
22	PHA	AW	77	11/11	0.65	0.84	77,77,79,80	0
22	PHA	CW	77	11/11	0.83	0.57	77,77,79,80	0
22	PHA	CV	77	11/11	0.84	0.45	70,70,72,73	0
22	PHA	AV	77	11/11	0.89	0.43	70,70,72,73	0
22	8AN	AW	76	22/23	0.93	0.17	71,74,82,82	0
22	8AN	CW	76	22/23	0.94	0.22	71,74,82,82	0
22	8AN	AV	76	22/23	0.94	0.21	59,59,59,104	0
22	8AN	CV	76	22/23	0.95	0.25	59,59,59,104	0

6.3 Carbohydrates ⓘ

There are no carbohydrates in this entry.

6.4 Ligands ⓘ

In the following table, the Atoms column lists the number of modelled atoms in the group and the number defined in the chemical component dictionary. The B-factors column lists the minimum, median, 95th percentile and maximum values of B factors of atoms in the group. The column labelled 'Q< 0.9' lists the number of atoms with occupancy less than 0.9.

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
59	MG	BA	3335	1/1	-0.17	0.24	173,173,173,173	0
59	MG	DA	3153	1/1	0.12	0.45	94,94,94,94	0
59	MG	CA	1603	1/1	0.25	0.78	130,130,130,130	0
59	MG	DP	201	1/1	0.28	1.05	1,1,1,1	1
59	MG	CA	1601	1/1	0.32	0.28	59,59,59,59	0
59	MG	DA	3339	1/1	0.36	0.64	89,89,89,89	0
59	MG	CA	1638	1/1	0.39	0.50	77,77,77,77	0
59	MG	CA	1632	1/1	0.41	0.73	88,88,88,88	0
59	MG	CW	101	1/1	0.46	0.21	46,46,46,46	1
59	MG	AA	1699	1/1	0.48	0.29	83,83,83,83	0
59	MG	AA	1758	1/1	0.48	0.22	99,99,99,99	0
59	MG	BA	3331	1/1	0.49	0.29	47,47,47,47	0
59	MG	CA	1713	1/1	0.50	0.29	94,94,94,94	0
59	MG	DA	3214	1/1	0.52	0.39	117,117,117,117	0
59	MG	DA	3240	1/1	0.52	0.36	50,50,50,50	1
59	MG	CA	1675	1/1	0.53	0.42	64,64,64,64	0
59	MG	AA	1614	1/1	0.54	0.19	68,68,68,68	0
59	MG	CA	1724	1/1	0.55	0.31	58,58,58,58	0
59	MG	DA	3204	1/1	0.55	0.27	59,59,59,59	0
59	MG	BA	3163	1/1	0.55	0.36	67,67,67,67	0
59	MG	CD	301	1/1	0.55	0.13	84,84,84,84	0
59	MG	BA	3039	1/1	0.57	0.47	111,111,111,111	0
59	MG	AA	1735	1/1	0.57	0.32	74,74,74,74	0
59	MG	BA	3313	1/1	0.57	0.46	86,86,86,86	0
59	MG	BA	3180	1/1	0.58	0.34	46,46,46,46	1
59	MG	BA	3131	1/1	0.58	0.60	67,67,67,67	0
59	MG	CA	1730	1/1	0.59	0.25	72,72,72,72	0
59	MG	AA	1727	1/1	0.59	0.84	20,20,20,20	1
59	MG	BA	3143	1/1	0.59	0.32	90,90,90,90	0
59	MG	BA	3357	1/1	0.59	0.46	68,68,68,68	1
59	MG	DA	3095	1/1	0.59	0.65	111,111,111,111	0
59	MG	BA	3111	1/1	0.60	0.41	65,65,65,65	0
59	MG	DA	3210	1/1	0.60	0.60	95,95,95,95	0
59	MG	AA	1721	1/1	0.60	0.41	87,87,87,87	0
59	MG	CA	1734	1/1	0.61	0.33	72,72,72,72	1
59	MG	AA	1601	1/1	0.61	0.38	58,58,58,58	1

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
59	MG	DA	3338	1/1	0.61	0.34	58,58,58,58	0
59	MG	CL	202	1/1	0.61	0.60	80,80,80,80	0
59	MG	BA	3161	1/1	0.61	0.20	54,54,54,54	0
59	MG	CA	1612	1/1	0.62	0.18	65,65,65,65	0
59	MG	DA	3197	1/1	0.62	0.40	94,94,94,94	0
59	MG	DA	3356	1/1	0.62	0.60	74,74,74,74	0
59	MG	AA	1630	1/1	0.63	0.42	72,72,72,72	0
59	MG	AV	105	1/1	0.63	0.55	88,88,88,88	0
59	MG	BA	3127	1/1	0.64	0.56	75,75,75,75	0
59	MG	BA	3273	1/1	0.64	0.62	12,12,12,12	1
59	MG	CA	1648	1/1	0.64	0.42	72,72,72,72	0
59	MG	BA	3354	1/1	0.65	0.80	91,91,91,91	0
59	MG	CA	1753	1/1	0.65	0.11	67,67,67,67	0
59	MG	DA	3244	1/1	0.66	0.53	1,1,1,1	1
59	MG	AA	1728	1/1	0.66	0.34	69,69,69,69	0
59	MG	AA	1731	1/1	0.66	0.30	68,68,68,68	0
59	MG	BA	3208	1/1	0.67	0.56	100,100,100,100	0
59	MG	AA	1622	1/1	0.67	0.21	81,81,81,81	0
59	MG	CA	1722	1/1	0.67	0.28	74,74,74,74	1
59	MG	AX	101	1/1	0.67	0.44	27,27,27,27	1
59	MG	BA	3216	1/1	0.68	0.21	59,59,59,59	0
59	MG	CA	1680	1/1	0.68	0.56	67,67,67,67	0
59	MG	BA	3001	1/1	0.68	0.20	62,62,62,62	0
59	MG	CA	1699	1/1	0.68	0.56	84,84,84,84	0
59	MG	CA	1743	1/1	0.69	0.30	61,61,61,61	0
59	MG	BA	3305	1/1	0.69	0.34	54,54,54,54	0
59	MG	CA	1672	1/1	0.69	0.19	52,52,52,52	1
59	MG	DA	3044	1/1	0.69	0.71	62,62,62,62	0
59	MG	AA	1611	1/1	0.69	0.53	74,74,74,74	0
59	MG	BA	3246	1/1	0.69	0.37	60,60,60,60	0
59	MG	CA	1712	1/1	0.69	0.49	67,67,67,67	0
59	MG	BA	3140	1/1	0.69	0.32	77,77,77,77	0
59	MG	BA	3296	1/1	0.70	0.23	83,83,83,83	0
59	MG	DA	3130	1/1	0.70	0.36	45,45,45,45	0
59	MG	DA	3250	1/1	0.70	0.40	68,68,68,68	0
59	MG	AA	1718	1/1	0.70	0.27	71,71,71,71	0
59	MG	BA	3159	1/1	0.70	0.40	55,55,55,55	0
59	MG	DB	201	1/1	0.70	0.42	27,27,27,27	1
59	MG	CA	1715	1/1	0.70	0.41	50,50,50,50	1
59	MG	AA	1746	1/1	0.70	0.37	54,54,54,54	0
59	MG	AA	1723	1/1	0.70	0.25	54,54,54,54	1
59	MG	CA	1633	1/1	0.71	0.21	69,69,69,69	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
59	MG	AA	1748	1/1	0.71	0.69	81,81,81,81	0
59	MG	BA	3218	1/1	0.71	0.49	89,89,89,89	0
59	MG	CA	1637	1/1	0.71	0.43	65,65,65,65	0
59	MG	AA	1649	1/1	0.71	0.27	67,67,67,67	0
59	MG	CA	1660	1/1	0.71	0.26	69,69,69,69	0
59	MG	BA	3099	1/1	0.71	0.26	43,43,43,43	0
59	MG	BA	3149	1/1	0.72	0.79	75,75,75,75	0
59	MG	CA	1678	1/1	0.72	0.19	101,101,101,101	0
59	MG	BA	3309	1/1	0.72	0.18	51,51,51,51	0
59	MG	BA	3277	1/1	0.72	0.60	68,68,68,68	0
59	MG	AA	1621	1/1	0.72	0.17	93,93,93,93	0
59	MG	CA	1719	1/1	0.72	0.27	98,98,98,98	0
59	MG	CX	101	1/1	0.72	0.36	79,79,79,79	0
59	MG	DA	3221	1/1	0.72	0.26	63,63,63,63	0
59	MG	DA	3253	1/1	0.72	0.47	18,18,18,18	1
59	MG	BA	3333	1/1	0.73	0.34	23,23,23,23	1
59	MG	CA	1682	1/1	0.73	0.23	60,60,60,60	0
59	MG	CA	1714	1/1	0.73	0.54	62,62,62,62	0
59	MG	BA	3286	1/1	0.73	0.31	71,71,71,71	0
59	MG	CA	1748	1/1	0.73	1.01	1,1,1,1	1
59	MG	DA	3211	1/1	0.73	0.36	69,69,69,69	0
59	MG	BA	3096	1/1	0.73	0.34	59,59,59,59	0
59	MG	DA	3258	1/1	0.74	0.42	58,58,58,58	0
59	MG	CA	1679	1/1	0.74	0.33	60,60,60,60	0
59	MG	AA	1732	1/1	0.74	0.49	72,72,72,72	0
59	MG	DA	3260	1/1	0.74	0.36	43,43,43,43	0
59	MG	BA	3290	1/1	0.74	0.52	11,11,11,11	1
59	MG	CA	1614	1/1	0.75	0.12	44,44,44,44	0
59	MG	AA	1707	1/1	0.75	0.15	58,58,58,58	0
59	MG	BA	3191	1/1	0.75	0.18	84,84,84,84	0
59	MG	BB	204	1/1	0.75	0.27	22,22,22,22	1
59	MG	AV	103	1/1	0.75	0.10	74,74,74,74	0
59	MG	CA	1739	1/1	0.75	0.20	94,94,94,94	1
59	MG	BG	201	1/1	0.75	0.53	1,1,1,1	1
59	MG	DA	3357	1/1	0.76	0.40	55,55,55,55	0
59	MG	BA	3192	1/1	0.76	0.33	65,65,65,65	0
59	MG	BA	3010	1/1	0.76	0.62	63,63,63,63	0
59	MG	AA	1706	1/1	0.76	0.33	69,69,69,69	0
59	MG	BA	3281	1/1	0.76	0.35	51,51,51,51	1
59	MG	BA	3176	1/1	0.76	0.19	59,59,59,59	0
59	MG	AS	101	1/1	0.76	0.08	115,115,115,115	0
59	MG	B5	102	1/1	0.76	0.49	78,78,78,78	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
59	MG	AA	1648	1/1	0.76	0.12	69,69,69,69	0
59	MG	AA	1680	1/1	0.76	0.19	91,91,91,91	0
59	MG	CV	106	1/1	0.77	0.18	96,96,96,96	0
59	MG	CA	1658	1/1	0.77	0.22	53,53,53,53	0
59	MG	BA	3241	1/1	0.77	0.20	1,1,1,1	1
59	MG	DA	3226	1/1	0.77	0.63	64,64,64,64	0
59	MG	BA	3310	1/1	0.77	0.27	68,68,68,68	0
59	MG	BA	3151	1/1	0.77	0.16	52,52,52,52	0
59	MG	DA	3335	1/1	0.77	0.35	88,88,88,88	0
59	MG	DA	3141	1/1	0.77	0.32	56,56,56,56	0
59	MG	BA	3209	1/1	0.77	0.67	66,66,66,66	0
59	MG	BA	3213	1/1	0.77	0.20	80,80,80,80	1
59	MG	BA	3031	1/1	0.77	0.29	37,37,37,37	0
59	MG	DA	3308	1/1	0.77	0.18	41,41,41,41	0
59	MG	BA	3280	1/1	0.77	0.15	56,56,56,56	0
59	MG	DA	3215	1/1	0.77	0.48	129,129,129,129	0
59	MG	AA	1752	1/1	0.77	0.73	57,57,57,57	1
59	MG	DA	3355	1/1	0.78	0.39	68,68,68,68	0
59	MG	AA	1703	1/1	0.78	0.35	71,71,71,71	0
59	MG	DA	3138	1/1	0.78	0.29	58,58,58,58	0
59	MG	BA	3351	1/1	0.78	0.40	82,82,82,82	0
59	MG	BA	3311	1/1	0.78	0.25	75,75,75,75	0
59	MG	AA	1659	1/1	0.78	0.18	78,78,78,78	0
59	MG	BA	3002	1/1	0.78	0.39	80,80,80,80	0
59	MG	BA	3303	1/1	0.78	0.40	57,57,57,57	0
59	MG	BA	3322	1/1	0.78	0.30	52,52,52,52	0
59	MG	BA	3344	1/1	0.78	0.55	63,63,63,63	0
59	MG	BA	3029	1/1	0.78	0.50	66,66,66,66	0
59	MG	BA	3212	1/1	0.78	0.50	74,74,74,74	0
59	MG	DA	3282	1/1	0.78	0.16	41,41,41,41	0
59	MG	BA	3319	1/1	0.78	0.59	77,77,77,77	0
59	MG	CA	1700	1/1	0.79	0.33	58,58,58,58	0
59	MG	BA	3007	1/1	0.79	0.29	39,39,39,39	0
59	MG	BA	3353	1/1	0.79	0.27	61,61,61,61	0
59	MG	AA	1664	1/1	0.79	0.28	65,65,65,65	0
59	MG	BA	3268	1/1	0.79	0.31	66,66,66,66	0
59	MG	DA	3349	1/1	0.79	0.32	18,18,18,18	1
59	MG	AA	1691	1/1	0.79	0.15	69,69,69,69	0
59	MG	CA	1710	1/1	0.79	0.11	120,120,120,120	0
59	MG	DA	3320	1/1	0.79	0.28	56,56,56,56	0
59	MG	CA	1702	1/1	0.79	0.27	57,57,57,57	0
59	MG	BA	3312	1/1	0.79	0.12	93,93,93,93	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
59	MG	BA	3288	1/1	0.79	0.17	52,52,52,52	0
59	MG	DA	3219	1/1	0.79	0.17	32,32,32,32	0
59	MG	BA	3254	1/1	0.79	0.29	62,62,62,62	0
59	MG	BA	3261	1/1	0.79	0.27	60,60,60,60	0
59	MG	CA	1645	1/1	0.80	0.17	45,45,45,45	1
59	MG	AA	1647	1/1	0.80	0.16	66,66,66,66	0
59	MG	BA	3352	1/1	0.80	0.43	62,62,62,62	0
59	MG	DA	3237	1/1	0.80	0.36	39,39,39,39	0
59	MG	AA	1658	1/1	0.80	0.28	66,66,66,66	0
59	MG	AA	1702	1/1	0.80	0.21	51,51,51,51	0
59	MG	BA	3082	1/1	0.80	0.24	60,60,60,60	0
59	MG	BA	3276	1/1	0.80	0.41	60,60,60,60	0
59	MG	BA	3217	1/1	0.80	0.46	54,54,54,54	0
59	MG	CA	1663	1/1	0.80	0.21	57,57,57,57	0
59	MG	AA	1681	1/1	0.80	0.19	60,60,60,60	0
59	MG	DG	201	1/1	0.80	0.37	1,1,1,1	1
59	MG	BA	3298	1/1	0.80	0.26	68,68,68,68	0
59	MG	BA	3152	1/1	0.80	0.21	104,104,104,104	0
59	MG	BA	3226	1/1	0.81	0.57	58,58,58,58	0
59	MG	BA	3117	1/1	0.81	0.23	30,30,30,30	0
59	MG	DA	3256	1/1	0.81	0.20	49,49,49,49	0
59	MG	BB	203	1/1	0.81	0.15	69,69,69,69	0
59	MG	BA	3198	1/1	0.81	0.27	38,38,38,38	0
59	MG	AA	1690	1/1	0.81	0.10	64,64,64,64	0
59	MG	BA	3220	1/1	0.81	0.20	79,79,79,79	0
59	MG	AA	1682	1/1	0.81	0.70	77,77,77,77	0
59	MG	BA	3095	1/1	0.81	0.31	73,73,73,73	0
59	MG	AA	1604	1/1	0.81	0.15	57,57,57,57	0
59	MG	BA	3167	1/1	0.81	0.31	70,70,70,70	0
59	MG	AA	1704	1/1	0.81	0.29	56,56,56,56	0
59	MG	AA	1607	1/1	0.81	0.32	57,57,57,57	0
59	MG	DA	3274	1/1	0.81	0.36	69,69,69,69	0
59	MG	BA	3356	1/1	0.81	0.23	68,68,68,68	0
59	MG	AA	1645	1/1	0.81	0.35	88,88,88,88	0
59	MG	CA	1613	1/1	0.81	0.32	58,58,58,58	0
59	MG	DA	3337	1/1	0.82	0.42	102,102,102,102	0
59	MG	DA	3006	1/1	0.82	0.67	52,52,52,52	0
59	MG	DA	3350	1/1	0.82	0.37	37,37,37,37	0
59	MG	DA	3303	1/1	0.82	0.27	25,25,25,25	0
59	MG	CA	1720	1/1	0.82	0.36	93,93,93,93	1
59	MG	CA	1716	1/1	0.82	0.31	50,50,50,50	0
59	MG	AA	1660	1/1	0.82	0.10	69,69,69,69	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
59	MG	BA	3203	1/1	0.82	0.29	43,43,43,43	0
59	MG	BA	3121	1/1	0.82	0.71	92,92,92,92	0
59	MG	AA	1724	1/1	0.82	0.49	1,1,1,1	1
59	MG	DA	3312	1/1	0.82	0.14	65,65,65,65	0
59	MG	BA	3080	1/1	0.82	0.30	42,42,42,42	0
59	MG	BF	302	1/1	0.82	0.30	63,63,63,63	0
59	MG	DA	3159	1/1	0.82	0.33	68,68,68,68	0
59	MG	BA	3204	1/1	0.82	0.43	35,35,35,35	1
59	MG	DX	101	1/1	0.82	0.62	58,58,58,58	0
59	MG	BA	3336	1/1	0.82	0.34	40,40,40,40	0
59	MG	AW	103	1/1	0.82	0.15	84,84,84,84	0
59	MG	AV	104	1/1	0.82	0.08	109,109,109,109	0
59	MG	BA	3260	1/1	0.82	0.33	53,53,53,53	0
59	MG	AA	1740	1/1	0.82	0.56	75,75,75,75	0
59	MG	AA	1759	1/1	0.82	0.09	139,139,139,139	0
59	MG	DA	3228	1/1	0.82	0.34	41,41,41,41	0
59	MG	AW	101	1/1	0.82	0.14	58,58,58,58	1
59	MG	CA	1728	1/1	0.83	0.29	53,53,53,53	0
59	MG	CA	1640	1/1	0.83	0.29	37,37,37,37	0
59	MG	AA	1694	1/1	0.83	0.35	54,54,54,54	0
59	MG	BA	3145	1/1	0.83	0.12	60,60,60,60	0
59	MG	AA	1760	1/1	0.83	0.21	27,27,27,27	1
59	MG	AA	1697	1/1	0.83	0.21	60,60,60,60	0
59	MG	AA	1667	1/1	0.83	0.29	85,85,85,85	0
59	MG	AA	1677	1/1	0.83	0.57	68,68,68,68	0
59	MG	BA	3289	1/1	0.83	0.22	59,59,59,59	0
59	MG	BA	3139	1/1	0.83	0.70	84,84,84,84	0
59	MG	BA	3194	1/1	0.83	0.43	70,70,70,70	0
59	MG	DA	3298	1/1	0.83	0.30	78,78,78,78	0
59	MG	AA	1717	1/1	0.83	0.58	110,110,110,110	0
59	MG	BA	3172	1/1	0.83	0.21	58,58,58,58	0
59	MG	CA	1690	1/1	0.83	0.28	54,54,54,54	0
59	MG	AA	1709	1/1	0.83	0.21	50,50,50,50	0
59	MG	CA	1695	1/1	0.83	0.37	46,46,46,46	1
59	MG	CA	1689	1/1	0.83	0.13	57,57,57,57	0
59	MG	BA	3250	1/1	0.83	0.22	50,50,50,50	1
59	MG	AA	1749	1/1	0.83	0.25	48,48,48,48	0
59	MG	DA	3276	1/1	0.83	0.49	57,57,57,57	0
59	MG	BA	3262	1/1	0.83	0.08	49,49,49,49	0
59	MG	BA	3195	1/1	0.83	0.12	62,62,62,62	0
59	MG	AA	1640	1/1	0.83	0.27	47,47,47,47	0
59	MG	DA	3285	1/1	0.84	0.32	48,48,48,48	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
59	MG	BA	3065	1/1	0.84	0.35	67,67,67,67	0
59	MG	AA	1633	1/1	0.84	0.24	73,73,73,73	0
59	MG	CA	1670	1/1	0.84	0.35	77,77,77,77	0
59	MG	BA	3320	1/1	0.84	0.28	57,57,57,57	0
59	MG	CA	1659	1/1	0.84	0.29	69,69,69,69	0
59	MG	BA	3166	1/1	0.84	0.14	42,42,42,42	0
59	MG	AA	1606	1/1	0.84	0.39	65,65,65,65	0
59	MG	CA	1708	1/1	0.84	0.35	104,104,104,104	0
59	MG	CA	1607	1/1	0.84	0.28	32,32,32,32	0
59	MG	AA	1742	1/1	0.84	0.85	72,72,72,72	0
59	MG	AA	1734	1/1	0.84	0.31	51,51,51,51	0
59	MG	AA	1652	1/1	0.84	0.38	50,50,50,50	0
59	MG	BA	3132	1/1	0.84	0.19	80,80,80,80	0
59	MG	BA	3348	1/1	0.84	0.50	48,48,48,48	1
59	MG	AA	1741	1/1	0.84	0.33	44,44,44,44	0
59	MG	AA	1639	1/1	0.84	0.36	73,73,73,73	0
59	MG	BA	3223	1/1	0.84	0.34	38,38,38,38	0
59	MG	AA	1687	1/1	0.84	0.28	51,51,51,51	0
59	MG	AY	401	1/1	0.84	0.27	74,74,74,74	0
59	MG	CA	1641	1/1	0.84	0.48	43,43,43,43	0
59	MG	DH	201	1/1	0.84	0.19	44,44,44,44	0
59	MG	AA	1674	1/1	0.84	0.17	69,69,69,69	0
59	MG	BA	3227	1/1	0.84	0.31	56,56,56,56	0
59	MG	CA	1617	1/1	0.84	0.31	61,61,61,61	0
59	MG	CA	1696	1/1	0.84	0.53	17,17,17,17	1
59	MG	AA	1711	1/1	0.85	0.19	63,63,63,63	0
59	MG	DA	3045	1/1	0.85	0.45	34,34,34,34	0
59	MG	DA	3078	1/1	0.85	0.26	33,33,33,33	0
59	MG	DA	3144	1/1	0.85	0.20	56,56,56,56	0
59	MG	AA	1730	1/1	0.85	1.01	78,78,78,78	0
59	MG	CA	1688	1/1	0.85	0.12	56,56,56,56	0
59	MG	DA	3053	1/1	0.85	0.31	50,50,50,50	0
59	MG	BA	3297	1/1	0.85	0.34	75,75,75,75	1
59	MG	BA	3036	1/1	0.85	0.13	44,44,44,44	0
59	MG	BA	3146	1/1	0.85	0.20	58,58,58,58	0
59	MG	BA	3205	1/1	0.85	0.22	75,75,75,75	0
59	MG	CA	1639	1/1	0.85	0.24	51,51,51,51	0
59	MG	BA	3232	1/1	0.85	0.49	59,59,59,59	0
59	MG	BA	3240	1/1	0.85	0.15	73,73,73,73	0
59	MG	BA	3214	1/1	0.85	0.19	55,55,55,55	0
59	MG	CA	1646	1/1	0.85	0.18	37,37,37,37	0
59	MG	BT	201	1/1	0.85	0.22	49,49,49,49	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
59	MG	AA	1716	1/1	0.85	0.20	66,66,66,66	1
59	MG	AA	1712	1/1	0.85	0.22	47,47,47,47	0
59	MG	AA	1646	1/1	0.85	0.39	48,48,48,48	0
59	MG	AA	1617	1/1	0.85	0.09	44,44,44,44	0
59	MG	CA	1707	1/1	0.85	0.18	65,65,65,65	0
59	MG	BA	3293	1/1	0.85	0.63	83,83,83,83	0
59	MG	AA	1651	1/1	0.85	0.33	49,49,49,49	0
59	MG	CA	1738	1/1	0.85	0.26	15,15,15,15	1
59	MG	CW	102	1/1	0.86	0.21	51,51,51,51	1
59	MG	BA	3283	1/1	0.86	0.17	49,49,49,49	0
59	MG	DA	3277	1/1	0.86	0.31	37,37,37,37	0
59	MG	CA	1661	1/1	0.86	0.52	83,83,83,83	0
59	MG	AV	101	1/1	0.86	0.18	72,72,72,72	0
59	MG	BA	3069	1/1	0.86	0.28	32,32,32,32	0
59	MG	BA	3119	1/1	0.86	0.61	39,39,39,39	0
59	MG	AA	1653	1/1	0.86	0.33	44,44,44,44	0
59	MG	CS	101	1/1	0.86	0.19	52,52,52,52	1
59	MG	AA	1637	1/1	0.86	0.21	63,63,63,63	0
59	MG	BA	3342	1/1	0.86	0.38	64,64,64,64	0
59	MG	DA	3123	1/1	0.86	0.56	76,76,76,76	0
59	MG	DA	3318	1/1	0.86	0.36	49,49,49,49	0
59	MG	CA	1732	1/1	0.86	0.33	70,70,70,70	0
59	MG	DA	3107	1/1	0.86	0.27	31,31,31,31	0
59	MG	AA	1644	1/1	0.86	0.15	54,54,54,54	0
59	MG	DA	3281	1/1	0.86	0.34	59,59,59,59	0
59	MG	CA	1723	1/1	0.86	0.31	45,45,45,45	1
59	MG	DA	3290	1/1	0.86	0.40	1,1,1,1	1
59	MG	DA	3031	1/1	0.86	0.28	52,52,52,52	0
59	MG	BA	3173	1/1	0.86	0.38	51,51,51,51	0
59	MG	CA	1704	1/1	0.86	0.45	75,75,75,75	0
59	MG	AA	1737	1/1	0.86	0.22	42,42,42,42	0
59	MG	AA	1669	1/1	0.86	0.29	34,34,34,34	0
59	MG	AA	1745	1/1	0.86	0.33	62,62,62,62	0
59	MG	AA	1714	1/1	0.86	0.21	21,21,21,21	1
59	MG	BA	3329	1/1	0.86	0.51	58,58,58,58	0
59	MG	CA	1621	1/1	0.86	0.14	77,77,77,77	0
59	MG	DA	3161	1/1	0.86	0.30	44,44,44,44	0
59	MG	DA	3317	1/1	0.86	0.32	63,63,63,63	0
59	MG	DA	3243	1/1	0.86	0.30	54,54,54,54	1
59	MG	DB	204	1/1	0.87	0.27	1,1,1,1	1
59	MG	DA	3064	1/1	0.87	0.28	18,18,18,18	0
59	MG	BB	202	1/1	0.87	0.21	51,51,51,51	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
59	MG	DA	3323	1/1	0.87	0.47	45,45,45,45	0
59	MG	DA	3065	1/1	0.87	0.59	65,65,65,65	0
59	MG	DA	3158	1/1	0.87	0.32	37,37,37,37	0
59	MG	BA	3346	1/1	0.87	0.21	69,69,69,69	0
59	MG	BA	3243	1/1	0.87	0.23	10,10,10,10	1
59	MG	BA	3202	1/1	0.87	0.17	42,42,42,42	0
59	MG	AA	1733	1/1	0.87	0.41	79,79,79,79	0
59	MG	BA	3323	1/1	0.87	0.30	49,49,49,49	1
59	MG	BA	3003	1/1	0.87	0.24	56,56,56,56	0
59	MG	CA	1650	1/1	0.87	0.25	46,46,46,46	0
59	MG	BA	3182	1/1	0.87	0.23	70,70,70,70	0
59	MG	DA	3212	1/1	0.87	0.21	59,59,59,59	0
59	MG	AA	1739	1/1	0.87	0.14	54,54,54,54	0
59	MG	BA	3249	1/1	0.87	0.47	103,103,103,103	0
59	MG	BA	3199	1/1	0.87	0.32	60,60,60,60	0
59	MG	DA	3331	1/1	0.87	0.14	30,30,30,30	0
59	MG	DA	3273	1/1	0.87	0.26	1,1,1,1	1
59	MG	DA	3039	1/1	0.87	0.36	97,97,97,97	0
59	MG	DA	3080	1/1	0.87	0.34	32,32,32,32	0
59	MG	BA	3179	1/1	0.87	0.49	43,43,43,43	0
59	MG	AA	1747	1/1	0.87	0.36	81,81,81,81	0
59	MG	CA	1749	1/1	0.87	0.26	65,65,65,65	0
59	MG	BA	3355	1/1	0.87	0.18	9,9,9,9	1
59	MG	BA	3077	1/1	0.87	0.25	74,74,74,74	0
59	MG	DA	3170	1/1	0.88	0.20	25,25,25,25	0
59	MG	BA	3185	1/1	0.88	0.32	46,46,46,46	0
59	MG	BA	3004	1/1	0.88	0.36	118,118,118,118	1
59	MG	AA	1692	1/1	0.88	0.35	50,50,50,50	0
59	MG	BA	3183	1/1	0.88	0.25	59,59,59,59	1
59	MG	BA	3278	1/1	0.88	0.28	59,59,59,59	0
59	MG	DA	3322	1/1	0.88	0.18	38,38,38,38	0
59	MG	AA	1679	1/1	0.88	0.24	82,82,82,82	0
59	MG	CA	1706	1/1	0.88	0.20	53,53,53,53	0
59	MG	BA	3078	1/1	0.88	0.30	58,58,58,58	0
59	MG	BA	3219	1/1	0.88	0.33	46,46,46,46	0
59	MG	CV	105	1/1	0.88	0.31	66,66,66,66	0
59	MG	AV	106	1/1	0.88	0.09	77,77,77,77	0
59	MG	AA	1657	1/1	0.88	0.45	46,46,46,46	0
59	MG	BA	3245	1/1	0.88	0.25	43,43,43,43	0
59	MG	DA	3319	1/1	0.88	0.39	71,71,71,71	0
59	MG	AA	1642	1/1	0.88	0.31	55,55,55,55	0
59	MG	DA	3342	1/1	0.88	0.51	61,61,61,61	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
59	MG	BA	3252	1/1	0.88	0.20	32,32,32,32	1
59	MG	BA	3154	1/1	0.88	0.23	44,44,44,44	0
59	MG	CA	1742	1/1	0.88	0.23	32,32,32,32	1
59	MG	CA	1622	1/1	0.88	0.16	53,53,53,53	0
59	MG	AV	107	1/1	0.88	0.22	65,65,65,65	1
59	MG	DA	3311	1/1	0.88	0.18	75,75,75,75	0
59	MG	DA	3193	1/1	0.88	0.23	61,61,61,61	0
59	MG	CA	1642	1/1	0.88	0.29	67,67,67,67	1
59	MG	BA	3292	1/1	0.88	0.35	55,55,55,55	0
59	MG	DA	3229	1/1	0.88	0.22	56,56,56,56	0
59	MG	CA	1691	1/1	0.88	0.35	33,33,33,33	0
59	MG	AA	1719	1/1	0.88	0.21	63,63,63,63	0
59	MG	CA	1654	1/1	0.88	0.42	48,48,48,48	0
59	MG	BA	3338	1/1	0.89	0.43	54,54,54,54	0
59	MG	DA	3178	1/1	0.89	0.17	51,51,51,51	0
59	MG	AA	1736	1/1	0.89	0.14	43,43,43,43	1
59	MG	BA	3255	1/1	0.89	0.35	73,73,73,73	0
59	MG	BA	3274	1/1	0.89	0.10	57,57,57,57	0
59	MG	BA	3318	1/1	0.89	0.24	42,42,42,42	0
59	MG	BA	3200	1/1	0.89	0.31	36,36,36,36	0
59	MG	AA	1666	1/1	0.89	0.81	70,70,70,70	0
59	MG	AA	1726	1/1	0.89	0.19	2,2,2,2	1
59	MG	BB	201	1/1	0.89	0.63	38,38,38,38	1
59	MG	AA	1729	1/1	0.89	0.36	88,88,88,88	0
59	MG	DA	3279	1/1	0.89	0.23	16,16,16,16	0
59	MG	AA	1701	1/1	0.89	0.19	61,61,61,61	0
59	MG	DA	3184	1/1	0.89	0.21	46,46,46,46	0
59	MG	DA	3270	1/1	0.89	0.22	30,30,30,30	0
59	MG	CA	1698	1/1	0.89	0.40	20,20,20,20	1
59	MG	CA	1731	1/1	0.89	0.21	69,69,69,69	0
59	MG	DA	3119	1/1	0.89	0.59	40,40,40,40	0
59	MG	DA	3304	1/1	0.89	0.26	18,18,18,18	1
59	MG	BA	3287	1/1	0.89	0.14	65,65,65,65	0
59	MG	CA	1727	1/1	0.89	0.27	44,44,44,44	0
59	MG	DA	3165	1/1	0.89	0.33	45,45,45,45	0
59	MG	CA	1674	1/1	0.89	0.11	35,35,35,35	1
59	MG	BA	3259	1/1	0.89	0.17	80,80,80,80	0
59	MG	DA	3333	1/1	0.89	0.15	55,55,55,55	0
59	MG	AA	1722	1/1	0.89	0.18	46,46,46,46	1
59	MG	BA	3327	1/1	0.89	0.25	52,52,52,52	0
59	MG	BA	3113	1/1	0.89	0.32	33,33,33,33	0
59	MG	DA	3292	1/1	0.89	0.24	40,40,40,40	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
59	MG	BA	3302	1/1	0.89	0.20	20,20,20,20	0
59	MG	AA	1616	1/1	0.89	0.21	36,36,36,36	1
59	MG	BA	3067	1/1	0.89	0.12	30,30,30,30	0
59	MG	DA	3336	1/1	0.89	0.37	48,48,48,48	0
59	MG	CA	1619	1/1	0.89	0.27	41,41,41,41	0
59	MG	DA	3198	1/1	0.89	0.35	52,52,52,52	0
59	MG	CA	1747	1/1	0.89	0.19	21,21,21,21	1
59	MG	CA	1667	1/1	0.89	0.13	57,57,57,57	0
59	MG	AA	1671	1/1	0.89	0.31	66,66,66,66	0
59	MG	BA	3160	1/1	0.89	0.12	36,36,36,36	0
59	MG	BA	3048	1/1	0.89	0.24	32,32,32,32	0
59	MG	BA	3324	1/1	0.89	0.43	19,19,19,19	1
59	MG	BA	3196	1/1	0.89	0.31	52,52,52,52	0
59	MG	BA	3304	1/1	0.89	0.77	64,64,64,64	0
59	MG	BA	3129	1/1	0.89	0.44	59,59,59,59	0
59	MG	BA	3122	1/1	0.90	0.63	62,62,62,62	0
59	MG	BA	3332	1/1	0.90	0.20	54,54,54,54	0
59	MG	DA	3242	1/1	0.90	0.16	11,11,11,11	1
59	MG	AA	1710	1/1	0.90	0.29	61,61,61,61	0
59	MG	BA	3097	1/1	0.90	0.12	45,45,45,45	0
59	MG	AA	1641	1/1	0.90	0.16	38,38,38,38	0
59	MG	BA	3334	1/1	0.90	0.12	55,55,55,55	0
59	MG	DA	3280	1/1	0.90	0.37	54,54,54,54	0
59	MG	AA	1743	1/1	0.90	0.09	49,49,49,49	1
59	MG	AA	1751	1/1	0.90	0.23	11,11,11,11	1
59	MG	DA	3262	1/1	0.90	0.10	32,32,32,32	0
59	MG	CA	1611	1/1	0.90	0.35	51,51,51,51	0
59	MG	DA	3325	1/1	0.90	0.26	48,48,48,48	0
59	MG	BA	3033	1/1	0.90	0.31	35,35,35,35	0
59	MG	AA	1662	1/1	0.90	0.33	56,56,56,56	0
59	MG	CA	1677	1/1	0.90	0.12	46,46,46,46	1
59	MG	CA	1701	1/1	0.90	0.53	55,55,55,55	1
59	MG	AA	1650	1/1	0.90	0.22	40,40,40,40	0
59	MG	BA	3114	1/1	0.90	0.28	37,37,37,37	0
59	MG	BA	3247	1/1	0.90	0.14	66,66,66,66	0
59	MG	BA	3236	1/1	0.90	0.24	54,54,54,54	0
59	MG	AW	102	1/1	0.90	0.15	25,25,25,25	1
59	MG	BA	3349	1/1	0.90	0.36	45,45,45,45	0
59	MG	BA	3124	1/1	0.90	0.50	65,65,65,65	0
59	MG	BA	3049	1/1	0.90	0.51	46,46,46,46	0
59	MG	DA	3289	1/1	0.90	0.12	17,17,17,17	0
59	MG	BF	301	1/1	0.90	0.14	33,33,33,33	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
59	MG	AA	1757	1/1	0.90	0.14	49,49,49,49	0
59	MG	CA	1662	1/1	0.90	0.12	49,49,49,49	0
59	MG	AA	1676	1/1	0.90	0.11	21,21,21,21	1
59	MG	BA	3044	1/1	0.90	0.41	49,49,49,49	0
59	MG	BA	3093	1/1	0.90	0.29	38,38,38,38	0
59	MG	BA	3210	1/1	0.90	0.49	70,70,70,70	0
59	MG	CA	1626	1/1	0.90	0.18	75,75,75,75	0
59	MG	DA	3309	1/1	0.90	0.11	61,61,61,61	0
59	MG	DA	3313	1/1	0.90	0.27	74,74,74,74	0
59	MG	DA	3156	1/1	0.90	0.24	31,31,31,31	0
59	MG	DA	3340	1/1	0.91	0.15	25,25,25,25	0
59	MG	BA	3020	1/1	0.91	0.42	37,37,37,37	0
59	MG	BA	3045	1/1	0.91	0.54	44,44,44,44	0
59	MG	DA	3236	1/1	0.91	0.31	43,43,43,43	0
59	MG	CA	1673	1/1	0.91	0.09	15,15,15,15	0
59	MG	AA	1661	1/1	0.91	0.13	52,52,52,52	0
59	MG	DA	3071	1/1	0.91	0.20	18,18,18,18	0
59	MG	CA	1736	1/1	0.91	0.41	55,55,55,55	0
59	MG	BA	3023	1/1	0.91	0.43	52,52,52,52	0
59	MG	DA	3245	1/1	0.91	0.18	38,38,38,38	0
59	MG	DA	3179	1/1	0.91	0.20	49,49,49,49	0
59	MG	BA	3032	1/1	0.91	0.14	49,49,49,49	0
59	MG	AA	1613	1/1	0.91	0.15	60,60,60,60	0
59	MG	BA	3308	1/1	0.91	0.12	39,39,39,39	0
59	MG	AL	201	1/1	0.91	0.09	15,15,15,15	1
59	MG	BA	3317	1/1	0.91	0.26	1,1,1,1	1
59	MG	BA	3144	1/1	0.91	0.16	46,46,46,46	0
59	MG	BA	3028	1/1	0.91	0.29	40,40,40,40	0
59	MG	BA	3181	1/1	0.91	0.26	60,60,60,60	0
59	MG	CA	1692	1/1	0.91	0.66	73,73,73,73	0
59	MG	DA	3132	1/1	0.91	0.15	62,62,62,62	0
59	MG	DA	3332	1/1	0.91	0.24	26,26,26,26	1
59	MG	BA	3215	1/1	0.91	0.10	26,26,26,26	0
59	MG	AA	1623	1/1	0.91	0.23	60,60,60,60	0
59	MG	CA	1616	1/1	0.91	0.50	65,65,65,65	0
59	MG	DA	3052	1/1	0.91	0.26	25,25,25,25	0
59	MG	DA	3111	1/1	0.91	0.32	33,33,33,33	0
59	MG	CN	101	1/1	0.91	0.09	69,69,69,69	0
59	MG	BA	3162	1/1	0.91	0.34	96,96,96,96	0
59	MG	DA	3359	1/1	0.91	0.17	1,1,1,1	1
59	MG	BA	3326	1/1	0.91	0.34	42,42,42,42	0
59	MG	BA	3242	1/1	0.91	0.14	106,106,106,106	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
59	MG	CA	1652	1/1	0.91	0.47	71,71,71,71	0
59	MG	BA	3239	1/1	0.91	0.30	4,4,4,4	1
59	MG	DA	3121	1/1	0.91	0.38	14,14,14,14	1
59	MG	DA	3267	1/1	0.91	0.21	13,13,13,13	0
59	MG	DA	3192	1/1	0.91	0.12	35,35,35,35	0
59	MG	BA	3325	1/1	0.91	0.08	62,62,62,62	0
59	MG	BA	3258	1/1	0.91	0.35	48,48,48,48	0
59	MG	DA	3146	1/1	0.91	0.11	27,27,27,27	0
59	MG	DA	3205	1/1	0.91	0.31	46,46,46,46	0
59	MG	BA	3169	1/1	0.91	0.22	45,45,45,45	0
59	MG	BA	3142	1/1	0.91	0.28	97,97,97,97	0
59	MG	CA	1636	1/1	0.91	0.31	52,52,52,52	0
59	MG	BA	3341	1/1	0.91	0.34	61,61,61,61	0
59	MG	BA	3225	1/1	0.91	0.50	73,73,73,73	0
59	MG	CA	1671	1/1	0.91	0.16	44,44,44,44	0
59	MG	DA	3187	1/1	0.91	0.56	44,44,44,44	0
59	MG	CA	1628	1/1	0.91	0.25	49,49,49,49	0
59	MG	DA	3152	1/1	0.91	0.23	38,38,38,38	0
59	MG	DA	3099	1/1	0.92	0.28	12,12,12,12	0
59	MG	CA	1733	1/1	0.92	0.23	50,50,50,50	0
59	MG	DA	3143	1/1	0.92	0.26	48,48,48,48	0
59	MG	BA	3030	1/1	0.92	0.32	59,59,59,59	0
59	MG	AA	1675	1/1	0.92	0.13	35,35,35,35	0
59	MG	BA	3006	1/1	0.92	0.50	73,73,73,73	0
59	MG	BA	3190	1/1	0.92	0.13	47,47,47,47	0
59	MG	DA	3220	1/1	0.92	0.56	51,51,51,51	0
59	MG	DA	3110	1/1	0.92	0.30	46,46,46,46	0
59	MG	DA	3327	1/1	0.92	0.24	38,38,38,38	0
59	MG	AA	1753	1/1	0.92	0.36	16,16,16,16	1
59	MG	CA	1602	1/1	0.92	0.30	16,16,16,16	1
59	MG	DA	3135	1/1	0.92	0.16	33,33,33,33	0
59	MG	CW	104	1/1	0.92	0.14	37,37,37,37	1
59	MG	DA	3263	1/1	0.92	0.42	53,53,53,53	0
59	MG	BA	3091	1/1	0.92	0.18	58,58,58,58	0
59	MG	DA	3351	1/1	0.92	0.74	70,70,70,70	0
59	MG	CA	1615	1/1	0.92	0.34	26,26,26,26	0
59	MG	BA	3170	1/1	0.92	0.28	38,38,38,38	0
59	MG	BA	3046	1/1	0.92	0.23	22,22,22,22	0
59	MG	DA	3194	1/1	0.92	0.27	32,32,32,32	0
59	MG	AA	1619	1/1	0.92	0.31	39,39,39,39	0
59	MG	AA	1665	1/1	0.92	0.25	61,61,61,61	0
59	MG	BA	3073	1/1	0.92	0.39	46,46,46,46	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
59	MG	CL	201	1/1	0.92	0.12	8,8,8,8	1
59	MG	BA	3221	1/1	0.92	0.42	53,53,53,53	0
59	MG	DA	3299	1/1	0.92	0.36	49,49,49,49	0
59	MG	DA	3241	1/1	0.92	0.12	69,69,69,69	0
59	MG	BA	3123	1/1	0.92	0.58	72,72,72,72	0
59	MG	BA	3120	1/1	0.92	0.20	25,25,25,25	0
59	MG	DA	3175	1/1	0.92	0.38	59,59,59,59	0
59	MG	BA	3137	1/1	0.92	0.15	38,38,38,38	0
59	MG	AA	1673	1/1	0.92	0.25	72,72,72,72	0
59	MG	BA	3110	1/1	0.92	0.16	51,51,51,51	0
59	MG	DA	3278	1/1	0.92	0.41	40,40,40,40	0
59	MG	AA	1654	1/1	0.92	0.13	78,78,78,78	0
59	MG	CA	1685	1/1	0.92	0.40	53,53,53,53	0
59	MG	DA	3288	1/1	0.92	0.23	61,61,61,61	0
59	MG	DA	3305	1/1	0.92	0.17	39,39,39,39	0
59	MG	DA	3122	1/1	0.92	0.61	73,73,73,73	0
59	MG	CA	1687	1/1	0.92	0.14	64,64,64,64	0
59	MG	DA	3347	1/1	0.92	0.35	24,24,24,24	1
59	MG	DA	3321	1/1	0.92	0.45	85,85,85,85	0
59	MG	BA	3271	1/1	0.92	0.45	55,55,55,55	0
59	MG	CA	1725	1/1	0.92	0.22	72,72,72,72	0
59	MG	AA	1713	1/1	0.92	0.22	49,49,49,49	1
59	MG	AA	1720	1/1	0.92	0.56	55,55,55,55	0
59	MG	CA	1644	1/1	0.92	0.10	64,64,64,64	0
59	MG	BA	3107	1/1	0.92	0.22	25,25,25,25	1
59	MG	DD	301	1/1	0.92	0.28	37,37,37,37	0
59	MG	CA	1657	1/1	0.92	0.17	52,52,52,52	0
59	MG	CA	1744	1/1	0.92	0.31	38,38,38,38	0
59	MG	DA	3343	1/1	0.92	0.29	48,48,48,48	0
59	MG	DA	3352	1/1	0.92	0.22	46,46,46,46	0
59	MG	CA	1624	1/1	0.92	0.36	52,52,52,52	0
59	MG	DA	3155	1/1	0.92	0.21	50,50,50,50	0
59	MG	AA	1689	1/1	0.92	0.20	37,37,37,37	0
59	MG	CA	1631	1/1	0.92	0.12	24,24,24,24	0
59	MG	DA	3058	1/1	0.92	0.35	23,23,23,23	0
59	MG	BA	3092	1/1	0.92	0.28	40,40,40,40	0
59	MG	DA	3315	1/1	0.93	0.18	15,15,15,15	0
59	MG	CA	1651	1/1	0.93	0.36	40,40,40,40	0
59	MG	BA	3264	1/1	0.93	0.13	64,64,64,64	0
59	MG	CA	1717	1/1	0.93	0.20	63,63,63,63	1
59	MG	BA	3115	1/1	0.93	0.46	43,43,43,43	0
59	MG	B1	101	1/1	0.93	0.27	6,6,6,6	1

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
59	MG	DA	3209	1/1	0.93	0.23	47,47,47,47	0
59	MG	CA	1655	1/1	0.93	0.32	37,37,37,37	0
59	MG	BA	3235	1/1	0.93	0.22	42,42,42,42	0
59	MG	AA	1668	1/1	0.93	0.23	40,40,40,40	0
59	MG	BA	3128	1/1	0.93	0.18	60,60,60,60	0
59	MG	AA	1738	1/1	0.93	0.11	85,85,85,85	0
59	MG	DA	3109	1/1	0.93	0.20	6,6,6,6	1
59	MG	CA	1634	1/1	0.93	0.44	35,35,35,35	0
59	MG	AA	1670	1/1	0.93	0.19	34,34,34,34	0
59	MG	DA	3275	1/1	0.93	0.41	28,28,28,28	1
59	MG	AA	1615	1/1	0.93	0.50	50,50,50,50	0
59	MG	DA	3238	1/1	0.93	0.38	47,47,47,47	0
59	MG	DA	3207	1/1	0.93	0.19	40,40,40,40	0
59	MG	AA	1663	1/1	0.93	0.17	50,50,50,50	0
59	MG	BA	3233	1/1	0.93	0.24	50,50,50,50	0
59	MG	DA	3001	1/1	0.93	0.20	29,29,29,29	1
59	MG	DA	3056	1/1	0.93	0.40	26,26,26,26	0
59	MG	BA	3086	1/1	0.93	0.35	25,25,25,25	0
59	MG	BA	3316	1/1	0.93	0.26	74,74,74,74	0
59	MG	DA	3167	1/1	0.93	0.45	46,46,46,46	0
59	MG	BA	3306	1/1	0.93	0.36	29,29,29,29	0
59	MG	AA	1708	1/1	0.93	0.11	76,76,76,76	1
59	MG	DA	3224	1/1	0.93	0.48	44,44,44,44	0
59	MG	BA	3189	1/1	0.93	0.19	41,41,41,41	0
59	MG	DA	3316	1/1	0.93	0.18	33,33,33,33	1
59	MG	DA	3085	1/1	0.93	0.14	5,5,5,5	0
59	MG	DA	3091	1/1	0.93	0.28	21,21,21,21	1
59	MG	BA	3231	1/1	0.93	0.25	25,25,25,25	1
59	MG	DA	3271	1/1	0.93	0.46	58,58,58,58	0
59	MG	BA	3343	1/1	0.93	0.12	75,75,75,75	0
59	MG	DA	3341	1/1	0.93	0.24	36,36,36,36	1
59	MG	BA	3112	1/1	0.93	0.16	44,44,44,44	0
59	MG	DA	3314	1/1	0.93	0.54	31,31,31,31	0
59	MG	CA	1665	1/1	0.93	0.49	46,46,46,46	0
59	MG	BA	3134	1/1	0.93	0.19	52,52,52,52	0
59	MG	DA	3029	1/1	0.93	0.28	49,49,49,49	0
59	MG	BA	3059	1/1	0.93	0.21	30,30,30,30	0
59	MG	AA	1685	1/1	0.93	0.12	57,57,57,57	0
59	MG	AA	1756	1/1	0.93	0.09	64,64,64,64	0
59	MG	AV	102	1/1	0.93	0.12	61,61,61,61	0
59	MG	BA	3075	1/1	0.93	0.30	32,32,32,32	0
59	MG	DA	3202	1/1	0.93	0.32	35,35,35,35	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
59	MG	DA	3139	1/1	0.93	0.28	23,23,23,23	0
59	MG	CW	103	1/1	0.93	0.29	15,15,15,15	1
59	MG	DA	3096	1/1	0.93	0.40	50,50,50,50	0
59	MG	DA	3010	1/1	0.93	0.33	54,54,54,54	0
59	MG	CA	1755	1/1	0.93	0.19	97,97,97,97	1
59	MG	BA	3168	1/1	0.93	0.15	37,37,37,37	0
59	MG	CA	1618	1/1	0.93	0.14	38,38,38,38	0
59	MG	BA	3237	1/1	0.93	0.39	64,64,64,64	0
59	MG	DA	3334	1/1	0.93	0.12	63,63,63,63	0
59	MG	AA	1605	1/1	0.93	0.10	58,58,58,58	0
59	MG	DA	3283	1/1	0.93	0.11	35,35,35,35	0
59	MG	DA	3181	1/1	0.94	0.31	26,26,26,26	0
59	MG	AA	1754	1/1	0.94	0.10	51,51,51,51	0
59	MG	CA	1750	1/1	0.94	0.16	76,76,76,76	0
59	MG	BA	3068	1/1	0.94	0.26	30,30,30,30	0
59	MG	AA	1638	1/1	0.94	0.11	43,43,43,43	0
59	MG	DA	3164	1/1	0.94	0.49	44,44,44,44	0
59	MG	AA	1684	1/1	0.94	0.30	59,59,59,59	0
59	MG	BA	3175	1/1	0.94	0.12	65,65,65,65	0
59	MG	DA	3345	1/1	0.94	0.26	46,46,46,46	0
59	MG	DA	3328	1/1	0.94	0.15	32,32,32,32	0
59	MG	BA	3263	1/1	0.94	0.36	54,54,54,54	0
59	MG	BA	3266	1/1	0.94	0.36	35,35,35,35	0
59	MG	CA	1711	1/1	0.94	0.22	40,40,40,40	0
59	MG	DA	3069	1/1	0.94	0.26	19,19,19,19	0
59	MG	AA	1750	1/1	0.94	0.31	54,54,54,54	0
59	MG	DA	3051	1/1	0.94	0.34	23,23,23,23	0
59	MG	B5	101	1/1	0.94	0.25	38,38,38,38	0
59	MG	BA	3072	1/1	0.94	0.41	41,41,41,41	0
59	MG	DA	3117	1/1	0.94	0.13	16,16,16,16	0
59	MG	DA	3261	1/1	0.94	0.20	33,33,33,33	0
59	MG	BA	3089	1/1	0.94	0.27	28,28,28,28	0
59	MG	DA	3036	1/1	0.94	0.15	39,39,39,39	0
59	MG	BA	3136	1/1	0.94	0.23	42,42,42,42	0
59	MG	DA	3326	1/1	0.94	0.61	35,35,35,35	0
59	MG	AA	1688	1/1	0.94	0.25	52,52,52,52	0
59	MG	BA	3108	1/1	0.94	0.40	15,15,15,15	0
59	MG	AA	1610	1/1	0.94	0.14	80,80,80,80	1
59	MG	DA	3028	1/1	0.94	0.28	24,24,24,24	0
59	MG	DA	3002	1/1	0.94	0.17	39,39,39,39	1
59	MG	CA	1697	1/1	0.94	0.09	58,58,58,58	0
59	MG	BA	3339	1/1	0.94	0.09	21,21,21,21	1

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
59	MG	CA	1605	1/1	0.94	0.12	44,44,44,44	0
59	MG	CA	1623	1/1	0.94	0.25	51,51,51,51	0
59	MG	AA	1700	1/1	0.94	0.37	77,77,77,77	0
59	MG	DA	3128	1/1	0.94	0.38	56,56,56,56	0
59	MG	BA	3330	1/1	0.94	0.42	49,49,49,49	0
59	MG	AA	1744	1/1	0.94	0.24	1,1,1,1	1
59	MG	DA	3030	1/1	0.94	0.35	34,34,34,34	0
59	MG	BA	3064	1/1	0.94	0.63	61,61,61,61	0
59	MG	DA	3216	1/1	0.94	0.16	11,11,11,11	1
59	MG	BA	3022	1/1	0.94	0.41	22,22,22,22	0
59	MG	BA	3109	1/1	0.94	0.26	37,37,37,37	1
59	MG	BA	3138	1/1	0.94	0.12	31,31,31,31	0
59	MG	AA	1655	1/1	0.94	0.18	57,57,57,57	0
59	MG	BA	3125	1/1	0.94	0.34	19,19,19,19	0
59	MG	BA	3088	1/1	0.94	0.51	38,38,38,38	0
59	MG	AW	104	1/1	0.94	0.22	67,67,67,67	1
59	MG	DA	3218	1/1	0.94	0.32	29,29,29,29	0
59	MG	DA	3166	1/1	0.94	0.15	29,29,29,29	0
59	MG	DA	3032	1/1	0.94	0.16	32,32,32,32	0
59	MG	AA	1698	1/1	0.94	0.33	25,25,25,25	1
59	MG	DA	3201	1/1	0.94	0.42	29,29,29,29	0
59	MG	BA	3016	1/1	0.94	0.39	18,18,18,18	0
59	MG	BA	3291	1/1	0.94	0.16	42,42,42,42	0
59	MG	AA	1678	1/1	0.94	0.38	56,56,56,56	0
59	MG	DA	3251	1/1	0.94	0.16	18,18,18,18	1
59	MG	AA	1656	1/1	0.94	0.07	30,30,30,30	0
59	MG	DA	3291	1/1	0.94	0.11	49,49,49,49	0
59	MG	CA	1649	1/1	0.94	0.19	22,22,22,22	0
59	MG	BA	3257	1/1	0.94	0.18	45,45,45,45	0
59	MG	DA	3264	1/1	0.94	0.28	58,58,58,58	1
59	MG	AA	1696	1/1	0.94	0.09	57,57,57,57	1
59	MG	CA	1737	1/1	0.94	0.59	59,59,59,59	0
59	MG	BA	3177	1/1	0.94	0.22	77,77,77,77	0
59	MG	DA	3358	1/1	0.94	0.42	50,50,50,50	0
59	MG	BA	3272	1/1	0.94	0.50	44,44,44,44	0
59	MG	AA	1603	1/1	0.94	0.16	60,60,60,60	0
59	MG	DA	3182	1/1	0.94	0.23	42,42,42,42	0
59	MG	BX	101	1/1	0.94	0.32	47,47,47,47	0
59	MG	DA	3239	1/1	0.94	0.12	29,29,29,29	0
59	MG	DA	3195	1/1	0.94	0.14	102,102,102,102	0
59	MG	CA	1627	1/1	0.94	0.08	51,51,51,51	0
59	MG	BA	3282	1/1	0.94	0.09	68,68,68,68	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
59	MG	DA	3160	1/1	0.94	0.34	18,18,18,18	0
59	MG	DA	3196	1/1	0.94	0.20	41,41,41,41	0
59	MG	BA	3094	1/1	0.94	0.25	36,36,36,36	0
59	MG	BA	3299	1/1	0.94	0.30	55,55,55,55	0
59	MG	BA	3135	1/1	0.94	0.41	53,53,53,53	0
59	MG	AA	1625	1/1	0.94	0.28	53,53,53,53	0
59	MG	DA	3235	1/1	0.94	0.29	18,18,18,18	0
59	MG	BA	3100	1/1	0.94	0.29	29,29,29,29	0
59	MG	BA	3207	1/1	0.94	0.22	68,68,68,68	0
59	MG	DA	3169	1/1	0.94	0.15	47,47,47,47	0
59	MG	CA	1752	1/1	0.94	0.08	84,84,84,84	0
59	MG	DA	3252	1/1	0.94	0.31	51,51,51,51	0
59	MG	DA	3286	1/1	0.94	0.34	41,41,41,41	0
59	MG	DA	3225	1/1	0.95	0.10	34,34,34,34	0
59	MG	BA	3206	1/1	0.95	0.12	85,85,85,85	0
59	MG	BA	3104	1/1	0.95	0.38	57,57,57,57	0
59	MG	D5	101	1/1	0.95	0.26	25,25,25,25	0
59	MG	DA	3268	1/1	0.95	0.17	30,30,30,30	0
59	MG	DA	3040	1/1	0.95	0.25	27,27,27,27	0
59	MG	BA	3340	1/1	0.95	0.08	73,73,73,73	0
59	MG	BA	3321	1/1	0.95	0.15	73,73,73,73	0
59	MG	BA	3229	1/1	0.95	0.13	37,37,37,37	0
59	MG	CA	1693	1/1	0.95	0.45	56,56,56,56	0
59	MG	DA	3227	1/1	0.95	0.24	22,22,22,22	0
59	MG	DA	3191	1/1	0.95	0.28	34,34,34,34	0
59	MG	DA	3093	1/1	0.95	0.27	11,11,11,11	0
59	MG	BA	3034	1/1	0.95	0.19	39,39,39,39	0
59	MG	DA	3163	1/1	0.95	0.17	27,27,27,27	0
59	MG	BA	3285	1/1	0.95	0.22	37,37,37,37	1
59	MG	BA	3024	1/1	0.95	0.34	36,36,36,36	0
59	MG	BA	3021	1/1	0.95	0.22	32,32,32,32	0
59	MG	DA	3137	1/1	0.95	0.28	11,11,11,11	0
59	MG	DA	3329	1/1	0.95	0.53	47,47,47,47	0
59	MG	BA	3017	1/1	0.95	0.29	45,45,45,45	0
59	MG	DA	3115	1/1	0.95	0.26	44,44,44,44	0
59	MG	BA	3008	1/1	0.95	0.29	58,58,58,58	0
59	MG	BA	3279	1/1	0.95	0.30	39,39,39,39	0
59	MG	DA	3025	1/1	0.95	0.27	29,29,29,29	0
59	MG	AA	1761	1/1	0.95	0.16	88,88,88,88	0
59	MG	DB	202	1/1	0.95	0.26	23,23,23,23	0
59	MG	DA	3255	1/1	0.95	0.17	13,13,13,13	0
59	MG	CA	1681	1/1	0.95	0.09	58,58,58,58	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
59	MG	DA	3134	1/1	0.95	0.20	28,28,28,28	0
59	MG	CA	1610	1/1	0.95	0.21	60,60,60,60	0
59	MG	DA	3259	1/1	0.95	0.34	31,31,31,31	0
59	MG	BA	3174	1/1	0.95	0.28	29,29,29,29	0
59	MG	DA	3307	1/1	0.95	0.31	14,14,14,14	0
59	MG	DA	3104	1/1	0.95	0.35	35,35,35,35	0
59	MG	BA	3315	1/1	0.95	0.12	45,45,45,45	0
59	MG	DA	3129	1/1	0.95	0.20	46,46,46,46	0
59	MG	DA	3021	1/1	0.95	0.23	20,20,20,20	0
59	MG	BA	3222	1/1	0.95	0.41	29,29,29,29	0
59	MG	BA	3060	1/1	0.95	0.26	14,14,14,14	0
59	MG	DA	3150	1/1	0.95	0.25	48,48,48,48	0
59	MG	DA	3147	1/1	0.95	0.20	52,52,52,52	0
59	MG	BA	3150	1/1	0.95	0.15	44,44,44,44	0
59	MG	DA	3203	1/1	0.95	0.21	37,37,37,37	0
59	MG	BA	3102	1/1	0.95	0.14	20,20,20,20	0
59	MG	DA	3004	1/1	0.95	0.25	25,25,25,25	0
59	MG	BA	3267	1/1	0.95	0.23	25,25,25,25	0
59	MG	BA	3156	1/1	0.95	0.14	58,58,58,58	0
59	MG	DA	3287	1/1	0.95	0.15	28,28,28,28	0
59	MG	BA	3019	1/1	0.95	0.36	26,26,26,26	0
59	MG	CA	1653	1/1	0.95	0.07	44,44,44,44	0
59	MG	DA	3054	1/1	0.95	0.42	22,22,22,22	0
59	MG	BA	3284	1/1	0.95	0.19	31,31,31,31	0
59	MG	CA	1635	1/1	0.95	0.09	31,31,31,31	0
59	MG	DA	3233	1/1	0.95	0.30	37,37,37,37	0
59	MG	D5	102	1/1	0.95	0.44	28,28,28,28	0
59	MG	AA	1609	1/1	0.95	0.13	38,38,38,38	1
59	MG	DA	3024	1/1	0.95	0.35	10,10,10,10	0
59	MG	AA	1643	1/1	0.95	0.21	93,93,93,93	0
59	MG	DA	3208	1/1	0.95	0.15	26,26,26,26	0
59	MG	DE	301	1/1	0.95	0.24	41,41,41,41	0
59	MG	DA	3297	1/1	0.95	0.31	42,42,42,42	1
59	MG	DA	3232	1/1	0.95	0.29	37,37,37,37	1
59	MG	DA	3118	1/1	0.95	0.27	15,15,15,15	0
59	MG	BA	3251	1/1	0.95	0.28	55,55,55,55	0
59	MG	DA	3330	1/1	0.95	0.23	23,23,23,23	0
59	MG	DA	3151	1/1	0.96	0.27	25,25,25,25	0
59	MG	DA	3171	1/1	0.96	0.16	3,3,3,3	0
59	MG	DA	3124	1/1	0.96	0.38	20,20,20,20	1
59	MG	BA	3090	1/1	0.96	0.27	33,33,33,33	0
59	MG	CA	1751	1/1	0.96	0.14	62,62,62,62	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
59	MG	BA	3337	1/1	0.96	0.28	55,55,55,55	0
59	MG	CV	103	1/1	0.96	0.08	57,57,57,57	0
59	MG	DA	3011	1/1	0.96	0.25	10,10,10,10	0
59	MG	AA	1629	1/1	0.96	0.20	61,61,61,61	0
59	MG	BA	3018	1/1	0.96	0.22	35,35,35,35	0
59	MG	DS	201	1/1	0.96	0.26	30,30,30,30	0
59	MG	CA	1608	1/1	0.96	0.14	35,35,35,35	0
59	MG	CA	1620	1/1	0.96	0.19	48,48,48,48	0
59	MG	BA	3350	1/1	0.96	0.69	69,69,69,69	0
59	MG	DA	3310	1/1	0.96	0.23	51,51,51,51	0
59	MG	BA	3063	1/1	0.96	0.14	56,56,56,56	0
59	MG	DA	3007	1/1	0.96	0.24	4,4,4,4	0
59	MG	DA	3213	1/1	0.96	0.24	17,17,17,17	0
59	MG	DA	3200	1/1	0.96	0.31	18,18,18,18	0
59	MG	DA	3034	1/1	0.96	0.33	32,32,32,32	0
59	MG	DA	3206	1/1	0.96	0.21	57,57,57,57	0
59	MG	DA	3101	1/1	0.96	0.39	16,16,16,16	0
59	MG	CV	104	1/1	0.96	0.07	2,2,2,2	1
59	MG	BA	3347	1/1	0.96	0.19	30,30,30,30	0
59	MG	DA	3217	1/1	0.96	0.19	7,7,7,7	0
59	MG	BA	3164	1/1	0.96	0.30	52,52,52,52	0
59	MG	DA	3293	1/1	0.96	0.84	63,63,63,63	0
59	MG	BA	3275	1/1	0.96	0.36	27,27,27,27	1
59	MG	BA	3234	1/1	0.96	0.35	26,26,26,26	0
59	MG	DA	3183	1/1	0.96	0.15	45,45,45,45	0
59	MG	BY	201	1/1	0.96	0.12	42,42,42,42	0
59	MG	CA	1741	1/1	0.96	0.36	34,34,34,34	0
59	MG	AA	1715	1/1	0.96	0.30	59,59,59,59	0
59	MG	CA	1745	1/1	0.96	0.26	37,37,37,37	0
59	MG	CA	1630	1/1	0.96	0.29	68,68,68,68	0
59	MG	DA	3086	1/1	0.96	0.25	18,18,18,18	0
59	MG	AA	1620	1/1	0.96	0.24	54,54,54,54	0
59	MG	DA	3075	1/1	0.96	0.29	26,26,26,26	0
59	MG	CA	1609	1/1	0.96	0.25	58,58,58,58	0
59	MG	DA	3168	1/1	0.96	0.09	18,18,18,18	0
59	MG	CA	1647	1/1	0.96	0.32	44,44,44,44	0
59	MG	BA	3270	1/1	0.96	0.30	49,49,49,49	0
59	MG	CA	1703	1/1	0.96	0.11	62,62,62,62	0
59	MG	DA	3113	1/1	0.96	0.23	16,16,16,16	0
59	MG	DA	3348	1/1	0.96	0.16	18,18,18,18	0
59	MG	DA	3014	1/1	0.96	0.29	20,20,20,20	0
59	MG	DA	3231	1/1	0.96	0.22	27,27,27,27	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
59	MG	CA	1643	1/1	0.96	0.13	10,10,10,10	1
59	MG	DA	3088	1/1	0.96	0.43	8,8,8,8	0
59	MG	AA	1618	1/1	0.96	0.09	30,30,30,30	1
59	MG	BA	3013	1/1	0.96	0.21	54,54,54,54	0
59	MG	DA	3063	1/1	0.96	0.19	17,17,17,17	0
59	MG	DA	3003	1/1	0.96	0.31	35,35,35,35	0
59	MG	BA	3193	1/1	0.96	0.39	5,5,5,5	1
59	MG	DA	3026	1/1	0.96	0.22	21,21,21,21	0
59	MG	BD	302	1/1	0.96	0.21	29,29,29,29	0
59	MG	BA	3040	1/1	0.96	0.27	36,36,36,36	0
59	MG	BA	3035	1/1	0.96	0.19	21,21,21,21	0
59	MG	BA	3148	1/1	0.96	0.09	44,44,44,44	0
59	MG	BA	3230	1/1	0.96	0.21	40,40,40,40	0
59	MG	CA	1676	1/1	0.96	0.15	46,46,46,46	1
59	MG	BA	3038	1/1	0.96	0.26	44,44,44,44	0
59	MG	DA	3246	1/1	0.96	0.26	45,45,45,45	0
59	MG	BA	3211	1/1	0.96	0.22	44,44,44,44	0
59	MG	DA	3068	1/1	0.96	0.22	6,6,6,6	0
59	MG	BA	3101	1/1	0.96	0.40	27,27,27,27	0
59	MG	DA	3306	1/1	0.96	0.39	15,15,15,15	0
59	MG	DA	3108	1/1	0.96	0.38	16,16,16,16	0
59	MG	DA	3017	1/1	0.96	0.22	22,22,22,22	0
59	MG	AA	1631	1/1	0.96	0.06	45,45,45,45	0
59	MG	CA	1729	1/1	0.96	0.30	33,33,33,33	1
59	MG	BA	3307	1/1	0.96	0.29	14,14,14,14	0
59	MG	DA	3009	1/1	0.96	0.29	15,15,15,15	0
59	MG	DA	3234	1/1	0.96	0.46	69,69,69,69	0
59	MG	CV	102	1/1	0.96	0.11	43,43,43,43	0
59	MG	BA	3328	1/1	0.96	0.22	32,32,32,32	0
59	MG	DA	3074	1/1	0.96	0.26	24,24,24,24	0
59	MG	DA	3180	1/1	0.96	0.32	11,11,11,11	0
59	MG	BA	3074	1/1	0.96	0.28	37,37,37,37	0
59	MG	AA	1725	1/1	0.96	0.11	94,94,94,94	0
59	MG	BA	3042	1/1	0.96	0.45	43,43,43,43	0
59	MG	CA	1625	1/1	0.96	0.17	36,36,36,36	0
59	MG	DF	301	1/1	0.96	0.11	9,9,9,9	0
59	MG	DA	3149	1/1	0.96	0.16	43,43,43,43	0
59	MG	DA	3176	1/1	0.96	0.28	7,7,7,7	0
59	MG	AA	1636	1/1	0.96	0.14	21,21,21,21	0
59	MG	DA	3097	1/1	0.96	0.14	15,15,15,15	0
59	MG	CA	1718	1/1	0.96	0.14	44,44,44,44	1
59	MG	CA	1705	1/1	0.96	0.24	47,47,47,47	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
59	MG	DA	3082	1/1	0.96	0.24	56,56,56,56	0
59	MG	DA	3172	1/1	0.96	0.20	3,3,3,3	0
59	MG	DA	3035	1/1	0.96	0.25	19,19,19,19	0
59	MG	DA	3131	1/1	0.96	0.12	18,18,18,18	0
59	MG	BA	3012	1/1	0.97	0.24	25,25,25,25	0
59	MG	BA	3083	1/1	0.97	0.25	25,25,25,25	0
59	MG	AA	1634	1/1	0.97	0.49	39,39,39,39	0
59	MG	DA	3027	1/1	0.97	0.17	1,1,1,1	0
59	MG	BA	3201	1/1	0.97	0.19	37,37,37,37	0
59	MG	AA	1686	1/1	0.97	0.34	64,64,64,64	0
59	MG	BA	3301	1/1	0.97	0.23	36,36,36,36	0
59	MG	DA	3019	1/1	0.97	0.31	17,17,17,17	0
59	MG	DA	3022	1/1	0.97	0.41	16,16,16,16	0
59	MG	BA	3053	1/1	0.97	0.17	45,45,45,45	1
59	MG	DA	3067	1/1	0.97	0.11	13,13,13,13	0
59	MG	BA	3014	1/1	0.97	0.33	45,45,45,45	0
59	MG	DA	3012	1/1	0.97	0.35	19,19,19,19	0
59	MG	DA	3106	1/1	0.97	0.39	23,23,23,23	0
59	MG	AA	1624	1/1	0.97	0.37	62,62,62,62	0
60	ZN	B9	101	1/1	0.97	0.06	77,77,77,77	1
59	MG	DA	3126	1/1	0.97	0.29	6,6,6,6	0
59	MG	BA	3224	1/1	0.97	0.08	37,37,37,37	0
59	MG	DA	3269	1/1	0.97	0.21	7,7,7,7	0
59	MG	BA	3244	1/1	0.97	0.26	51,51,51,51	0
59	MG	DA	3346	1/1	0.97	0.26	42,42,42,42	0
59	MG	DA	3105	1/1	0.97	0.10	1,1,1,1	0
59	MG	DA	3302	1/1	0.97	0.13	1,1,1,1	0
59	MG	BA	3314	1/1	0.97	0.47	45,45,45,45	0
59	MG	DA	3140	1/1	0.97	0.27	57,57,57,57	0
59	MG	DA	3043	1/1	0.97	0.29	2,2,2,2	0
59	MG	BA	3186	1/1	0.97	0.31	28,28,28,28	0
59	MG	DA	3353	1/1	0.97	0.21	43,43,43,43	0
59	MG	BA	3106	1/1	0.97	0.23	34,34,34,34	0
59	MG	DA	3354	1/1	0.97	0.21	21,21,21,21	0
59	MG	DA	3324	1/1	0.97	0.28	25,25,25,25	1
59	MG	CA	1606	1/1	0.97	0.42	58,58,58,58	0
59	MG	DA	3136	1/1	0.97	0.34	38,38,38,38	0
59	MG	BA	3238	1/1	0.97	0.09	17,17,17,17	0
59	MG	CA	1684	1/1	0.97	0.53	50,50,50,50	0
59	MG	DA	3081	1/1	0.97	0.23	16,16,16,16	0
59	MG	AA	1632	1/1	0.97	0.57	56,56,56,56	0
59	MG	BA	3005	1/1	0.97	0.37	27,27,27,27	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
59	MG	DA	3060	1/1	0.97	0.24	17,17,17,17	0
59	MG	CV	101	1/1	0.97	0.16	29,29,29,29	0
59	MG	BA	3228	1/1	0.97	0.12	48,48,48,48	1
59	MG	CA	1668	1/1	0.97	0.43	50,50,50,50	0
59	MG	BA	3265	1/1	0.97	0.08	32,32,32,32	0
59	MG	BA	3345	1/1	0.97	0.43	63,63,63,63	0
59	MG	DA	3142	1/1	0.97	0.43	17,17,17,17	0
59	MG	BA	3294	1/1	0.97	0.28	32,32,32,32	0
59	MG	DA	3247	1/1	0.97	0.14	44,44,44,44	0
59	MG	DA	3254	1/1	0.97	0.15	50,50,50,50	1
59	MG	AA	1627	1/1	0.97	0.13	40,40,40,40	0
59	MG	DA	3103	1/1	0.97	0.28	12,12,12,12	0
59	MG	BA	3054	1/1	0.97	0.32	19,19,19,19	0
59	MG	DA	3127	1/1	0.97	0.10	6,6,6,6	0
59	MG	DA	3185	1/1	0.97	0.13	39,39,39,39	0
59	MG	AA	1628	1/1	0.97	0.20	50,50,50,50	0
59	MG	DA	3296	1/1	0.97	0.07	34,34,34,34	0
59	MG	DA	3087	1/1	0.97	0.20	1,1,1,1	0
59	MG	DA	3038	1/1	0.97	0.26	20,20,20,20	0
59	MG	BA	3055	1/1	0.97	0.33	25,25,25,25	0
59	MG	AA	1695	1/1	0.97	0.18	56,56,56,56	0
59	MG	CA	1683	1/1	0.97	0.12	35,35,35,35	0
59	MG	DA	3072	1/1	0.97	0.23	20,20,20,20	0
59	MG	AA	1626	1/1	0.97	0.56	61,61,61,61	0
59	MG	CA	1664	1/1	0.97	0.20	28,28,28,28	0
59	MG	DB	203	1/1	0.97	0.25	20,20,20,20	0
59	MG	DA	3049	1/1	0.97	0.29	15,15,15,15	0
59	MG	BA	3295	1/1	0.97	0.20	81,81,81,81	1
59	MG	DA	3162	1/1	0.97	0.19	1,1,1,1	0
59	MG	DA	3300	1/1	0.97	0.19	10,10,10,10	0
59	MG	DA	3284	1/1	0.97	0.22	1,1,1,1	0
59	MG	AA	1602	1/1	0.97	0.29	53,53,53,53	1
59	MG	DA	3133	1/1	0.97	0.19	13,13,13,13	1
59	MG	BA	3084	1/1	0.97	0.16	27,27,27,27	0
59	MG	DA	3266	1/1	0.97	0.23	27,27,27,27	0
59	MG	DA	3023	1/1	0.97	0.48	20,20,20,20	0
59	MG	CA	1754	1/1	0.97	0.52	68,68,68,68	1
59	MG	DA	3257	1/1	0.97	0.11	35,35,35,35	0
59	MG	AA	1672	1/1	0.97	0.06	55,55,55,55	0
59	MG	BA	3253	1/1	0.97	0.11	65,65,65,65	1
59	MG	BA	3047	1/1	0.97	0.17	18,18,18,18	0
59	MG	CA	1666	1/1	0.97	0.45	59,59,59,59	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
59	MG	DA	3076	1/1	0.97	0.21	11,11,11,11	0
59	MG	AA	1693	1/1	0.97	0.20	41,41,41,41	0
59	MG	DA	3294	1/1	0.97	0.34	33,33,33,33	0
59	MG	CA	1735	1/1	0.97	0.10	21,21,21,21	0
59	MG	BA	3052	1/1	0.97	0.15	28,28,28,28	0
59	MG	DA	3090	1/1	0.97	0.26	20,20,20,20	0
59	MG	BA	3058	1/1	0.97	0.36	30,30,30,30	0
59	MG	BA	3066	1/1	0.97	0.51	25,25,25,25	0
59	MG	DA	3077	1/1	0.98	0.31	9,9,9,9	0
59	MG	CA	1721	1/1	0.98	0.19	74,74,74,74	0
59	MG	BA	3300	1/1	0.98	0.25	17,17,17,17	0
59	MG	BA	3098	1/1	0.98	0.11	15,15,15,15	0
59	MG	DA	3042	1/1	0.98	0.30	12,12,12,12	0
59	MG	BA	3057	1/1	0.98	0.30	21,21,21,21	0
59	MG	DA	3272	1/1	0.98	0.25	19,19,19,19	0
59	MG	AA	1683	1/1	0.98	0.13	63,63,63,63	0
59	MG	BA	3197	1/1	0.98	0.35	12,12,12,12	0
59	MG	BA	3248	1/1	0.98	0.07	62,62,62,62	0
59	MG	BA	3009	1/1	0.98	0.34	21,21,21,21	0
59	MG	DA	3061	1/1	0.98	0.26	10,10,10,10	0
59	MG	BA	3037	1/1	0.98	0.25	23,23,23,23	0
59	MG	BA	3116	1/1	0.98	0.30	45,45,45,45	0
59	MG	BA	3157	1/1	0.98	0.22	36,36,36,36	1
59	MG	DA	3157	1/1	0.98	0.23	26,26,26,26	0
59	MG	BA	3062	1/1	0.98	0.35	16,16,16,16	0
59	MG	DA	3102	1/1	0.98	0.12	1,1,1,1	0
59	MG	DA	3015	1/1	0.98	0.24	9,9,9,9	0
59	MG	BA	3076	1/1	0.98	0.18	28,28,28,28	0
59	MG	BA	3256	1/1	0.98	0.05	25,25,25,25	0
59	MG	BA	3061	1/1	0.98	0.43	21,21,21,21	0
59	MG	DA	3094	1/1	0.98	0.31	9,9,9,9	0
59	MG	BD	301	1/1	0.98	0.26	22,22,22,22	0
59	MG	BA	3130	1/1	0.98	0.09	29,29,29,29	0
59	MG	BA	3087	1/1	0.98	0.21	13,13,13,13	0
59	MG	BA	3165	1/1	0.98	0.41	40,40,40,40	0
59	MG	DA	3188	1/1	0.98	0.26	7,7,7,7	0
59	MG	BA	3011	1/1	0.98	0.38	43,43,43,43	0
59	MG	DA	3020	1/1	0.98	0.28	11,11,11,11	0
59	MG	DA	3173	1/1	0.98	0.24	12,12,12,12	0
59	MG	BA	3056	1/1	0.98	0.40	33,33,33,33	0
59	MG	BA	3147	1/1	0.98	0.27	35,35,35,35	0
59	MG	DA	3033	1/1	0.98	0.26	16,16,16,16	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
59	MG	BA	3269	1/1	0.98	0.41	34,34,34,34	0
59	MG	DA	3145	1/1	0.98	0.20	43,43,43,43	0
59	MG	DA	3073	1/1	0.98	0.30	15,15,15,15	0
59	MG	CA	1604	1/1	0.98	0.17	51,51,51,51	0
59	MG	BA	3133	1/1	0.98	0.26	118,118,118,118	0
59	MG	CA	1746	1/1	0.98	0.12	10,10,10,10	1
59	MG	BA	3158	1/1	0.98	0.47	23,23,23,23	0
59	MG	DA	3120	1/1	0.98	0.27	9,9,9,9	0
59	MG	DA	3066	1/1	0.98	0.41	14,14,14,14	0
59	MG	AA	1635	1/1	0.98	0.07	50,50,50,50	0
59	MG	DA	3301	1/1	0.98	0.21	21,21,21,21	0
59	MG	DA	3265	1/1	0.98	0.08	27,27,27,27	0
59	MG	DA	3148	1/1	0.98	0.27	7,7,7,7	0
59	MG	BA	3079	1/1	0.98	0.32	36,36,36,36	0
59	MG	DA	3005	1/1	0.98	0.33	21,21,21,21	0
59	MG	DA	3116	1/1	0.98	0.16	7,7,7,7	0
59	MG	AA	1755	1/1	0.98	0.05	51,51,51,51	0
59	MG	BA	3103	1/1	0.98	0.42	28,28,28,28	0
59	MG	DA	3177	1/1	0.98	0.22	53,53,53,53	0
59	MG	DA	3083	1/1	0.98	0.26	11,11,11,11	0
59	MG	AA	1705	1/1	0.98	0.16	43,43,43,43	0
59	MG	D1	101	1/1	0.98	0.14	22,22,22,22	1
59	MG	DA	3344	1/1	0.98	0.14	43,43,43,43	0
59	MG	AA	1612	1/1	0.98	0.09	47,47,47,47	0
59	MG	BA	3071	1/1	0.98	0.11	28,28,28,28	0
59	MG	DA	3062	1/1	0.98	0.25	1,1,1,1	0
59	MG	AA	1608	1/1	0.98	0.15	48,48,48,48	0
59	MG	DA	3190	1/1	0.98	0.29	16,16,16,16	0
59	MG	DA	3222	1/1	0.98	0.30	15,15,15,15	0
59	MG	BA	3043	1/1	0.98	0.28	22,22,22,22	0
59	MG	DA	3047	1/1	0.98	0.20	20,20,20,20	0
59	MG	DA	3016	1/1	0.98	0.46	16,16,16,16	0
59	MG	DA	3223	1/1	0.98	0.41	32,32,32,32	0
60	ZN	AN	101	1/1	0.98	0.11	104,104,104,104	0
59	MG	DA	3186	1/1	0.98	0.30	17,17,17,17	0
59	MG	CA	1669	1/1	0.98	0.28	33,33,33,33	0
59	MG	DA	3037	1/1	0.98	0.25	7,7,7,7	0
59	MG	BA	3187	1/1	0.98	0.36	18,18,18,18	0
59	MG	BA	3178	1/1	0.98	0.33	22,22,22,22	0
59	MG	BA	3126	1/1	0.98	0.11	21,21,21,21	0
59	MG	DA	3114	1/1	0.98	0.18	15,15,15,15	0
59	MG	BA	3184	1/1	0.98	0.31	27,27,27,27	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
59	MG	BA	3141	1/1	0.98	0.26	42,42,42,42	0
59	MG	CA	1686	1/1	0.98	0.14	21,21,21,21	0
59	MG	BA	3085	1/1	0.98	0.17	38,38,38,38	0
59	MG	CA	1726	1/1	0.98	0.76	48,48,48,48	0
59	MG	CA	1709	1/1	0.98	0.08	40,40,40,40	1
59	MG	DA	3070	1/1	0.98	0.22	11,11,11,11	0
59	MG	DA	3230	1/1	0.98	0.20	42,42,42,42	0
59	MG	DA	3098	1/1	0.98	0.15	6,6,6,6	0
59	MG	DA	3154	1/1	0.98	0.20	31,31,31,31	0
59	MG	BA	3105	1/1	0.99	0.15	9,9,9,9	0
59	MG	BA	3051	1/1	0.99	0.22	25,25,25,25	0
59	MG	CA	1694	1/1	0.99	0.14	37,37,37,37	1
59	MG	DA	3125	1/1	0.99	0.38	18,18,18,18	0
59	MG	DA	3008	1/1	0.99	0.25	10,10,10,10	0
59	MG	BA	3118	1/1	0.99	0.44	38,38,38,38	0
60	ZN	CN	102	1/1	0.99	0.12	101,101,101,101	0
59	MG	BA	3070	1/1	0.99	0.22	37,37,37,37	0
60	ZN	AD	301	1/1	0.99	0.21	67,67,67,67	0
59	MG	DA	3079	1/1	0.99	0.30	10,10,10,10	0
59	MG	BA	3041	1/1	0.99	0.35	17,17,17,17	0
59	MG	DA	3199	1/1	0.99	0.41	14,14,14,14	0
59	MG	DA	3048	1/1	0.99	0.28	22,22,22,22	0
59	MG	BA	3153	1/1	0.99	0.25	48,48,48,48	0
59	MG	BA	3025	1/1	0.99	0.26	40,40,40,40	0
59	MG	DA	3041	1/1	0.99	0.32	17,17,17,17	0
59	MG	BA	3026	1/1	0.99	0.22	8,8,8,8	0
59	MG	DA	3055	1/1	0.99	0.30	23,23,23,23	0
59	MG	DA	3092	1/1	0.99	0.28	18,18,18,18	0
59	MG	DA	3174	1/1	0.99	0.14	46,46,46,46	0
59	MG	DA	3018	1/1	0.99	0.24	16,16,16,16	0
59	MG	CA	1740	1/1	0.99	0.48	56,56,56,56	0
60	ZN	D9	101	1/1	0.99	0.10	59,59,59,59	0
59	MG	BA	3171	1/1	0.99	0.17	30,30,30,30	0
59	MG	DA	3100	1/1	0.99	0.34	3,3,3,3	0
59	MG	DA	3013	1/1	0.99	0.19	16,16,16,16	0
59	MG	BA	3155	1/1	0.99	0.19	53,53,53,53	0
59	MG	DA	3057	1/1	0.99	0.34	10,10,10,10	0
59	MG	CV	107	1/1	0.99	0.13	51,51,51,51	0
59	MG	DA	3112	1/1	0.99	0.16	42,42,42,42	0
59	MG	BA	3188	1/1	0.99	0.34	14,14,14,14	0
59	MG	DA	3189	1/1	0.99	0.51	21,21,21,21	0
59	MG	CA	1656	1/1	0.99	0.43	29,29,29,29	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
59	MG	BA	3027	1/1	0.99	0.21	19,19,19,19	0
59	MG	DA	3248	1/1	0.99	0.12	2,2,2,2	1
59	MG	CA	1629	1/1	0.99	0.47	55,55,55,55	0
59	MG	DA	3295	1/1	0.99	0.20	13,13,13,13	1
59	MG	BA	3015	1/1	0.99	0.26	28,28,28,28	0
59	MG	BA	3081	1/1	0.99	0.29	21,21,21,21	0
59	MG	DA	3084	1/1	0.99	0.23	13,13,13,13	0
59	MG	DA	3050	1/1	0.99	0.15	13,13,13,13	0
59	MG	DA	3059	1/1	0.99	0.24	13,13,13,13	0
59	MG	DA	3046	1/1	0.99	0.27	11,11,11,11	0
59	MG	DA	3249	1/1	0.99	0.13	27,27,27,27	1
59	MG	BA	3050	1/1	0.99	0.20	36,36,36,36	0
59	MG	DA	3089	1/1	0.99	0.32	5,5,5,5	0
60	ZN	CD	302	1/1	0.99	0.23	80,80,80,80	0

6.5 Other polymers [i](#)

There are no such residues in this entry.